



 **Fairbank**
EQUIPMENT

AGRICULTURE
78
PARTS & EQUIPMENT

Fertilizer Applicator / Weed Management / Farm Equipment



www.fairbankequipment.com

Wichita, KS
3700 W Jewell St
67213-1217
800-666-5764
F:800-685-9202

Grand Island, NE
5018 S Antelope Dr
68803-9652
800-441-7550
F:888-505-2975

Yankton, SD
703 Archery Ln
57078-4175
800-843-7913
F:888-843-7913

Garden City, KS
1553 Humphrey Rd
67846-7106
800-995-4342
F:620-276-8822

Brush, CO
715 Industrial Park Rd
80723-2916
800-842-4648
F:970-842-2220

Evans, CO
3333 Central St
80620-1525
800-333-3800
F:970-339-5001

Caldwell, ID
906 W. Simplot Blvd.
83605-6743
800-443-0809
F:208-454-2255

Pasco, WA
721 N. Oregon Ave.
99301-4240
800-788-4453
F:509-547-2163

A few of the brands we partner with:



Customer Policy

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DRY EQUIPMENT

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ELECTRONICS

TANKS

L - LIQUID

VALVES

FITTINGS

PUMPS & METERS

HOSES - CLAMPS - SAFETY

SPRAY TIPS

A - AMMONIA

ACCUFLOW

VALVES

PUMPS

GAUGES - HOSES - FITTINGS

KNIVES & SHANKS

SAFETY & DECALS

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Salesmen Territories

CUSTOMER POLICY

Delivery

All orders for which a delivery date is not specified will normally be shipped as the limits of the warehouse stock indicate. Deliveries later than the shipping date specified on the sales order will be subject to approval by the purchaser prior to shipment. Special Orders are defined as “orders for parts and units not normally stocked by Fairbank Equipment Inc.” Special Orders will be subject to approval by the purchaser prior to ordering and cannot be returned for credit.

Return Merchandise Procedures

1. Do not return merchandise to Fairbank without an authorization, as no credit will be issued.
2. Stock merchandise can be returned to us without restocking charges providing the following conditions are met:
 - a. Request for return is made within five working days from receipt of order.
 - b. Merchandise is returned freight prepaid within five working days from receipt of order.
 - c. Merchandise is in new condition
 - d. Value of merchandise is over \$10.00.
3. A 20% minimum restocking fee will be charged if the above conditions are not met.
4. Special order merchandise cannot be returned for credit.
5. No credit will be issued for under \$10.00.

Unauthorized Returns

Goods arriving at Fairbank Equipment Inc., without properly approved return authorization will be refused and returned to the sender. This does not include goods picked up by a Fairbank Equipment Inc., representative.

Obsolete

Or non-current production goods will not be authorized for return.

Damaged

Or used goods authorized for return that are received in any condition other than “Like New” will have the cost of renewal deducted from the credit.

Catalog Prices

We have removed the prices in this catalog. They are outdated as soon as the catalog is printed. For current pricing please log onto our website at: www.fairbankequipment.com.

Disposition

A Return Authorization form that has been approved will be sent to the customer to be included with the return goods as a packing slip. Goods should then be shipped, Prepaid, to Fairbank Equipment Inc.

Pricing

Prices charged by Fairbank Equipment Inc., are dealer net or as otherwise indicated. Fairbank Equipment Inc., reserves the right to make changes in prices without notice and without liability therefor. Orders will be processed, unless noted to the contrary, at prices effective at the date of shipment.

Minimum Billing

Our minimum billing per invoice is \$5.00.

Freight

All shipments from each Fairbank Equipment location is F.O.B. Fairbank Equipment Inc. Freight will be charged from that location unless otherwise specified in writing.

Your order left Fairbank in good condition. Please carefully inspect it upon arrival. If the shipment is damaged, opened or short, note it on the bill-of-lading. Do not dispose of the cartons of packing. Do not return the merchandise to us. Contact the delivering carrier.

Service Policy

The person or organization (herein called the customer) purchasing the unit from Fairbank Equipment Inc., will be responsible for the unit being installed properly in accordance with the manufacturer or Fairbank Equipment Inc., instructions.

Warranty

New equipment and parts furnished to Fairbank Equipment Inc., by the manufacturer for resale by Fairbank Equipment Inc., are subject to the warranty program of that manufacturer. Warranty claims will be processed by Fairbank Equipment Inc., under each supplier’s warranty policy when the goods are returned to Fairbank Equipment Inc. No Other Claims To Warranty Will Be Accepted. Goods returned to Fairbank Equipment Inc., for warranty processing will be returned freight prepaid.

NOTE: We have removed the prices in this catalog since they are outdated as soon as the catalog is printed. For current pricing please log onto our website at: www.fairbankequipment.com

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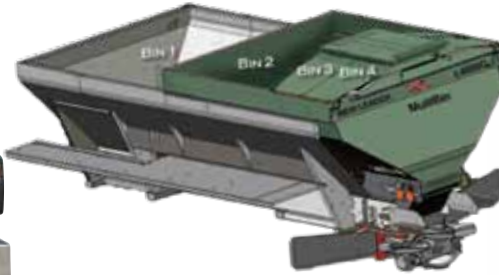
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QuickDraw
SPRAY TENDER SYSTEM
MAX



NB Neville
Built



NEW LEADER
PRECISION APPLICATION EQUIPMENT

Ace Roto-Mold
A DIVISION OF DEN HARTOG INDUSTRIES, INC.



NC NEWTON
CROUCH



AGRI-COVER
Pool Tarp Systems



**WACKER
NEUSON**
all it takes!



DUO LIFT



MEI MURRAY
EQUIPMENT
INC.



R&R
Manufacturing, Inc.

EQUIPMENT



Brehmer

FERTILIZER TENDER BOXES

TRUCK OR TRAILER MOUNT

SIDE OR OVERHEAD DISCHARGE

SIDE DISCHARGE TENDERS



At Brehmer, we're proud to be a partner to the agriculture industry. We know the importance of correct fertilizer application and the roll it plays in your operation. That's why we build with quality materials and implement time and cost-saving features. We build each tender box to suite your needs by asking the right questions at the start of a project.

SIDE DISCHARGE TENDER

FEATURES:

Self-Locking Hydraulic Discharge Auger

OPTIONS:

Split Bins
 Diesel/Propane/Gas Engines or Wet Kit Available
 Stainless Steel Fenders

COLOR OPTIONS:



TRUCK MOUNT



18' Side Discharge Truck Mount shown in Brehmer Red

TENDER SIZE	16'	18'	20'	24'
Travel Height	7'2"			
Auger Length	16'7"			
Discharge Height - MIN	7'1"			
Discharge Height - MAX	14'2"			
Auger Reach - SIDE	13'4"			
Standard Cubic Feet	569	663	711	854
6" Taller Cubic Feet	633	735	791	950

Discharge height is measured from the top of the existing truck frame.

TRAILER MOUNT



24' Side Discharge Mounted on a 45' Trailer Mount shown in Brehmer Red

TENDER SIZE	20'	24'	28'	32'
Travel Height	10'8"			
Auger Length	16'7"			
Discharge Height - MIN	10'7"			
Discharge Height - MAX	17'8"			
Auger Reach - SIDE	13'4"			
Standard Cubic Feet	711	854	996	1138
6" Taller Cubic Feet	791	950	1107	1265

Discharge height is measured from the top of the existing trailer frame.

OVERHEAD DISCHARGE TENDERS

All Brehmer Fertilizer Tenders are built with:

EZ Slide Gate System

- Run gates full-open without clogging

LOW Center of Gravity

- Unique to Brehmer Tenders
- Increases safety, decreases turnovers

304 Stainless Steel Bin Construction and Auger Flighting

Filled-In Tarp Bow System

Individual Hopper Ladders

Reinforced Corner Gussets

Unloading Capacity of 3500-4000 lbs/min

Grease Banks

Unique Bearing Design

2" Clean-Outs

OVERHEAD DISCHARGE TENDER

FEATURES:

Overhead Orbital Motor

*Available on 20', 24', 28' and 32' trailer mounts only**

270° Rotation Auger System

10" Belly, 13" Vertical, 10" Discharge

OPTIONS:

Split Bins

Diesel/Propane/Gas Engines or Wet Kit Available

Stainless Steel Fenders

COLOR OPTIONS:



Stainless Steel



Tender Gray



Brehmer Red



TRUCK MOUNT



18' Overhead Discharge Truck Mount shown in Stainless Steel

TENDER SIZE	16'	18'	20'	24'
Travel Height	8'10"			
Auger Length	16'10"			
Discharge Height - MIN	7'2"			
Discharge Height - MAX	17'8"			
Auger Reach - SIDE	13'7"			
Auger Reach - REAR	14'7"			
Standard Cubic Feet	569	663	711	854
6" Taller Cubic Feet	633	735	791	950

Discharge height is measured from the top of the existing truck frame.

TRAILER MOUNT



24' Overhead Discharge Mounted on a 45' Trailer Mount shown in Tender Gray

TENDER SIZE	20'	24'	28'	32'
Travel Height	12'4"			
Auger Length	16'10"			
Discharge Height - MIN	10'8"			
Discharge Height - MAX	21'3"			
Auger Reach - SIDE	13'8"			
Auger Reach - REAR	14'7"			
Standard Cubic Feet	711	854	996	1138
6" Taller Cubic Feet	791	950	1107	1265

Discharge height is measured from the top of the existing trailer frame.

FIELD LOADER



FL1024

Featuring 304 stainless steel undercarriage and framework, this field loader boasts a drive wheel with power steering.

- 20 HP Honda engine, electric start
- 24" wide crescent top belt with stainless steel lacing
- 30° Incline
- 1" bearings
- 13' 3" discharge height
- Direct hydraulic driven crowned and lagged drive pulley
- Self-aligning belt-tightening system (Patent Pending)
- 304 stainless steel undercarriage and framework
- Hydraulic driven and steerable drive wheel
- 205/75R 15" tires
- Variable belt speed
- Low profile 10" horizontal hopper
- 25'6" incline
- 4' folding hopper
- Adjustable discharge chute
- Tow hitch with 1" clevis and safety chains
- 8 gallon gas tank

OPTIONS:

- Stainless steel weather covers
- Enclosed discharge spout



FL1030

Ruggedly designed to work in any environment, the FL1030 Field Loader from Brehmer Mfg. is designed to handle your ag lime and fertilizer loading needs.

- Wireless remote RPM and belt on/off
- Start/stop with a fully loaded belt
- Duetz 2.9L engine, electric start
- 30" wide belt
- 25° Incline
- 2" bearings
- Direct hydraulic driven crowned drive pulley
- Self-aligning belt-tightening system (Patent Pending)
- Variable belt speed
- 10' hopper
- 13' 11" discharge height
- 12' 6" roller height
- Tow hitch with 1" clevis and safety chains (Pintle hitch, optional)
- Wireless remote hydraulic powered raise/lower hitch
- 38" max hitch height
- 44' 2" overall length
- 13' 2" travel height
- Brake and turn lights, 7 way RV plug
- 255/70 R22.5 tires
- 7,100 lbs total wt. (1,060 lbs tongue wt.)
- 30 gallon fuel tank
- 34 gallon hydraulic reservoir



HIGH CLEARANCE ADJUSTABLE AXLES SPREADER

NEWTON CROUCH



High Clearance
42" at Bumper



**NEWTON
CROUCH**

Model 40 - High Clearance Adjustable Axle Fertilizer and Lime Spreader

With adjustable axles for a variety of wheel centers and high ground clearance, the Newton Crouch Model 40 is a leading spreader in the industry. This versatile spreader can be tailor built for optimal performance - choose the drive system, wheel centers, and other features you need so that you can feel confident that your spreader will add value to your operation for years to come.

TRAILER

- 4" x 6" Tube Frame Trailer
- Powder Coated Paint
- Herculiner Coating; Top of Trailer
- Hitch: Category 4 Clevis/ Pintel
- Tucked-In Axles
- Tires: 380/ 90 R-1
- Wheel Centers: Adjustable
- Bumper at 42"

HOPPER

- Capacity: 8-Tons (242 ft³)
- 304 Stainless Steel Hull, Gate, Floor
- Heavy Duty 10 Gauge Hopper Side Panels
- Bolt On Hull to Trailer
- Full Length Tubing, Stainless
- Chain: 24" Stainless Conveyor
- Stainless Inverted Vee
- Heavy Duty Stainless Motor Mount
- Heavy Duty Baffle Plate



Adjustable Wheel
Spacing

DELIVERY SYSTEM

- Tractor Hydraulic 4-Hose System
- Stainless Case Drain
- Hydraulic Valve with Built in Relief
- Chute: Adjustable, Stainless
- Heavy Duty Spinner Motors
- Heavy Duty 24" Dishes and Blades
- Fan Speed Sensor

OPTIONS

- Tires: 480 or 520 R-1
- Safety Chains
- XRT: Up to 80 Foot Spread Pattern
- Scales
- Reinforced 24" Stainless Conveyor
- Split Chain Conveyor
- Lights
- Tarp: Fitted or Side-To-Side with End Caps
- Window

DRIVE TYPES

- All Hydraulic
- Variable Rate
- ISO Ready

See features of
Newton Crouch's
High Clearance Spreader.



NC SERIES PULL TYPE SPREADER FEATURES

NEWTON CROUCH



Many Enhancements Available - Call to Learn More



Optional Stainless Steel Enclosures and Bearings for Spinner Shafts



Powder-Coated Frame with Stainless PTO Stand



**50 Foot Spread Pattern
Lower Cost Per Acre
Standard on all NC Series Spreaders**



Truss Tarp Bow in Stainless for Fitted Tarp Option



Optional Hydraulic Engagement



Side to Side Tarp with Ridge Pole and End Caps

**Self Contained Hydraulics
Driven by Tractor PTO**



Model NC1500 - Fertilizer Spreader, Single axle

304 stainless hull, 7" stainless steel web chain, 540 PTO spinner drive, manual wheel engagement, stainless steel dishes and blades, trailer frame-tubing, powder coat paint, color blue, one safety chain, 11L tires, 62" wheel center, category 3 hitch, 50 ft swath, 1.5 ton

Model NC2000 - 2 Ton, 77" wheel center, (not shown)

Model NC3000 - 3 Ton, 77" wheel center (not shown)


Model NC5000 - Fertilizer Spreader, Tandem Axle

Bolt-on 304 stainless hull, 7" stainless web chain, 540 PTO spinner drive, manual wheel engagement, stainless steel dishes and blades, trailer frame-tubing, powder coat paint, color blue, two safety chains, 11L tires, 77" wheel centers, category 3 hitch, 50 ft swath, 5 ton

Model NC5000N - 62" wheel center (not shown)


Model NC6000 - Fertilizer Spreader, Tandem Axle

Bolt-on 304 stainless hull, 7" stainless web chain, 540 PTO spinner drive, manual wheel engagement, stainless steel dishes and blades, trailer frame-tubing, powder coat paint, color blue, two safety chains, 16.5L tires, 80" wheel centers, category 3 hitch, 50 ft swath, 6 ton, fitted tarp with bow

Model NC6000N - 61.5" wheel centers (not shown)


Model NC8000 - Fertilizer Spreader, Tandem Axle

Bolt-on 304 stainless hull, 7" stainless web chain, 540 PTO spinner drive, manual wheel engagement, stainless steel dishes and blades, trailer frame-tubing, powder coat paint, color blue, two safety chains, 19L tires, 82.5" wheel centers, category 3 hitch, single axle hydraulic surge brakes, 50 ft swath, 8 ton


Many Enhancements Available
All Hydraulic Standard or Fertilizer Spreader

For various controller units - standard or variable rate, spinners operated by tractor four hose closed valve for hydraulic driven spinners and conveyor.

ISO and Rate Control Module Available

Enhancements for NC Series:

- Bander
- Diverter with flaps and replaceable insert
- Spinner shafts in stainless enclosure with stainless bearings
- Tarp: side to side with ridgeline and end caps; fitted tarp with truss tarp bow
- Hydraulic engagement
- Scales
- Various wheel centers
- Lights and slow moving decal
- Window



Bolt On Hull allows for easy maintenance and increases the service life of the spreader trailer.

Bolt On Hull is standard on NC 5000, NC 6000 and NC 8000. Bolt on not available on smaller units.

AUTOMATON AND FERTILIZER PLANT DEPOT SETUP

Fertilizer Depot Automation Video

Pictures below and on the next page come from a video that Fairbank Equipment has put together on a recent automation fertilizer plant. Kelly Stucky with Fairbank Equipment has coordinated the implementation of automation equipment on multiple jobs across Kansas. Call Kelly for more information on setting up your location with automation.



Kelly Stucky
Automation Depot Lead
 Phone: 316-772-8400
kellys@fairbankequipment.com



Fairbank EQUIPMENT

CALL FOR MORE INFORMATION ON SETTING UP YOUR AUTOMATED FERTILIZER PLANT



This QR Code is a Link to a Video of an Automation Depot Setup.



AUTOMATON AND FERTILIZER PLANT DEPOT SETUP

DEPOT & AUTOMATION



Fairbank Equipment's successful partnership with the industry leader in plant automation equipment.



Murray Equipment Liquid Fertilizer/Chemical Loadout Skids

Quickly automate your liquid fertilizer and chemical loadout procedures. These pre-assembled skids save you installation time and money, allowing you to start reaping the benefits of automation right away.



FEATURES

- Control up to 10 fertilizers or micronutrients
- Standard 250 GPM stainless steel pump
- Weights-and-Measures approved 2" stainless steel mass flow meter
- Multiple loading point options with auto and manual operation
- Filtered loadout line
- Preset loadout values
- Sequential product delivery
- Automatic compensation overrun
- Timed air purge
- Load transaction ticket printing
- Compatible with: MEI Interface, 3rd party software.

Dimensions: 54" Width x 144" Length x 5' Height

Options: 350 GPM pump/3" mass flow meter; 450 GPM pump/3" mass flow meter; 650 GPM pump/4" mass flow meter

(Call For Details & Current Pricing)

"Easily transfer fertilizer and value-added products from storage tanks into cage tanks, nurse tanks, and tractor trailers."



MEI ICS SERIES LOADOUT CONTROLS

Automate the blending and loadout of your liquid fertilizer and crop chemicals with these user-friendly, yet sophisticated control systems. Improve your efficiency and raise the quality of your finished products with MEI Integrated Control Systems (ICS) series controls. Engineered to operate as stand-alone units or in conjunction with other MEI automation products, the ICS series allows you to take advantage of the latest field technology. These control systems are field-tested and operator-approved for ease-of-use and reliability.



ICS PRESET-1

This entry-level, stand-alone panel controls a single pump, single valve, and single meter, ensuring precision and accuracy. It allows you to preset the desired output amount and load-out the product with ease.



ICSFE PRESET-8

This mid-level batch control panel can load out and meter up to 8 accurately through individual or common meters using individual or common pumps.



ICSFE 120

The ICS 120 is an all-in-one PLC-based control panel with built-in color touchscreen monitor. It is capable of metering up to 12 products simultaneously or sequentially.



ICS 24-7-8

- Up to 20 configurable products
- Up to 2 points of load out simultaneously
- 12 flow meter inputs (4 high speed and 8 standard inputs)
- 8 Configurable outputs
- 15" sunlight readable industrial touchscreen monitor (1500 NIT)
- Detailed transaction reporting
- Multiple bill of lading formats to satisfy local regulations
- Digital bill of ladings (PDF)
- System notification emails (Digital BOL)
- FTP/SFTP server for integration into various enterprise software
- Systems can support multiple office system (and vice versa)
- Unlimited product owners with segregated tracking
- Unlimited customers, drivers and trucks
- Driver & truck tracking
- Remote control from office and other digital devices for truck driver support
- Four points of authentication
- Pump protection – meter fault protection
- Industrial battery backup for date integrity and over/under voltage protection
- Internal circuit breakers and surge protection
- Manual override control switches
- Components are installed and prewired in a 30" x 24" x 12" NEMA 4x fiberglass electrical enclosure
- Level system integration for low tank level shut down in a custody transfer application
- Murray Home & Remote Software Version 7.0



UNATTENDED LOADOUT CONTROLS

Service your customers 24/7 with MEI's Unattended Loadout System, significantly reducing wait-times during busy season. This state-of-the-art NTEP-approved system controls up to 20 products and multiple loadout points simultaneously. It's field-proven and driver friendly. Equipped with security tools, home-office remote control, and manual override controls, this system is ready to handle the challenges of your business.

Unattended Loadout Options

ICS 24/7-SIGN

Electronic signature capture pad

ICS 24/7-GATE

Gate/Door opener panel

ICS 24/7-PRINT

High-capacity thermal printer

ICS 24/7-VALVE

Valve position indication panel

AUTOMATION

Bulk Chemical System

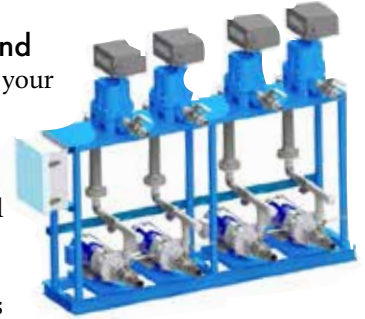
Configurable bulk storage and dispensing systems



Dry Impregnation/Chemical Dispensing System

Multi-Product Pump & Meter Stand

Need to inject multiple chemicals into your dry fertilizer blends? Or, are you a chemical dealer in need of an efficient dispensing solution? Either way, these dual-purpose multi-product pump and meter stand gives you the accuracy, precision, and speed you need to deliver and/or inject liquids. All meters are NTEP-approved for the resale of chemicals.



Valve box (as shown) is optional.



Call us for Plant Computerization

Platform Scales

4' x 4' x 2K & 4' x 4' x 5K SS Indicator & Scale Cable Set up & ready to use



Poly Premix Tanks

Used in many applications, this poly premix unit is an affordable liquid and dry chemical mixing/injection system.

- 30 gallon polyethylene tank
- MP Flowmax 5
- 2 HP single/1 phase pump
- Recirculating plumbing



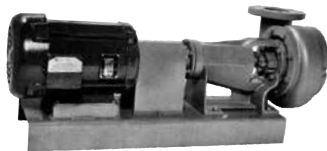
MicroMotion Mass Flow Meters

Elite Series 1" - 4" Flanged

Meter Size	Gallons/Minute
1" Mass Sensor	4-40
1½" Mass Sensor	25-250
2" Mass Sensor	30-300
3" Mass Sensor	80-840
3" Mass Sensor	120-1,200
4" Mass Sensor	120-1,240
4" Mass Sensor	144-1,400

Fertilizer Pumps

Scot and Vertiflo pumps



Chemical Pumps

Stainless Steel & Cast Iron
1½" & 2" model available



Chemical Meters

TCS 1½" up to 40GPM • FPP 1"-2" up to 60GPM



Fairbank Equipment along with Murray Equipment provide storage and dispensing systems that can be custom fit to your specific chemical and application needs. One of our experienced Sales Team members would be happy to help design the right custom application for you.



See Page L188-L189 for a complete listing of HDPE Pipe and Fittings

High Density Pipe

High Density Polyethylene (HDPE) Pipe is an exceptional piping product well-suited for a broad range of demanding applications. With its strong, butt-fused joints and long-term ductility, HDPE pipe can be installed in numerous ways. Fairbank Equipment is your distributor of HDPE piping systems, fusion equipment, and your primary resource for all of your HDPE piping needs.

FITTING TYPES:



45° Elbow



90° Elbow



Cross



Tee



Transition Fitting



Back Up Ring



Flange Adapter



Branch Saddles



Wyes-Three-Segment



Reducer

QUICK DRAW SPRAY TENDER SYSTEM

EQUIPMENT



QuickDraw LITE provides mass flow measurement of chemicals with refined features and operation. QuickDraw Lite is a manual or semi-automated spray tender system. In manual operation open a product valve, watch the display until desired chemical amount has been measured into the sprayer and close product valve. In semi-automated operation enter the desired chemical amount, press start. When the set point is reached, the product valve automatically closes.

Optional lower cost QuickDraw LITE version is available with a Gearmeter instead of a mass flow meter.

Aaron Thompson
Illinois



"With our old system we had to get on the trailer. The operator was wore out by the end of the day. With QuickDraw, he hooks up and presses the start button and 7 or 8 minutes later he is headed back to the field."



Updates and Improvements to the Popular QuickDraw Automated Spray Tender System by SurePoint Ag.

The SurePoint **QuickDraw MAX** is a fully automated spray tender system. Manually calculating product amounts are a thing of the past. Enter acres or total gallons, sprayer application rate and chemical rate per acre – QuickDraw then calculates the amount of each chemical in the batch, including manually added chemicals. Create recipes through the integrated touch screen display, or enter them at your convenience on an iPad and transfer them to the controller later through the built-in wifi connection. Recipes are saved in the controller, making batches easily repeatable

- Automatically meter 4 or 6 products (depending on model)
- Manually add up to 5 products for every batch
- Fast batch mixing keeps sprayer in the field longer during optimal spraying conditions
- Creates a log of every batch loaded. Log file is downloadable via iPad for required record keeping
- Eliminates math and calculation errors when mixing. Enter acres or total gallons, sprayer application rate and chemical rate per acre. QuickDraw calculates the amount of each chemical in the batch, including manually added chemicals.
- Micro-Motion mass flow meter for chemical measurement is 0.50% accurate. It measures liquid mass, density and volume. Measurement is not affected by product viscosity, conductivity or other characteristics; therefore no calibration numbers are necessary.
- 3" transfer pump (sold separately) for 200+ GPM water transfer after chemical mixing complete
- iPad app communicates over Wi-Fi. Create and modify recipes and access historical records



EQUIPMENT

New Features on the QuickDraw 3000

- 10" Ultra Bright Display (6 Times Brighter)
- Stainless Steel Base
- Reduced Footprint
- Product Hose Rinse Included on All Models
- Auto Calibration of Carrier Flow Meter
- Carrier Blending (4 Products) iPad App Utilized as Remote Display
- Remote Start Batch from iPad App
- Enhanced Record Keeping
- QuickDraw Cloud Enables Split Batches, Creating Recipes Remotely, Exchanging Work Orders with 3rd party Software, Creating Invoices, and More!

Steve Arnold
Kansas



"Over the years of adopting new precision technology there are lots of things I've regretted every minute I've owned them, but not the SureFire QuickDraw. It's been worth every penny we invested in it. Speed, record keeping, and not being exposed to chemicals all-day, every-day are what make it worth the money for me."

iPad App



iPad



SureFire QuickDraw
US1818



QUICKDRAW
US3000

Description:

The SureFire QuickDraw Apps works in conjunction with the QuickDraw Automated Spray Tender Systems from SureFire Ag Systems. The App allows the sprayer operator to create spray recipes and move them to the Spray Tender System via wireless connection. The App accesses spray batch logged data from the QuickDraw including volumes loaded, environment conditions, field and farm identification.

NEVILLE BUILT TRAILERS



Neville Built spray tender trailers are designed to transport everything you need to keep your sprayer working in the field longer and safer.

Fairbank Equipment can custom design your Neville Built trailer with a QuickDraw Automated Spray Tender System exactly how you'd like it. We have designed and built many of these custom systems.



Standard Features:

- Standard lengths of 40' or 42' (custom lengths available)
- 42' has a 15' long x 102" wide working deck space
- Tandem axle configurations in spring or air-ride
- New 25,000# rated axles (16-1/2" x 7" brake)
- Hutchens spring suspension with heavy duty springs
- 1 1/8" apitong wood floor (on working deck)
- PPG epoxy primer and black polyurethane paint
- Grote Industries, LLC sealed wiring system with rubber mounted LED lights
- Just 2-speed H.D. landing legs
- Aluminum front fenders and poly rear fenders

Optional Features

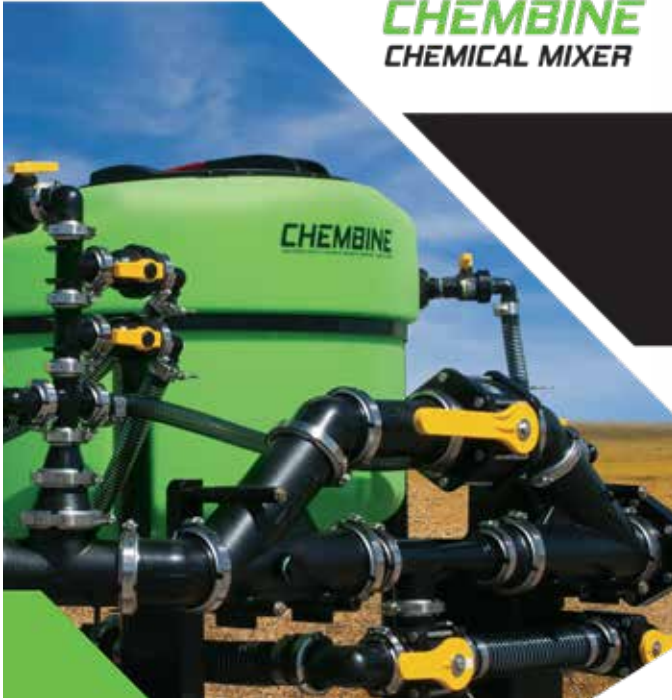
- Spread axle or tri-axle available
- Ridewell air ride optional with suspension
- 3,210 gal. 100% drainable tank with sight tube
- Aluminum ladders for tank access



Neville Built sprayer trailers are designed to transport your sprayers safely and quickly. We offer rigid or expandable trailers up to 12 ft wide in either fifth wheel or pintle hitch styles. A variety of tire and wheel combinations are available, as well as spring or air-ride suspensions. Available for all types of row crop sprayers including: Willmar, Spray Coupe, RoGator, Case IH and John Deere.



**CHEMBINE
CHEMICAL MIXER**



SAVING TIME & EFFORT!



Shown with Expansion Kit: Adds 3 x 1" tote lines and a 1" magnetic banjo flow meter

Part#	Description
26003-83	75 Gallon Tank 2" Plumbing
26002-42	75 Gallon Tank 3" Plumbing

- More Information and Videos at fairbankequipment.com -

CHEMBINE Chemical Mixer

This new product by Free Form Plastics, with several Patent Pending designs, is a cutting-edge way of mixing and blending chemicals for your agricultural needs. The CHEMBINE incorporates all the features of a typical chemical mixer plus adds some user-friendly features while dramatically improving many areas. Visit this product on our website to see videos and more information.

Features:

- 2 x Agitator Jets
- 4 x Vertical Ribs
- 1 x Rotary Rinse Nozzle
- 1 x 2" Tote Connection
- Knife Block
- Secure Hinged Lid
- Frame legs drilled for mounting

PLUMBING

*Available in two sizes:
New 2 inch and 3 Inch.*



KNIFE BLOCK

Design provides a more efficiently shaped cut requiring less effort, faster & more complete drainage/rinsing as well as easier removal of the jugs.



Banjo Manifold Inductor Assembly

Draws wettable powders from inductor tank for chemical mixing. Installed after pump, suction completely empties inductor tank. This system keeps tank free of chemicals and can be installed with inductor tanks upon request.



Part#	Discription
MIS220HBA	2" Manifold Inductor System
MIS300A	3" Manifold Inductor System
HV200	2" MPT Venturi
MHV200	2" Manifold Venturi w/1-1/2" port
MHV220A	2" Full Port Manifold Venturi



HV200

MHV220A

THE PACKHORSE

(Black tanks available)

**QUALITY
DUO LIFT[®]
TRAILERS**

Packhorse

The “Packhorse” is a versatile implement when used as a “nurse” unit to keep the applicator in the field. The “Packhorse” can be towed from field to field providing the “storage” for the liquids being applied to the farmers field.

The entire frame lowers to the ground level for filling and liquid withdrawal. The “Packhorse” raises up to transport position for road travel. This is accomplished by actuating the rockshaft on the manual hydraulic system. The trailer shall not be raised or transported unless the tanks are empty.

Specifications

- Overall width: 91"
- Overall length: 22"
- Overall height (transport mode): 13' 6"
- 6" Channel frame
- Safety chains
- Choice of 2" ball or clevis hitch
- Two fully supported 3,000 gallon 15° cone bottom tanks
- 9.5L x 15 tires mounted on 5,5" Implement wheels
- Lights include turn lights, brake lights and tail lights. Automotive type with 7 way RV Blade plug.
- Full flow plumbing with full port valves and hose
- Primed and painted with rust resistant paint to produce an eye appealing color design
- Piping to permit filling and liquid withdrawal from a single or both tanks simultaneously



1,000 Gallon Liquid Nurse Unit

Fairbank Equipment nurse units are as rugged as they are good looking. If you want the best in the business at a competitive price then give us a call.

- Available in 1,000 and 1,250 gallon standard and center slope sump units
- Underslung Slipper Spring Suspension
- 4,000# Capacity each spring
- 12" x 12" Rear Fill Step
- Snyder or Ace Tanks
- 6 Bolt Hubs & Wheels
- Hose Storage Hooks
- Several Tire Options

OPTIONS:

- Strainer
- Lights
- Fenders
- Front Platform
- Recirculation

FEATURES

- 11L x 15 tires
- Choice of Banjo cast iron or Poly Pump
- Hose rack & adjustable hitch
- Sump tank
- Duo-Lift 14,000 GVW tandem axle trailer
- DOT Safety chains
- 1,000 gallon Snyder or Ace Tank
- Hose end valve
- Fully assembled and field ready
- 15 ft discharge hose
- Available with standard Briggs or optional Honda Engine



Trailer w/1,000 gallon
Leg Tank V-Bottom
Nurse Unit

QUALITY
DUO LIFT[®]
TRAILERS

The Chuckwagon

It is designed to increase the time you can keep your applicator in the field. This new implement hauls more product! The compact, heavy duty frame design allows you to quickly maneuver in tighter spots to help keep your field applicator spraying acres. The vertical cone bottom design allows better product agitation, faster discharge and complete drainage to create increased production. So, call Fairbank Equipment or your area representative for the latest information.

FEATURES:

- Overall width: 95"
- Overall length: 175"
- Overall height: 102"
- 6" Channel frame
- Full flow plumbing with full port valves and hose
- Safety chains
- Primed and painted with rust resistant paint to produce an attractive color combination
- Choice of 2" ball or clevis hitch
- One fully supported 1,200 gallon 15° cone bottom tank
- 235/80 R16 road trailer tires

OPTIONS:

- Hose stand
- Cast iron or poly pump
- Briggs & Stratton or Honda Engines
- Lights include turn lights, brake lights and tail lights Automotive type without front connector.



(Black tanks available)

BESTWAY SPRAYER



BestWay Field-Pro IV Sprayers

FIELD-PRO IV - 1000

1000 Gallon - 60' or 80' Fiberworks Boom
Adjustable Axles: 80" - 120" or 112"-152"
50 Gallon Rinse System *Hypro Clean Load Chemical Inductor

FIELD-PRO IV - 1200

1200 Gallon - 90' or 100' Fiberworks Boom
Adjustable Axles: 80" - 120" or 112" - 152"
100 Gallon Rinse System *Hypro Clean Load Chemical Inductor

FIELD-PRO IV - 1600

1600 Gallon - 90' or 100' Fiberworks Boom
Adjustable Axles: 88" - 132" or 100" - 144"
100 Gallon Rinse System *Hypro Clean Load Chemical Inductor

FIELD-PRO IV - 1850

1850 Gallon - 90' or 100' Fiberworks Boom
Adjustable Axles: 88" - 132" or 100" - 144"
100 Gallon Rinse System *Hypro Clean Load Chemical Inductor



Fiberworks Boom (Exclusive Composite Material)

Fiberworks Booms are constructed of exclusive composite material that features superior strength and flexibility top traditional steel tubing. FiberWorks is a lightweight, high impact material that has been field proven over millions of acres. Simply put...FiberWorks is far superior to any boom system on the market today.

Bestway V-Ride™

V-Ride™ effectively isolates trailer movement from the boom, resulting in significant performance enhancements which include: increased field speeds of 2-6 mph resulting in up to 25% increased productivity, reduced fuel costs and improved spray pattern control for optimized application accuracy.

The V-Ride™ system is especially accomplished simple by turning a knob on the suspension control valve located on the sprayer, to "DIAL IN" the preferred boom ride.



V-Ride™

Clean Load Inductor



AUTOGLIDEXR

Bestway AutoGlideXR™

AutoGlideXR™ uses rugged, long-range ultrasonic sensors mounted on the spray boom to continually monitor and maintain the height of the booms above the ground or crop canopy. That means more consistent spray patterns, better coverage and reduced drift potential. AutoGlideXR™ uses your sprayers existing electric-over-hydraulic controls so there are no extra hydraulic components to add to your sprayer. This makes AutoGlideXR™ the simplest and easiest automatic boom height control system to install... saving you time and money. Exclusive 3-Mode Sensor Setting - function allows operator to select from: Bare Ground, Full Canopy, or Partial Canopy to tailor performance to field conditions. New longer-range sonar sensors - provide top performance in more challenging terrain. Easy to use and over-ride. - After some simple initial set up steps, turn the system on, select auto and go. When operator activates normal boom controls, AutoGlideXR™ is over-ridden. Exclusive time delay feature allows operator to pre-set timing for AutoGlideXR™ to resume automatic function. Choose from 2, 3, 4 or 5 Sensor systems.



BestWay Pro-Mount Sprayers

BestWay Ag's Pro-Mount 360 & 460 feature an industry exclusive front folding Pro-Flex™ 60' boom built from our proprietary FiberWorks™ composite material. FiberWorks is 1/3 the weight of steel, yet three times more impact resistant. Using the Fiberworks system allows BestWay Ag to produce a sprayer that provides the convenience and maneuverability of a 3-point mount unit, but with an extremely durable boom system vs conventional steel booms found on our competitors. Pro-Mount's short coupled design keeps sprayer weight close to the tractor, improving balance and lift capacity.



PRO-MOUNT 360

300 Gallons 60' Boom

PRO-MOUNT 460

400 Gallons 60' Boom

FEATURES:

- Hydraulic Front Folding 60' Pro-Flex™ FiberWorks™ Boom System with Mechanical Break-away
- Live Hydraulic Boom Controls
- 42" Vertical Height Range of Center Mast for Spraying Taller Crops
- Hypro 9303C-HM1C-BU Hydraulic Centrifugal Pump
- Chemical Inductor
- 20" Nozzle Spacing w/Single Nozzle Bodies (Nozzles Not Included)
- Three TeeJet 450 Boom Section Control Valves
- Four Integrated Parking Stands
- 2-1/2 Gallon Personal Safety Water Tank
- Powder Coated Frame for Long Lasting Finish
- SMV Signs and Lights

OPTIONS:

- 50 Gallon Rinse System w/Tank Spin Rinse Ball
- Electric Fence Row Nozzle Kit
- Pendant Grip "Live" Hydraulic Boom Control
- Third Party Rate Controller Option
- Five TeeJet 450 Boom Section Control Valves
- 72' Boom
- In Line Boom Filters, 50 Mesh
- Auxiliary Tank Connections Kit



F/S ATV SPRAYER



ATV100

- Capacity - 100 Gallons
- W x L x H - 47 3/4 x 49 x 26
- Weight (Empty/Full) - 182lbs./1,017lbs.
- Controls - Manual TeeJet Shutoff & Regulating Valves
- Motor - 4HP Honda GX120 Engine
- Pump - Ace Centrifugal Pump [57PSI-22.5GPM]

OPTIONAL EQUIPMENT

- BOOMLESS SYSTEM
- 12', 18', 20', OR 22' BOOM KIT
- ATV STAND FOR SPRAYER
- SPRAY GUN UPGRADE
- FOAM MARKER
- ALSO AVAILABLE IN 50 GALLON

CALL AND ORDER YOUR SPRAYER EXACTLY FOR YOUR NEEDS.

LOW PROFILE TANK

Tru-Kleen Low Profile tank maximizes your liquid carrying capacity while minimizing problems linked to high center of gravity conditions.

SPOT SPRAYING

Spray Wand & Hose Reel with 50 ft of 3/8" hose come standard so you can spot spray when or where boom spraying is not an option.

QUALITY PARTS

All F/S Sprayers are built using durable, commercial quality, Made in the U.S.A fittings and valves.

ADJUSTABLE BOOM

The heavy duty adjustable boom mounting system allows you to set the right nozzle height for any application.





SUPER REEL

- Heavy Duty Construction
- 12V Motor with Hand Control
- Manual Clutch Lockout for Easy Pull-Out
- Manual Crank Handle Included
- Guide Tubes for Easy Retrieval
- 2-Way Wireless and Manual Switches
- Stainless Steel Swivel
- Remote Controller
- Chain Guard
- Durable Powder Coat Finish
- NEW Side Rollers

F/S SUPER REEL

Part#	Description
HRE100SS	1" Electric Hose Reel - SS Swivel
HR200SS	2" Manual Hose Reel - SS Swivel
HRE200SS	2" Electric Hose Reel - SS Swivel
HRE300SS	3" Electric Hose Reel - SS Swivel

*STAINLESS STEEL SWIVEL
NOW STANDARD ON ALL
SUPER REELS*

Measurements

Part#	Dimension	Weight	Hose Capacity
HRE100SS	22"L x 29"W* x 22"H	132 lbs	500'(1/2" Yellow Ag Hose) or 100' of 1" Bumblebee
HR/HRE200SS	30"L x 31"W* x 27"H	150 lbs	75' of 2" Bumblebee
HRE300SS	41"L x 31"W* x 39"H	255 lbs	75' of 3" Bumblebee



Repair Parts

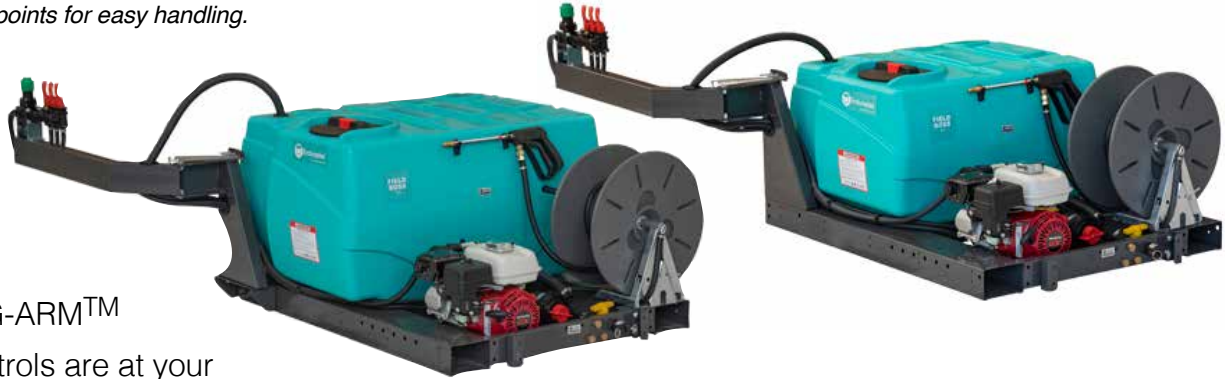
Part#	Description
CHR1093	Electric Motor
HR11	Wired Control Remote
CHR1088-B	11" Manual Crank Handle
CHR1115-B	9" Manual Crank Handle
CHR1089	2" Stainless Steel Swivel
CHR1092	3" Stainless Steel Swivel
CHR1191	Repair Kit for Hand Crank Shaft
CHR1123	2" O-Ring
CHR1124	3" O-Ring
CHR1099-01-B	Wireless Remote with Bracket

ENDURAPLAS UTV SPRAYER

Field Boss® 365



This UTV sprayer was designed to combat spraying tasks year-round. Besides spring, summer and fall spraying, you can conveniently use this UTV sprayer for salt brine deicing all winter. Because of its high-volume pump, boom spraying is an easy job for this sprayer. It also includes built-in forkable points for easy handling.



SWING-ARM™

All controls are at your fingertips and within reach from the UTV cab. Hoses are protected and out of sight.

SFB100FG225GH

- Size (US Gallons) - 100*
- Length - 48"*
- Width - 45"*
- Height - 27"*
- Motor Type - GX120 Honda/4 HP*
- Pump Type - Centrifugal*
- Flow Rate (GPM) - 22.5*
- Pressure (PSI) - 50*
- Hose Length - 50'*
- Spray Distance (Vertical) - 27'*
- Spray Distance (Horizontal) - 35'*
- Dry Weight (lbs) - 200*

SFB060FG225GH

- Size (US Gallons) - 60*
- Length - 48"*
- Width - 38"*
- Height - 23"*
- Motor Type - GX120 Honda/4 HP*
- Pump Type - Centrifugal*
- Flow Rate (GPM) - 22.5*
- Pressure (PSI) - 50*
- Hose Length - 50'*
- Spray Distance (Vertical) - 27'*
- Spray Distance (Horizontal) - 35'*
- Dry Weight (lbs) - 185*



Shown with 30' Boom Option



W4308C-WB



Wylie Spray Systems

These WYLIE sprayers are designed for use with ATV's or small tractors. Sized for small farms, landscapers and turf fields. Combine the versatility of a utility vehicle with the quality of the Wylie Sprayer for a spray unit ideal for turf, small trees, and small pastures.



W4310

200-3PT-27'BOOM



Call for a complete listing of all Wylie sprayers and options.



W4310



LGS-50-FB

Spray Trailer Features...

W1510R

- 1,250 gal. Full Drain Tank Combined With Wylie Hi-Speed Booms Cover The Acres Quickly
- Choose From 80', 90', 100' or 108' Spray Wyng II Boom
- Straight Tongue Design Works Great With Row Crops or Small Grains
- 100 gal. Fresh Water Tank, 15 gal. Handler Mix Tank
- Adjustable Axles From 80" - 120"
- Choose 14.9R46 Tires or Hi-Flotation "Diamond Tread" 24.5 x 32 Tires
- Loading Stand Easily Services Side Fillwell on Tank



Sponge Weed Wipers

Cost Effective Weed Control with no Drift

Call for a complete listing of all Smucker Weed Wipers and options.



Pull Type

- WWW20-P** 20ft.
- WWW30-P** 30ft.
- WWW40-P** 40ft.

ATV/Front Bucket Type

- WWTCATV15** 15ft.
- WWTCATV20** 20ft.



RW
Red Weeder
Hand Held

G&R CUSTOM SPRAYERS

LIQUID EQUIPMENT



Skid Sprayers

- Heavy duty C Channel Frame
- Chemical Resistant Polyethylene Tank
- Pump Kits Include Polypropylene Fittings
- Easy Access Tank Shut-Off & Strainer
- Rubber Mounts on Engine to Eliminate Vibration.
- Quick Coupler on Drain or Fill
- Powder Coated Paint



Three-Point Sprayers

- Heavy duty frame with category I or II hitch pins
- Many sizes available
- Completely assembled
- Wide range of pumping options
- Chemical resistant polyethylene tank
- Powder coated paint

Pump Kits Include:
Pressure Regulator, Line Strainer, 3-way Shut-Off Valve, Drain Plug, Pressure Gauge, Booster Bypass, and Agitation.



TRUCK MOUNT DE-ICER



TRUCK MOUNT 4 TANK & 4 HOSE REEL



EZ RIDER Sprayer
Available in Caldwell & Pasco Only



Boomless Nozzles



EZ RIDER Booms



UTV Sprayers



SPRAYERS



SS25TE

- 25 Gallon ATV Sprayer
- 12 Volt 2.2 GPM Pump
- 8' Wire lead with battery clips
- 30' Hose w/Hand Wand



SS25T-3N

- 25 Gallon ATV Sprayer w/Nozzle Body
- 24' spray coverage
- 12 Volt 3.5 GPM Pump
- 8' Wire lead with switch and battery clips
- 27' Hose w/Hand Gun

Custom Spot Sprayers

These spot sprayers are designed to use with ATV's or small utility vehicles.

Part#	Desc.
SS25TE	25 Gallon
SS25T-3N	25 Gallon

Fairbank Equipment Spot Sprayers



FB-25-SPRAYER

- 25 Gallon Spot Sprayer Tank
- 12 Volt, 3.5 GPM Pump
- 15' Hose w/Hand Sprayer



FB-40-SPRAYER

- 40 Gallon Sprayer
- 12 Volt, 5.3 GPM, 90 PSI. Pump
- Plumbed w/Recirculation & Boom Outlet
- 20' Hose w/AA43LA-AL10 Spray Gun



LIL SPOT SPRAYERS available in Caldwell & Pasco

Part#	Desc.
LIL SPOT 1	15 Gallon
LIL SPOT III	25 Gallon
LIL SPOT IV	40 Gallon
LIL SPOT V	60 Gallon

Options:

- 1.8 - 5.0 GPM PUMP
- w/Agitation

Hudson NeverPump® Bak-Pak® Sprayer

Sprays for 10 hours on a single battery charge.

- 72" PVC power sprayer-style hose
- Includes AC charger, completely charges battery in 9 hours
- Extra long 20" poly spray wand
- Extra large fill opening prevents spills when adding chemical
- Includes 4 different nozzles
- Chemical-resistant straps with adjustable pads

Part#	Description
13854	4 Gallons / 15 Liter



FIELD KING® Professional No Leak Pump Backpack Sprayer

- Internal No Leak Pump design is safer to use - chemicals will not drip down your back.
- Durable, 21 inch poly wand with the highest quality Viton® seals for chemical resistance.
- 4 nozzles included: brass adjustable, 2 flat fans, and foaming nozzle. Also accepts TeeJet® nozzles. • Viton® seals

Part#	Description
FKD-4	4 Gallons



Premier Stainless Steel Sprayer

- Brass extension
- Funnel top to help with filling or pouring
- Lock-On feature
- Brass spray handle, wand and nozzle
- Viton® seals

Part#	Description
1253	2 Gallons



Premier Steel Sprayer

- TriPoxy coated metal tank
- Anti-clog filter
- 12" brass wand, adjustable nozzle
- Funnel top for easy filling

Part#	Description
1180	1 Gallon



ProSeries Backpack Sprayer

- 3 stage filtration system
- Wide opening with strainer/filter basket
- Padded shoulder straps
- 3 pc nozzle pack (fan, cone, adjustable brass)
- Piston pump

Part#	Description
61800	4 Gallons



PROPACK[™] SHURflo SRS-600

Rechargeable Battery Powered Backpack Sprayer - 12V

Description

The SHURflo SRS-600 offers breakthrough performance, convenience, versatility and comfort in a backpack sprayer. ProPack eliminates the need for the operator to continually pump up the sprayer to maintain a constant and steady spray pattern as with manually-powered sprayers, making spraying faster and easier than ever. The ProPack's microprocessor control allows the operator to select one of four pump speeds, that when used in conjunction with the included adjustable cone nozzle can deliver a delicate mist, high volume spray, or long-range stream to meet any spraying need. The unique battery pack is easily removed without the use of tools for remote charging. The lightweight ergonomically designed tank, full breathable back pad, thick resilient shoulder pads, and waist belt make the ProPack comfortable even with a full load.

Features:

- Sprays up to 120 gallons (454 Liters) on a single charge
- High performance, chemical-resistant SHURflo pump
- Advanced microprocessor pump control
- Variable speed and adjustable nozzle for light or heavy duty spraying
- Ultra comfortable ergonomic design, full back pad, and thickly padded shoulder harness
- Sprays up to 120 gallons on a single charge
- Has a 1-piece wand, molded battery cover for better protection, and a better shield on the battery
- Teejet all Polypro spray wand
- Variable speed and adjustable nozzle for light or heavy duty spraying
- Splash-proof battery pack and power plug
- High capacity charger



Rechargeable Battery Powered Backpack Sprayer

The PJB-16 and PJB-20 are the worlds most advanced battery powered backpack sprayers. With almost four years of development by Jacto, these ergonomically designed and lightweight sprayers are a marvel of engineering. The 4 gallon PJB-16 and the 5 gallon PJB-20 are the right sprayers for the end user who needs accuracy and efficiency for the on target delivery of their spray solution. With such features as, hydraulic agitation, multiple pressure settings, a walking pace (speed) indicator and built in self diagnostics, the PJB16 or PJB-20 is the right sprayer for everyone... from the Market Farmer, Commercial Greenhouse Grower to busy Landscape Professional. These models are equipped with an easy to change rechargeable lithium-ion battery. Depending on flow rates and pressures, typical battery run times per charge average about 8 hours and go as high as 12+ hours. The PJB-16 and PJB-20 are capable of spraying horizontally up to 30 feet and heights up to 25 feet with a stream pattern on the high pressure setting.



HD400

Our very durable HD400 is extremely popular with landscape professionals and organic farmers. The 4-gallon (16-liter) HD400 has an internal mechanical agitator that does an excellent job of keeping powdered chemicals such as kaolin clay organic insecticides in suspension, as well as liquid chemical additives. The HD400 was independently tested for more than 1,500 continuous hours of operation with no breakdowns and the Jacto HD400 is easily converted for either right-hand or left-hand operation. Plus it only takes 6 handle pumps to achieve 45 psi, reducing operator fatigue. The HD400 has a convenient carry handle built into the top of the tank, a handle lock and spray lance lock to make it easy to transport from job to job. We are pleased to offer you two color combinations for the HD400. The white/orange option is equipped with a Viton® piston cup, a choice for users who will spray caustic chemicals. Our HD400 blue features a piston cup made from Santoprene®, which offers a longer wear life than the Viton® option.



CD400

Jacto's 4-gallon (16-liter) CD400 has long been a popular choice among farmers, landscapers, construction crews and others who need extreme toughness and maximum resistance to abusive chemicals, especially those that have an EPA approved petroleum derived added. Very popular for use when spraying tumbleweeds and sagebrush type material or heavy duty weed/brush killers. The CD400 has a heavy duty internal brass piston pump with dual Viton piston cups and mechanical agitation, very accurate tank measurements and can be configured for right or left hand operation. The CD400 was performance testing exceeded 2500 hours of continuous operation without breakdown. Plus it only takes 8 handle pumps to achieve 45 psi, reducing operator fatigue.



PROFESSIONAL GRADE. TRIPLE TEST INSPECTED. MADE IN THE USA.
Rugged SOLO® backpack sprayers are flexible and ergonomically designed for virtually any spraying task both large and small.

BACKPACK SPRAYERS

LIQUID EQUIPMENT

PISTON PUMP FOR LIQUID FORMULATIONS.

Built for comfort. Built for convenience. Built to last. SOLO's ergonomic design contours to your back for greater comfort. With a proven piston pump, you will be reliably equipped for applying spray liquid or insecticides in your garden. A low number of wearing parts and sturdy technology ensure a long service life and minimum maintenance. The large filling aperture for convenient filling of the tank and smooth-running pump make spraying pleasant work.

The SOLO® 425, with a connecting rod-actuated piston pump, can produce a wide pressure range of up to 90 psi and is capable of performing virtually every spraying task. Easily and effectively handles liquid disinfectants, fertilizers, herbicides, pesticides and formulations for tree, shrub and plant protection.

HIGHLIGHTED FEATURES

- The number one choice of landscapers in the USA.
- Designed with professional features throughout.
- High-performance piston pump for increased pressure capabilities.
- Rugged metal frame for stability when filling.
- Extra-large tank openings for easier filling and cleaning.
- 28" unbreakable wand and shut-off valve for excellent reach.
- Commercial shut-off valve with lock-on/lock-off feature to minimize user fatigue.
- Viton seals® in key locations ensure long service and durability.
- Interchangeable pump handle for left or right-hand operation.
- 48" nylon-reinforced high-pressure hose for extended reach.
- Double filtration system: filter basket and nozzle filter.
- Four-nozzle assortment for multiple spraying tasks: plastic adjustable, fan spray, hollow cone, and jet stream nozzles. TeeJet® compatible.



475

425



415

418

419

420

430

456

Other
SOLO
Models
Available
Upon
Request

Part#	Capacity	Wand	Hose	Pump	Cubic Ft.	Weight
415	1 Liter	N/A	N/A	Piston	2.01	.75 lbs
418	1 Liter	N/A	N/A	Piston	4.07	1.2 lbs
419	2 Liter	7" Metal	N/A	Piston	4.19	1.5 lbs
420	2 Liter	12"-24" adjustable	N/A	Piston	4.19	1.5 lbs
430-1G	1.5 Gallon	20"	48"	Piston	.89	3 lbs
430-2G	2 Gallon	20"	48"	Piston	.89	4 lbs
430-3G	3 Gallon	20"	48"	Piston	.95	5 lbs
456	2.25 Gallon	20"	48"	Piston	1.3	6 lbs
425	4 Gallon	20"	48"	Piston	1.6	11 lbs
475	4 Gallon	20"	48"	Diaphragm	1.6	11 lbs



SOLO Chest Mount Spreader

- Fingertip levers control direction and volume.
- Comfortable cross-shoulder strap.
- Fully enclosed gearbox is corrosion resistant.
- Large opening allows easy filling and cleaning.
- 20-lb.-capacity hopper with cap protects operator from chemicals and dust.

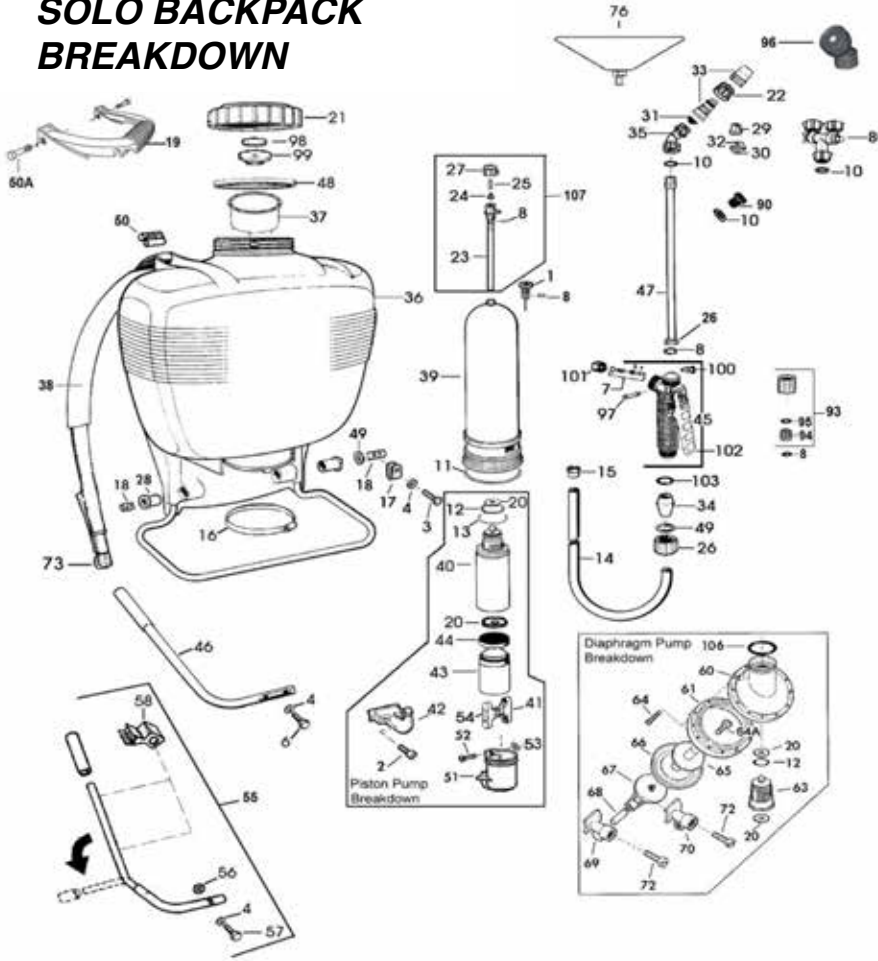
Part# Description

421-S 20 lbs.

Fairbank Equipment, Inc. | www.fairbankequipment.com

SOLO REPLACEMENT PARTS

SOLO BACKPACK BREAKDOWN



Packaged Kits Not Shown in the Parts List

Kit #	Description
0610406-K	Diaphragm pump repair kit includes: 8, 11, 12, 20 (2 ea.), 24, 25, 66, 106
0610407-K	Piston pump repair kit includes: 8, 11-13, 20 (2 ea.), 24, 25, 44
4900200-V	Piston pump repair kit (Viton®/FKM) includes: 8, 11-13, 20 (2 ea.), 24, 25, 44
0610411-K	Wand/Shut-Off Valve repair kit includes: 7, 8, 10, 22, 26, 34, 49, 101, 103
0610409-K	Piston, Rod & Collar kit includes: 2 (2ea.), 41-44, 54
4400203-P	Pump assembly (Piston) includes: 8, 11, 12, 13, 20 (2 ea.), 39, 40, 41, 42, 43, 44, 54, 107
4400221-P	Pump assembly (Diaphragm) includes: 8, 11, 12, 20 (2 ea.), 39, 60, 61, 63, 64 (12 ea.), 64A, 65, 66, 67, 106, 107

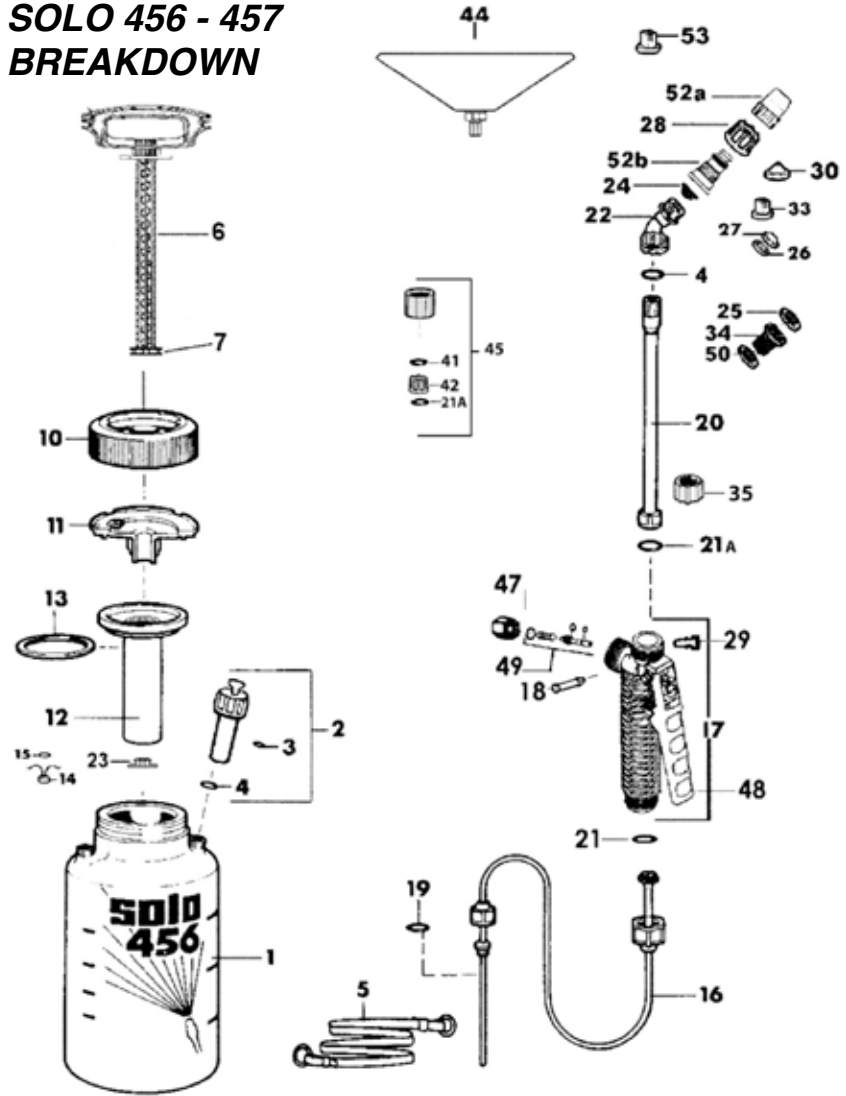
#	Part#	Description
1	42 00 215	Plug (incl. 8)
76	49 00 430	Drif guard
80	49 00 477	Double nozzle
93	49 00 622	Pressure gauge (incl. 94, 95)
94	40 74 338	Retaining nut
95	00 62 249	O- ring
96	40 74 666	Speed tip nozzle
-	49 00 421	Brass wand 20
-	49 00 528	60 Brass wand 2pc
-	00 65 210	Brass flat spray jet
-	06 10 410- P	Brass adjustable nozzle kit (incl. 22, 31)
-	49 00 513	20 plastic extension tube
-	49 00 258N	Elbow nozzle assy.(inc l.10, 22, 31, 33, 35)

#	Part#	Description
2	00 10 138	Bolt
3	00 12 185	Bolt
4	00 30 131	Washer
6	00 12 185	Bolt
7	06 10 402- K	Shut- off Valve repair kit
-	06 10 413- K	Shut- off Valve repair kit (Viton®)
8	00 62 258	O- ring
10	00 62 115	O- ring
11	00 62 291	O- ring
12	00 62 139	O- ring
13	00 62 140	O- ring
14	00 64 234	Hose 48 (incl. 26, 34, 49, 103)
15	00 66 388	Hose clamp
16	00 66 394	Pump clamp
17	40 43 123	Stop plate
18	40 35 111	Pump shaft
19	40 73 725	Carrying handle (red)
-	40 73 727	Carrying handle (black)
-	40 737 2539	Carrying handle (blue)
20	40 61257	Valve plate
21	42 00 242	Tank cap (red)(incl. 48, 98, 99)
-	40 73 181	Tank cap (blac k)(inc l. 48, 98, 99)
-	32 00 503	Tank cap (blue)(incl. 48, 98, 99)
22	40 74 148	Retaining nut
23	40 74 323	Valve body
24	40 74 350	Sealing plug
25	00 70 260	Compression spring
26	40 74 337	Retaining nut
27	40 74 344	Control knob
28	40 74 410	Bushing
29	40 74 263	Flat spray jet
30	40 74 756	Swirl plate
31	40 74 283	Jet filter
32	40 74 755	Jet cap
33	49 00 527	Plastic adjustable nozzle
-	49 00 207	Brass adjustable nozzle
34	40 74 500	Clamp
35	40 74 527	Elbow
36	42 00 162	Tank and frame, 4 gal.
-	42 00 428	Tank and frame, 5 gal.
-	42 00 421	Tank and frame, 3 gal.
37	42 00 106	Filter basket
38	43 00 315	Shoulder strap (incl. 73)
-	43 00 340	Deluxe shoulder strap (incl. 73)
-	43 00 343	Shoulder saver harness
39	44 00 240	Pressure c ylinder (incl. 107)
-	44 00 240N	Pressure c ylinder
40	40 73 190	Piston c ylinder (incl. 12, 13, 20x2)
41	40 74 409	Connecting rod without stud
42	40 74 270	Piston lever
43	40 73 558	Piston
44	44 00 189	Viton® collar
45	48 00 170	Shut- off valve
-	48 00 249	Shut- off valve (Bleach resistant)
-	38 00 502	Shut- off valve (Viton®/FKM)
46	48 00 173 25	Pump Lever
47	49 00 230	Spray tube 20, plastic (incl. 8, 26)
-	49 00 645	Stainless steel wand
48	40 61345	Gasket
-	40 61346	Gasket, Viton®
49	00 31356	Washer
50	40 74 412	Strap buckle
50A	40 74 425	Strap pin
51	40 74 680	Protective cover
52	00 10 110	Bolt
53	00 20 101	Hex. Nut
54	40 74 408	Connecting rod with stud
55	49 00 454	Fold- away pump lever (4, 56, 57, 58)
56	00 20 119	Nut
57	00 12 192	Bolt
58	40 74 996	Wand retaining clip
60	40 73 411	Housing, diaphragm
61	40 73 412	Flange, diaphragm
63	44 00 222	Valve assy. (incl. 12, 20x2)
64	00 18 275	Screw, flange
64A	00 18 275	Screw, plunger
65	40 74 256	Plunger
66	40 74 246	Diaphragm (Bleach resistant)
67	40 74 255	Diaphragm lever
68	40 31130	Wrist pin
69	40 74 243	L Left connecting brack et
70	40 74 234	R Right connecting braket
72	00 10 141	Bolt
73	40 74 837	Strap hook
90	27 00 316	No drip check valve
97	40 74 295	Pin
98	40 61464	Vent plate
99	40 74 123	Vent cap
100	40 74 329	Lock clip
101	40 74 336	Retaining nut
102	40 74 335	Shut- off valve lever
103	00 62 271	O- ring
106	00 62 324	O- ring
107	48 00 182	Pressure control valve (8, 23- 25, 27)

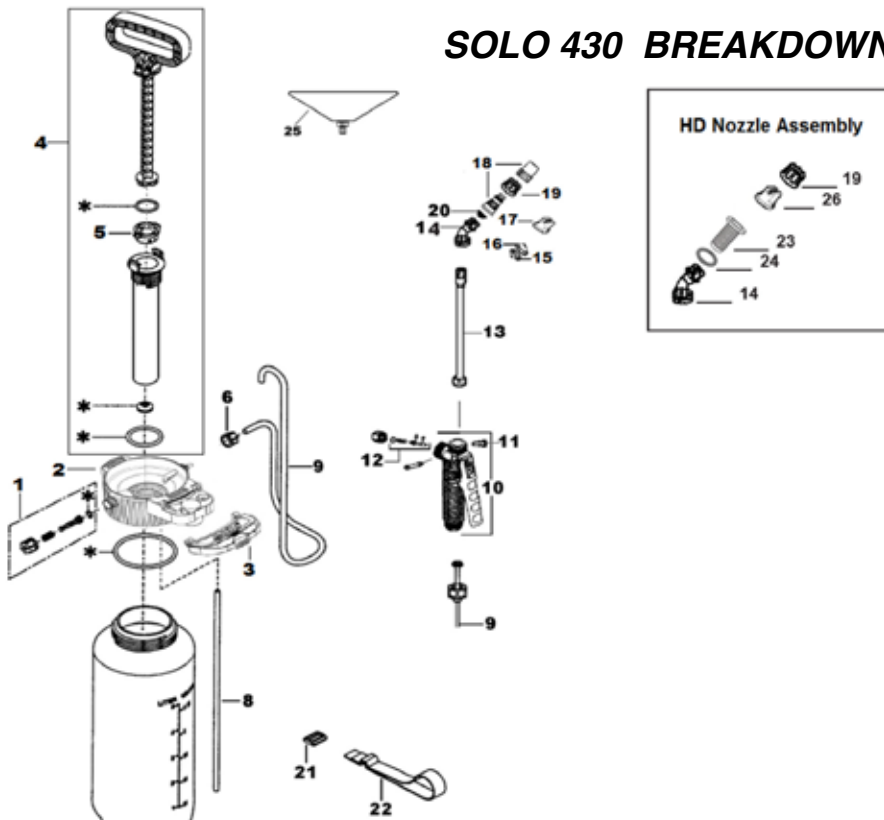
SOLO REPLACEMENT PARTS

#	Part#	Description
1	4071262	Tank, 2 gallon
-	4071267	Tank, 1 gallon
-	4071263	Tank, 3 gallon
2	4800185	Pressure relief valve assy
3*	0062166	O-ring
4*	0062115	O-ring
5	4300245	Carrying strap
6	4073835	Pump piston, solid
7*	0062264	O-ring
10	4073528	Tank cap, red
-	4074387	Tank cap, black
11	4073111	Cylinder support (need 2)
12	4073834	Cylinder
-	4073834	Cylinder (use with 0094308)
13*	4061345	Gasket
14*	4074656	Valve cone
15*	0062165	O-ring
16***	4900515	Pressure hose, assy.
17	4800170	Shut-off valve, assy.
18	4074295	Pin retaining
19*	0062144	O-ring
20	4900230	Wand, assy. (inc. 35 & 21A)
	4900645	Stainless Wand
21	0062271	O-ring
21A	0062258	O-ring
22	4074527	Elbow
23*	0094308	Umbrella valve
24	4074283	Filter
25	0062106	O-ring
26	4074756	Swirl plate
27	4074755	Jet cap tip
28	4074148	Retaining nut
29	4074329	Lock clip
33	4074263	Flat spray nozzle
47	4074336	Retaining nut
48	4074335	Lever
49	0610402-K	Shut-off valve repair kit
52	4900527	Plastic adj. nozzle (incl. a & b)
	4900207	Brass adj. nozzle
Accessories		
-	4900405-K	Pump repair kit
-	4900407-K	Pump repair kit
25	0062106	O-ring
30**	4074726	Hollow cone nozzle
34	2700316	No drip check valve
35	4074337	Retaining nut
41	0062249	O-ring
42	4074338	Retaining nut
44	4900430	Drift guard
45	4900622	Pressure gauge assy.
50	0062115	O-ring
53	0065210	Brass flat spray nozzle
* Pump repair kit		
***Cut pick-up tube to fit for models 454 and 456		

SOLO 456 - 457 BREAKDOWN



SOLO 430 BREAKDOWN



#	Part#	Description
1	4800250	Pressure relief valve
2	4073852	Tank cap (inc. 1, 3)
2	407383845	Tank cap (Black - HD)
3	4073854	Nozzle cover
4	4400115	Complete pump
5	4073839	Pump ring, Half (need 2)
6	4074655	Screw cap
8	0064387	Pickup tube
11	4074329	Lock clip
12	0610402-K	Shut-off valve repair kit
13	4900230	Wand
14	4074527	Elbow
15	4074756	Swirl plate
16	4074758	Jet cap
17	4074263	Flat spray nozzle
18	4900527	Plastic adjustable nozzle
19	4074148	Screw cap
20	4074283	Filter
21	4074405	Slide buckle
22	0094174	Carry strap
23	2700316	No-drip check valve
24	0062115	O-ring
26	0065210	Brass fan nozzle
*	0610403-K	Sprayer repair kit
Accessories		
25	4900430	Drift guard
**	0610411-K	Shut-off Valve & Wand repair kit
** Kit not shown in breakdown.		

ROADSIDE WEED & TURF

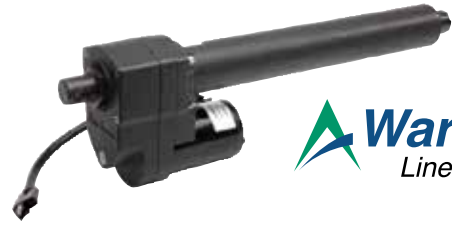


Green Garde JD9C Spray Gun

The JD9C is a heavy duty spray gun adjustable from fine fog to long distance, or stream. The JD9C has a convenient trigger lock for continuous spraying and comes with a choice of 7 different interchangeable spray nozzles and tips.

- Drip-Free shut-off.
- Convenient trigger lock for continuous spraying.
- Maximum 1,000 psi.
- Adjustable from fine fog to long distance pencil stream.
- Shipping weight 3 lbs.
- Most greenhouse growers choose the small nozzle.

See complete listing of spray guns: pg. L278-L279



Warner Actuators

Fairbank Equipment now offers a full line of Warner Linear standard electric actuators, each specifically designed to meet the needs of light-duty, general-duty, or rugged-duty applications. All are engineered for maintenance-free, long-life service, providing maximum value for our customers.

Hannay Single Hose Reel

1500 & 1800 Series

(Manual or Power Rewind Reels)

- 12 volt DC power rewind
- Direct crank rewind is permanently attached.
- Standard outlet: 1/2" or 3/4" female NPT threads.
- Optional rollers: specify roller position when ordering.
- Available in a wide selection of sizes up to 300 ft. 1/2" diameter hose
- Manual reels include: cam-lock drag brake, spring actuated pin lock.
- Standard inlet: 90° ball bearing swivel joint, 1/2" or 1" female NPT threads.
- Chain and sprocket drive powered by electric, hydraulic, or compressed air motor.
- Lightweight, compact reels designed for long lengths of hose in manual and power rewind.



C-2 Hannay Reel roller assembly



CALL FOR PARTS OR DETAILS

Roadside Boom Buster Chart

NOZZLE COMBINATIONS FOR SPEEDS FROM 4 TO 10 MPH			
MOD 120-5R Band Width 5 Ft.	MOD 180-10R Band Width 10 Ft.	MOD 265-R Band Width 19.5 Ft.	
NOZZLE COMBINATIONS FOR SPEEDS FROM 7 TO 15 MPH			
MOD 180-6R Band Width 6 Ft.	MOD 260-11R Band Width 11 Ft.	MOD 375-R Band Width 21.5 Ft.	MOD 437-R Band Width 29.5
NOZZLE COMBINATIONS FOR SPEEDS FROM 16 TO 30 MPH			
MOD 260-5R Band Width 5 Ft.	MOD 370-R Band Width 10 Ft.	MOD 500-R Band Width 20 Ft.	

John Bean DM Series Sprayers

High quality and built to last!

FEATURING:

- 10 or 20 GPM Royal Series Piston Pumps
- Stainless Steel or Fiberglass Tanks in Multiple Sizes
- Full Length Mechanical Agitation
- 16" Fill Openings with Strainer Basket & Sight Gauge
- Ceramic Cylinder Sleeves for Durability
- Adjustable Pressure Relief Valve
- Liquid Filled Pressure Gauge
- Large Capacity Suction Strainer
- Up to 500PSI
- Powered by Honda Engines



John Bean Pump Repair Kits

Part#	Description
26108	Stainless Steel Relief Valve
1270058	Plunger Cup
5256493	Repair Kit
5251825	Valve Kit
5251827	Packing Kit



Flow Meter

Part#	Descriptions
O3N30GM	Used for Turf



Green Garde Spray Hose

High-Pressure, Braid-Reinforced, Neon, PVC Hose, 800 PSI Working Pressure, 3000 PSI Burst, Non Kink Memory. PVC High Pressure Spray Hose 3/8"-3/4" 3 Year Warranty.

Part#	Description
38688	1/2" Hose by the foot
38689-400	1/2" Hose 400 ft.



Foster Stainless Steel Quick Couplings

Part#	Description
50MPS	1/2" Male Thread - Plug
50FPS	1/2" Female Thread - Plug
50FSS	1/2" Female Thread - Socket

brass couplings available also



Brass Swivel

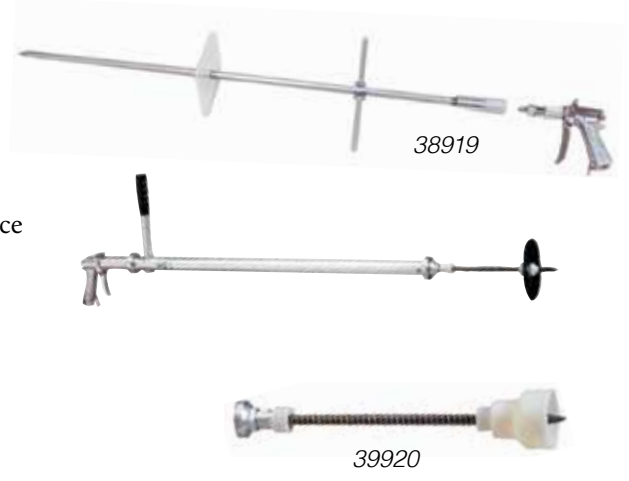
Part#	Description
11740B	M GHT x F GHT
11740B-GHX34	3/4" MPT x F GHT
11990-19	1/2" MPT x FPT

HONDA PACKAGES & ROOT FEEDERS

Surface Root Feeders

Surface root feeder for feeding liquids, field proven. Fits JD9 gun, allows precise metered dosages of application material.

- Fits your JD9 and JD9-CT spray guns for greater field convenience
- Crafted of tough but lightweight aluminum
- Ruggedly built with fully replaceable parts for a lifetime of use
- Choice of two models: floppy plate or cup style shield



Part#	Description
39920	Optional Surface Feeder with Cup Style Shield
38919	Green Garde Root Feeder



Shown with electric start

Honda Motors

Part#	Description
GX160K1QX2	5.5hp Recoil Start
GX270K1QAE2	9hp Electric Start
GX390U1QNE2	13hp Electric start



Hypro Centrifugal Honda Pump Package

Part#	Descriptions
FB-9203C-H	GX270 Honda with belt driven 9203C Hypro Centrifugal pump



AR Diaphragm Honda Pump Package

Part#	Descriptions
9910-D30GRGI	GX160 Honda/D30 AR with Relief

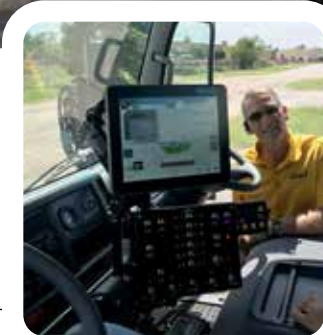
Call for pricing on the complete line of Honda Engines and Authentic Honda Parts.

Weed Department Sprayers

Fairbank Equipment has the experience to custom designing a spray system for all your needs. Our shop can install whatever is on your wish list. Come in or give us a call and let our years of experience help you design exactly what system works for your needs.

Features

- Hypro 9203C Centrifugal Pump w/ 9hp Honda Engine and electric start
- 300ft. of 1/2" 800psi spray hose
- Hannay 1520-17-18 hose reel (Red)
- 300 Gallon Poly Tank on Skid
- Penberthy Educator Agitation
- JD9 Spray Gun
- 5 Gallon Chemical Inductor
- 25 Gallon Spot Sprayer
- PWZ Hose Reel (Black)
- Raven 440 Rate Controller



Add Guidance or Other Custom Controls



Features

- Stainless Steel John Bean Sprayer
- Raven Controller
- RAM cab mount



Features

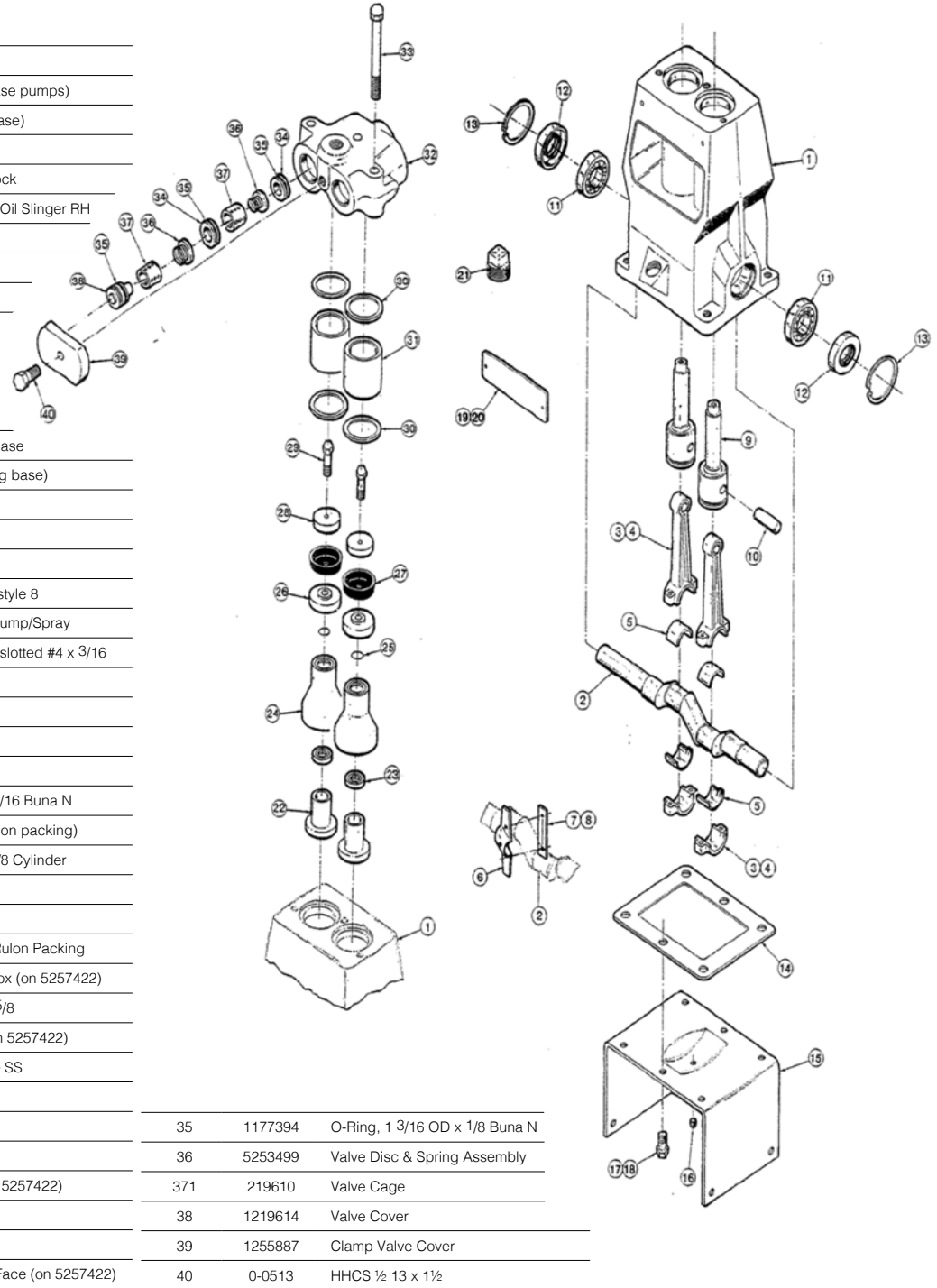
- Hypro diaphragm pump 5.5 Honda Engine
- 100ft. of 1/2" 800psi spray hose
- Hannay 1520-17-18 hose reel
- 150 Gallon Poly Tank on Skid
- Penberthy Educator Agitation
- JD9 Spray Gun

Call for custom options and pricing!

JOHN BEAN SPRAYERS

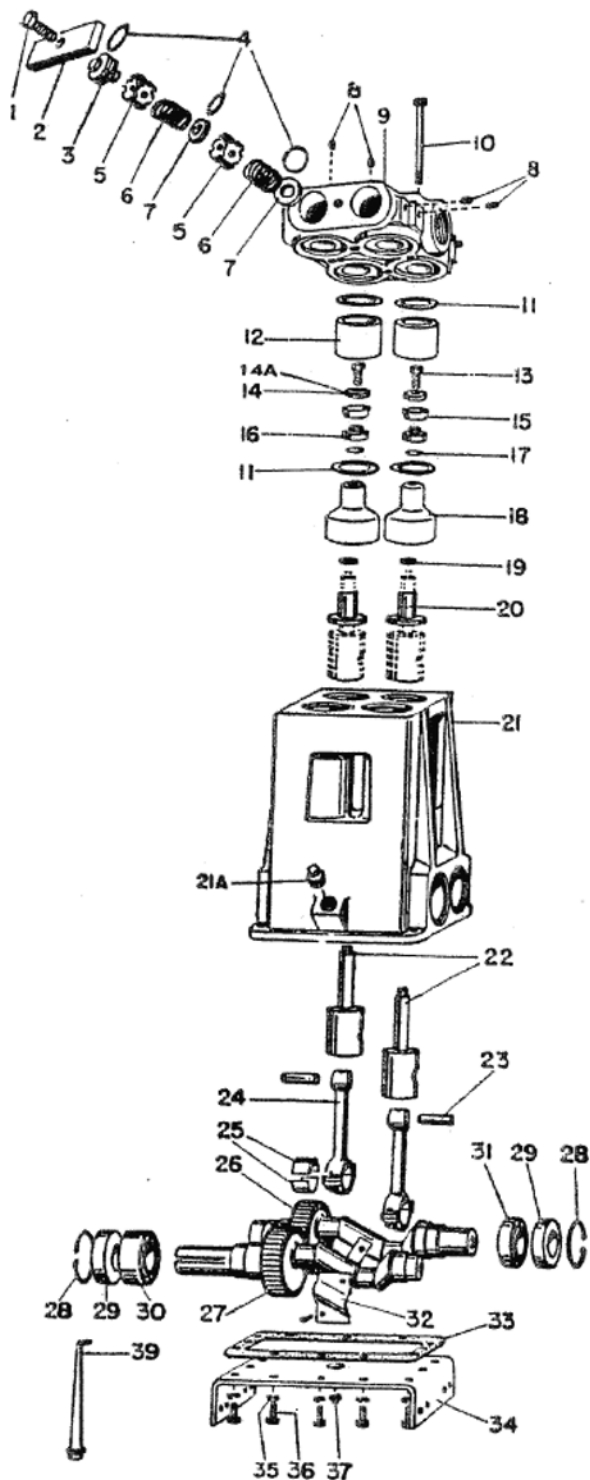
R-10 pump Breakdown

Item#	Part#	Description
1	1267611	Pump Case
2	1244980	Crankshaft (long base pumps)
	1275026	Crankshaft (short base)
3	1263906	Connecting Rod
4	1278439	HHCS ¼ - 20 x 1 Lock
5	1280908	Bearing insert, Pair Oil Slinger RH
6	1280807	Includes:
7	1272419	Speed Nut
9	1216823	Crosshead
10	1219650	Wrist Pin
11	1177804	Bearing, Ball
12	1219669	Oil Seal
13	1113528	Retainer Ring
14	1219606	Gasket, Mounting Base
15	1255297	Mounting Base (long base)
	1270922	Short Base
16	1-1465	Plug ¼ Std. Galv.
17	0-0286	HHCS ¾ 16 x ¾
18	1177455	Spring Washer ¾ style 8
19	5262738P	Late Model, Spec Pump/Spray
20	1187413	Screw, round head slotted #4 x ¾/16
21	1-1471	Plug ¾ Blk. Std
22	1218743	Sleeve
23	1269388	Washer, Umbrella
24	1279148	Umbrella
25	11013390	Ring 11/16 O.D. x 1/16 Buna N
	320040	O-Ring (use with rulon packing)
26	1282557	Packing Holder 1 5/8 Cylinder
27	1251925	Packing 1 5/8
	1255223	Packing, Rulon
	1255224	Washer, Back up, Rulon Packing
	5257807	Packing, 1 5/8 Cobox (on 5257422)
28	5257218	Packing Washer 1 5/8
	5257986	Packing Washer (on 5257422)
29	1284516	HHCS 5/16 18 x 1 ½ SS
30	A91684	Gasket Cylinder
31	1241364	Cylinder 1 5/8
32	1241397	Valve Chamber
	5257095	Valve Chamber (on 5257422)
33	0-0224	0-0224
34	1219615	1219615
	5260142	Valve Seat Raised Face (on 5257422)



35	1177394	O-Ring, 1 3/16 OD x 1/8 Buna N
36	5253499	Valve Disc & Spring Assembly
37	219610	Valve Cage
38	1219614	Valve Cover
39	1255887	Clamp Valve Cover
40	0-0513	HHCS ½ 13 x 1 ½

Model#	Tank Cap Gallons	Tank Material	Overall Length	Overall Width	Pump Capacity	Honda Engine	Dry Weight
DM10E200FERH	200	Fiberglass	64	43	10	8	600
DM20E200FERH	200	Fiberglass	64	43	20	13	740
DM20E300FERH	300	Fiberglass	84	43	20	13	780
DM20E300SERH	300	SS	84	38	20	13	940

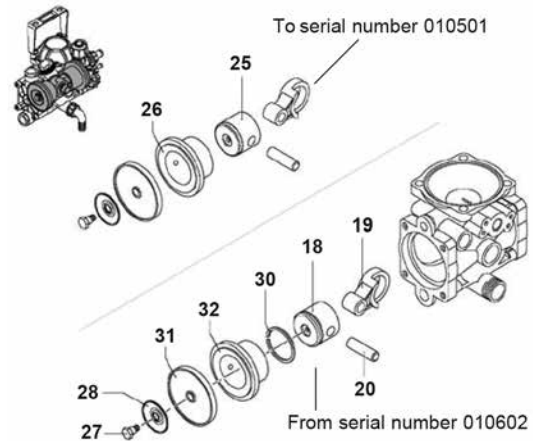


R-20 pump Breakdown

Item#	Part#	Description
1	0-0513	Cap Screw, 1/2" - 13 x 1 1/2
2	1255887	Clamp, Valve Retaining
3	1219614	Cover, Valve
4	1177394	O-Ring 1 - 13/16" OD
5	1219610	Cage, Valve
6	5253499	Disc and Spring Assembly, Valve
7	1219615	Seat, Valve
8	1-1465	Pipe Plug, 1/4" Galvanized
9	1247208	Valve Chamber
	1247235	Valve Chamber Assembly
10	0-0224	Cap Screw, 3/8" - 16 x 5
11	A 91684	Gasket, Cylinder
12	1241364	Cylinder (ceramic)
13	1284516	Cap Screw, 5/16" - 18 x 1 1/2
14	5257986	Washer, Packing
15	5257807	Packing (cup)
16	1282557	Holder, Packing
17	1101339	O-Ring 3/4" OD
18	1279148	Umbrella
19	1269388	Washer, Umbrella
20	1218743	Sleeve (plastic)
21	1273545	Case, 2020 Pump
21a	1-1471	1-1471
22	1216823	Crosshead
23	1219650	Wrist Pin
24	6-8118	Conn. Rod Assembly
	1278439	Cap Screw, Conn. Rod (self Lock)
25	6-8119	Bearing Insert (pair)
26	6-8117	Crankshaft Assembly, Driven
27	6-8116	Crankshaft Assembly, Drive
28	1118553	Snap Ring
29	1101095	Seal, Oil
30	1104508	Bearing (double-fafnir)
31	1104444	Bearing (single-fafnir)
32	5283846	Oil Slinger Kit Includes:
	320502	HHCS 10-24 x 3/4
	5261980	Bolt Strip
33	1273559	Gasket, Pump Base
34	1280633	Mounting Base, Pump
35	1177455	Wave Lock Washer, 3/8"
36	0-0286	Cap Screw, 3/8" - 16 x 3/4
37	1101305	Magnetic Drain Plug, 1/4" Pipe
39	1250638	Puller, Valve and Seat (pump tool)

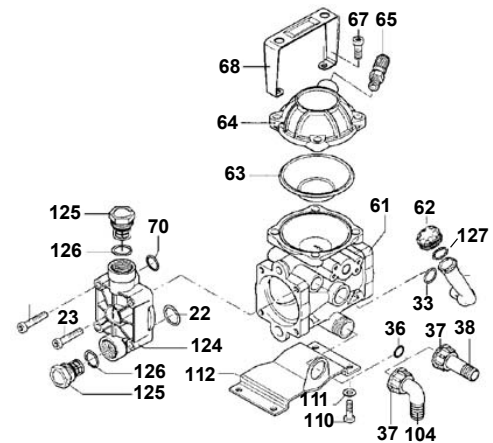
AR DIAPHRAGM PUMPS - D252

Part#	Description
9910-D252	Pump
9910Kit1723	Diaphragm Kit
9910GR40	Control Unit
9910-D403	Pump
9910Kit2423	Diaphragm Kit
9910Kit2389	O-Ring Kit



- ¹ Denotes Diaphragm Kit 9910-KIT1723
- ² Denotes Valve Kit 9910-KIT2408
- ³ Denotes O-Ring Kit 9910-KIT2409

Ref. No.	Part Number	Description	Qty.
5 ³	9910-800380	O-Ring	1
6	9910-800020	Flange	1
7	9910-800172	3/4" Solid Shaft	1
8	9910-800160	Spacer	1
12	9910-390440	Nut	4
15	9910-800200	Seal	1
16	9910-800180	Roller Bearing	1
17	9910-550330	Stud	4
18	9910-802070	Piston	2
19	9910-800140	Connecting Rod	2
20	9910-800130	Piston Pin	2
21	9910-480370	Roller Bushing	1
22 ^{1,3}	9910-480440	O-Ring	5
23	9910-680360	M8 x 50 Bolt	1
24	9910-800220	M8 x 45 Bolt	7
25	9910-800120	Piston	2
26	9910-800110	Sleeve	2
27	9910-800090	Retaining Bolt	2
28	9910-800350	Plate	2
30	9910-802080	Piston Ring	2
31 ¹	9910-800085	Diaphragm Desmopan (Std.)	2
31	9910-80008T	Diaphragm Teflon (Opt.)	1
31	9910-800080	Diaphragm Buna (Opt.)	2
32	9910-802050	Sleeve	2
33 ³	9910-740290	O-Ring	1
34	9910-801960	Oil Sight Glass	1
35	9910-800520	Ring Nut	2
36 ³	9910-390180	O-Ring	1
37	9910-550450	Ring Nut	1
38	9910-800340	Hose Barb (Inlet) 3/4"	1
39	9910-800540	Plug	1
40	9910-800400	Valve Body	1
41	9910-550331	Washer	2
42	9910-801080	M6 x 40 Bolt	2
43	9910-800430	Valve	1
45	9910-800500	Ring Nut	1
46	9910-800510	Knob	1
47	9910-390330	Pin	1
48 ³	9910-800560	O-Ring	1
49	9910-800490	Positioning Rod	1
50	9910-800530	Hose Barb (Outlet) 3/8"	1
51	9910-800670	Hose Barb (Bypass) 5/8"	1
52	9910-800680	Ring Nut	1
53 ³	9910-740290	O-Ring	1

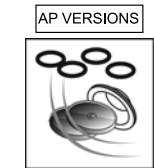
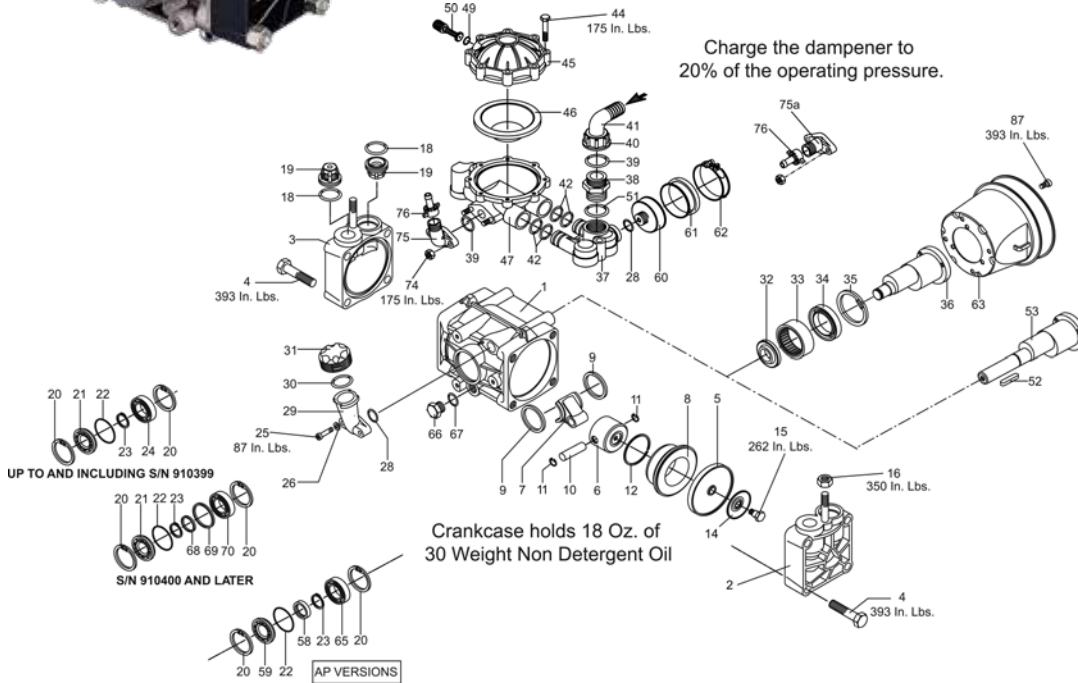


Ref. No.N	Part numberD	Description	Qty.
54	9910-800480	ATM Scale Adhesive	1
56	9910-800440	Lower Spring Guide1	
57	9910-800450	Spring	1
58	9910-800460	Upper Spring Guide1	
59	9910-800470	Adjustment Knob1	
60	9910-480550	Retaining Ring1	
61	9910-800010	Pump Body	1
62	9910-550057	Cap	1
63 ¹	9910-800190	Accumulator Diaphragm (Buna-N)	1
63	9910-80019T	Accumulator Diaphragm (Teflon)1	
64	9910-800230	Upper Air Chamber1	
65	9910-800650	Valve	1
67	9910-540290	M8 x 25 Bolt	4
68	9910-800390	Handle	1
70 ^{1,3}	9910-800210	O-Ring	2
97	9910-800173	Thru-Shaft AP, 5/8"	1
104	9910-550460	Elbow	2
105	9910-800691	Flange, 1/2" NPT	1
106	9910-880280	M6 x 18 Bolt	2
107	9910-800590	Key	1
108	9910-800171	Shaft "GR-Version," 3/4"	1
109	9910-Kit 1990	Control unit	1
110	9910-180431	M8 x 16 Bolt	2
111	9910-380241	Washer2	
112	9910-800311	Pulley Base	1
113	9910-320350	M6 x 12 Bolt	4
124	9910-801940	Head	2
125 ²	9910-809060V	Valve Assembly4	
126 ^{2,3}	9910-880830	O-Ring	4
127 ³	9910-550040	O-Ring1	

AR DIAPHRAGM PUMPS - D30

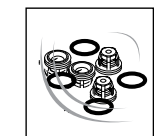


Part#	Description
9910-D30	Pump
9910Kit1724	Diaphragm Kit
9910GS40GI	Control Unit
9910Kit1757	Repair Kit-Control Unit

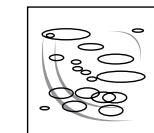


9910-KIT1724 Diaphragm Kit Desmopan	
Ref. No.	Qty.
5	2
18	4
46	1

9910-KIT1724B Diaphragm Kit BUNA	
Ref. No.	Qty.
5	2
18	4
46	1



9910-KIT1917 Valve Kit	
Ref. No.	Qty.
18	4
19	4



9910-KIT1916 O-Ring Kit	
Ref. No.	Qty.
18	4
22	1
28	2
30	1
39	2
42	4
49	1
51	1
67	1

Ref. No.	Part Number	Description	Qty.	Ref. No.	Part Number	Description	Qty.
1	9910-629011	Pump Body w/bolts	1	36	9910-620170	Crankshaft	1
2	9910-620101	Right Head Assembly (DX)	1	37	9910-620150	Suction Manifold	1
3	9910-620102	Left Head Assembly (SX)	1	38	9910-550340	Threaded Adapter	1
4	9910-621430	Bolt 12 x 55	8	39	9910-550350	O-Ring	2
5	9910-620085	Diaphragm, Desmopan (Std.)	2	40	9910-550880	Ring Nut	1
5	9910-620080	Diaphragm, Buna-N (Opt.)	2	41	9910-550370	Hose Barb 1"	1
6	9910-620120	Piston	2	42	9910-390060	O-Ring	4
7	9910-620140	Connecting Rod	2	44	9910-621780	M8 X 40 Bolt	8
8	9910-620110	Sleeve	2	45	9910-629211	Upper Air Chamber	1
9	9910-580470	Retainer Ring	2	46	9910-550190	Accumulator Diaphragm, Buna-N	1
10	9910-380300	Connecting Rod Pin	2	47	9910-622070	Lower Air Chamber Body	1
11	9910-380080	Ring Pin	4	49	9910-650542	O-Ring	1
12	9910-160230	Piston Ring	2	50	9910-180020	Air Valve	1
14	9910-1040180	Retaining Washer	2	51	9910-390290	O-Ring	1
15	9910-580360	Diaphragm Bolt	2	52	9910-620680	Key (AP-A Model)	1
16	9910-180150	Nut	2	53	9910-620172	Thru-Shaft 20 mm Dia. "AP Version"	1
18	9910-620030	O-Ring	4	53	9910-620174	Thru-Shaft 3/4" Dia. "AP Version"	1
19	9910-1409050	Complete Valve Assembly	4	58	9910-620630	Seal	1
20	9910-111120	Retaining Ring	2	59	9910-620021	Cover	1
21	9910-620020	Cover	1	60	9910-650660	Diaphragm Holder	1
22	9910-620210	O-Ring	1	61	9910-650670	Suction Diaphragm	1
23	9910-620291	Retaining Ring	1	62	9910-650690	Clamp	1
24	9910-620190	Bearing	1	63	9910-1500350	PTO Shield	1
25	9910-850850	M6 X 30 Bolt	2	64	9910-820670	M10 X 16 Bolt	4
26	9910-550331	Washer	2	65	9910-620190	Bearing	1
28	9910-180101	O-Ring	2	66	2406-0023	Drain Plug, Oil	1
29	9910-550030	Oil Sight Glass	1	67	9910-740290	O-Ring	1
30	9910-550040	O-Ring	1	68	9910-620930	Spacer	1
31	9910-550056	Oil Sight Glass Cap	1	69	9910-620940	Spacer	1
32	9910-620160	Spacer	1	70	9910-380230	Bearing	1
33	9910-550060	Roller Bearing	1	74	9910-390270	Nut	2
34	9910-620130	Seal	1	75	9910-450145	Flange, Elbowed	1
35	9910-620330	Retaining Ring	1	75a	9910-450146	Flange, Straight (Optional)	1
				76	9910-110130	1/2" Fitting plus Hose Barb	1

SADDLE TANKS & AMMONIA TRAILERS



Side-Mount Saddle Tanks

- Tanks and mounts to fit most makes and models of tractors.
- Superior forward visibility
- Easy access to the engine for routine service.
- Excellent ground clearance
- All mounting hardware included with each kit
- Simple on and off
- Easy entry to cab using original equipment step
- 400 or 500 gallon capacity
- Twin tube design stabilizes tank and simplifies plumbing
- Heavy duty construction
- Call Fairbank with make and model of tractor



Duo Lift N-1000 Hi-Rise Ammonia Trailer

All Duolift hi-rise trailers feature 5th wheel steering and are equipped with a 2½" king pin. Tire tracks can be adjusted from 60" to 90" in minutes with the original easy to use clamp design. Simply loosen one bolt per tire. The front axle is designed to turn completely under the wagon.

N-1000 High Clearance Specifications

Tank	1,000 Gallon
Capacity	14,000 # GVW
Axle Clearance	32" Clearance
Axles	4" x 8"
Hubs	6 Bolt 3,800#
Wheels	15" x 10" x 6"
Track Adjustment	60" to 90" (120" optional)
Optional Tires	11 L x 15" or 12.5 L x 15"



NP-1000 Conversion

Convert your older anhydrous ammonia tanks with the NP-1000. This unit accommodates the 1,000 gallon Prior style tank with a triangular mount.



M-2200

M-2200

Duo-Lift's M2200 wagon has become very popular because it is an economical way to add larger units to your fleet. Allows you to utilize old 1,000 gallon tanks from worn out trailers.



N2900

M-3200

The M-3200 is designed like the M-2200 except it is designed with heavier hubs and spindles and is slightly wider. Will accommodate 1,450 gallon tanks.

N-2900 High Rise

With the N-2900 wagon, the front axle is designed with a pivot pin that allows the tires to adapt to the terrain in any position, straight or turned. Because the axle can turn completely under the wagon frame, it is ideal for tight maneuvering in the field. This wagon will accommodate twin 1,000 or 1,450 gallon tanks.



LB2110

LB2110

The LB2110 is a shorter wheelbase version of the popular LB2200 and is made for (1) short style 2000 gallon NH₃ tank instead of twin 1000 gallon NH₃ tanks. Plumbing is cleaner, easier and cheaper with only 1 withdrawal hose coming forward to the toolbar. Lowboy design keeps the center of gravity low and the complete turn under steering system provides maximum maneuverability.

Optional Features

- Hydraulic Surge or Electric over Hydraulic Brakes
- Cushion, Extendible or Spring Lift Assist Tongue
- 16.5L x 16.1 or 21.5L x 16.1 Flotation Implement Tires
- 120" or custom track width



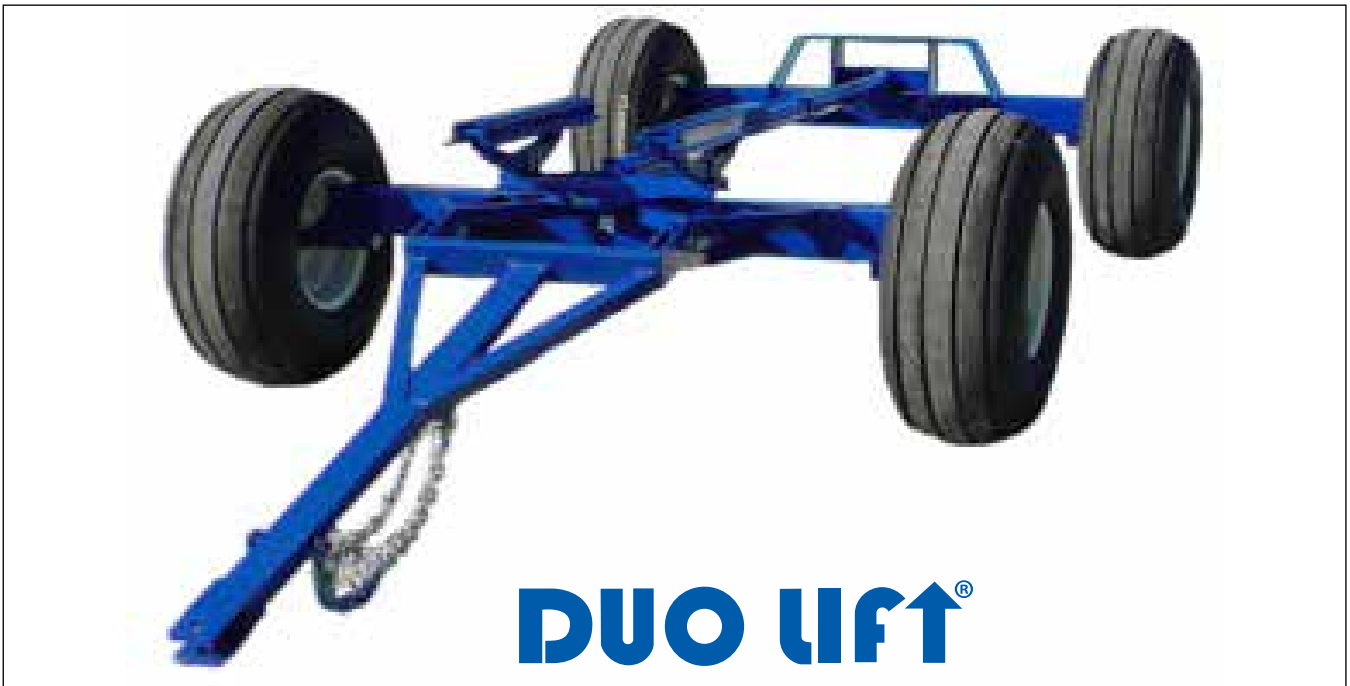
LB1

LB1 Low Boy Wagon

An adaptable fertilizer wagon that pulls ahead in the field, with category-leading engineering to accept nearly any NH₃ tank backed by Duo Lift's legendary build quality. We have truly defined the meaning of "Universality". This unit has been designed to accommodate twin 1,000 gallon or 1,450 gallon NH₃ tanks. There is also an option to accommodate a single 2,000 gallon or 3,000 gallon "Shorty" NH₃ tank. The LB1 comes standard with an adjustable rear axle, from 92" to 120" Track Width.

Model#	Tank Size	Track Width	Axle Clearance	Tire Size	Hub Capacity (Ea)	Spindles	Wheels
M-2200	2-1,000	86" N/A	22"	16.5x16.1 or 21.5x16.1	5,970 lbs	2.50"	16.1 x 11"
M-2900	2-1,000 or 2-1,450	120" N/A	30"	16.5x16.1 or 21.5x16.1	8,000 lbs	3.25"	16.1 x 14"
LB1	2-1,000 or 2-1,450	Front 60" Rear 92-120"		16.5x16.1 or 21.5x16.1	8,000 lbs	F. 2.50" R. 3"	16.1 x 14"

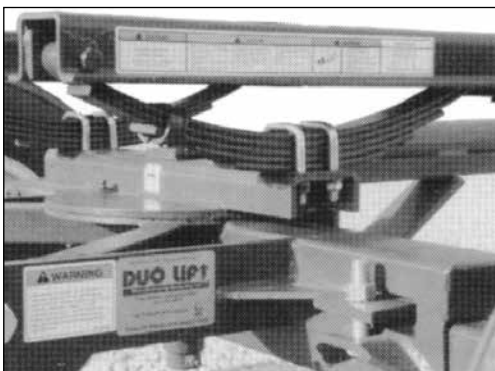
ANHYDROUS AMMONIA TRAILERS



	M-1000	M-1450	M-2000
CAPACITY	12,000#GVW	14,000#GVW	20,000#GVW
TANK SIZE	1,000 gallon	1,450 gallon	2,000 gallon
TRACK WIDTH	60-80" Adjustable or fixed	60-80" Adjustable or fixed	60-80" fixed
WHEEL BASE	108" to 120"	108" to 120"	168"
GROUND CLEARANCE	16"	16"	20"
WHEELS	15" X 8" 6-Bolt	15" x 10" 6-Bolt	16.1 x 11" 8-bolt
HUBS	6-Bolt	6-Bolt	8-Bolt
SPINDLES	2"	2"	2-1/2"
FRONT BOLSTER	5-Leaf	6-Leaf	6-Leaf
KING PIN	2"	2"	2"
AXLES	4" x 6"	4" x 6"	4" x 6"
REACH POLE	3" Tubing	3" Tubing	3" Tubing
5TH WHEEL	3/8" x 15"	3/8" x 15"	3/8" x 15"
TONGUE	2" x 4"	2" x 4"	2" x 4"
SAFETY CHAIN	YES	YES	YES

OPTIONAL FEATURES:

BRAKES	Electric or hydraulic surge brakes available on all models		
TONGUE	Cushion	Cushion	Cushion
TIRES	11L x 15	12.5 L x 15	16.5 L x 16.1
GROUND CLEARANCE	20" or 24"	20" or 24"	24"



Model LB-2200 NH3 Wagon

Now you can make good use of those old 1,000 gallon ammonia tanks!

- Models available for twin 1,000 gallon, twin 1,450 gallon, single ammonia tanks.
- Valves accessible from the ground
- Turn under front axle for maneuverability
- Strong semi king pin turntable
- Will accommodate "Prior" ammonia tanks
- 20,000lbs G.V.W.R.
- 3" x 4" heavy duty tubing tongue
- 8-bolt hubs



DUO LIFT®

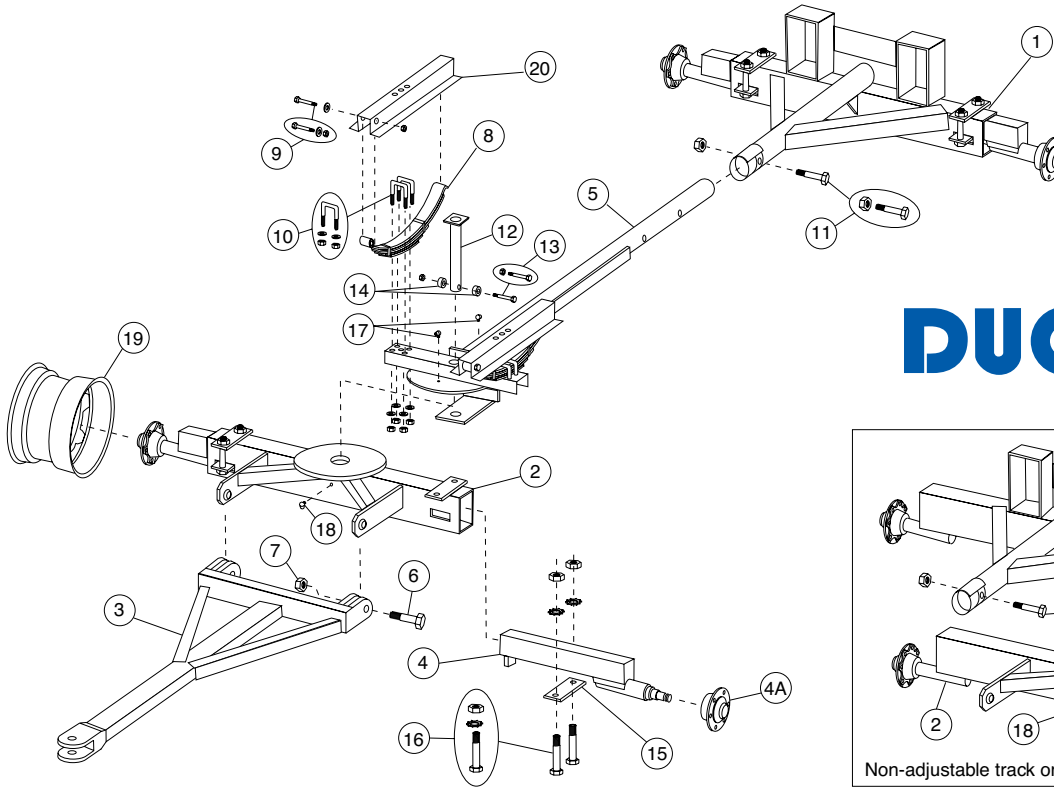


Model SLB-2900 Low Boy Liquid Tank Wagon

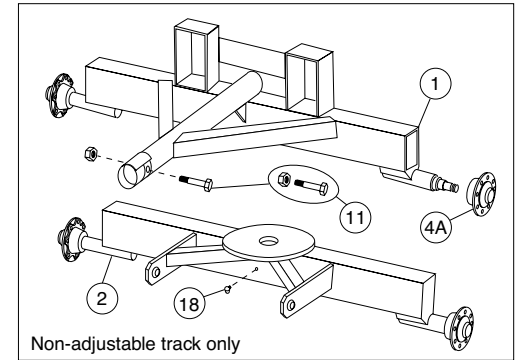
For 2,000 to 2,500 Gallon poly tanks.

- 32,000 lbs GVWR
- 2,000 to 2,600 gallon tank
- 108" rear, 60" front
- 886, 8 bolt 8,000lb hubs
- 16.1x 14.8 x 8 wheels
- 3.00" diameter spindles
- 8" wide steel beam rear axle
- 4" x 8" Heavy Wall Tubing with 2.75" Dia Rocking Pin
- 5th wheel with 2" SAE, Heat Treated, 75 ton semi king pin turntable
- 12" wide main frame steel beams and 6" schedule 80 torque tube
- Cross Members for 2000 or 2600 gallon horizontal poly tank
- 3" x 4" heavy duty tubing in tongue
- Pump mount plates with front mesh walkway

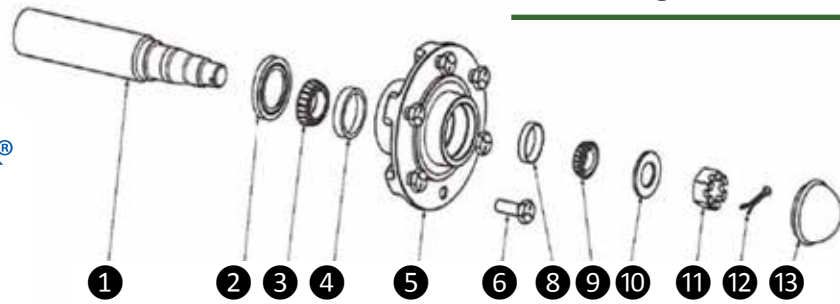
DUO LIFT PARTS



DUO LIFT®



Item	Description	Adjustable Track Only		Non-Adjustable Track Only		
		M-1000	M-1450	M-1000	M-1450	M-2000
1	Back Axle	464645	464645	467245	467245	467245
2	Front Axle	464684	464684	467284	467284	55384820
3	Tongue with safety chains	64316	64316	64316	64316	34316
4	Strut w/spindle less hub, 16" clearance	353524-16	353524-16	Not used	Not used	Not used
4	Strut w/spindle less hub, 20" clearance	353524-20	353524-20	Not used	Not used	Not used
4A	Hub w/bearings, seal, dust cap and bolts	H611WP	H611WP	H611WP	H611WP	819
5	5th wheel and pole	16484	16484	16484	16484	16484
6	1" Tongue bolt	1835	1835	1835	1835	1835
7	1" Lock nut	1864	1864	1864	1864	1864
8	Leaf slipper spring	E5226	E5115	E5226	E5115	E-5115
9	Spring bolt, nut and lock washer	91635	91635	91635	91635	91635
10	U-Bolt, nuts and lock washer for springs	245	245	245	245	245
11	Reach pole bolt with lock nut	5845	5845	5845	5845	5845
12	King pin	2121045	2121045	2121045	2121045	2121045
13	King pin keeper bolt and lock nut	38163	38163	38163	38163	38163
14	Spacer	3825	3825	3825	3825	3825
15	Strut clamp plate	538	538	Not used	Not used	Not used
16	Strut bolt, nut and star lock washer	7560	7560	Not used	Not used	Not used
17	Grease fitting, 5th wheel	5410	5410	5410	5410	5410
18	Grease fitting, king pin	5010	5010	5010	5010	5010
19	Wheel	15866	151066	15866	151066	161188
20	Tank support member	25253	516323	25253	516323	516323

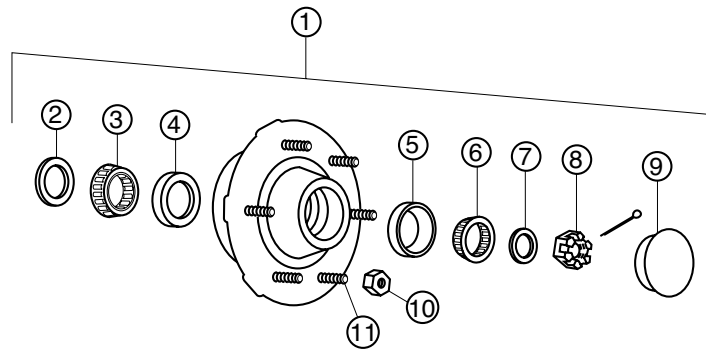


611 Hub:
6-Bolt on 6" Bolt Circle

783 Hub:
6-Bolt on 6" Bolt Circle

821 Hub:
8-Bolt on 8" Bolt Circle

Item	Description	Part#	Part#	Part#
1	Spindle	Call	Call	Call
2	Seal	4902	CR18823	HB000051
3	Inner Bearing Cone	LM29749	LM501349	HB000077
4	Inner Cup	LM29710	LM501310	HB000076
5	Complete Hub	HB000002	HB000005	HB000047
6	Wheel Bolt	HB000111	HB000111	HB000195
8	Outer Cup	LM67010	LM67010	HB000170
9	Outer Bearing Cone	LM67048	LM67048	HB000138
10	Washer	SL000019	SL000019	SL000019
11	Castle Nut	SL000016	SL000016	SL000016
12	Cotter Pin	SL000014	SL000014	SL000014
13	Dust Cap	P502007	P502007	HB000171



1" Spindle Nut ID, 6-Bolt

3/4" Spindle Nut ID, 6-Bolt

Item	Description	Part#	Part#
1	Complete Hub	13HRM16E	25-66LME
2	Grease Seal	42385	4902
3	Inner Bearing Cone	25580	LM48548
4	Inner cup	25520	LM48510
5	Outer Cup	LM67010	LM67010
6	Outer Bearing Cone	LM67048	LM67048
7	Washer	16-5863	16-5809
8	Slotted Nut	16-5686	16-5095
9	Grease Cap	MP2121	MP2121
10	Lug Nut	5552	5552
11	Hub Bolt	16-5981	16-5981

TENDERS

Chandler Tenders are quality made from your choice of mild steel, 409 or 316 stainless steel.

FEATURES

- Stainless gate slides
- Stainless gate sleeves and shafts
- Stainless gate fasteners
- Stainless transition box
- Stainless hopper boot
- Stainless hanger shaft
- Stainless hanger pipes
- Front mounted lander
- Catwalks
- Auger clean out door
- Tarp support
- Two compartments

OPTIONS

- Stainless hopper and compartment bulkhead
- Stainless gussets and catwalks
- Stainless auger tube
- Stainless flighting mounted on stainless pipe
- Extra ladders
- Roll top tarp



CHANDLER EQUIPMENT CO.

Specifications	10 Ton	16 Tone Rear	16 Ton Side	24 Ton Side
Hopper Capacity	330 cu ft.	496 cu ft.	495 cu ft.	740 cu ft.
Payload (Heaped)	24,000 lbs	32,240 lbs	32,175 lbs	48,100 lbs
Hopper Length	12'	16'	16'	24'
Hopper Width	8'	8'	8'	8'
Hopper Height Above Truck Frame	6'6"	7'	7'	7'
Auger Tube Size	10"	10"	10"	10"
Discharge Capacity	3500lbs/min	3500lbs/min	3500lbs/min	3500lbs/min
Max Discharge Height	11'	11'	13' 3"	12' 4"
Minimum Discharge Height	7' 8"	7' 8"	11' 7"	11' 7"



Chandler Dry and Lime Spreaders

Chandler Pull-Type Fertilizer Spreaders are durable, heavy-duty and well designed for long-lasting, trouble-free service. The design and construction quality sets the standard in the agri-business industry. All units are offered in corrosive-resistant 304 stainless steel. Chandler Spreaders have been quality checked and tested to provide the best possible spread pattern for your requirements.



PT-10 FSS (5 ton)

Chandler Model PT 10FSS Fertilizer Spreader

Available in five and six ton capacity, this heavy duty spreader is durable, long lasting and accurate.

- Tandem Axle 6500# Henschen suspension
- Heavy duty 6" channel frame
- 8" wide 1x1 stainless steel conveyor chain
- All ground drive conveyor drive with optional hydraulic engagement
- All ground drive spinner drive or PTO drive
- Plate steel conveyor roller

Chandler Pull Type Fertilizer/Lime Spreaders

Available in five, six and eight ton capacity, this unit will spread both lime and dry fertilizer.

- Twin dished type spinners, 24" diameter with six blades per spinner.
- Hydraulic driven spinners
- 16" wide chain for lime or dry application with various style and widths available
- Double rack and pinion operated metering gate
- Plate steel conveyor roller



AT-FTLH-EXW (10 ton)



35 PTT-FTLH-EXW (10 ton)



9-PT-FT (5 ton)



20 PTT-FT (8 ton)

COMPOST / LITTER SPREADER

CHANDLER EQUIPMENT CO.

Chandler Compost / Litter Spreader

The Chandler C/L Pull-Type Litter and Shavings Spreader, in production for more than 45 years, is the model of dependability in the field. Whether you're dressing cotton fields with litter or laying shavings in a poultry house, the C/L Pull-Type can be configured/customized to perform numerous duties all over the farm.

- 10-26' Units
- Scalable Frame and Suspension Options
- Mechanical or Hydraulic Drive
- Guidance and Rate Control Ready
- Universal Pump standard on Self-Contained Hydraulic Units



FEATURES

Standard running gear:

- 10-16': 12.5L x 15 tire and wheels with (2) 7,000# torsion axles
- 18-26': 16.5L x 16.1 tire and wheels with (2) 10,000# torsion axles
- 3/16" Plate used on Floor and Rails; 10 gauge used for hopper front and sides
- 88" wide hopper and 34" floor width
- 24" Flat Disc (1/4 plate) with 9 x 1/4" thick spinner blades
- D-667X chain with 3/8 thick flat bars welded every fifth link

Mechanical:

- 50:1 conveyor worm drive (2" CR rear conveyor shaft)
- PTO-driven gearboxes for spinners

Hydraulic:

- Plug to tractor or self-contained hydraulic
- Parker M3000 Spinner Motors
- Single motor conveyor drive
- BOSS JIC hydraulic fittings
- Case drain ready
- Adjustable flow control valves for speed control on both conveyor and spinners

OPTIONS

Hopper

- 304 Stainless Hopper Construction
- 304 Stainless Rails and Floor
- UHMW Poly-lined 409 Stainless Floor Construction
- 40" Wide Floor; Strictly for shavings use unless triple row chain option is included
- Inverted "V"; extends conveyor chain life by redirecting weight of dense material to hopper sides
- 1/4" plate floor and rails
- 7 gauge sides and ends
- Bolt-on frame
- Bolt on spinner assembly
- Extension brackets and 2 x 8" boards
- 52 Degree sloped sides

Spinners

- 30" Spinners with 11" Blades
- Heat treated and 304 Stainless

Hydraulic

- Series/Parallel Valve for "Hi-Low" function on self-contained systems
- Electric switchbox for in tractor conveyor control
- Rate Control ready with on-spreader Raven controls
- Heavy-Duty Charlynn spinner motors
- Plug to tractor hydraulic gate with metering arm

Conveyor Chain

- D-667XC with 1/2" thick bars spaced every 5th link
- D-88K with 1/2" thick bars spaced every 4th link
- Triple row pintle chain with bars welded between each row
- Bars spaced every link or every other link

Suspension

- Walking-Beam Suspension
- 700/40 Flotation Tires available on Walking-Beam
- 14L X 16.1 in lieu of 12.5 X 15 on 7000# Axles
- 19L X 16.1 in lieu of 16.5 X 16.1 on 10000# Axles

New Leader Litter Spreaders

The L5034G4 compost spreader uses patented technology to spread material farther, wider, and more consistently than other applicator.

- Higher payload capacity and greater material output.
- Precise record-keeping of environmental material applications.
- Get the job done more accurately in less time.



The New Leader L5034G4 is one of the best built and most versatile compost spreader in the industry. Its superior features allow you to cover more ground in less time - while maintaining an accurate spread pattern - to make your business more profitable than ever.

The extra wide 34" (86cm) conveyor and 50° side slopes provide better flow of material and increased output, and the 118" (300cm) wide body increases payload capacity for heavy spreading needs. The non-corrosive stainless steel conveyor floor prevents material build-up under the conveyor, providing longer service life to the overall conveyor system.

The L5034G4 also features dual 30" (76cm) spinners and tandem hydraulic pumps to broadcast material faster and farther, and minimize time in the field. Compared to the average compost spreader, spinner power is increased by up to 50%.



Stainless Steel Roller Chain

Chain#	Connecting Link	Offset Link
WR50SS	AC50C	AC50
2050SS	AC2050C	AC2050



Soil Probe

Part#

40250000

More Soil Probes Sold On Pg. 62

SPREADER - NEW LEADER

L5000G5 Spreaders

The NL5000 G5 hydraulic spinner spreader, with its patented 16-section swath width control technology, lets operators apply fertilizer with pinpoint accuracy. By automatically shifting the spinner assembly fore/aft and left/right, and leveraging the conveyor speed adjustments, operators can reduce overlap, decrease nutrient waste, and ensure nutrients are placed only where they need them, not where they don't.



Precision Application

- 16-section swath width control
- Precise independent spinner control and monitoring
- Automatic feedgate and fan frame control

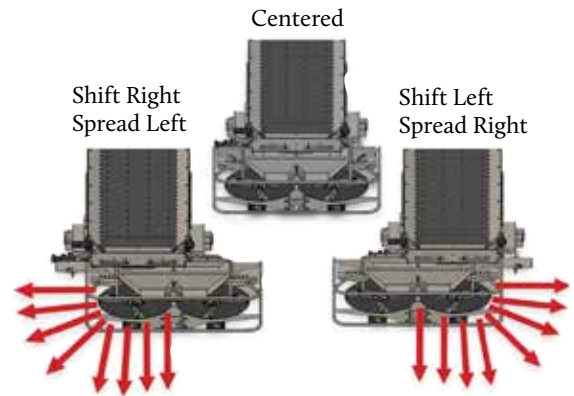
Ease of Use

- Easy-to-use New Leader user interface
- System sensors to monitor spreader performance
- Feed gate optimizer with automatic adjustment

Ease of Maintenance

- Centralized grease banks
- Automatic hydraulic chain tensioning system
- 304 stainless steel cross tubes, mounts, and take-up brackets

Swath Width Control



Spread Pattern Test Kit

Test the pattern of your pull and truck spreaders with this test kit. Includes dividers and catch pans.

Part#
300508



MULTIBIN CROP NUTRIENT APPLICATOR ON THE L5000G5

The MultiBin increases efficiencies by consistently broadcasting materials from three or four bins, independently or together, for straight and variable rate applications. When installed in the L5000G5, the MultiBin transforms a single hopper into three. The micro-nutrient hopper can also be split to create a fourth hopper. The front hoppers dispense fertilizer products while the hoppers at the rear dispense micro-nutrients or seeding products.

The large capacities of each hopper allow users to cover more acres and reduce fill time. The rear bins slope forward to improve chassis weight distribution and a new material divider improves material placement on the G5 spinner for a more effective spread pattern.

Constructed of 403 stainless steel to prevent corrosion, the MultiBin features an optional micronutrient cover which opens and closes with a stainless steel air cylinder, and optional low-bin sensors in each bin to know when to refill. The MultiBin may be easily installed and removed from the L4000G4 for single-bin fertilizer or lime spreading.



NL5000 G5	
Length	in (cm)
13' (3.96m)	188 (478)
14' (4.27m)	200 (508)
Struck Capacity	Cu Ft (Cu M)
13' (3.96m)	276 (7.82)
14' (4.27m)	298 (8.44)
Estimated Weight	lbs (kg)
13' (3.96m)	4900 (2223)
14' (4.27m)	5100 (2313)

MultiApplier	5ft MultiApplier	7ft MultiApplier
Est. Ship Weight	1200 (544 kg)	1400 (635 kg)
	Capacities with 5 ft. MultiApplier Cu ft (Cu M)	Capacities with 7 ft. MultiApplier Cu ft (Cu M)
Insert Capacity	115 (3.25)	161 (4.60)
13' (3.96m) Bin 1 Struck Capacity	224 (6.34)	166 (4.70)
13' (3.96m) Bin Total Struck Capacity	339 (9.59)	327 (9.26)
14' (4.27m) Bin 1 Struck Capacity	253 (7.16)	195 (5.52)
14' (4.27m) Bin Total Struck Capacity	368 (10.42)	356 (10.08)

MultiBin - sideboard included	
Struck Capacity	Cu Ft (Cu M)
13' NL5000 w/ MultiBin - Bin 1	166 (4.70)
14' NL5000 w/ MultiBin - Bin 1	195 (5.52)
MultiBin - Bin 2	143 (4.05)
MultiBin - Bin 3	23 (.65)
MultiBin - Bin 4	21 (.59)
14' Total Capacity	382 (10.81)

MultiBin - Sideboard included	
13' Unit - Bin 1 Length w/ MultiBin (B)	72 in (183cm)
14' Unit - Bin 1 Length w/ MultiBin (B)	84 in (213cm)
Est. Ship Weight	1800 (816kg)

Fertilizer Density Scales

Find weight of fertilizer quickly and accurately. Just fill and level the container with material and slide the weighted balance until bubble appears in level vial. Durable ABS plastic-Red.

Find weight of fertilizer by filling it and balancing on knife blade-White





Peterson's Dust Solutions

About Peterson's Dust Solutions

In the late 1980's, R.C. Peterson became aware that there were health hazards not being addressed when it came to handling grains. He noticed this was not only a farmer's problem but a rising problem on the commercial level as well. Grain dust originates at the time of harvest when farmers first handle the grain. The grain dust continues with each handling from the farmer to the elevators. With that fact in mind and with the rise of Farmers Lung (and other respiratory conditions), which affects everyone in the grain and fertilizer industry, R.C. Peterson decided this needed to be dealt with and he created "Agri Duster."

In the early 90's Randy Peterson started working for his father R.C. Peterson in the dust suppression and electrical industries. R.C. Peterson had created Agri Duster for the dust suppression needs in agriculture. After R.C. Peterson's passing in 2016 Randy Peterson decided to continue with his father's vision and expand into the fertilizer market. Now known as Peterson's Dust Solutions. Peterson's Dust Solutions is expanding to include chemical impregnation on fertilizer and other areas needing a solution.



PDS 1 - An oil system on a fertilizer building



PDS-C1S - This system has 2 application points inside this box



Urea impregnated with nutrasphere - PDS system



Peterson's Dust Solutions - Agricultural Duster System

The benefits of using Peterson's Dust Solution include decreasing the amount of grain or fertilizer product lost in dust and will ...

- Meet EPA emissions standards
- Improve working conditions with reduced dust
- Improve community relations with cleaner air
- Increase employee safety
- Increase airflow for drying grain
- Increase your profits with product retention
- Decrease respiratory stress due to dust inhalation
- Decrease cleaning expenses
- Decrease product loss
- Decrease the wear on your equipment
- Decreases maintenance down time

Grain and Fertilizer Dust Suppression Products

- **PDS-1** This is a single application point system for grain or fertilizer.
- **PDS-1XP** This is a single application point system for grain when the manifold will need to be in a classified location.
- **PDS-2** This is a 2-point application system for grain or fertilizer (2 different dumping locations or 2 different flow rates required)
- **PDS-2XP** This is a 2-point application system for grain when the manifold will need to be in a classified location (2 different dumping locations or 2 different flow rates)
- **PDS-C1** This is a self-contained chemical impregnation system for applying 1 chemical.
- **PDS-C1S** This is a split chemical system with the manifold in a heated Stainless-steel enclosure. The pump is in a heated building and the lines between the 2 are heat traced stainless steel and insulated.



Applications

- Farm Trucks
- Grain Carts
- Grain Wagons
- Fertilizer Spreaders
- Tender Boxes
- Belly Dump Trailer

MANUAL

ELECTRIC



ROLL TARP SYSTEMS

SRT-2® Spool Roll Tarp

- **Spring loaded spools** provide consistent tarp tension at any stop point while rolling and unrolling, even in windy conditions
- **Tension ratches** allow for fine tuning tarp tension during initial install, no need to adjust
- **Extra Durable 3" aluminum roll tube** is strong, yet lightweight offering a faster and straighter roll
- **Rope channel design** creates uniform tarp tension for a better fitting and longer lasting tarp
- **Telescoping crank handle with flex drive system** rolls and unrolls tarp at many angles with ease
- **Premium commercial grade**, 18 oz vinyl fabric



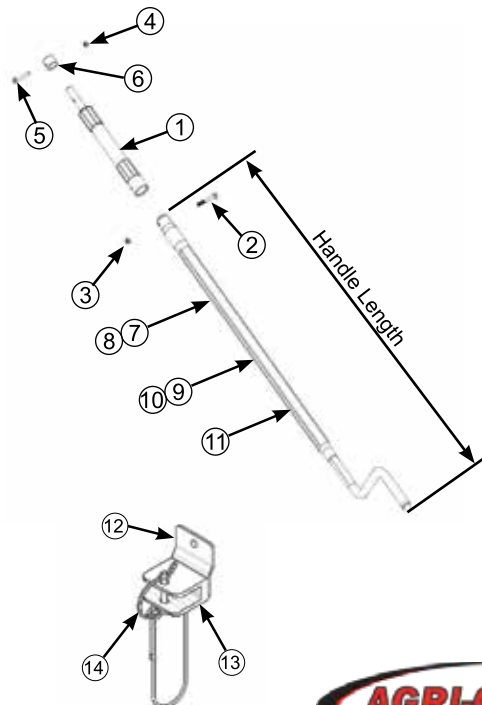
Roltec Electric Tarp Conversion

- **Motor** controls the tension of the tarp, when heaped loads settle, touch switch to tighten tarp
- **Worm gears** create an instant, positive lock
- **Pivot arm motor mount** allow roll tube to rise and flex over heaped loads, reducing stress on the drive components and pivot arm
- **4 springs** create positive return tension when closing the tarp system, no elbows or joints to break
- **Universal mounting bracket** is sturdy, lightweight, with a universal fit



SPOOL ROLL TARP CRANK HANDLE PARTS

TELESCOPIC HANDLES, FLEX DRIVE AND HOLDERS		
Item	Part #	Description
1	70150	Flex Drive Hose w/ welded shaft
2	60939	Bolt, 5/16" x 2-1/4" Zinc Plated
3	60067	Nut, Hex Nyloc 5/16" Zinc Plated
4	10178	Nut, Hex Rev Lock 5/16" Zinc Plated
5	10894	Bolt, 5/16" x 1-3/4" GR5 Hex Zinc Plated
6	10734	Spacer, PVC 1" Long
7	70606	Telescoping Crank Short (handle only) extends to 7' 2"
8	70614	Telescoping Crank, Short w/ Flex Drive (no holders) extends to 7' 2"
9	70649	Telescoping Crank, Long (handle only) extends to 11' 6"
10	70657	Telescoping Crank, Long w/ Flex Drive (no holders) extends to 11' 6"
11	70686	Telescoping Crank, Xlong (handle only) extends to 12' 10"
12	70235	Stainless Steel Swivel w/Crank Holder (Nylon) w/Pin
	10893	Bolt, 3/8" x 1" Self Tapping HHD Zinc Plated
	30675	Bolt, 3/8" x 1" Galvanized & Loctite Prepped
	30656	Bolt, 3/8" x 1" Stainless Steel & Loctite Prepped
13	10733	Nylon Crank Holder (No Swivel or Hardware)
14	10887	Pin, 1/4" x 2" Tab Lock Zinc Plated (Snap Pin)
	50600	PVC Spacer, Bolt & Nut Kit (For Stainless Steel)



AUTOLOCK® Electric Tarp

- **Motor** is constructed of stainless steel housing and sprocket with nickel plated chain which are durable and resistant to corrosion
- **Unique Dual Drive system** has a wind resistant design featuring a strong synthetic cable and tension spring that work together to provide a powerful front and rear drive to cover your load
- **Rotating and telescoping motor mount** allows roll tube to rise and flex over heaped loads, reducing stress on the drive components and pivot arm
- **Extra durable 3" aluminum roll tube** is strong, yet lightweight offering a faster and straighter roll



EZ-LOC® Roll-Up Tarp

- 2" aluminum roll tube is rust resistant and strong, yet lightweight to minimize tarp wear
- Rope channel design creates uniform tarp tension for a better fitting and longer lasting tarp
- Custom end caps with crimped standing seam is self sealing, flexible with no welds to break
- Commercial grade, 18 oz vinyl fabric remains flexible at -40°
- Quick release aluminum tarp stops with integrated set screw
- Heavy duty zinc plated U-joint with 21 splines for fine tuning tarp tension



LOMAX® FOLDING HARD TONNEAU COVERS LOW PROFILE TRI-FOLD TRUCK BED COVER

LOMAX® Hard Tonneau Covers deliver maximum strength, added security and industry changing style. The sturdy construction combined with the automatic ten point locking system protects your truck bed to the max while the ultra low profile design leaves a powerful impression. Each hard tri-fold cover is built in North Dakota with premium materials, state of the art technology and the highest caliber of workmanship. We call it LOMAX® you will call it your next folding tonneau cover.

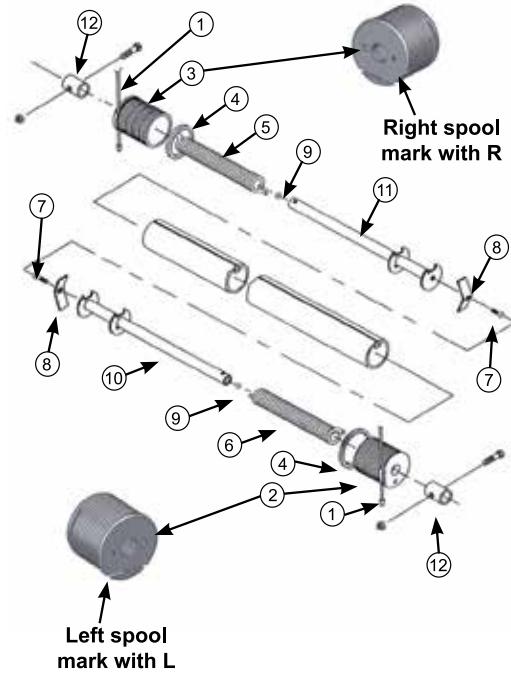


SRT-2® HARDWARE

SRT-2® SPOOL ROLL TARP PARTS

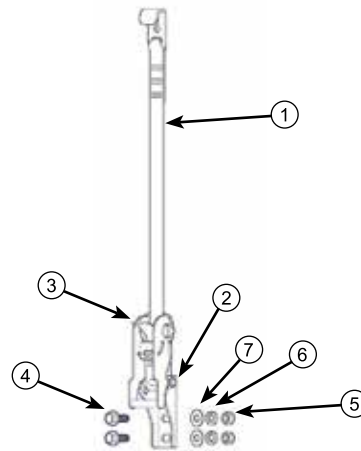


CABLES		
Item	Part #	Description
1	10941	Cable 139" Stainless Steel (Up to 102" wide box)
SPOOLS		
Item	Part #	Description
2	20547	Spool, Left Front 3" Nylon (Up to 120" wide box)
3	20548	Spool, Right Rear 3" Nylon (Up to 120" wide box)
	30655	Spool Grease (3/4 oz. Tube, Teflon Grease)
4	30553	O-Ring Kit (includes 2 rubber rings)
CARTRIDGES		
Item	Part #	Description
	40835	Cartridge ASM, Rear P/C For Stainless Steel Kits (Cartridge, Clamp, Bolt & Nut)
	40812	Cartridge ASM, Front P/C For Stainless Steel Kits (Cartridge, Clamp, Bolt & Nut)
7	40961	Bolt, Carriage 5/16" x 1" Zinc Plated
8	10331	Clamp (For Cartridge) For Galv. & Stainless Steel Systems
9	60067	Nut, Hex Nyloc 5/16" Zinc Plated
10	10607	Powder Coated Cartridge (Front Left)
11	10608	Powder Coated Cartridge (Rear Right)
12	50600	PVC Spacer, Bolt & Nut Kit (For Stainless Steel)
SPRINGS		
Item	Part #	Description
5	40983	Spring Front Powder Coated Black (For Stainless Steel Kits)
6	40982	Spring Rear Powder Coated Red (For Stainless Steel Kits)



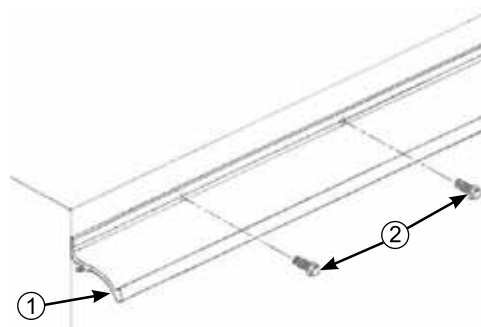
CABLE RATCHET & STRAP

SRT-2 CABLE RATCHET AND STRAP 1" WIDE		
Item	Part #	Description
	80043	Ratchet w/ Adjustable Stainless Steel Bracket, Short Strap and Hook Stainless Steel
1	70989	Ratchet Strap Short w/ Stainless Steel Hook (1")
2	71004	Bracket Adjustable Stainless Steel
3	80033	Ratchet Only Stainless Steel
4	10927	Bolt, 3/8" x 1" GR5, Stainless Steel, 2 Required
5	10928	Nut, 3/8" Stainless Steel
6	10929	Washer, Lock 3/8" Stainless Steel
7	10930	Washer, Flat 3/8" Stainless Steel



LATCH PLATE

LATCH PLATE		
Item	Part #	Description
1	10260	Latch Plate (EZ-LOC, AUTOLOCK and ROLTEC tarps)
2	10927	Bolt, 3/8" x 1" GR5, Stainless Steel, 2 Required
	10928	Nut, 3/8" Stainless Steel
	10929	Washer, Lock 3/8" Stainless Steel
	10930	Washer, Flat 3/8" Stainless Steel





LITERIDER ORIGINAL LIMITED			LITERIDER ORIGINAL LIMITED		
YEAR	CHEVY/GMC (Full Size Short Bed & Standard Bed)		YEAR	DODGE (Full Size Long Bed) Cont.	
15-ON	Chevy/GMC 2500, 3500 6' 6" Bed (w or w/out cargo rails)	32329 12329 22329	02-08	Dodge Ram 1500 8' Bed	34129 14129 24129
14-ON	Chevy/GMC 1500 5' 8" Bed	32319 12319 22319	03-09	Dodge Ram 2500, 3500 8' Bed	34129 14129 24129
14-ON	Chevy/GMC 1500 6' 6" Bed	32329 12329 22329	FORD/LINCOLN (Full Size Short Bed & Standard Bed)		
07-13	Chevy/GMC Full Size 5' 8" Bed (w or w/out cargo rails)	32309 12309 22309	15-ON	Ford F150 5' 6" Bed	31369 11369 21369
07-13	Chevy/GMC Full Size 6' 6" Bed (w or w/out cargo rails) & 2014 2500, 3500 6' 6" Bed	32289 12289 22289	15-ON	Ford F150 6' 6" Bed	31379 11379 21379
04-07	Chevy/GMC Full Size 5' 8" Bed	32269 12269 22269	04-14	Ford F150 5' 6" Bed (Except 04 Heritage)	31269 11269 21269
99-07	Chevy/GMC Full Size 6' 6" Bed	32199 12199 22199	04-14	Ford F150 6' 6" Bed (Except 04 Heritage)	31279 11279 21279
CHEVY/GMC (Full Size Long Bed)			08-14	Ford F150 6' 6" Bed with Side Rail Kit	31359 11359 21359
15-ON	Chevy/GMC 2500, 3500 8' Bed (Includes Dually)(w or w/out cargo rails)	32339 12339 22339	06-09	Lincoln Mark LT 5' 6" Bed	31269 11269 21269
14-ON	Chevy/GMC 1500 8' Bed	32339 12339 22339	07-09	Lincoln Mark LT 6' 6" Bed	31279 11279 21279
07-13	Chevy/GMC Full Size 8' Bed (Includes Dually)(w or w/out cargo rails) & 2014 2500, 3500 8' bed	32299 12299 22299	08-ON	Ford Super Duty F250, F350 & F450 6' 8" Bed	31339 11339 21339
99-07	Chevy/GMC Full Size 8' Bed (Except Dually)	32189 12189 22189	99-07	Ford Super Duty 6' 8" Bed	31319 11319 21319
01-07	Chevy/GMC Dually 8' Bed	32229 12229 22229	FORD/LINCOLN (Full Size Long Bed)		
DODGE (Full Size Short Bed & Standard Bed)			15-ON	Ford F150 8' Bed	31389 11389 21389
09-ON	Dodge Ram 5' 7" Bed (with RamBox)	34199 14199 24199	04-14	Ford F150 8' Bed (Except 04 Heritage)	31289 11289 21289
09-ON	Dodge Ram 5' 7" Bed	34169 14169 24169	08-ON	Ford Super Duty F250, F350 & F450 8' Bed	31349 11349 21349
12-ON	Dodge Ram 6' 4" Bed (with RamBox)	34229 14229 24229	99-07	Ford Super Duty 8' Bed	31309 11309 21309
09-ON	Dodge Ram 6' 4" Bed	34179 14179 24179	TOYOTA (Full Size Short Bed & Standard Bed)		
10-ON	Dodge Ram 2500, 3500 6' 4" Bed	34179 14179 24179	07-ON	Toyota Tundra 5' 6" Bed without Deck Rail	35209 15209 25209
10-ON	Dodge Ram Mega Cab 6' 4" Bed	34179 14179 24179	07-ON	Toyota Tundra 5' 6" Bed with Deck Rail	35239 15239 25239
06-09	Dodge Ram Mega Cab 6' 4" Bed	34139 14139 24139	07-ON	Toyota Tundra 6' 6" Bed without Deck Rail	35219 15219 25219
02-08	Dodge Ram 1500 6' 4" Bed	34139 14139 24139	07-ON	Toyota Tundra 6' 6" Bed with Deck Rail	35249 15249 25249
03-09	Dodge Ram 2500, 3500 6' 4" Bed	34139 14139 24139	04-06	Toyota Tundra Double Cab 6' 2" Bed	35169 15169 25169
DODGE (Full Size Long Bed)			00-06	Toyota Tundra 6' 4" (Fits T-100)	35089 15089 25089
09-ON	Dodge Ram 1500 Quad Cab & Reg Cab 8' Bed	34189 14189 24189	TOYOTA (Full Size Long Bed)		
10-ON	Dodge Ram 2500, 3500 8' Bed	34189 14189 24189	07-ON	Toyota Tundra 8' Bed without Deck Rail	35229 15229 25229
Toolbox Edition available			07-ON	Toyota Tundra 8' Bed with Deck Rail	35259 15259 25259
			00-06	Toyota Tundra 8' Bed (Fits T-100)	35119 15119 25119
			Tested. Trusted. Guaranteed.		



CONVEYORS INC

- Undercar Conveyors
- Cleated Belt Conveyors
- Truck Load out Conveyors
- Underbin Conveyors

Convert your dry fertilizer tender to a combination seed or fertilizer unit.



R&R DRY HANDLING EQUIPMENT

DRY EQUIPMENT

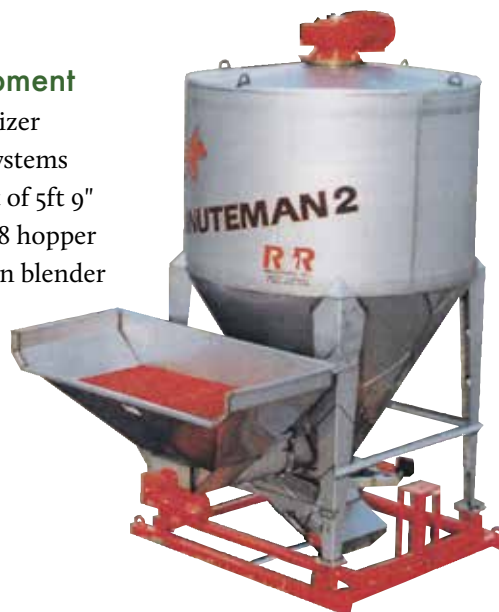
Do you need a new dry plant? Or maybe just some new conveyors for your current dry plant? Call Fairbank and we will do an on-site evaluation to help streamline your facility with R & R Dry Handling Equipment.



R&R Fertilizer Handling Equipment

Minuteman 2 Fertilizer Weigh and Blend Systems

- Low inload height of 5ft 9"
- Unobstructed 4 x 8 hopper
- Only 25hp for 8 ton blender
- No Belts



Undercar Chainbelt, Elevating Undercar



Portable Conveyors



MERIDIAN BINS

Seedmax Bins

Meridian's smooth-wall SeedMax Storage Bins have been designed specifically to accommodate any type of dry flowable seed products. Our product offering includes a variety of sizes ranging from 500 bushels up to 5,000 bushels. Bulk Seed Storage sites are designed by our trained dealers, in any bin size configuration to accommodate your operation. Seed Max bins are designed to provide you the safest and most cost effective storage solution for your seed products.

FEATURES

- Internal Seed Ladder
- Cone manway
- Access ladder
- 25" Vented remote lid
- Roof manhole
- Two view glasses
- Rack and pinion slide gate
- 36" Clearance
- Welded seam construction
- Enamel top coat exterior
- Probe hole—for seed sampling
- 40° cone bottom



ACCESSORIES

- Electric rack & pinion slide gate
- Steel Base
- Ladder cage packages
- Aeration

Authorized Dealer



Multi-Purpose Fertilizer Bins

Meridian Built Fertilizer Bins are the most versatile, multi-purpose hopper bins available today. Used most often to store and handle fertilizer, grain, feed and seed, their versatility extends to coal, sand and any other free-flowing, dry granular commodity.

Historically, many farmers view the Fertilizer Bin as too costly for anything but fertilizer storage. However, in recent years, the advantages of "smooth-wall hopper storage" has farmers everywhere saving time and money with Meridian multi-purpose bins. Now they're saying, "Wish we had bought them sooner!"

Each Meridian Built Fertilizer Bin offers heavy-duty, No Compromise construction. These tough bins are completely pre-welded, inspected, and then treated with Meridian's Premium powder coating inside and out. The special powder chemistry allows for many years of corrosion and abrasion resistance even with fertilizer storage.

FEATURES

- All welded, smooth-wall construction
- HSS (Hollow structural steel) legs and bracing
- Premium Rack-n-Pinion slide gate with crank
- Full sidewall and roof ladder with retractable bottom safety
- Vented Top Lid - Spring loaded/ground operated
- Min. 40° bottom cone and 35° roof cone
- 25" top opening
- 24" clearance under the slide gate

ACCESSORIES

- Aeration Systems
- Bottom Manway
- Roof Manhole
- Bin Level Indicators
- Poke Hole
- Ladder cage
- Ladder handrails
- Bean ladders
- Steel Base



Authorized Dealer

MERIDIAN

With the grower in mind, Meridian offers a variety of bulk seed tenders to satisfy any size of operation. Meridian's lineup starts with the 112BST, which has a single compartment and polycup auger and extends to the 405SLD which has two compartments and a multitude of features. The 112BST and 225RST both have 6" polycup augers and a variable speed switch mounted at the end of the spout so you can control how much seed you are putting in. Their proven design is very user friendly and has been helping fill planters for many years. With the growth of the bulk fill planters, Meridian was asked to develop a seed tender to meet the need for self loading. Meridian's model, which features our Patented Cleated Conveyor Belt, starts with the 240 which has features such as hydraulic raise/lower and belt operation of a 6" conveyor. The 240RT and 375RT models have standard features such as a 5 function wireless remote which controls: engine start/stop, hydraulic gates, conveyor swing, conveyor elevation and conveyor belt movement. Both RT models provide the grower the choice between a 6" conveyor with an 8" cleated belt or an 8" conveyor with a 12" cleated belt, as well as the ability to weigh product with an optional scale package. Meridian's 405SLD features a 6" conveyor with an 8" cleated belt or an 8" conveyor with a 12" cleated belt which is hydraulically raised/lowered and driven. The conveyor on the 405SLD manually swings easily from front to rear of the tender - simply position the conveyor, open the gate open and engage the conveyor. With the 12" belt you can move up to 2,500 lb/min so your planet box will be full in a short amount of time. Like Meridian's RT model, the 405SLD has a wireless remote with the addition of a scale display built into the remote, giving you the ability to do other tasks while filling your boxes. Add the "Auto Convey" option and filling the seed box just got easier. Set the system to the desired amount and push the button and you can go focus on other items. Lastly, through the many years Meridian has been producing seed tenders we have seen the growing need for scales, talc/ graphite applicators and automated filling. In response, we have developed solutions to meet these requirements. Please ask your dealer about everything Meridian has to offer you.



DRY EQUIPMENT

240 Basic

Capacity: 240 Units/192 Bushels

Meridian Seed Express® Bulk Seed Tenders are manufactured to accommodate multiple objectives and operations, with the largest selection in the seed handling industry. We take the work out of loading seed into your planter or drill, decreasing the downtime in the field, and keeping your tractor and planter moving. We've optimized our tenders for various seed products and our service begins by helping select the unit with the options and accessories to best suit your farming operation.

Standard Features:

1. 6" x19' conveyor tube with 8" patented cleated belt
2. Unloads up to 1200lbs/minute
3. Hydraulic variable speed conveyor
4. Agri-cover spool tension tarp
5. Easy access ladder
6. 180° conveyor swing
7. High impact powder coat exterior
8. Electric start Honda motor
9. 3 tier spout with remote switch
10. (2) view glasses
11. Hydraulic raise/lower
12. 2 5/16" ball hitch
13. Bumper hitch trailer with 7000lb torsion axles with electric brakes
14. High impact powder coat exterior
15. Sample gates US Patent #6396003



WACKER NEUSON

ARTICULATED WHEEL LOADERS

All Wacker Neuson loaders are available with an air conditioned cab, heating with fan and defrost vents. They have articulated steering and come in a variety of different sizes for whatever your need. Call us to get yours today!



WACKER NEUSON
all it takes!



Overall Length w/bucket	203.1"
Overall Width	61.8"
Overall Height	100.4"
Bucket Capacity	.75 cu yd
Tipping Load /bucket straight	8,199 lbs
Tipping Load /bucket articulated	6,863 lbs
Operating Weight	9,480 lbs
Deutz TCD 2.9 L4 Tier IV Final turbo diesel	
Air Conditioned	

WL38 Extra Performance and Comfort

The WL38 wheel loader offers with an extraordinarily high hydraulic output and various motors you can select – both the best values in its performance class. With the P-Z kinematics, the WL38 offers high breakout forces and first-class parallel guidance. All this combined makes for impressive performance, allowing the flexible use of attachments. The machine is ideally equipped for different work tasks. The cab, with its extremely generous design, offers the operator extra comfort and ergonomics and makes working with the machine easy.



ARTICULATED WHEEL LOADERS**WL28 Compact and Powerful**

Transporting heavy loads through tight spaces is the ideal operational area for the WL28 wheel loader. It can easily handle pallets of paving stones or other material up to 3,500 lb. The electronically-controlled travel drive with various travel modes enables extremely productive work using the machine. The low-designed cab ensures excellent visibility and high tipping loads. Because of the outstanding visibility, the machine offers exceptional safety during operation. The low operating weight also allows the WL28 to be transported on a car trailer..

Overall Length w/bucket	178.0"
Overall Width	44.4"
Overall Height	91.8"
Bucket Capacity	.5 cu yd
Tipping Load /bucket straight	4,145 lbs
Tipping Load /bucket articulated	3,395 lbs
Operating Weight	7,275 lbs
Air Conditioned	



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**WL34 The Ideal Entry-Level Model**

Low profile design, outstanding economic efficiency and maximum performance in loading and transporting are key benefits of the WL34 wheel loader. It is the ideal entry-level model in the compact class with 0.7 yd³ bucket capacity. It combines power, reliable hydraulics and compact dimensions with sophisticated technology and a convincing price-performance ratio. A durable tool that efficiently manages a high workload.

Overall Length w/bucket	197.2"
Overall Width	61.0"
Overall Height	93.7"
Bucket Capacity	.75 cu yd
Tipping Load /bucket straight	6,449 lbs
Tipping Load /bucket articulated	5,386 lbs
Operating Weight	8,598 lbs
Deutz TCD 2.9 L4 Tier IV Final turbo diesel	
Air Conditioned	



WACKER NEUSON

ARTICULATED WHEEL LOADERS



WACKER NEUSON
all it takes!

WL52

Beside powerful hydraulics, the WL52 wheel loader offers extremely easy-to-use joystick pilot control. The cab is characterized by outstanding ergonomics, clear arrangement and comfort. This makes fatigue-free work possible for the operator even on long workdays. The WL52 is a powerhouse, impressive with high breakout forces and large tipping cylinders. Ideally suited for frequent material transport and many loading cycles.



Overall Length w/bucket	213.5"
Overall Width	71.3"
Overall Height	105.3"
Bucket Capacity	1.1 cu yd
Tipping Load /bucket straight	8,706 lbs
Tipping Load /bucket articulated	7,531 lbs
Operating Weight	11,244 lbs
Deutz TCD 2.9 L4 Tier IV Final turbo diesel	
Air Conditioned	



WL60

The WL60 is the most powerful compact wheel loader in its size class. Powered by a 102HP Tier 4 Final engine, the WL60 delivers unmatched power and performance. The WL60 offers the speed and payload to handle a variety of job site needs. With a universal hydraulic attachment plate and standard hydraulic flow (26 gpm) or high flow (40 gpm), changing and operating existing or new attachments is quick and easy. A class-leading hinge pin height of 12 feet allows for loading and unloading high sided dump trucks and hoppers. The articulated joint allows for the unit to be highly maneuverable especially in tight working conditions.



Overall Length w/bucket	232.3"
Overall Width	72.0"
Overall Height	107.1"
Bucket Capacity	1.3 cu yd
Tipping Load /bucket straight	8,100 lbs
Tipping Load /bucket articulated	6,682 lbs
Operating Weight	13,007 lbs
Perkins 904J-E36TA Tier IV Final turbo diesel	
Air Conditioned	

ALL-WHEEL STEER WHEEL LOADERS**5055**

The compact model 5055 is an all-wheel steer wheel loader and became known as the "550". The clearance width on this machine is under 62.20 in., so working in space-constrained environments is not a problem. The concept of the undivided frame provides excellent visibility of the front attachment area as well as the rear attachment area and simplifies the change of attachments immensely. The optionally available load stabilizer enables smooth and safe driving behavior even during handling operations, as vibrations of the loading equipment are damped.

**8085**

The 8085 wheel loader sets new standards in terms of technology, performance and comfort. The efficient high-pressure traction drive and the 100% engageable differential lock enable maximum thrust and best traction in daily use. The undivided frame also ensures high stability and enormous maneuverability in this machine. The large and comfortable cabin completes the equipment of the wheel loader.

**8085T****Telescopic wheel loader**

The powerful 8085T is equipped with a Deutz engine and the telescopic loading system allows more reach as well as stacking height. In order to continue to provide good visibility at these heights, the loading system is designed for optimum visibility. In addition, the undivided vehicle frame of this model also ensures constant payload and stability.

TELEHANDLERS**TH412**

All wheel steering, low centre of gravity and excellent stability distinguish the TH412 telehandler. The integrated driver assistance system VLS (Vertical Lift System) ensures safety, while also increases the operator comfort. The electronically regulated drive system with various operator modes enables an externally productive work operation with the machine. Thanks to its low operating weight and very compact dimensions, the TH412 can be transported on a car trailer without any problems. This makes its flexible for use in many different areas.

**TH627**

If stacking heights of 6 meters are involved, the telehandler TH627 is the ideal solution. With a payload of 2.7 metric tonnes, it remains stable even during extreme loading processes. The numerous option variants make the TH627 a real all-rounder on the construction site. With two cabin variants, the vehicle offers a low overall height or, with the high cabin, an even better all-round visibility.



SKID STEER LOADERS

Wacker Neuson offers a finely tuned product range of skid steers, utility track and compact track loaders. All models are designed to handle tough applications. The vertical lift skid steers and compact track loaders offer high hinge pin heights, the best service accessibility in the industry, and provide comfortable cabs with simple operation. The versatile stand-on utility track loader with its narrow design is perfect for confined spaces such as landscape work and homeowner projects.



SKID STEER LOADERS

Our skid steers are designed to meet tough applications with comfortable operation and optimum performance. The high-visibility cab is easy to enter and exit and features conveniently located switches. All Wacker Neuson skid steers offer best-in-class daily service access. The cab fully tips forward with loader arms down for complete access to all maintenance components.

TRACK LOADERS

Our compact track loaders are built with a rugged open-design undercarriage for easy cleaning and drive motors that provide high torque for maximum pushing power, efficiency and less noise. Reduced ground pressure minimizes disruption to the work area. All models feature comfortable cabs with intuitive operating controls, excellent visibility, easy entry and exit, and best-in-class service accessibility.

UTILITY TRACK LOADER

The versatile, stand-on utility track loader is designed with a variety of operator comfort features and offers a durable, low maintenance design to reduce maintenance costs. The perfect fit for landscape projects, light site work, grading and general material handling. The overall narrow width fits through doorways, gates and other tight spaces.





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SKID STEER LOADERS

**DRY
EQUIPMENT**



SW 20

The Wacker Neuson SW20 provides exceptional value by pairing an efficient 56 hp T4F engine with optimized vertical path lift arm design. Operators have the performance they need, with up to 124 in of lift height, excellent reach at full and smooth controls, the SW20 is the ideal machine for loading anything from a tri-axle dump truck to a feed mixer.



SW 21

The Wacker Neuson SW21 has the power and performance to take on the toughest jobs. Powered by 74hp regeneration-free T4F engine, and available with High Flow hydraulics, the SW21 maximizes the performance of your hydraulic attachments.



SW 28

With 2,800 lb rated operating capacity and lift height up to 134.8 in, the SW28 delivers the muscle and reach to maximize material handling productivity. The SW28 is fast and efficient, with a hydrostatic drive system and radial piston drive motors that run cooler allowing for all-day performance on the most demanding job sites.



SW 32

The SW32 is the most powerful and largest Skid Steer Loader in the Wacker Neuson product line. Versatile and comfortable, the SW32, has the speed and control to maximize efficiency. Equipped standard with 2-speed and a color 5.7" multi-function display, allowing in-cab control customizations, the SW32 will enhance productivity on any jobsite.



SM100

The versatile, stand-on utility track loader is designed with a variety of operator comfort features and offers a durable, low maintenance design to reduce maintenance costs. The perfect fit for landscape projects, light site work, grading and general material handling. The overall narrow width fits through doorways, gates and other tight spaces.



ST 31

The ST31 matches the compact size of a medium frame with lift capacity of larger loaders. The vertical lift arm, 125 inch lift height and 74hp regeneration free engine, make the ST31 an accomplished material handler, perfect for use in a wide range of applications, from moving palletized material around a construction site to truck loading.



ST 45

The ST45 is a large versatile machine. The vertical lift arm makes it perfect for unloading pallets of pavers or stone from trucks and distributing them around the jobsite. The 74hp regeneration-free engine provides easy maintenance and no interruptions to the workday, meaning more up time and greater productivity.



ST 45

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TRACKED CONVENTIONAL TAIL EXCAVATORS



ET 42

Full speed ahead: the ET42 mini-excavator combines proven technology with a large dose of innovation to lead the 4-metric ton class. It has the usual high lifting and digging forces, as well as fast work cycles. Thanks to modern technologies, emissions are reduced while efficiency is increased. The ET42's powerful engine meets Stage V emissions standards. The intuitive operating concept means this powerhouse is both user-friendly and comfortable for the operator, while offering an excellent view of the working area.



803

The 803 is the smallest Wacker Neuson excavator - but leaves absolutely nothing to be desired in terms of performance. Its narrow width of only 27.58 inches allows it to fit perfectly through interior doors, while its rubber tracks protect the flooring. Special attention was paid to the hydraulic performance. Attachments, such as the tuned Wacker Neuson hydraulic breaker, can be operated without any problems using the standard auxiliary hydraulics. With the optional electro-hydraulic unit (HPU), the mini-excavator is ideal for emission-sensitive job sites and can be operated with the same output electrically, with no fumes



ET 20

The ET20 compact excavator not only shows what it can do with its powerful drive system, but also offers a variety of innovative features and options. The ET20 achieves excellent excavation results and stability thanks to its specially developed longer travel gear and boom. The hydraulically pilot-operated drive pedals allow the excavator to be controlled precisely with the feet.



ET 58

Full speed ahead: The ET58 mini excavator combines proven technology with a large dose of innovation to become a champion in the 5-6-metric-ton class. It has the usual high lifting and digging forces as well as fast work cycles. Thanks to the latest technologies, emissions have been reduced and efficiency has been increased at the same time. The powerful engine meets the Stage 5 emission standards. The excavator also makes an impression in terms of user-friendliness. Work is easy and comfortable due to the intuitive operating concept and the excellent view of the working area.



ET 90

The fuel consumption of the ET90 is up to 20 percent lower than with comparable models - this reduces the operating costs significantly. At the same time, it produces outstanding results in applications with an excellent engine and hydraulic performance. This efficient combination provides for first-class digging power with up to 20 percent more bucket breakout force. Conversely, the economical load sensing hydraulic system allows for very precise lifting arm movements with full output at the same time. Whether power or precision, the ET90 is exactly the right 9-ton excavator for any application.



ET 65

The ET65 is an excavator that users want. A high-performance machine that surprises with its compact design and maneuverability. The strong excavation performance thanks to high digging forces and the powerful engine are additional plus points that make the excavator an all-rounder on the construction site.

TRACKED ZERO TAIL EXCAVATORS**EZ 36**

Get in and start working – with the EZ36, performance meets maximum efficiency. This zero tail excavator is ideal if compact dimensions are needed. Minimal rear overhang makes working along walls and other obstacles an easy task. The machine features intuitive operation using a joystick, display and jog dial, as well as a comfortable working environment. This leaves the operator in full control of the application. Configurable to meet a customer's requirements, the EZ36 offers dealer-installed options, including a hydraulic thumb and rotating beacon.

**EZ 26**

The EZ26 compact excavator offers a modern design, flexibility and operator-friendliness. Need to move to the next job with a trailer? No problem! The low weight of this model allows transport including an attachment with a 3,5-metric ton trailer. An innovative front windshield offers great ventilation for comfort and easier communication between operators and co-workers on the job site. The EZ26 offers exceptional ergonomics with joystick mount, wide cab entry and well-placed operating and display elements.

**EZ 17**

The EZ17 compact excavator is the most powerful zero tail excavator in its class. The large-volume diesel engine, LUDV (Load Sensing System) and an innovative cooling system provide the highest levels of performance and efficiency. The compact and durable design guarantees a long service life. The EZ17 offers the operator an unrestricted field of vision through the roof window.



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TRACKED CONVENTIONAL TAIL EXCAVATOR**ET 145**

The ET145 is one of the world's largest compact excavators, providing the power and performance of a larger model in a more compact package. It offers a perfect balance of power, maneuverability and stability. The ET145 features the most up-to-date innovations for comfortable and intuitive operation to tackle even bigger jobs.

**EW 65**

Wheeled Excavator

**EW 100**

Wheeled Excavator

**EZ 50**

Full speed ahead: The EZ50 mini-excavator offers excellent lifting and digging power as well as quick work cycles. Using the newest technologies, the emissions of the mini-excavator were reduced and, at the same time, the efficiency increased. For example, the powerful engine in the EZ50 meets the stage 5 exhaust emission standards. In terms of operator-friendliness, the excavator is impressive. The intuitive operating concept and excellent view of the work area contribute to the easy and comfortable operation of the machine. The EZ50 is also a zero-tail excavator and is well suited for working in narrow spaces.

DUMPERS



TRACK DUMPERS DT 10

The hydrostatic drive system allows for quick and convenient operation and the single-piece engine hood, as well as the optimal arrangement of the service points, make daily maintenance much easier. The rubber tracks and the excellent weight distribution reduce the ground pressure, ensuring more extensive application uses. The variety of skip versions make it a very versatile machine.



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WHEEL DUMPER DW 30

The all-wheel drive system and the constant tractive force combined with the articulated pendulum joint and the gradeability of up to 50% make the DW30 a real off and on-road pro. At the same time, the low service and maintenance costs associated with it are impressive. An engine with higher performance that gives the DW30 additional power is also available as an option. The optional cab is a benefit when working in the rain, cold or heat. The intuitive operating concept with joystick controls and clearly arranged instrument panel allows the operator to concentrate fully on the task. The high swivel tip skip with tilt sensor fulfills the requirements for all applications. Long maintenance intervals reduce required maintenance to a minimum, saving money and time.



DUAL VIEW DUMPERS DV 60

The all-wheel drive system and the constant tractive force combined with the articulated pendulum joint and the gradeability of up to 50% make the DW30 a real off and on-road pro. At the same time, the low service and maintenance costs associated with it are impressive. An engine with higher performance that gives the DW30 additional power is also available as an option. The optional cab is a benefit when working in the rain, cold or heat. The intuitive operating concept with joystick controls and clearly arranged instrument panel allows the operator to concentrate fully on the task. The high swivel tip skip with tilt sensor fulfills the requirements for all applications. Long maintenance intervals reduce required maintenance to a minimum, saving money and time.

COMPACTORS RAMMERS



ELECTRIC 2 STROKE 4 STROKE

In 1930, Hermann Wacker invented the first vibratory rammer. At that time, this was a real innovation. Today, we continue to make new paths with our battery-powered vibratory rammers.

VIBRATORY PLATES



SINGLE DIRECTION OR REVERSIBLE

We offer an extensive product line of light and heavy single-direction and reversible models as well as remote-controlled vibratory plates.

ROLLERS



No matter what the job site requirements, Wacker Neuson has the perfect roller to fit the job. Whether it's a ride-on for a large area of soil or asphalt compaction or our remote-controlled trench roller, our comprehensive selection of rollers will get the job done easily and efficiently.



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NEUSON**
all it takes!

MISCELLANEOUS WORKSITE EQUIPMENT

DRY EQUIPMENT



LTV LIGHT TOWERS:

Compact Vertical Mast - Versatile light towers deliver exceptional lighting

The LTV4L and LTV6L light towers combine the features and performance of traditional light towers in a small footprint. They are ideally suited for illuminating general job sites, site prep, concrete pours, specialty events, parking lots, road work and bridge work. The adjustable vertical mast extends 23 feet and can rotate 360 degrees for optimum lighting flexibility. The Dual View and almost make it the safest place on the construction site.



PUMPS



INDUSTRY

- AGRICULTURE
- FERTILIZER
- LANDSCAPING
- OIL & GAS
- CONCRETE
- CONSTRUCTION

GENERATORS



HEATERS



HYDRONIC SURFACE HEATERS

INDIRECT-FIRED AIR HEATERS

CONCRETE TECHNOLOGY



INTERNAL VIBRATORS EXTERNAL VIBRATORS FREQUENCY CONVERTER VIBRATORY SCREED

BANDIT CHIPPERS & STUMP GRINDER

12XP - INTIMIDATOR™

The Intimidator™ 12XP is the most rugged of three 12" capacity drum chippers offered. With a wide variety of engine options available ranging from 49.4 to 145 horsepower and features and options like the standard hydraulic lift cylinder and optional hydraulic winch, the 12XP is one of the most versatile 12" capacity drum-style chippers available on the market.

Capacity: 12" Diameter
Throat Opening: 14-1/2" h x 17" w
Engine Options: 49.4 - 145 HP

Length: 13' 5"
Width: 6' 8"
Height: 8' 1"
Weight: 5,500 lbs.

250XP

The ultimate hand-fed disc-style chipper with a highly productive feed system. Oldest Model in Bandit's hand-fed line up, has been around since 1990!

Capacity: 12" Diameter
Throat Opening: 12-1/2" h x 19" w
Engine Options: 120 - 174 HP

Length: 15'
Width: 6' 11"
Height: 8' 6"
Weight: 7,800 lb.



SG40

The Bandit SG-40 series stump grinders are compact machines capable of providing amazing power to grind a variety of stumps! Available as rubber tire or track and equipped with a Kohler 38 horsepower EFI gas engine. The 18 inch diameter cutterwheel is belt driven and with a swing of 47 inches, stumps are eliminated quickly and efficiently. An easily adjustable swing-out console allows for three operating positions giving maximum visibility. Call your local Bandit dealer today to arrange a demo, you will not be disappointed!

Length: 100.5"
Width: 29.5"
Height: 48"
Weight: 1,500 lbs.
Engine: Kohler 38 HP
Hydraulic Tank: 7 Gallons
Fuel Tank: 7 Gallons

Cut/Swing: 47"
Cutter Wheel Depth: 12"
Cutter Wheel Height: 22"
Wheel Diameter: 18"
Wheel Thickness: 0.5"
of Teeth: 8 or 24
Cutter Wheel Drive: Belt

SG75

Lead the industry in production with Bandit's 74-horsepower track mounted stump grinder. Make wide cuts through stubborn stumps with the 80" wide swing, and chase roots nearly two feet deep. And with industry leading chip containment, the cleanup will be easier than with any other stump grinder in its class. Simply put, this unit will out-grind all the competition. Call your local Bandit dealer today to arrange a demo, you will not be disappointed!

Length: 134"
Width: 35" - 74.5"
Height: 81"
Weight: 4,600 lbs.
Engine: Kohler 74 HP
Hydraulic Tank: 12 Gallons
Fuel Tank: 16.25 Gallons

Cut/Swing: 80"
Cutter Wheel Depth: 23"
Cutter Wheel Height: 31"
Wheel Diameter: 27"
Wheel Thickness: 1"
of Teeth: 32 or 44
Cutter Wheel Drive: Gearbox



ONLY AVAILABLE IN KANSAS & SOUTH DAKOTA

BANDIT CHIPPERS & STUMP GRINDER



Knife Bolt Torque Specs

Model#	Torque
65XP/95	70-80 ft. lbs or 95-108 Nm
75	180 ft. lbs or 245 Nm
90	70-80 ft. lbs or 95-108 Nm
200 Utility Chipper	70-80 ft. lbs or 95-108 Nm
150/200/250/255 1/2" Bolt Hole	70-80 ft. lbs or 95-108 Nm
150/200/250/255 5/8" Bolt Hole	180 ft. lbs or 245 Nm
280 1/2" Bolt Hole	70-80 ft. lbs or 95-108 Nm
280 5/8" Bolt Hole	180 ft lbs or 245 Nm
990/1090/1390/1490	180 ft. lbs or 245 Nm
1590/1890	180 ft. lbs or 245 Nm
2290/2590	180 ft. lbs or 245 Nm
3090/3590	180 ft. lbs or 245 Nm



Bolt Reference Chart

Model#	Knife (#of Knives)	Bolt	Nut/Washer
60	900-9900-90 (2 or 3)	900-4901-04	900-4900-27
65 (pre s/n 4016)	900-9900-90 (2 or 3)	900-4901-04	900-4900-27
65 (s/n 4017-current)	900-9902-00 (2 or 3)	900-4902-88	900-4900-27
75	900-9904-43 (2)	900-4912-43	900-4903-93
90 pre 4/95	900-9900-04 (4)	900-4900-53	900-4900-27
90 post 4/95	900-9901-10 (4)	900-4900-53	900-4900-27
95 pre 2/96	900-9900-94 (4)	900-4901-04	900-4900-27
95 post 2/96	900-9901-17 (4)	900-4900-53	900-4900-27
100 (pre s/n 175)	900-9900-01 (4)	900-4900-53	900-4900-27
100, 150, 200 (s/n 175-8800)	900-9900-02 (4)	900-4900-53	900-4900-27
100, 150, 200, 250 (s/n 8900-15800)	900-9902-00 (4)	900-4902-88	900-4900-27
100, 150, 200, 250 (s/n 15900-current)	900-9901-18 (4)	900-4903-92	900-4903-93
254 2-knife per pocket disc (s/n 1007-1077)	900-9902-00 (4)	900-4902-88	900-4900-27
254 2-knife per pocket disc (s/n 1078-current)	900-9901-18 (4)	900-4903-92	900-4903-93
254 3-knife per pocket disc (s/n 1007-1084)	900-9902-00 (6)	900-4902-88	900-4900-27
254 3-knife per pocket disc (s/n 1085-current)	900-9901-18 (6)	900-4903-92	900-4903-93
255	900-9906-10 (4)	900-4903-92	900-4903-93
280 (pre s/n 141)	900-9901-10 (2)/900-9902-00 (4)	900-4902-88	900-4900-27
280 (s/n 141-current)	900-9901-18 (4)/900-9901-19 (2)	900-4903-92	900-4903-93
1200	900-9902-00 (4)	900-4902-88	900-4900-27
1250	900-9902-00 (4)	900-4902-88	900-4900-27
1850	900-9901- 18 (4)/900-9901-19 (2)	900-4903-92	900-4903-93
990/1090/1390/1490	912-3001-47 (4)	900-4900-20	900-4901-32
1290H/1590/1890 (post s/n 1101) 2090	900-9902-27 (4)	900-4900-20	900-4901-32
1290	712-1000-22 (4)	None	
1690	716-1000-22 (4)	None	900-4901-32
1990/2090 (post s/n 2045)	900-9904-38 (4)	900-4900-20	900-4901-32
2090 (fine thread)	900-9902-27 (4)	900-4913-99	
2090	900-9906-73 (4)	900-4914-27	
2590	900-9907-29 (6)	900-4914-27	
2290	900-9906-73 (4)	900-4914-27	
3090	900-9906-73 (6)	900-4914-27	
3590	900-9906-73 (8)	900-4914-27	

AMITY SOIL PROBES

2024 ATV Mount

Offers fast and precise auger-based soil sample collection.

- Optional short sample attachment 1" diameter auger - Model 2012
- special designed carbide tipped auger
- Automated collection up to 20 samples
- 3/4" diameter auger
- Optional power pack cover available
- Sample all types of soil including frozen ground
- Push button controls with cord
- Low profile
- 6.5 hp Honda power pack



SPECIFICATIONS:

Sample Depth	0-24"
Hydraulic Motors	2
Cycle Time	4-16 sec.
Approx Weight	210 lbs

Model 2450 Pickup Mounted Probe

Automated collection up to 25 samples

- Easily adjusts to lay down position
- Electric over hydraulic power unit
- Push button remote control with cord
- Adjustable height variations for pickup models
- Stainless steel sampling parts

SPECIFICATIONS:

Sample Depth	0-24"
Down Force	3,500 lbs
Cylinder	1.5"
Cycle Time	10-12 sec.
Approx Weight	225 lbs



Soil Probe

Part #

40250000

Genesis TRX®

- Durable 4 3/4" wide rubber track that holds residue stationary while coulter cuts through it. Holding effect minimizes residue and soil movement.
- Rugged, heavy-duty undercarriage with 3/4" thick steel rails and components lubed for life for minimal maintenance.
- Disk blade is heavy-duty 20" x 1/4" thick steel followed by placement knife with shatter-wing, both of which are adjustable to application depths of 4", 5" or 6".
- Shatter-wing enables superior sealing performance.
- Independent hydraulic cylinders allow for excellent row unit travel.
- Each row unit has total working range of motion of

20" and blade ground clearance of 8 1/2", track ground clearance of 10".

- Side-to-side oscillation at 5 degrees provides superior trailing in contoured ground.
- Dual placement of anhydrous ammonia with liquid now available, dual placement with dry will be available.



Genesis TRX

U.S. Patent No. 8,453,755



RAVEN GUIDANCE FIELD COMPUTER



CR7™

Simple, Intuitive, Cost Efficient

The CR7 is a 7-inch lightweight field computer with customizable in-job layouts. A simple widget concept, easily accessible settings, and ISO Universal Terminal (UT) and Task Controller capabilities make this mighty unit an affordable, plug-and-play system.

FEATURES & BENEFITS:

- Multiple language support and customizable units
- Simplified, customizable widget layout
- Ability to access settings page from inside a job
- Map-based navigation
- Auto field boundaries keep you organized automatically
- Interactive field/job list and map view
- Slingshot-ready for file transfer, remote support, and OTA software updates
- Compatible with Raven AccuBoom, serial SCS consoles, and external lightbar support
- ISO Universal Terminal and Task Controller functionality via unlock
- Straight A-B, A plus heading, pivot, contour, and last pass guidance
- Compatible with autosteer products including SmarTrax and MD
- Sub-meter single frequency GPS and GLONASS (optional external)
- Scalable GPS (optional external)

CONNECTIONS

- 2 CANbus channels
- 3 Serial channels
- One USB 2.0 Port
- Gigabit Ethernet Port
- Wi-Fi 802.11 b/g/n
- Bluetooth 2.1 with EDR and BLE 4.0
- Radar Speed Output
- Keyed power start-up and shut-down
- Two Digital Sense Inputs

DISPLAY

- Screen Brightness 850 NITS
- 7" Widescreen
- Capacitive Touch
- 480x800 Resolution
- Integrated Lightbar

COMPUTING

- 16 GB Storage
- 2 GB RAM
- 852 MHz Quad Core Processor

POWER

- 7-16 VDC Input
- 850 mA Typical

MECHANICAL

- 7.5" x 5.6" x 3.0"
- Weight: 1.4 lbs
- 1" RAM ball mount

ENVIRONMENTAL

- Operating Temperature Range: -20°C to 70°C
- Storage Temperature Range: -40°C to 70°C
- IP65 Moisture Protection

CERTIFICATIONS

- CE
- E-Mark



VIPER® 4+

Tailored for professional applicators

Viper 4+ integrates with Raven's full line of products into one networked platform that offers a capacitive touchscreen and an intuitive, tablet-style interface with swiping features and horizontal or vertical orientation.

Customize your Viper 4+ by user and machine - it's colorblind which means it works with equipment of every brand. Easy job set-up, fewer touches, and greater efficiency allow for extraordinary data management capabilities.

FEATURES & BENEFITS:

- Customization by user and machine
- Horizontal or vertical orientation
- Sleek design with 12.1" capacitive touchscreen and intuitive, tablet-like interface and state-of-the-art rugged magnesium alloy enclosure
- Dust-proof for tough environments
- 4 camera inputs for monitoring bin levels, blind spots, roadway operation and more
- Customizable user interface
- Set up machine and product profiles
- ISOBUS compatible
- Wireless over-the-air software updates
- ISO UT with task controller capabilities
- On-screen implement location with section status

RAVEN

**RS1™**

The most powerful high speed steering system in the industry

RS1 is a fully scalable GPS solution that combines autosteer, GPS, and Slingshot® into one intuitive, easy-to-use unit. Incredible accuracy at both high and low speeds with quick line acquire improves efficiency and gives you the power to cover more acres in a day.

Best-in-class diagnostics gather machine performance data while you work, alerting Raven of issues and connecting you to support as you need it. The unit is designed with a simple set up and integrated help guides, enhanced further by Slingshot - providing remote support, file transfer, OTA software updates and fleet management and logistics.

RS1 provides multiple methods of system connectivity including Cellular, Wi-Fi, or Ethernet.



RS1™ is compatible with:
CR7™
Viper® 4+
Slingshot®

**700S™ RECEIVER**

Incredible accuracy and tighter convergence

The 700S is a fully scalable GNSS smart antenna that comes standard with GLONASS and Autonomous dual-frequency GLIDE™.

Receive the full benefits of 700S through a simple upgrade into GS and RTK corrections to enhance the performance of your entire precision suite of technology. Upgrading to Satellite GS-Pro corrections will enhance the performance of your steering system, as well as variable rate applications, planter and seeder controls, AccuBoom™ section control and Hawkeye® nozzle control.



Part#
117-2000-004

700S™ is compatible with:
CR7™
Viper® 4+

500S™ RECEIVER

Affordable entry-level GNSS receiver

The 500S is compatible with CR7™ and features a simple setup and quick convergence time. 500S tracks GPS, GLONASS, Galileo and BeiDou for improved strength in any environment. Fixed or magnetic mounting options make it ideal for portable and dynamic applications.



RAVEN STEERING



SmarTrax MD is compatible with:
Viper® 4+

SmarTrax MD is also the recipient of an AE50 award celebrating product innovations in agriculture, food, and biological systems.

SmarTrax MD

Full speed ahead

Raven's simple-to-install mechanical drive (MD) steering system harnesses the newest technologies to keep you on track and on line all day long. You'll benefit from added torque for faster operating speeds, increased accuracy and reduced noise. Transfer MD between multiple tractors, including combines, windrowers and more.

MD is also the recipient of a 2014 ASABE AE50 award celebrating product innovations in agriculture, food, and biological systems.

FEATURES & BENEFITS:

- RTK capable
- High operating speeds
- High torque for best in class line acquire and online performance
- Simple to install and move between machines
- 3D terrain compensation
- Quiet operation

Part#
117-5030-020

The Raven logo, consisting of the word "RAVEN" in white, uppercase letters on a blue rectangular background.



SmarTrax™ is compatible with:
CR7™
Viper® 4+



SMARTRAX™ & SMARTRAX™ RTK

Cover more ground with faster, more efficient applications

The more acres you farm, the more you'll appreciate SmarTrax and SmarTrax RTK assisted steering.

This unique hydraulic-assisted steering system enhances high speed operation by offering faster line acquisition, correction for changes in soil condition and implement pull. SmarTrax and SmarTrax RTK offer across-the-board GPS compatibility, 3D terrain compensation and automatic system calibration along with:

- RTK accuracy and repeatability from year to year
- Best-in-class operating speeds for covering more ground faster
- Compatible with many steer-ready machines
- Multiple kits available to fit all modern tractor types
- Slingshot®-compatible RTK correction signal

SmarTrax RTK assisted steering system lets you redefine the limits. That includes faster operating speeds, best-in-class line acquisition and easier, more relaxed driving. With SmarTrax RTK, you get even more out of this hydraulically controlled GPS-guided system with 3D terrain compensation and RTK sub-inch capability for the ultimate in precision and repeatability.



RAVEN RATE CONTROL MODULE (RCM) & VISUAL GUIDANCE

RAVEN RATE CONTROL MODULE - RCM

The most precise application controller on the market

The RCM uses Raven's innovative control algorithms to make it the most precise application controller on the market today.

It fits a variety of applications—up to five product liquid and granular control, NH₃ (including AccuFlow™ HP+), air cart and generic applicators. Sixteen-section control eliminates expensive skips and overlaps for all phases of your operation, from spraying to NH₃, and fertilizer application to planting.

RCM is the ultimate advancement in precision and efficiency, and the next solution for your operation's success.

USER FRIENDLY

We've simplified the setup, introduced integrated help content, and added advanced diagnostic information to quickly identify issues and reduce costly downtime.

Customizable user interfaces give the operator the flexibility to see and control what fits their needs, and configurable machine profiles allow the RCM to easily move between machines and implements without re-setting machine configurations.

FEATURES & BENEFITS:

- Easily navigate and manage multiple products, tallies, and sensor data
- Diagnostic tests and reading to easily calibrate, tune and troubleshoot system
- Compatible with ISOBUS Universal Terminals and Task Controllers
- Multi language support
- IP 67 environmental rating for the harshest of environmental conditions
- Integrated magnet mount option to easily attach and detach with any metal frame
- Dynamically configure run screen based on operator preferences to show most relevant data during operation



Part#
117-7100-002

The RCM is compatible with many ISOBUS virtual terminals on the market, including:
Viper® 4+,
CR7™
AccuFlow™ & AccuFlow HP™ Plus
Sidekick Pro™ Direct Injection
AGCO NT01 and C3000
Case IH AFS Pro 700
John Deere GreenStar™ 3 2630
John Deere Gen 4 Monitor
John Deere 4240 and 4640 Displays
New Holland IntelliView™ Plus IV



VSNTM is compatible with:
CR7™
Viper® 4+
SC1™

VSNTM VISUAL GUIDANCE

Expand your field of vision with the latest in visual guidance technology. The latest technology advancement from Raven, VSNTM transforms machine guidance through emerged crops. This patent-pending innovation utilizes a non-contact stereo vision camera to navigate crop rows, allowing the operator to focus on all other aspects of effective application control. Minimizing crop damage, covering more acres in a day and essentially providing an easier machine operation leads to a quick return on investment to maximize yield profitability.

HOW VSN ENHANCES YOUR OPERATION

- Reduces operator fatigue
- Enhanced steering control and simple operation results in minimal crop damage and more acres covered in each available day
- Operates at high speeds, exceeding 20 mph
- Operates in challenging terrains, with demonstrated success in areas exceeding eight degrees of slope
- Maintains row guidance in crops from less than four inches to nearly full canopy
- Quick, one-time calibration with up to five saved profiles for easy crop transitions
- Proven in corn, soybeans, cotton and sorghum





SCS 4400 Control System

The Raven SCS4400 control system provides precision automatic rate control and data logging for up to five products. It features a new VGA monochrome display and offers the flexibility of 7 boom inputs. Two separate application rates can be pre-programmed into the controller and selected “on the go” with the flip of a switch. Application rates can be overridden to accommodate spot spraying needs even when in automatic mode.

This system is GPS compatible, and the console is extremely user-friendly featuring simple programming, and an easy to read display.

Part#
063-0172-281

Spray Console	Product Capability	Product Forms	Direct Injection	Boom Control Sections	Boom Switches
SCS 4400™	5 products: 1 hardwired, 4 via CANBUS addition	Liquid Granular NH3	Sidekick Pro	10	Equipped with 7 switches
SCS 450™	1 product	Liquid NH3	Sidekick	6	Equipped with 6 switches
SCS 660™	1 product	Liquid Granular NH3	Sidekick	7	Remote switches required



SCS 450 Control System

The Raven SCS 450 is designed to provide uniformity of spray applications, regardless of the vehicle’s speed. Utilizing a computer based console, a speed sensor, a turbine-type flow meter, and a motorized control valve, the SCS 450 also functions as an area monitor, speed monitor, and volume totalizer. The operator sets the target volume per area to be applied, and the SCS 450 automatically maintains the flow. A manual override switch allows the operator to manually control the flow for spot-spraying. The actual volume per area being applied is displayed at all times on the console.

Part#
063-0171-220



Raven SCS 660

The Raven SCS 660 is designed to provide uniformity of spray and granular applications, regardless of the vehicle’s speed. Utilizing a computer-based console, a speed sensor, a flow meter, an encoder or granular shaft, and a control valve, the SCS 660 also functions as an area monitor, speed monitor, and volume totalizer. The operator sets the target volume per area to be applied, and the SCS 660 automatically maintains the application. A manual override switch allows the operator to manually control the flow for spot-application. The actual volume per area being applied is displayed at all times on the console. In addition to the features provided by the SCS 660, the SCS 660M features a master switch that allows control of a single boom section function without the need for additional cabling.

Part#
063-0171-221

AUTOBOOM®

Industry-leading radar sensor technology uses simultaneous ground and canopy detection to maintain optimal spray height for maximum product efficacy.



FEATURES & BENEFITS:

- Full boom management solution maintains optimal spray height for maximum product efficacy
- Radar sensor technology
- Simultaneous ground and canopy detection
- Enables a larger maximum distance measurement, not affected by temperature or spray drift
- Five non-contact sensors come standard with the option of adding an additional two sensors
- Center rack stability technology with optional dampers
- Pressure-based for smooth movement and quicker reaction time
- Machine chassis roll sensing
- Complete control maximizes boom life
- Faster Sampling and Update Rates than standard ISO AutoBoom
- ISOBUS compatible



The full XRT system comes with the Raven Expansion Module, the AutoBoom Module, dampers, and center rack and radar sensors

Call for Current Pricing

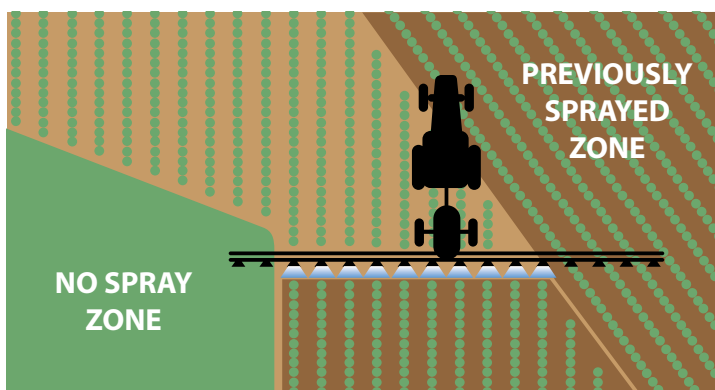
AutoBoom® XRT is compatible with:
CR7™
Viper® 4+

AUTOBOOM® XRT

Automatic and effortless control

Raven's latest advancement in boom control is AutoBoom XRT. Industry-leading radar sensor technology uses simultaneous ground and canopy detection to maintain optimal spray height for maximum product efficacy.

Pressure-based control allows for smooth movement and quicker reaction time while center rack stability technology with optional dampers gives the operator complete control, maximizing boom life.

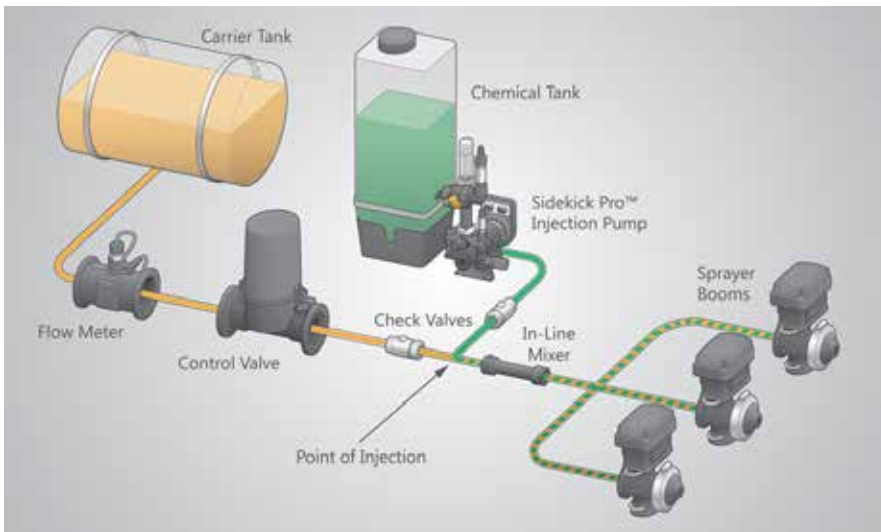


Raven ACCUBOOM™

AccuBoom's automatic section control protects against rising input costs, thanks to greater fuel and chemical savings, and faster and more accurate spraying.

FEATURES & BENEFITS:

- Automatic on-off control for up to 10 sections
- Eliminate costly skips and overlaps
- Adjustable look ahead function lets you adjust settings easily for the overlap you choose
- Speed compensation function accounts for how fast you are driving and ensures properly timed shut-off
- Optional remote control to help check nozzles quickly



SIDEKICK PRO INJECTS CHEMICALS DIRECTLY INTO THE IN-LINE MIXING TUBE TO ELIMINATE PRE-MIXING AND COSTLY LEFTOVERS.

SIDEKICK PRO™

Raven's Sidekick Pro direct injection systems help you save time and money on applications of herbicides, insecticides, drift agents and nitrogen stabilizer.

The Sidekick Pro injects chemicals directly into the in-line mixing tube to eliminate pre-mixing and costly leftovers.

(Call For Details & Current Pricing)



The Hawkeye System is built on the ISOBUS communication platform which allows it to work with ISO Task Controllers, including the Viper® 4.

HAWKEYE® NOZZLE CONTROL SYSTEM

Raven's Hawkeye Nozzle Control System is ultra-precise. This pressure based product control system allows for precise sprayer application in a variety of conditions, reducing spray drift and getting the most out of every nozzle. Each nozzle is controlled by its own individual pulsing valve giving you a consistent spray pattern as speed and conditions change.

(Call For Details & Current Pricing)

CALL FOR MORE COMPONENTS THAT YOU DON'T SEE HERE

Raven Flow Meters

Model	Part#	Connection	Flow Rate GPM	Material
RFM-15	063-0172-058	1½" FPT / M200 Manifold Flange	0.3 - 15	Poly
RFM-60S	063-0173-867	1½" FPT	1 - 60	Stainless
RFM-60P	063-0171-985	1½" M200 Flange	1 - 60	Poly
RFM-100	063-0173-578	2" M220 Manifold Flange	3 - 100	Poly
RFM-200P	063-0173-579	3" M300 Manifold Flange	15 - 200	Poly

Raven Cables

(Note: these are the most common cables for the 440 system)

Part#	Description	Purpose
115-0171-836	12ft. Flow Cable	NH3 Flow Cable 3 Section
115-0171-085	10ft. Console Cable	440 Power Cable (round)
115-0159-418	10ft. Console Cable	440 Console Cable (square)
115-0159-405	10ft. Flow Cable	440 Flow Cable w/ Spade Connector (square)
115-0159-526	Radar Interface	Connects a Dickey John Radar into Raven System
115-0159-856	12ft. Flow Extension	Extends Flow Cable 12ft.
115-0159-857	24ft. Flow Extension	Extends Flow Cable 24ft.
115-0159-016	6ft. Meter Extension	Extends Flow Meter Cable 6ft.
115-0159-017	12ft. Meter Extension	Extends Flow Meter Cable 12ft.
115-0171-800	12ft. Flow Cable	New style NH3 Flow Cable 1 Section
115-0171-837	3 Sec. 4400 Switch Pro	John Deere GS2 Compatible

Raven Valves

Model	Description	Purpose
063-0172-125	1" Poly Valve	Servo Valve to regulate flow
063-0173-876	1" NH3 Complete	NH3 Complete on-off valve
063-0173-877	1" NH3 Steel Valve	NH3 Servo valve to regulate flow
063-0173-206	Motor Head	Head only for above Servo
117-0171-686	1" Valve Only	NH3 on-off valve
063-0159-487	Black Motor Head	Valve only for on-off valve
117-0171-705	1¼" NH3 Valve	Complete for on-off valve





Part#	Description
*136000-00	GFX-350

TECHNICAL SPECS

- Resolution - 1024 x 600
- Size - 7" color display
- Brightness - 500 nits max
- System Processor - Quad-Core iMx6 PLUS @ 1 GHz
- Storage(eMMC/RAM) - 16 GB/1 GB
- Operating System - Android 6.0
- Internal GNSS - No
- Dimensions - L 8.7 in x W 5.2 in x D 1.3 / 1.9 in (at connector belt)
- Weight - 2.2 lbs (1.00 kgs)

GFX-350

The Trimble® GFX-350™ is the latest Android™-based, easy-to-use display from Trimble Agriculture. This cost-effective solution offers great functionality and a simplified installation process, providing access to auto steering and application control for every farm.

Add in Bluetooth® and Wi-Fi connectivity to go along with ISOBUS compatibility and any grower can tackle farming applications from every season across all equipment brands.

FEATURES & BENEFITS:

- 7" (17.8 cm) high-definition color touch-screen display
- Android-based operating system
- Rugged construction for everyday field use
- Compatible with NAV-500 and NAV-900 guidance controllers
- ISOBUS task controller and universal terminal
- Control up to 2 channels and 24 sections



Part#	Description
138000-01	GFX-1060
139000-01	GFX-1260

GFX-1060

The GFX-1060™ display is Trimble Agriculture's latest 10-inch (25.6 cm) Android™-based display for controlling and executing all in-field work through the Precision-IQ™ field application interface. With faster processing, greater memory and more storage capacity, this robust display makes handling even the most complex farm operations easy.

KEY BENEFITS

- Quickly and reliably manage a wide range of operational tasks
- Easy to use, with a short learning curve for newer operators
- Maximum compatibility and transferability
- Effortlessly share data across the operation
- Modular technology designed to grow as needs do
- Combined with the NAV-900 guidance controller, experience the improved efficiency, accuracy and profitability that comes with the latest precision ag technology



GFX-1260

The GFX-1260™ display is Trimble Agriculture's newest flagship 12-inch (30.5 cm) Android™-based display for controlling and executing all in-field work through the Precision-IQ™ field application interface. Its enhanced processing power, greater memory, and larger storage capacity help this sturdy display shine for any farming operation, from broadacre and row crop applications to managing the nuances of permanent and specialty crops.

KEY BENEFITS

- Large screen allows big buttons to quickly and reliably manage a wide range of operational tasks across the most uneven fields
- Intuitive work flows are easy to use, and with a short learning curve
- Compatible with over 10,000 vehicle models across more than 40 equipment brands
- Built-in connectivity allows effortless data sharing across the business
- Mix and match this display with Trimble receivers, steering systems, and implement control solutions as needs change

NAV-500

GUIDANCE CONTROLLER

Paired with any GFX series display, the NAV-500™ guidance controller is an affordable precision solution capable of receiving corrections from multiple GNSS satellite constellations. Get sub-meter repeatable accuracy and full-farm coverage at a great price to use during tillage, broad-acre seeding, spraying and harvest.

FEATURES & BENEFITS:

- Low-profile rugged housing
- Trimble ViewPoint RTX™ corrections
- 5 satellite constellations
- Roll-corrected manual guidance
- Compatible with EZ-Steer® assisted steering system and EZ-Pilot® Pro steering system
- 4.1 Bluetooth®
- Multiple CAN ports



Part#	Description
*132000-02	Nav-500

NAV-900

The NAV-900 guidance controller is our most advanced GNSS receiver to date, built for maximum uptime and a wide range of accuracy options from basic to high precision. It is designed to mount on the roof of most agricultural vehicles to provide positioning and guidance, including autosteer.

EASY INSTALLATION

Designed from the ground up to install quickly, the NAV-900 guidance controller along with a compatible GFX series display can be installed with an autoguidance system in just half a day in most vehicles or in under two hours if using manual guidance, eliminating costly downtime in the field.

EXPANDED GNSS

This new guidance controller features Trimble's most powerful GNSS engine. It tracks more satellites from more constellations, leading to more robust performance in harsh environments and also faster RTX convergence time.



Part#	Description
130000-02	Nav-900

FEATURES & BENEFITS:

- Full range of correction signals including GPS, GLONASS, Galileo, Beidou, and QZSS constellations
- Built in WiFi and Bluetooth for tethering, and device connections
- Simplified setup with fewer components
- Combine with one of the GFX series displays for auto guidance and precision farming functions



Field-IQ ISOBUS LIQUID CONTROL SYSTEM

The Trimble® Field-IQ™ ISOBUS Liquid control system is an ISO-compatible application control system that can be used with the most common control components for applying liquid. Combining the modular Field-IQ architecture with the new Trimble Liquid Control ECU, rate and section control solutions are available for sprayers, anhydrous toolbars, and liquid toolbars. The intuitive configuration and run screens make it easy to set up and operate.

TIME SAVER

Get up and running in the field sooner with the Field-IQ ISOBUS Liquid control system. All implement configurations stay with the implement.

SIMPLE MODULAR INSTALL

Save more than time by using existing Trimble Field-IQ application control install kits. The ISOBUS ECU can leverage existing cables already used on your implement.

INTUITIVE USER INTERFACE

The Trimble Field-IQ ISOBUS Liquid control system runs on the TMX-2050™ and GFX-750™ display systems. These displays both run the Precision-IQ™ field application software in combination with Universal Terminal, allow you to easily set up the implement and begin field operations quickly.

MORE THAN APPLICATION CONTROL

Take advantage of all application control system features including rate and section control, prescriptions, and as-applied mapping.



Call for Details & Current Pricing

ISOBUS in a nutshell

Different systems have different capabilities, making application control a concern for many growers. ISOBUS allows your farm equipment to communicate regardless of the brands you use by providing compatibility between a console and multiple types of implements.



EZ-Pilot Pro GUIDANCE SYSTEM

The EZ-Pilot® Pro guidance system offers high accuracy guidance across MFWD tractors, 4WD's and combines. The added benefit of the EZ-Pilot Pro system is that vehicles are now able to be engaged in reverse to allow them to be lined for the next swath (max 15 seconds). Adding this feature can allow users to benefit from a high accuracy solution from the second the implement engages with the soil.

REDUCED FATIGUE

With hands-free guidance, the EZ-Pilot system allows you to operate with ease and improve safety on your farm.

STAY ENGAGED WHILE STOPPED

Get moving in the field with 1 less input to think about when you are in a stop-and-go application.

INTUITIVE USER EXPERIENCE

A mid-level precision ag farmer will have a better user experience to upgrade on future machines without changing hardware and an easier software upgrade path.

REDUCED CLUTTER

The system can be pre-equipped with several machines without the addition of an extra controller cost and very little cables in the cab.

OPTIMAL PERFORMANCE

The electric steering motor allows for unrestricted manual steering when assisted steering is not engaged.



Part#	Description
85000-105	EZ-PILOT PRO



There comes a time in every machine's life when, as reliable as it may be, it is not meeting all of the needs of a farm. Perhaps responsibilities need to change hands or profit margins need to be improved due to market pressure—whatever the reason, a farmer is faced with a decision. Should they retire their old tractor for a new one or enhance their existing machine's performance by upgrading it with precision ag technology?

TRIMBLE TMX-2050 - AUTOPILOT



Trimble TMX-2050

Take control of your entire operation with a system that gives you the clarity, certainty, and connectivity you need. Because your business is too important to leave to chance.

Built on the Android™ operating system, the flexible platform integrates into your operation seamlessly, and the intuitive interface makes it easy for both beginner and advanced users to easily implement precision agriculture solutions. Modular architecture allows future expandability. And if you need to switch vehicles, it's literally a snap, with a quick mount and single-cable connection.

You manage every section, every row, every seed on your farm. And the TMX-2050 display provides instant access to the Connected Farm™ dashboard—a central location to view the information that impacts you, such as weather forecasts and rainfall, commodity prices, and fleet management information. The display provides real-time data, so you can optimize operator performance and guarantee equipment security.

- Large 12.1" (30.8 cm) high-definition color touch-screen display
- Tablet-like interface with customizable run screen, user can move and turn widgets on/off to meet their needs
- Rugged construction for everyday field use, meeting demands in harsh environments
- One integrated GNSS receiver
- One integrated camera with support for an additional external camera
- Easy transferability between vehicles (less than five minutes) when transfer kit is used

Call for Current Pricing



Autopilot™

Automated Steering System

Automated, hands-free, steering system installs directly into the hydraulic system, delivers highest-accuracy steering in any field type. The Trimble® Autopilot™ automated steering system automatically steers your vehicle on line with maximum precision. When your vehicle gets offline, Autopilot signals it to adjust its position to follow the correct path, no matter the field pattern or terrain type — so you can focus on the job ahead of you.

FEATURES & BENEFITS:

- Provides automatic steering for your vehicle with one-inch repeatability
- Integrates directly into your vehicle's hydraulics for clear access to cab control
- Utilizes terrain compensation technology for high accuracy on difficult terrain
- Ideal for the most demanding row crop farming applications
- Plugs in to many guidance-ready vehicles, minimizing the need for additional equipment
- Complete field applications quickly and accurately
- Reduce operator fatigue and increase safety
- Operate day or night and in dusty or low visibility conditions



NAV-III Controller

Call for Current Pricing

EZ-Steer

Simple, portable hands-free farming for over 600 vehicle models-old and new! The EZ-Steer system turns the steering wheel for you by combining a friction wheel and a motor with GPS guidance from the CFX 750 or the EZ-Guide 250 lightbars. While the E-Z Steer keeps you on line, you can focus on many different tasks, such as spray or planter performance, improving job quality and crop yields while reducing fatigue.

Part#	Description
62000-51	EZ-Steer for CFX 750



The EZ-Steer Motor receives electrical signals from the EZ-Steer Controller and converts them to precise commands that the vehicle's steering system uses to keep the vehicle on path.



The handy foot switch allows you to engage and disengage the EZ Steer System with the optional foot switch for hands free farming.



Using data from the GPS receiver the EZ-Steer Controller sends precise instructions to the steering wheel motor. T2 technology continually corrects for roll and yaw by using state of the art 4-axis solid state inertial sensors to give you a true on-ground position.



EZ-Pilot

The Trimble® EZ-Pilot™ assisted steering system is a high-accuracy system that turns the steering wheel with its integrated electric motor drive using Global Navigation Satellite System (GNSS) guidance from the CFX-750™ display or the FmX® integrated display. High accuracy at an affordable price.

It features a sleek design with the motor integrated into the steering column, providing clear access to the instrument panels and controls in the cab. The flexibility of the system also allows for unrestricted manual steering when the system is not in use.

T3 ENHANCED TERRAIN COMPENSATION TECHNOLOGY

Immediately adjusts vehicle steering to compensate for rough terrain or slopes and hillsides

FAST-REACTING MOTOR

Allows system to quickly get the vehicle online and stay there

HIGHER TORQUE

Better steering of vehicles with more rigid power steering systems, such as floaters.

SLEEK, CLEAN DESIGN

Motor integrated into the steering column provides clear access to all instrument panels and no decrease in leg room in cab.

GREATER FLEXIBILITY

Electric steering motor allows for unrestricted manual steering when assisted steering is not engaged.

COMPATIBLE STEERING OPTIONS

Steering system installation preserves the use of the vehicle's original steering wheel and telescopic functionality.

CALL FOR PRICING



TEEJET MATRIX

REALVIEW® GUIDANCE OVER VIDEO A TEEJET EXCLUSIVE

Now you can have all the guidance information you need, watch what's ahead and monitor various implement operations on a single console.

Droplet Size Monitoring – Another TeeJet Exclusive

Selecting the correct droplet size when spraying can have a huge impact on both the efficacy of your spraying and the potential for drift. Real time sensing and displaying of droplet size is now an available option with Matrix Pro GS. This feature gives you added confidence that you're doing your best job while spraying.

Advanced Swath and Rate Control Capabilities

Experience enhanced accuracy and more efficient product application with newly added functionality that enables automatic swath control and accurate mapping for dry spreaders and non-linear spray booms. Matrix Pro GS is compatible with third-party rate controls for prescription application and as applied record keeping. .

FEATURES & BENEFITS:

- Improvements for FieldPilot® Auto Steering, UniPilot® Assisted Steering, BoomPilot® ABSC and Tilt Compensation
- Create, save and recall boundaries and AB lines
- Two-way data transfer
- Internal WAAS/EGNOS receiver
- Compatibility with external receivers like RTK or Omnistar
- Create permanent no spray zones
- Available in either 8.4" or 5.7" bright color touch screen
- The Matrix Pro GS system can be used with up to eight RealView cameras
- The Matrix Pro 570GS console features a 5.7" touch screen
- Matrix Pro 840GS has an 8.4" touch screen for a 200% increase in viewing area
- A+ Azimuth (degree heading) allows identical, parallel, guidelines when operating multiple vehicles in the same field
- Field Finder organizes saved jobs according to your current GPS location
- Easy-to-use Fieldware® Link PC utility simplifies creating and maintaining client/farm/field/job data
- Third-party rate control capabilities allow for prescription application and as-applied mapping on Matrix Pro GS when used with a compatible rate control. Activation required
- Advanced boom configuration setup allows for 2-dimensional automatic swath control; ideal for dry spreaders or for sprayers with non-linear spray boom arrangement
- Matrix Pro GS ABSC in conjunction with a properly equipped dry spreader, can control swath width, overlap and headland on/off control. BoomPilot kit required



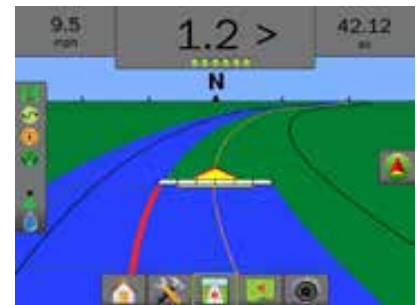
MATRIX® PRO 840GS



MATRIX® PRO 570GS

RealView® Camera

Call for Details & Current Pricing



RealView Guidance Over Video



Be aware of more by splitting the screen to four cameras



Droplet Size Monitor Function

SENTRY 6141 ISOBUS TIP FLOW MONITOR

Reliable Detection of Plugged Tips in a New, ISOBUS Compatible Design

Plugged or partially blocked spray tips can have a significant impact on the quality of your application. Streaks in the field caused by misapplication can result in yield reductions, increased weed pressure and the need to re-apply - all of which can be costly. The Sentry 6141 Tip Flow Monitor provides a simple, reliable solution to this age-old problem. Flow sensors mounted at each spray tip location monitor the flow through the tip and provide instantaneous feedback to the operator should a tip become clogged. By eliminating the need to detect plugged tips visually from the cab, operators can cover more acres in a day, and know, with confidence, that their sprayer, planter or fertilizer applicator is operating properly.

FEATURES & BENEFITS:

- Individually monitor flow performance from every spray tip or metering orifice on your equipment.
- Sentry 6141 utilizes a compact flow meter integrated into each nozzle body.
- With an ISOBUS compatible design, Sentry 6141 can connect to an existing TeeJet or third party Universal Terminal (UT) and eliminates the need for an additional console in the cab.
- Flow meter detects flow variation caused by clogs, nozzle damage or loss, or upstream flow restrictions.
- System can monitor up to 120 spray nozzles simultaneously.
- Error is indicated by audible alarm, display notification and illuminated LED at the affected nozzle.
- Flow meters rated from 0.15-2.5 GPM (0.6-9.5 l/min) and maximum pressure of 150 PSI (10 bar).illuminated LED at the affected nozzle

SENTRY 6140 TIP FLOW MONITOR

- Individually monitor flow performance from every spray tip on your boom.
- Sentry 6140 utilizes a compact flow meter integrated into each nozzle body.
- Flow meter detects flow variation caused by clogs, nozzle damage or loss, or upstream flow restrictions.
- System can monitor up to 75 spray nozzles simultaneously.
- Error is indicated by audible alarm, display notification and illuminated LED at the affected nozzle.
- Flow meters rated from 0.1-2.5 GPM (0.4-9.5 l/min) and maximum pressure of 150 PSI (10 bar).

The turbine style flow meter used with the Sentry 6141 Tip Flow Monitor is compact, reliable and proven. The threaded connection allows the sensor to be added onto a wide range of standard TeeJet single and multiple outlet nozzle bodies. ChemSaver® diaphragm check valves remain in place to provide positive spray tip shutoff. Ample clearance inside the flow meter means minimal flow restriction and generous free passage for particles contained in the spray solution. Long wearing materials are used in bearing surfaces to ensure a consistent flow reading. The flow meter sensor is mounted externally to prevent direct contact with the spray solution for long-term reliability.



Call for Details & Current Pricing



**Call for Details
Current Pricing**

CALC-AN-ACRE & SENSOR 1

CALC-AN-ACRE

Calc-an-acre is a state of the art acre counter that accurately calibrates and displays acreage with the touch of a button. It incorporates a dual counting system that makes it possible to reset and record individual fields while maintaining a running total of area worked. Calc-an-acre is also a digital speedometer that provides true ground speed.

- Set and maintain correct ground speed
- Know the exact acres covered when leasing equipment
- Measure and monitor test plots
- Perform yield checks during the harvest season
- Keep an accurate acre count when performing custom work
- Maximize tractor performance by monitoring slippage
- Verify chemical and fertilizer application rates

Part#

01000-MT



Sensor 1

This sensor is ideal for use with farming electronic applications that require a small, highly accurate GPS receiver.

- 2.4in diameter
- Magnetic base
- Can replace old radars
- Customize your sensor with connectors for Raven, Tee-Jet and many other brands of monitors



Part#

Description

DS-GPSM-D1	Universal Receiver
DS-GPSM-R1	Speed Sensor: 1hz
DS-GPSM-R5	Speed Sensor: 5hz

sensor-1.com
Agricultural Electronics 1-800-SENSOR-1



Vision Works Ag Cameras are not only affordable, but also durable systems that allow you to monitor your blind spots, grain bins, implements, equipment, livestock, or anything else that may need your attention. For when you just can't be in two places at once. Kits are available for Trimble, Raven and TeeJet Displays.

FEATURES:

- Night vision
- Designed for your needs
- Easy installation
- Accessories available
- Weather proof



VVIC700

- 7" monitor
- Upgraded 600 TVL VWCAM4/magnet
- 30ft. cable
- Remote
- Two inputs



VVIC500

- 5" monitor
- Upgraded 600 TVL VWCAM4/magnet
- 30ft. cable



VVIC-104-V2

10" Complete System (2 Cameras Included)
This monitor can display up to 4 cameras at the same time. Additional cameras can be purchased.



VVIC500-L

- 5" monitor
- License Plate Camera
- 30ft. cable



Monitor Your Fuel Tanks to Prevent Theft



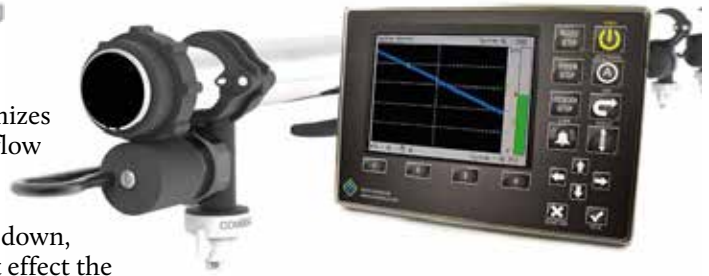
Perfect for Dark Or Low Lit Areas.



CAPSTAN**PinPoint® II**

Apply with Precision

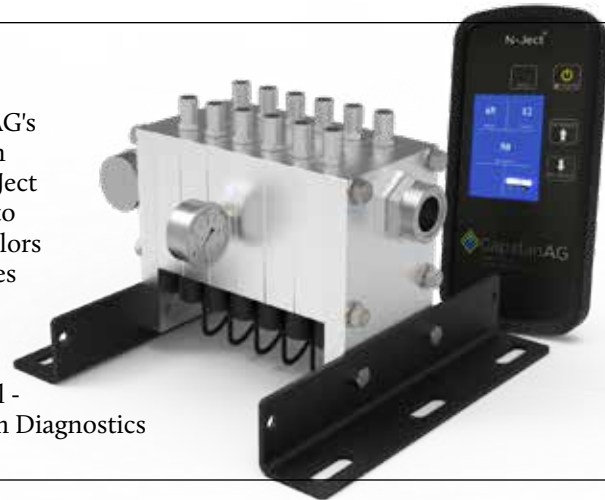
Individual nozzle control with the PinPoint II system maximizes efficiency through increased accuracy. PinPoint II controls flow and pressure at the nozzle in conjunction with individual nozzle boundary control provides accurate and repeatable application to achieve the desired coverage. Speed up, slow down, turn, overlap, or any combination of those variables will not effect the consistency built into this system. PinPoint II utilizes Blended Pulse PWM technology to achieve complete individual nozzle control. Real time system feedback is viewed and controlled through the CapView II interactive display.

**SharpShooter® with Rate Sync™**

SharpShooter uses Blended Pulse™ technology featuring Pulse Width Modulation (PWM) to maintain constant sprayer pressure no matter what rate or speed your sprayer is traveling. This systems unique ability to control pressure and rate provides an unprecedented operational range for your sprayer. It allows up to an 8:1 speed range which means you can choose one tip that can apply from 3mph to 24 mph while still maintaining constant pressure, rate and droplet size. Compared to conventional spraying, SharpShooter with Rate Sync offers solutions to application challenges including single tip selection limitations, reduced speed ranges, excessive drift, and overall application quality confidence.

**N-Ject NH3**

Designed specifically for anhydrous ammonia, CapstanAG's N-Ject NH₃ system provides row-to-row uniformity with built-in sectional control and variable rate capability. N-Ject utilizes PWM technology within the modular manifold to control anhydrous ammonia flow to each row. N-Ject tailors the pulse duty cycle as it quickly compensates for changes in rate or speed to maintain your target application. The N-Ject manifold coupled to the hardware and display unit of PinPoint II gives you the following benefits and enhanced features: Individual Row Control - Boundary Mapping - Turn Compensation - Valve/System Diagnostics

**N-Ject LF**

N-Ject LF takes standard liquid fertilizer application and transforms it to sectional control and variable rate on demand as it automatically adjusts liquid flow based on changes in rate or speed. N-Ject LF uses PWM to function as an automatic-variable orifice, adjusting rate for all your liquid fertilizer application needs. Utilizing PWM allows for even flow distribution across the toolbar, providing accurate row-to-row uniformity through a wide range of application rates.

N-Ject LF can apply 5-40 GPA running 10 MPH at 40 PSI with 30" row spacing.





Two-Stage Gas-powered Air Compressors

Ingersoll Rand's two-stage gasoline engine driven air compressors are designed to provide compressed air where electric power is not readily available. They're used in fleet and field service applications, remote pneumatic applications and emergency production lines.

FEATURES:

- Available with easy-starting Honda, or Kohler engines
- Fuel-efficient idle control
- Advanced safety features including low oil level shutdown for gas engines



Single-Stage Air Compressors

Configured in space-saving stationary and portable models, these durable compressors are a favorite with DIY homeowners and in the construction industry.

FEATURES:

- Industry-leading 5,000-8,000 hour design life
- Industrial-quality cast iron construction
- Reliable high-speed valve design
- Fully-balanced crankshaft that reduces vibration
- 135psi max. discharge pressure
- Honda engine-driven wheel barrow compressor

Selection guide

We can help you customize your order, so you only get what you need. Call today to hear about all your options.

Select Your Compressor

- Stationary
- Portable

Choose Your Air Quality

- Shop Quality Air
- Dry, Clean Air
- Critical Quality Air

Select Your System Controls and Accessories

- IntelliFlow Pneumatic Flow Controller
- EZ-line SimplAir Compressed Air Piping
- EDV Electronic Drain Valve

D-EC High Efficiency Cycling Dryers

The D-EC cycling refrigerated dryer design helps you achieve optimal performance at a lower cost compared to a non-cycling design. To reduce energy consumption, the dryer refrigeration system automatically deactivates during periods of low load and features a patented heat exchanger and thermal mass circuit.



Refrigerated Dryers

Corrosion-resistant heat exchangers, an enhanced control-system and high-efficiency moisture-separation ensure a steady long-term supply of dry air. This virtually eliminates cost due to ruined product finishes, scrapped materials or replacement of pneumatic tools and manufacturing equipment destroyed by wet air.





Novid Stainless Steel CHEMICAL TANKS

Our priority is to provide a safe, secure and sanitary solution for all your chemical tank storage needs. Our tanks are designed for long term storage and are built to last.

All Novid chemical tanks are environmentally friendly and manufactured using corrosive resistant 304 or 316 stainless steel.

Stainless Steel eliminates the need for repairs or paint touch ups and has the potential to last indefinitely.

Safe storage of chemicals always includes a combination of following best practices and using the best/most cost effective storage systems.

Novid is CWB Division 2 certified, and we understand the importance of using accurate and superior welding procedures and processes in order to deliver the best product.

Stamped engineered drawings for site specific requirements are available upon request.

CHEMICAL TANK FEATURES

- Butt Welded Joints
- 18" Top Manway
- 2 Lifting Lugs
- 2x 2" Couplers
- 2" Bottom Discharge and Pipe
- Roof Vent

OPTIONS

- SS Ladder/Cage
- 3" or 4" Fittings
- Flange Fittings
- 3/4" Sight Tube
- Poly or SS Eductors
- Pressure Vacuum Vent
- Custom Designs
- Manufactured for Potable Water Storage



CUSTOM SIZES

We design and build tanks to meet your needs. If you require an alternate sized tank that is not listed in our charts, contact us to get started!

CWB DIVISION 2 CERTIFIED

There is no room for compromise with Novid Inc. chemical tanks. Novid Inc. is CWB Division 2 certified, and understands the importance of using correct welding procedures and processes in order to deliver the best product. All Novid Inc. welders are trained and certified to weld stainless steel.

Novid Stainless Steel STORAGE TANKS

Using only corrosive resistant 304 or 316 stainless steel which ensures longevity, we continuously strive to optimize product quality in order to meet and exceed our customer's changing needs, while always being mindful of each project's timeline and budget.

Novid continues to be a leader in developing innovative and economical solutions. Our knowledgeable sales team will walk you through our extensive list of product offerings and work with you to ensure you get the most suitable and economical product for your specific needs.

LIQUID STORAGE TANK FEATURES

- Butt Welded Joints
- 24" Reinforced Manway
- 4 Lift Lugs
- HD Anchor Tabs
- 4" PVC Suction Coupler at 90 degree angle
- 3" PVC Fill Coupler at 45 degree angle
- 3" Roof Vent 3/4" Sight Tube

OPTIONS

- Stainless Steel Ladder/Cage
- 4" Fittings
- Sloped Floor
- Roof Manway
- Flange Fittings
- Manufactured for Potable Water Storage



Economical Solutions

Our stainless steel products are environmentally friendly and don't require on-site paint touch-ups, so you don't have to worry about maintenance. We strive to bring exceptional value to our customer's operations while helping to reduce their long term costs.



Family Owned, Customer Focused

Our products are available in a variety of sizes and our goal is to assist you in choosing the most economical choice for your particular situation. We offer products for every size operation, ranging from large Ag retailers to an average family farm. Novid is a family owned, customer focused organization. For us, good is never good enough. We strive to provide our customers with the best products on the market and our continued focus on research and development enables us to produce some of the industry's most innovative, durable and economical products available today.

FIBERGLASS TANKS

TANKS



Storage Tanks Include:

- (2) 3" couplings
- Sight tube
- Top inspection plate
- Wind guard
- 24" side manway
- Gallon strip
- Lift & tie down brackets
- Vent

All brackets are stainless steel.
Tanks are custom to customers specifications.



Call For Pricing on the Complete Line of Fiberglass Tanks



Fiberglass Truck Tanks

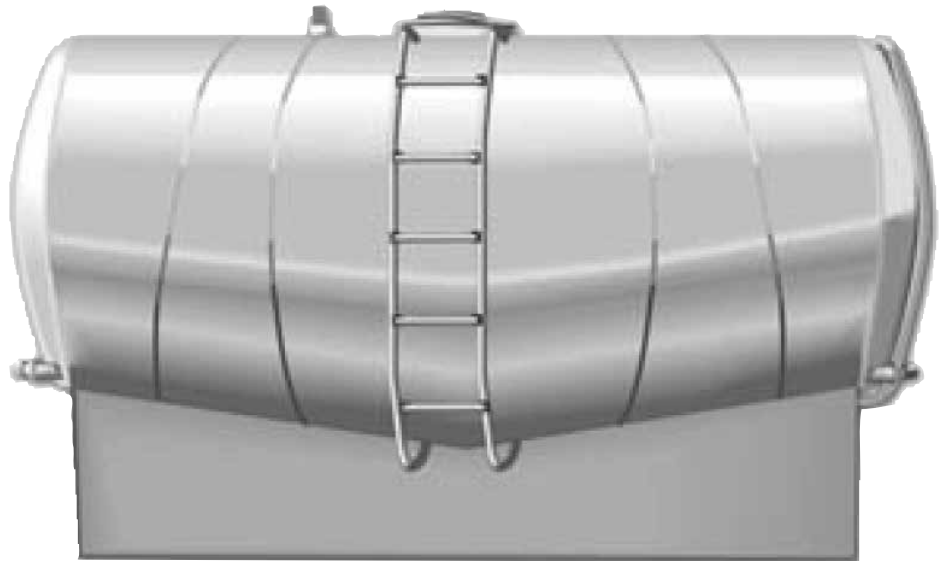
Round Gallons	Round Dimensions
250	3' x 4' 10"
300	3' x 6'
400	4' x 5'
500	4' x 5'
600	4' x 6'
800	4' x 8'
1,000	5' x 6' 10"
1,200	5' x 8' 3"
1,250	5' x 8' 7"
1,400	5' x 9' 6"
1,500	5' x 10' 3"
1,600	5' x 10' 11"
1,800	6' x 8' 6"
2,000	6' x 9' 6"
2,500	6' x 11' 10"

Oval Gallons	Round Dimensions
1,000	52" x 72" x 6' 7"
1,200	52" x 72" x 7' 11"
1,250	52" x 72" x 8' 3"
1,500	52" x 72" x 9' 10"
1,500	62" x 90" x 6' 10"
1,600	52" x 72" x 10' 5"
1,800	52" x 72" x 11' 10"
1,800	62" x 90" x 8' 2"
2,000	52" x 72" x 13' 1"
2,000	62" x 90" x 9'
2,500	52" x 72" x 16' 7"
2,500	62" x 90" x 11' 4"
3,000	62" x 90" x 13' 6"
3,200	62" x 90" x 14' 6"
3,360	62" x 90" x 15'
3,500	62" x 90" x 15' 10"

Precision 304 Stainless Steel Nurse Tanks are constructed to withstand the demands of an agricultural nurse tank that operates in the field. They are custom built to your specifications.



Size	Dimensions	Baffles	Shell
1,600	60" x 120" x 137"	1	12 Gal
1,800	60" x 144" x 161"	1	12 Gal
2,000	60" x 156" x 173"	2	12 Gal
2,450	66" x 156" x 178"	2	12 Gal
3,300	72" x 180" x 202"	2	12 Gal
3,500	72" x 192" x 214"	2	12 Gal



Double conical tanks are equipped with the following fittings and assembly:

- 1½" sight gauge fittings on each end
- 3" outlets, vents, lifting lugs, ladder
- 2" SS Sparge Tube
- Double reinforced baffles
- 16" manway and stainless steel skirts.

Size	Dimensions	Compartments	Outlets
3,200	60" x 84" x 180"	2	3"

ACE ROTO-MOLD - VERTICAL TANKS DOME TOP

TANKS

4

VERTICAL TANKS

Vertical Tanks are free standing with a flat bottom for indoor or outdoor installations. Tanks are manufactured from medium- or high-density polyethylene with UV inhibitors. Ace Roto-Mold Vertical Tanks conform to the requirements of NSF/ANSI Standard 61. Tank walls are translucent for level viewing and equipped with gallon indicators. Please consult factory regarding approved colors.

VERTICAL TANKS - DOME TOP

Syphon tube included with tanks 300 gallon or greater
Additional water only tanks available



VT1050-86

VT1500-86

VT2050-86

NEW

NEW

Ace Roto-Mold®

A DIVISION OF DEN HARTOG INDUSTRIES, INC.

VT15500-142

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (DIA X HEIGHT)	LID	FITTING	SPECIFIC GRAVITY
VT0010-12†	10 GAL	9	12 X 25	8"	3/4"	2.0
VT0020-16†	20 GAL	15	16 X 28	8"	3/4"	2.0
VT0025-18†	25 GAL	14	18 X 30	5"	3/4"	2.0
VT0040-18†	40 GAL	19	18 X 43	5"	3/4"	2.0
VT0055-20†	55 GAL	23	20 X 47	5"	1"	2.0
VT0065-23†	65 GAL	27	23 X 42	5"	1"	2.0
VT0110-32	110 GAL	42	32 X 41	5"	2" TOP	2.0
VT0135-23	135 GAL	47	23 X 82	16"	1"	2.0
VT0300-42	300 GAL	74	42 X 55	8"	2"	2.0
VT0405-52	405 GAL	92	52 X 48	8"	2"	2.0
VT0425-42	425 GAL	102	42 X 75	8"	2"	2.0
VT0505-46	505 GAL	120	46 X 80	16"	2"	2.0
VT0550-52	550 GAL	118	52 X 66	8"	2"	2.0
VT0600-46	600 GAL	132	46 X 91	16"	2"	2.0
VT0625-64	625 GAL	102	64 X 50	8"	2"	2.0
VT0800-46	800 GAL	177	46 X 118	16"	2"	1.7
VT0900-46	900 GAL	222	46 X 132	16"	2"	1.7
VT1000-64	1000 GAL	252	64 X 81	16"	2"	1.7
VT1050-86	1050 GAL	192	86 X 54	16"	2"	1.7
VT1200-64	1200 GAL	277	64 X 97	16"	2"	1.7
VT1350-86	1350 GAL	230	86 X 65	16"	2"	1.7
VT1500-64	1500 GAL	337	64 X 115	16"	2"	1.7
VT1500-86	1500 GAL	252	86 X 69	16"	2"	1.7
VT1525-64	1525 GAL	352	64 X 122	16"	2"	1.7
VT1650-86	1650 GAL	280	86 X 74	16"	2"	1.7
VT2000-64	2000 GAL	467	64 X 156	16"	2"	1.7
VT2000-90	2000 GAL	377	91 X 84	16"	2"	1.7
VT2050-86	2050 GAL	402	86 X 93	16"	2"	1.7
VT2150-102	2150 GAL	417	102 X 71	16"	2"	1.7
VT2500-90	2500 GAL	422	91 X 103	16"	2"	1.7
VT2500-96	2500 GAL	445	96 X 92	16"	2"	1.7
VT3000-90	3000 GAL	552	91 X 120	16"	2"	1.7
VT3000-96	3000 GAL	582	96 X 109	16"	2"	1.7
VT3100-102*	3100 GAL	552	102 X 103	16"	2"	1.7
VT3400-102*	3400 GAL	587	102 X 107	16"	2"	1.7
VT4000-96*	4000 GAL	902	96 X 140	16"	2"	1.7
VT4200-96*	4200 GAL	952	96 X 148	16"	2"	1.7
VT4995-142*	4995 GAL	952	142 X 90	16"	3"	1.7
VT5000-102*	5000 GAL	1302	102 X 156	16"	3"	1.7
VT5150-102*	5150 GAL	1352	102 X 161	16"	3"	1.7
VT6250-102*	6250 GAL	1552	102 X 194	16"	3"	1.7
VT6500-120*	6500 GAL	1502	120 X 152	16"	3"	1.7
VT7000-142*	7000 GAL	1752	142 X 125	16"	3"	1.7
VT7800-120*	7800 GAL	1902	120 X 176	16"	3"	1.7
VT8000-120*	8000 GAL	1932	120 X 180	16"	3"	1.7
VT9000-142*	9000 GAL	2002	142 X 154	16"	3"	1.7
VT9150-120*	9150 GAL	2202	120 X 203	16"	3"	1.7
VT9500-120*	9500 GAL	2352	120 X 213	16"	3"	1.7
VT10500-2500*	10,500 GAL	2502	142 X 177	16"	3"	1.6
VT10500-2800*	10,500 GAL	2802	142 X 177	16"	3"	1.8
VT12500-142*	12,500 GAL	3402	142 X 208	16"	3"	1.7
VT15500-142*	15,500 GAL	4002	142 X 247	16"	3"	1.7

Warning: Cancer and Reproductive Harm. www.P65Warnings.ca.gov

† INDICATES CAN BE SHIPPED VIA UPS/FED EX * HEAVY DUTY FITTING

VERTICAL TANKS - FLAT TOP Featuring additional flats for fitting installation or mounting

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (DIA X HEIGHT)	LID	FITTINGS	SPECIFIC GRAVITY
VT0075-23†	75 GAL	30	23 X 50	7"	1"	2.0
VT0100-28†	100 GAL	38	28 X 45	7"	1"	2.0
VT0105-23†	105 GAL	40	23 X 65	7"	1"	2.0
VT0130-32	130 GAL	47	32 X 46	8"	1"	2.0
VT0135-28	135 GAL	47	28 X 59	8"	1"	2.0
VT0160-28	160 GAL	58	28 X 68	8"	1"	2.0
VT0175-31	175 GAL	56	31 X 61	8"	1 1/2"	2.0
VT0180-40	180 GAL	50	40 X 45	5"	2" TOP	2.0
VT0210-40	210 GAL	58	40 X 49	5"	2" TOP	2.0
VT0225-31	225 GAL	67	31 X 76	8"	1 1/2"	2.0
VT0265-31	265 GAL	76	31 X 88	8"	1 1/2"	2.0
VT0295-42	295 GAL	74	42 X 55	16"	2"	2.0
VT0300-35	300 GAL	88	35 X 81	8"	2"	2.0
VT0420-42	420 GAL	102	42 X 75	16"	2"	2.0
VT0500-46	500 GAL	120	46 X 77	8"	2"	2.0
VT0850-54	850 GAL	184	54 X 94	8"	2"	1.7

† INDICATES CAN BE SHIPPED VIA UPS/FED EX

VERTICAL STANDS

PART NUMBER	DESCRIPTION	WEIGHT	DIMENSIONS (DIA X HEIGHT)
VT28/31-STP†	31-1/2" POLY STAND	35	39 X 24
VT-ST052	52" POLY STAND	165	52 X 36
VT-ST052FF	52" FOAM FILLED POLY STAND	201	52 X 36
VT160-28ST	160 GAL METAL STAND	83	30 X 26
VT265-31ST	265 GAL METAL STAND	89	33 X 26
VT300-35ST	300 GAL METAL STAND	114	37 X 38

† INDICATES CAN BE SHIPPED VIA UPS/FED EX

GUSSETED TANKS

Gusseted Top Vertical Tanks are free standing with a flat bottom for indoor or outdoor installations. Tanks are manufactured from medium-density polyethylene with UV inhibitors and designed for containment of liquids. Tank walls are translucent for level viewing and equipped with gallon indicators.



GV7000-142

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (DIA X HEIGHT)	LID	FITTINGS	SPECIFIC GRAVITY
GV1050-86	1050 GAL	177	86 X 50	16"	2"	1.5
GV1350-86	1350 GAL	209	86 X 62	16"	2"	1.5
GV1500-86	1500 GAL	230	86 X 69	16"	2"	1.5
GV1650-86	1650 GAL	257	86 X 74	16"	2"	1.5
GV4995-142	4995 GAL	952	142 X 97	16"	3"	1.7
GV7000-142	7000 GAL	1752	142 X 127	16"	3"	1.7
GV10500-2500	10500 GAL	2502	142 X 179	16"	3"	1.5
GV10500-2800	10500 GAL	2802	142 X 179	16"	3"	1.7
GV12500-142	12500 GAL	3402	142 X 208	16"	3"	1.7
GV15500-142	15500 GAL	4002	142 X 253	16"	3"	1.7

WATER ONLY TANKS Additional water only tanks available

Water Only Vertical Tanks are free standing for indoor or outdoor stationary applications. Tanks are manufactured from FDA compliant high-density polyethylene with UV inhibitors. Available in dark green or black.

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (DIA X HEIGHT)	LID	FITTINGS	SPECIFIC GRAVITY
WO2500-VT	2500 GAL	392	96 X 92	16"	2"	1.0
WO3000-VT	3000 GAL	487	96 X 109	16"	2"	1.0



VT0265-31

VT0850-54

VT300-35ST

Warning: Cancer and Reproductive Harm.
www.P65Warnings.ca.gov

ACE ROTO-MOLD - VERTICAL & CONE BOTTOM BATCH TANKS

TANKS

6

VERTICAL & CONE BOTTOM BATCH TANKS, STANDS & LIDS

Batch Tanks are designed for indoor applications. The tanks support many features including vertical, open top vertical, cone bottom, as well as open top cone bottom options. All tanks feature 8" lids and one standard fitting. A hinged lid option is also available on the open top styles. Both polyethylene and metal stands designed for all styles make these tanks very versatile. Tanks are manufactured from medium-density polyethylene with UV inhibitors and are designed for the containment of liquids up to 2.0 specific gravity. Tank walls are translucent for level viewing and equipped with liter and gallon indicators.



VT0200-36

CB0200-36

Ace Roto-Mold®
A DIVISION OF DEN HARTOG INDUSTRIES, INC.



OC0200-36



OC036-STP
(WITH ADAPTOR)

Warning: Cancer and Reproductive Harm.
www.P65Warnings.ca.gov

VERTICAL BATCH TANKS

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (DIA X HEIGHT)	LID	FITTINGS	SPECIFIC GRAVITY
VT0055-23†	55 GAL	26	23 X 38	8"	1"	2.0
VT0100-23	100 GAL	36	23 X 64	8"	1"	2.0
VT0145-36	145 GAL	52	36 X 40	8"	1"	2.0
VT0200-36	200 GAL	58	36 X 53	8"	1 1/2"	2.0
VT0250-36	250 GAL	76	36 X 62	8"	1 1/2"	2.0
VT0325-36	325 GAL	92	36 X 81	8"	2"	2.0

† INDICATES CAN BE SHIPPED VIA UPS/FED EX

VERTICAL BATCH TANKS - OPEN TOP

All tanks come with bolt-on top

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (DIA X HEIGHT)	LID	FITTINGS	SPECIFIC GRAVITY
OP0055-23†	55 GAL	26	23 X 36	8"	1"	2.0
OP0100-23	100 GAL	36	23 X 62	8"	1"	2.0
OP0145-36	145 GAL	52	36 X 39	8"	1"	2.0
OP0200-36	200 GAL	58	36 X 51	8"	1 1/2"	2.0
OP0250-36	250 GAL	76	36 X 61	8"	1 1/2"	2.0
OP0325-36	325 GAL	92	36 X 80	8"	2"	2.0

† INDICATES CAN BE SHIPPED VIA UPS/FED EX

CONE BOTTOM BATCH TANKS

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (DIA X HEIGHT)	LID	FITTINGS	SPECIFIC GRAVITY
CB0055-23†	55 GAL - 15°	26	23 X 39	8"	1 1/2"	2.0
CB0100-23	100 GAL - 15°	36	23 X 65	8"	1 1/2"	2.0
CB0145-36	145 GAL - 15°	52	36 X 43	8"	2"	2.0
CB0200-36	200 GAL - 15°	58	36 X 55	8"	2"	2.0
CB0250-36	250 GAL - 15°	76	36 X 67	8"	2"	2.0
CB0325-36	325 GAL - 15°	92	36 X 84	8"	2"	2.0

STAND IS REQUIRED

† INDICATES CAN BE SHIPPED VIA UPS/FED EX

CONE BOTTOM BATCH TANKS - OPEN TOP

All tanks come with bolt-on top

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (DIA X HEIGHT)	LID	FITTINGS	SPECIFIC GRAVITY
OC0055-23†	55 GAL - 15°	26	23 X 37	8"	1 1/2"	2.0
OC0100-23	100 GAL - 15°	36	23 X 63	8"	1 1/2"	2.0
OC0145-36	145 GAL - 15°	52	36 X 41	8"	2"	2.0
OC0200-36	200 GAL - 15°	58	36 X 53	8"	2"	2.0
OC0250-36	250 GAL - 15°	76	36 X 65	8"	2"	2.0
OC0325-36	325 GAL - 15°	92	36 X 82	8"	2"	2.0

STAND IS REQUIRED

† INDICATES CAN BE SHIPPED VIA UPS/FED EX

BATCH TANK LIDS & STANDS

PART NUMBER	DESCRIPTION	WEIGHT
19502	23" HINGED LID	8
19505	36" HINGED LID	14
OC023-STP	23" POLY CONE BOTTOM STAND	45
19506	23" POLY VERTICAL STAND ADAPTER	7
OC036-STP	36" POLY CONE BOTTOM STAND	92
19507	36" POLY VERTICAL STAND ADAPTER	15
CB023-15ST	23" METAL STAND	37
CB036-15ST	36" METAL STAND	84

Cone Bottom Tanks are selected when a more complete drain out of stored chemical is required in indoor or outdoor installations. Tanks require stands to support the conical bottoms. Tanks are manufactured from medium- or high-density polyethylene with UV inhibitors. Tank walls are translucent for level viewing and equipped with gallon indicators.

CONE BOTTOM TANKS - FLAT TOP

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (DIA X HEIGHT)	OVERALL HEIGHT (INCLUDING STAND)	LID	FITTINGS	SPECIFIC GRAVITY
CB0150-36	150 GAL - 45°	63	36 X 51	63"	12"	2"	2.0
CB0200-42	200 GAL - 45°	77	42 X 55	67"	12"	2"	2.0
CBFD240-42	240 GAL - 45° FULL DRAIN	77	42 X 59	69"	12"	2"	2.0
CB0345-52	345 GAL - 45°	102	52 X 58	70"	12"	2"	2.0
CB0350-42	350 GAL - 45°	120	42 X 81	93"	12"	2"	2.0
CB0500-52	500 GAL - 45°	132	52 X 81	92"	12"	2"	2.0
CB0850-90	850 GAL - 15°	212	91 X 56	67"	16"	2"	1.7
CB1150-90	1150 GAL - 15°	242	91 X 67	78"	16"	2"	1.7
CB1550-90	1550 GAL - 30°	286	91 X 88	97"	16"	2"	1.7
CB2450-90	2450 GAL - 15°	437	91 X 114	125"	16"	2"	1.7
CB2550-90	2550 GAL - 30°	502	91 X 126	134"	16"	2"	1.7

STAND IS REQUIRED



CB350-42



CB0850-90

CONE BOTTOM TANKS - DOME TOP

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (DIA X HEIGHT)	OVERALL HEIGHT (INCLUDING STAND)	LID	FITTINGS	SPECIFIC GRAVITY
CB0300-42	300 GAL - 45°	102	42 X 67	79"	16"	2"	2.0
CB0800-86	800 GAL - 15°	182	86 X 48	58"	16"	2"	1.7
CB1000-64	1000 GAL - 45°	252	64 X 98	112"	16"	2"	1.7
CB1000-90	1000 GAL - 15°	212	91 X 54	64"	16"	2"	1.7
CB1005-64	1005 GAL - 15°	222	64 X 86	105"	16"	2"	1.7
CB1200-90	1200 GAL - 15°	242	91 X 62	74"	16"	2"	1.7
CB1300-90	1300 GAL - 15°	262	91 X 65	75"	16"	2"	1.7
CB1490-64	1490 GAL - 45°	342	64 X 132	146"	16"	2"	1.7
CB1500-64	1500 GAL - 15°	332	64 X 122	141"	16"	2"	1.7
CB1500-96	1500 GAL - 30°	252	96 X 80	92"	16"	2"	1.7
CB1600-90	1600 GAL - 30°	286	91 X 85	94"	16"	2"	1.7
CB1700-86	1700 GAL - 15°	286	86 X 85	96"	16"	2"	1.7
CB2000-96	2000 GAL - 30°	292	96 X 96	108"	16"	2"	1.7
CB2495-90	2495 GAL - 30°	487	91 X 119	129"	16"	2"	1.7
CB2500-90	2500 GAL - 15°	437	91 X 111	122"	16"	2"	1.7
CB2600-90	2600 GAL - 30°	502	91 X 123	132"	16"	2"	1.7
CB2600-86	2600 GAL - 45°	502	86 X 146	158"	16"	2"	1.7
CB3000-90	3000 GAL - 15°	552	91 X 128	138"	16"	2"	1.7
CB3000-96	3000 GAL - 30°	552	96 X 125	137"	16"	2"	1.7
CB4200-122	4200 GAL - 15°	1102	122 X 113	126"	16"	3"	1.7
CB4600-102	4600 GAL - 15°	1202	102 X 155	166"	16"	2"	1.7
CB4900-102	4900 GAL - 15°	1302	102 X 159	170"	16"	2"	1.7
CB6000-122	6000 GAL - 15°	1602	122 X 150	162"	16"	3"	1.7
CB6900-122	6900 GAL - 15°	1702	122 X 168	178"	16"	3"	1.7
CB8250-122	8250 GAL - 15°	2102	122 X 195	206"	16"	3"	1.7

STAND IS REQUIRED

CB1005-64

CB8250-122



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ACE ROTO-MOLD - CONE BOTTOM TANKS & STANDS

TANKS

8

8
CONE BOTTOM TANKS & STANDS

CONE BOTTOM STANDS

PART NUMBER	DESCRIPTION	WEIGHT	DIMENSIONS (DIA X HEIGHT)	CLEARANCE
CB036-45ST	150 GAL - 45°	63	64 X 61	12"
CB042-45ST	200, 300 OR 350 GAL - 45°	82	41 X 34	11"
CBFD042-45ST	240 GAL FULL DRAIN - 45°	82	42 X 42	10"
CB052-45ST	345 OR 500 GAL - 45°	174	55 X 41	13"
CB064-15ST	1005 OR 1500 GAL - 15°	320	64 X 25	16"
CB064-45ST	1000 OR 1490 GAL - 45°	320	64 X 61	14"
CB086-15ST	800 OR 1700 GAL - 15°	360	86 X 23	11"
CB086-45ST	2600 GAL - 45°	580	86 X 49	12"
CB090-15ST	850, 1000, 1150, 1200, 1300, 2450, 2500 OR 3000 GAL - 15°	380	90 X 24	11"
CB090-30ST	1550, 1600, 2550 OR 2600 GAL - 30°	640	94 X 40	9"
CB096-30ST	1500, 2000, 3000 GAL - 30°	553	96 X 38	12"
CB102-15ST	4600 OR 4900 GAL - 15°	640	102 X 25	11"
CB122-15ST	4200, 6000, 6900 OR 8250 GAL - 15°	1020	122 X 27	10"



CB096-30ST

CONE BOTTOM TANKS - OPEN TOP

All tanks come with bolt-on top
Open Top Tanks are selected for collection systems, temporary liquid storage or as secondary containment for tanks in indoor or outdoor stationary installations. Tanks require stands to support the conical bottoms. Tanks are manufactured from medium- or high-density polyethylene with UV inhibitors. Tank walls are translucent for level viewing and equipped with gallon indicators.

PART NUMBER	DESCRIPTION	WEIGHT	DIMENSIONS (DIA X HEIGHT)	OVERALL HEIGHT	FITTINGS	SPECIFIC GRAVITY
OC0840-90	840 GAL - 15°	214	91 X 49	61"	2"	1.7
OC1010-64	1,010 GAL - 45°	252	64 X 99	113"	2"	1.7
OC1050-90	1,050 GAL - 15°	242	91 X 57	69"	2"	1.7
OC1150-90	1,150 GAL - 15°	262	91 X 60	72"	2"	1.7
OC1450-90	1,450 GAL - 30°	286	91 X 79	89"	2"	1.7
OC1500-64	1,500 GAL - 45°	342	64 X 134	147"	2"	1.7
OC1710-86	1,710 GAL - 15°	286	86 X 87	98"	2"	1.7
OC2350-90	2,350 GAL - 15°	437	91 X 106	118"	2"	1.7
OC2440-90	2,440 GAL - 30°	502	91 X 117	127"	2"	1.7
OC2610-86	2,610 GAL - 45°	502	86 X 147	158"	2"	1.7

STAND IS REQUIRED

CONE BOTTOM TANKS - OPEN TOP STANDS

PART NUMBER	DESCRIPTION	WEIGHT	DIMENSIONS (DIA X HEIGHT)	CLEARANCE
CB064-45ST	1010 OR 1500 GAL - 45°	320	64 X 61	14"
CB086-15ST	1710 GAL - 15°	360	86 X 23	11"
CB086-45ST	2610 GAL - 45°	580	86 X 49	12"
CB090-15ST	840, 1050, 1150, OR 2350 GAL - 15°	380	90 X 24	11"
CB090-30ST	1450 OR 2440 GAL - 30°	640	90 X 40	9"


OC1010-64



OC1710-86




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INDUCTOR TANKS

Inductor Tanks are selected as supply tanks for indoor or outdoor applications and feature conical bottoms to facilitate liquid drain out. Full-Drain tanks are available with molded in threaded outlet for complete drainage. Tanks require stands to support the conical bottoms. These tanks are manufactured from medium-density polyethylene with UV inhibitors and designed for containment of liquids of up to 1.7 specific gravity. Tank walls are translucent for level viewing and equipped with gallon indicators.

PART NUMBER	CAPACITY	DESCRIPTION	WEIGHT	DIMENSIONS (DIA X HEIGHT)	LID	FITTINGS	SPECIFIC GRAVITY
INFD7-15†	7 GAL	FULL DRAIN	8	15 X 21	8"	1 1/2" FPT BOSS	1.7
INFD10-15	10 GAL	FULL DRAIN	10	15 X 25	8"	1 1/2" FPT BOSS	1.7
IN0015-19†	15 GAL		12	19 X 24	12"	2" FPT	1.7
INFD15-19†	15 GAL	FULL DRAIN	12	19 X 27	12"	1 1/2" FPT BOSS	1.7
IN0015-19SM†	15 GAL	SIDE MOUNT	10	19 X 24	12"	2" FPT	1.7
IN0030-24†	30 GAL		17	24 X 30	12"	2" FPT	1.7
INFD30-24†	30 GAL	FULL DRAIN	17	24 X 33	12"	1 1/2" FPT BOSS	1.7
INFD040-30†	40 GAL	FULL DRAIN	26	30 X 34	12"	2" MPT BOSS	1.7
IN0055-24†	55 GAL		24	24 X 42	12"	2" FPT	1.7
INFD55-24†	55 GAL	FULL DRAIN	24	24 X 46	12"	1 1/2" FPT BOSS	1.7
INFD60-30†	60 GAL	FULL DRAIN	28	30 X 38	16"	2" MPT BOSS	1.7
IN0085-30†	85 GAL		37	30 X 43	12"	2" FPT	1.7
INFD85-30	85 GAL	FULL DRAIN	37	30 X 48	12"	2" FPT BOSS	1.7
IN0110-30	110 GAL		44	30 X 51	12"	2" FPT	1.7
INFD110-30	110 GAL	FULL DRAIN	44	30 X 56	12"	2" FPT BOSS	1.7

STAND IS REQUIRED
 † INDICATES CAN BE SHIPPED VIA UPS/FED EX



INDUCTOR STANDS

PART NUMBER	CAPACITY	DESCRIPTION	WEIGHT
INFD7-10-ST†	7 OR 10 GAL	FOR 15" DIA TANK	12
IN15-ST†	15 GAL	FOR 15' DIA TANK	15
INFD15-ST†	15 GAL	4" TALLER FOR FULL DRAIN	16
IN30/55-ST†	30 OR 55 GAL	FOR 24" DIA TANK	18
INFD30/55-ST	30 OR 55 GAL	4" TALLER FOR FULL DRAIN	19
IN40/85-ST†	40, 60, 85, OR 110 GAL	FOR 30" DIA TANK	40
IN40-ST†	40 GAL	FOR UPS SHIPMENTS	40
INFD40/85-ST†	40, 60, 85, OR 110 GAL	4" TALLER FOR FULL DRAIN	45

† INDICATES CAN BE SHIPPED VIA UPS/FED EX

BLOW MOLD INDUCTOR TANK SET WITH POLYETHYLENE LEGS

Blow Molded Inductor Tank Sets are designed for indoor or outdoor stationary applications. Anchor Kits are available for transportable (non-DOT regulated) applications. Four blow molded polyethylene legs are included that attach directly to the tank with stainless steel hardware. Tanks feature full drain conical bottoms and outlet for complete drainage. Tank walls are translucent for level viewing and equipped with gallon/liter indicators. Tanks are manufactured from high-density polyethylene with UV inhibitors and are designed for the containment of liquids of up to 1.7 specific gravity.

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (CASE)	LID	FITTINGS	SPECIFIC GRAVITY
IBFD10-SET†	10 GAL FULL DRAIN	37	18.5" X 21.5" X 32"	12"	2"	1.7
IBFD15-SET†	15 GAL FULL DRAIN	39	18.5" X 21.5" X 32"	12"	2"	1.7
IBFD20-SET†	20 GAL FULL DRAIN	42	18.5" X 21.5" X 32"	12"	2"	1.7
IBFD35-SET†	35 GAL FULL DRAIN	41	25" X 25" X 43"	12"	2"	1.7
IBFD60-SET†	60 GAL FULL DRAIN	47	25" X 25" X 55"	12"	2"	1.7
12695	BLOW MOLD INDUCTOR LEG ANCHOR KIT	2	6" X 6" X 6"			

† INDICATES CAN BE SHIPPED VIA UPS/FED EX



SHOWN WITH OPTIONAL ANCHOR KIT



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www.P65Warnings.ca.gov

ACE ROTO-MOLD - HORIZONTAL TANKS

TANKS

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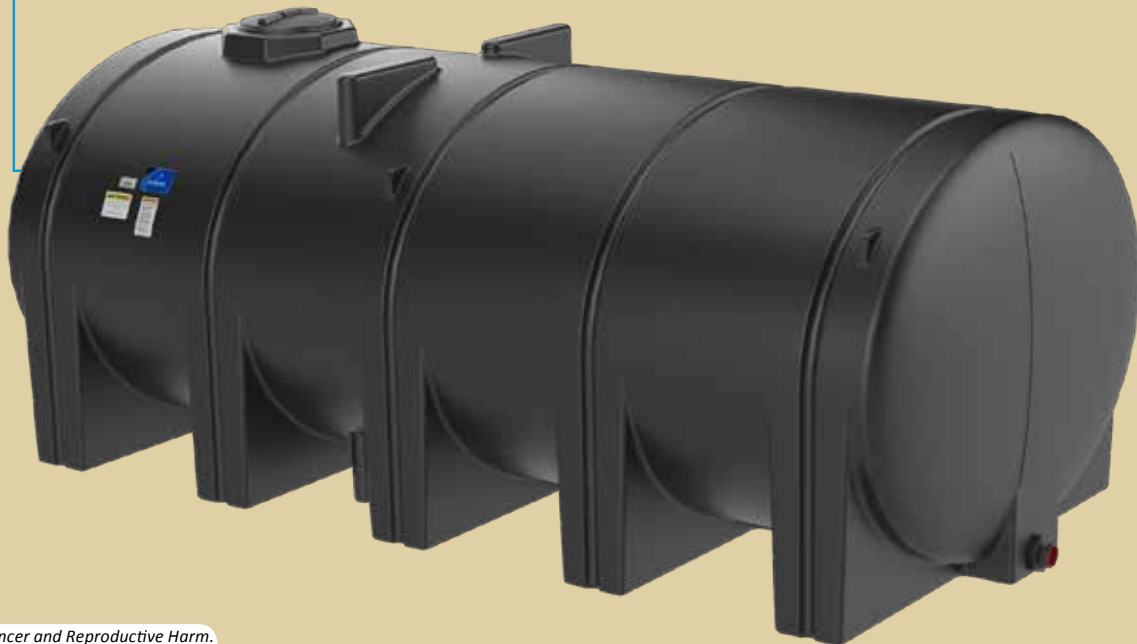
FREE STANDING HORIZONTAL WITHOUT SUMP

Free Standing Horizontal Tanks are selected when transportable (non-DOT regulated) containment is required for indoor or outdoor applications. Tanks are equipped with molded-in legs to support the tank and band/hoop locators for tie down. Tanks are manufactured from medium- or high-density polyethylene with UV inhibitors and designed for containment of liquids of up to 1.7 specific gravity. Tank walls are translucent for level viewing and equipped with gallon indicators.

FREE STANDING HORIZONTAL TANKS WITHOUT SUMP



FS4200-92



PART NUMBER	CAPACITY	HOOPS	DESCRIPTION	WEIGHT	DIMENSIONS (DIA X HEIGHT)	LID	FITTING	SPECIFIC GRAVITY
FS0035-18†	35 GAL			16	18 X 34	5"	1"	1.7
FS0055-23†	55 GAL			22	23 X 34	5"	1"	1.7
FS0065-24†	65 GAL			33	24 X 39	5"	1"	1.7
FS0070-24†	70 GAL		STACKABLE	37	24 X 39	5"	1"	1.7
FS0125-32	125 GAL			54	32 X 44	8"	1"	1.7
FS0165-32	165 GAL			72	32 X 54	8"	1"	1.7
FS0225-38	225 GAL			87	38 X 52	8"	2"	1.7
FS0325-38	325 GAL			108	38 X 72	12"	2"	1.7
FS0335-44	335 GAL			118	44 X 56	16"	2"	1.7
FS0510-57	510 GAL	REQUIRED	ELLIPTICAL	164	57 X 80 X 39	16"	2"	1.7
FS0535-48	535 GAL			162	48 X 78	16"	2"	1.7
FS0735-48	735 GAL	REQUIRED		252	48 X 103	16"	2"	1.7
FS0925-DW	925 GAL	REQUIRED		292	62 X 81	16"	2"	1.7
FS1005-48	1005 GAL	REQUIRED		342	48 X 130	16"	2"	1.7
FS1035-78	1035 GAL	REQUIRED	ELLIPTICAL	292	78 X 90 X 52	16"	2"	1.7
FS1065-56W	1065 GAL	REQUIRED		342	56 X 105	16"	2"	1.7
FS1300-DW	1300 GAL	REQUIRED		427	62 X 114	16"	2"	1.7
FS1610-78	1610 GAL	REQUIRED	ELLIPTICAL	530	78 X 139 X 56	16"	2"	1.7
FS1750-62W	1750 GAL	REQUIRED		616	62 X 147	16"	2"	1.7
FS1800-2W	1800 GAL	REQUIRED	MULTI TANKS (2)	580	62 X 149	16"	2"	1.7
FS1850-78	1850 GAL	REQUIRED	ELLIPTICAL	571	78 X 139 X 63	16"	2"	1.7
FS2350-88	2350 GAL	REQUIRED	ELLIPTICAL	920	88 X 146 X 63	16"	2"	1.7
FS2600-2W	2600 GAL	REQUIRED	MULTI TANKS (2)	850	62 X 212	16"	2"	1.7
FS2750-88	2750 GAL	REQUIRED	ELLIPTICAL	1150	88 X 146 X 70	16"	2"	1.7
FS3250-88	3250 GAL	REQUIRED	ELLIPTICAL	1208	88 X 146 X 79	16"	3"	1.7
FS3750-88	3750 GAL	REQUIRED	ELLIPTICAL	1422	88 X 146 X 91	16"	3"	1.7
FS4200-92	4200 GAL	REQUIRED	ELLIPTICAL	1648	92 X 195 X 80	16"	3"	1.7
FS4250-88	4250 GAL	REQUIRED	ELLIPTICAL	1617	88 X 146 X 101	16"	3"	1.7

† INDICATES CAN BE SHIPPED VIA UPS/FED EX

Warning: Cancer and Reproductive Harm. www.P65Warnings.ca.gov



FM0925-DS

FREE STANDING HORIZONTAL WITH SUMP

PART NUMBER	CAPACITY	HOOPS	DESCRIPTION	WEIGHT	DIMENSIONS (DIA X HEIGHT)	LID	FITTING	SPECIFIC GRAVITY
FM0015-14S†*	15 GAL			13	14 X 30	5"		1.7
FM0025-16S†*	25 GAL			15	16 X 34	5"		1.7
FM0925-DS*	925 GAL	REQUIRED		292	62 X 81	16"	2"	1.7
FM1010-48*	1010 GAL	REQUIRED		342	48 X 130	16"	2"	1.7
FM1065-56S*	1065 GAL	REQUIRED		342	56 X 105	16"	2"	1.7
FM1300-DS*	1300 GAL	REQUIRED		427	62 X 114	16"	2"	1.7
FM1610-78S*	1610 GAL	REQUIRED	ELLIPTICAL	530	78 X 139 X 58	16"	2"	1.7
FM1750-62S*	1750 GAL	REQUIRED		616	62 X 147	16"	2"	1.7
FM1800-2S*	1800 GAL	REQUIRED	MULTI TANKS (2)	580	62 X 149	16"	2"	1.7
FM1850-78S*	1850 GAL	REQUIRED	ELLIPTICAL	571	78 X 139 X 67	16"	2"	1.7
FM2350-88S*	2350 GAL	REQUIRED	ELLIPTICAL	920	88 X 146 X 63	16"	2"	1.7
FM2600-2S*	2600 GAL	REQUIRED	MULTI TANKS (2)	850	62 X 212	16"	2"	1.7
FM2750-88S*	2750 GAL	REQUIRED	ELLIPTICAL	1150	88 X 146 X 70	16"	2"	1.7
FM3200-2S*	3200 GAL	REQUIRED	MULTITANKS (2) & ELLIPTICAL	1100	88 X 172 X 74	16"	2"	1.7
FM3250-88S*	3250 GAL	REQUIRED	ELLIPTICAL	1208	88 X 146 X 79	16"	3"	1.7
FM3750-88S*	3750 GAL	REQUIRED	ELLIPTICAL	1422	88 X 146 X 91	16"	3"	1.7
NEW FM4200-92*	4200 GAL	REQUIRED	ELLIPTICAL	1648	92 X 195 X 80	16"	3"	1.7
FM4250-88S*	4250 GAL	REQUIRED	ELLIPTICAL	1617	88 X 146 X 101	16"	3"	1.7

† INDICATES CAN BE SHIPPED VIA UPS/FED EX * SKID REQUIRED TO SUPPORT ELEVATED LEGS



FM1750-62S

Used for Lawn and Tree Care



Warning: Cancer and Reproductive Harm. www.P65Warnings.ca.gov

HOOPS, BAFFLES & SKIDS



FS1005-HP



FS3250-LAD



FM2350/3250-SKE

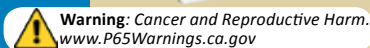


PART NUMBER	CAPACITY/DESCRIPTION	WEIGHT	DIMENSIONS
FS048-HP	735 GAL HOOPS	SET OF 3	1.315 OD
FS062-HP-925	925 GAL HOOPS	SET OF 2	1.66 OD
FS062-HP-1300	1300 GAL HOOPS	SET OF 3	1.66 OD
FS062-HP-1750	1750 GAL HOOPS	SET OF 4	1.66 OD
FS062-HP-1800C	1800 GAL HOOPS	SET OF 4	1.66 OD
FS062-HP-2600C	2600 GAL HOOPS	SET OF 6	1.66 OD
FS0510-HP	510 GAL HOOPS	SET OF 3	1.315 OD
FS1005-HP	1005 GAL HOOPS	SET OF 4	1.315 OD
FM1010-HP	1010 GAL HOOPS	SET OF 4	1.315 OD
FS1035-HP	1035 GAL HOOPS	SET OF 3	1.66 OD
FS1065-HP	1065 GAL HOOPS	SET OF 3	1.315 OD
FS1065-BAF	1065 GAL BAFFLE KIT (OPTIONAL)	38	
FS1610-HP	1610 GAL HOOPS W/O SUMP	SET OF 4	1.66 OD
FM1610-HP	1610 GAL HOOPS W/SUMP	SET OF 4	1.66 OD
FS1850-HP	1850 GAL HOOPS W/O SUMP	SET OF 4	1.66 OD
FM1850-HP	1850 GAL HOOPS W/SUMP	SET OF 4	1.66 OD
FS2350-HP	2350 GAL HOOPS	SET OF 4	1.90 OD
FS2750-HP	2750 GAL HOOPS	SET OF 4	1.90 OD
FM3200-HP	3200 GAL HOOPS	SET OF 4	1.66 OD
FS3250-HP	3250 GAL HOOPS	SET OF 4	1.90 OD
FS3250-LAD	3250 LADDER	56	16 X 78
FS3750-HP	3750 GAL HOOPS	SET OF 4	1.90 OD
FS3750-LAD	3750 LADDER	62	16 X 90
NEW FS4200-HP-92	4200 GAL HOOPS	SET OF 5	1.90 OD
NEW FS4200-HPF-92	4200 GAL HOOPS W/FEET	SET OF 5	1.90 OD
FS4250-HP	4250 GAL HOOPS	SET OF 4	1.90 OD
FS4250-LAD	4250 LADDER	68	16 X 100
FS0925-SK	925 GAL SKID	280	61 X 64
FM1010-SK	1010 GAL SKID	409	53 X 115
FM1065-SKS	1065 GAL SKID W/SUMP	280	61 X 78
FS1065-SKW	1065 GAL SKID W/O SUMP	200	59 X 100
FS1300-SK	1300 GAL SKID	450	64 X 104
FM1610-SKC	1610 OR 1850 GAL SKID CENTER DRAIN	490	83 X 107
FM1610-SKE	1610 OR 1850 GAL SKID END SUMP	490	83 X 112
FS1750-SK	1750 GAL SKID	604	64 X 138
FS1800-SKW	1800 GAL SKID W/O SUMP	382	64 X 125
FM1800-SKS	1800 GAL SKID W/SUMP	580	64 X 125
FS2350/3250-SK	2350, 2750, 3250, 3750, OR 4250 GAL SKID W/O SUMP	1078	88 X 141
FM2350/3250-SKC	2350, 2750, 3250, 3750, OR 4250 GAL SKID CENTER SUMP	1060	88 X 141
FM2350/3250-SKE	2350, 2750, 3250, 3750, OR 4250 GAL SKID END SUMP	1060	88 X 141
FS2600-SK	2600 GAL SKID	900	64 X 201
FS3200-SK	3200 GAL SKID	1163	90 X 168
NEW FM4200-SKCO	4200 GAL SKID CENTER SUMP	1454	92 X 190
NEW FM4200-SKEO	4200 GAL SKID END SUMP	1454	92 X 190
NEW FS4200-SK	4200 GAL SKID W/O SUMP	1454	92 X 190

Baffles

Ace Roto-Mold has developed a unique baffle system that is easy to install and clean. These baffles help to reduce fluid sloshing. Baffle systems come standard in some tanks and offered as an option for others.

Poly baffles for fluid control are inserted through the lid and installed prior to shipment.





FM3750-88
TANK SHOWN WITH
HOOPS AND SKID


Used for Brine Application




Ace Roto-Mold®
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FS4250-88
TANK SHOWN WITH HOOPS,
SKID AND LADDER

 **Warning: Cancer and Reproductive Harm.**
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ACE ROTO-MOLD - BANDS & CRADLES

TANKS

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ROUND HORIZONTAL TANKS & CRADLES



Bands with J-bolt

POWDER-COATED STEEL BANDS with J-bolt

PART NUMBER	DESCRIPTION	WEIGHT	BANDS (W X L)
FS0035-SB†*	35 GAL KIT SILVER	2	2 X 45
FS0065-SB†*	65 GAL KIT SILVER	4	2 X 61
FS125/165-SBPJ†	125/165 GAL KIT SILVER	10.5	3 X 80
FS225/325-SBPJ†	225/325 GAL KIT SILVER	13	3 X 95
FS0335-SBPJ†	335 GAL KIT SILVER	15	3 X 110
FS0535-SBPJ†	535 GAL KIT SILVER	16	3 X 120

† INDICATES CAN BE SHIPPED VIA UPS/FED EX * STAINLESS STEEL BANDS STANDARD



Bands with Feet

POWDER-COATED STEEL BANDS with Feet

PART NUMBER	DESCRIPTION	WEIGHT	BANDS (W X L)
FS0035-SBPF†	35 GAL KIT SILVER	8	2 X 47.5
FS0065-SBPF†	65 GAL KIT SILVER	12	2 X 67
FS125/165-SBPF†	125/165 GAL KIT SILVER	16	2.5 X 84.5
FS225/325-SBPF†	225/325 GAL KIT SILVER	19	2.5 X 99.5
FS0335-SBPF†	335 GAL KIT SILVER	34	2.75 X 116.5
FS0535-SBPF†	535 GAL KIT SILVER	36	2.75 X 125

† INDICATES CAN BE SHIPPED VIA UPS/FED EX

ROUND HORIZONTAL TANKS

Round Horizontal Tanks are selected when transportable (non-DOT regulated) containment is required for indoor or outdoor applications. Tanks require cradles and bands to support the round bottom. All tanks are equipped with drain out sumps. Tanks are manufactured from medium-density polyethylene with UV inhibitors and designed for containment of liquids of up to 1.7 specific gravity. Tank walls are translucent for level viewing and equipped with gallon indicators.



HZ0300-38

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (DIA X HEIGHT)	LID	FITTINGS	SPECIFIC GRAVITY
HZ0025-23†	25 GAL	16	23 X 22	5"	3/4"	1.7
HZ0055-23†	55 GAL	25	23 X 38	5"	3/4"	1.7
HZ0075-24†	75 GAL	33	24 X 47	5"	3/4"	1.7
HZ0095-24†	95 GAL	37	24 X 56	5"	1 1/4"	1.7
HZ0100-23	100 GAL	40	23 X 64	5"	1 1/4"	1.7
HZ0110-30	110 GAL	42	30 X 44	8"	1 1/4"	1.7
HZ0150-30	150 GAL X 30	50	30 X 57	8"	3/4" & 1 1/4"	1.7
HZ0150-32	150 GAL X 32	50	32 X 52	8"	3/4" & 1 1/4"	1.7
HZ0200-32	200 GAL X 32	66	32 X 68	8"	3/4" & 1 1/4"	1.7
HZ0200-38	200 GAL X 38	66	38 X 51	8"	3/4" & 1 1/4"	1.7
HZ0300-38	300 GAL	90	38 X 76	8"	3/4" & 1 1/4"	1.7
HZ0400-42	400 GAL	117	42 X 76	8"	3/4" & 1 1/4"	1.7
HZ0500-48	500 GAL	124	48 X 79	8"	3/4" & 1 1/4"	1.7

† INDICATES CAN BE SHIPPED VIA UPS/FED EX

HORIZONTAL CRADLES



HZ0500-C

PART NUMBER	CAPACITY	WEIGHT	BANDS (W X L)
HZ0025-C*†	25 GAL	18	1.5" X 50"
HZ0055-C*†	55 GAL	24	2" X 50.5"
HZ0075-C†	75 GAL	36	2" X 51.5"
HZ0095-C†	95 GAL	38	2" X 51.5"
HZ0100-C†	100 GAL	40	1.75" X 41.5"
HZ0110-C†	110 GAL	40	2.75" X 60"
HZ0153-C†	150 GAL X 30	57	2.75" X 55"
HZ0150-C	150 GAL X 32	56	2.75" X 56"
HZ0232-C	200 GAL X 32	110	2.75" X 57"
HZ0238-C	200 GAL X 38	85	2.75" X 65"
HZ0300-C	300 GAL	145	2.75" X 69.5"
HZ0400-C	400 GAL	146	2.75" X 76"
HZ0500-C	500 GAL	170	2.75" X 88"

† INDICATES CAN BE SHIPPED VIA UPS/FED EX * STAINLESS STEEL BANDS STANDARD (INCLUDED WITH CRADLE)

Warning: Cancer and Reproductive Harm. www.P65Warnings.ca.gov

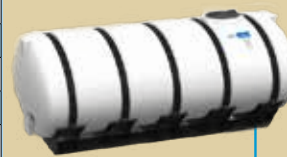
ELLIPTICAL TANKS

Elliptical Tanks can be selected for stationary or transportable (non-DOT regulated) applications both indoor and outdoor. The elliptical tank lowers the center of gravity to enhance stability and visibility. The tanks feature a standard 2 1/2" collection sump on the bottom for full drain out. An 8 1/2" deep sump option is available in five sizes. Sump is located directly under the lid on standard tanks, but a center sump option is available on tanks from 500-1250 gallons. These tanks require the bottom to be fully supported with a cradle for use. The tanks are manufactured from medium-density polyethylene with UV stabilizers and are designed for containment of liquids of up to 1.7 specific gravity. Tank walls are translucent for level viewing and equipped with gallon indicators.

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (W X L X H)	LID	FITTINGS	SPECIFIC GRAVITY
HE0085-36	85 GAL	42	36 X 47 X 21	7"	NONE	1.7
HE0200-41	200 GAL	84	41 X 66 X 26	8"	3/4" & 1 1/4"	1.7
HE0300-48	300 GAL	114	48 X 70 X 30	8"	3/4" & 1 1/4"	1.7
HE0400-57	400 GAL	129	57 X 70 X 36	8"	3/4" & 1 1/4"	1.7
HE0500-57+	500 GAL	167	57 X 82 X 36	8"	3/4" & 1 1/4"	1.7
HED0500-57	500 GAL 8.5" DEEP	167	57 X 82 X 36	8"	3/4" & 1 1/4"	1.7
HE0600-64	600 GAL	187	64 X 84 X 39	16"	3/4" & 1 1/4"	1.7
HE0750-69+	750 GAL	222	69 X 89 X 42	16"	1 1/4" & 2"	1.7
HED0750-69	750 GAL 8.5" DEEP	222	69 X 89 X 42	16"	1 1/4" & 2"	1.7
HE0850-69	850 GAL	248	69 X 89 X 46	16"	1 1/4" & 2"	1.7
HED0850-69	850 GAL 8.5" DEEP	248	69 X 89 X 46	16"	1 1/4" & 2"	1.7
HE1000-78*	1000 GAL	287	78 X 90 X 49	16"	1 1/4" & 2"	1.7
HED1000-78*	1000 GAL 8.5" DEEP	287	78 X 90 X 49	16"	1 1/4" & 2"	1.7
HE1000-BAF	1000 OPTIONAL BAFFLE KIT	41				
HE1250-78†	1250 GAL	402	78 X 92 X 60	16"	1 1/4" & 2"	1.7
HED1250-78†	1250 GAL 8.5" DEEP	402	78 X 92 X 60	16"	1 1/4" & 2"	1.7
HE1600-78†	1600 GAL	439	78 X 138 X 49	16"	2"	1.7
HED1600-78†	1600 GAL 6" DEEP	439	78 X 138 X 49	16"	2"	1.7



HE0300-48



HE1600-78

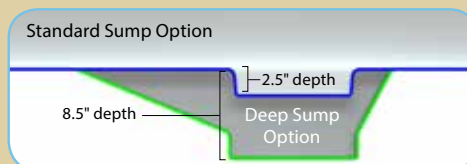
† INDICATES BAFFLE SYSTEM IS STANDARD + AVAILABLE IN FLAT-BOTTOM STYLE
 * INDICATES BAFFLE OPTION AVAILABLE

ELLIPTICAL CRADLES

PART NUMBER	DESCRIPTION	WEIGHT	BANDS (W X L)
HE0085-C	85 GAL	40	2" X 55"
HE0200-C	200 GAL	140	3" X 61"
HE0300-C	300 GAL	155	3" X 74"
HE0400-C	400 GAL	190	4" X 89"
HE0500-C	500 GAL	202	4" X 89"
HE0600-C	600 GAL	243	4" X 92"
HE0750-C	750 GAL	405	4" X 93"
HE0850-C	850 GAL	408	4" X 99"
HE1000-C	1000 GAL	515	4" X 105"
HE1250-C	1250 GAL	520	4" X 126"
HE1600-C	1600 GAL	578	3.5" X 124"

BANDS INCLUDED WITH CRADLES

Drain Options — Available on 500–1,250 gallon tanks



HE0085-C



HE0600-C

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Warning: Cancer and Reproductive Harm.
www.P65Warnings.ca.gov

ACE ROTO-MOLD - CONTAINMENT TANKS

CONTAINMENT TANKS - OPEN TOP

Open Top Tanks are selected for collection systems, temporary liquid storage, or as secondary containment for vertical tanks in indoor or outdoor installations. Tanks are manufactured from medium or high-density polyethylene with UV inhibitors. Tank walls are translucent for level viewing and equipped with gallon indicators. The Open Top Rectangle Tanks (RT) are ONLY for secondary containment purposes. They are not to be utilized for primary storage of liquids.

OP0360-48



VT0265-31
Shown inside

OP1325-RT



PART NUMBER	CAPACITY	DESCRIPTION	WEIGHT	DIMENSIONS (DIA X HEIGHT)	SPECIFIC GRAVITY
OP0055-2DC	2-55 GAL DRUMS		70	34 X 62 X 26	1.7
OP0100-RT^	100 GAL RECTANGLE		26	43 X 43 X 17	1.7
OP0150-RT^	150 GAL RECTANGLE		35	47 X 60 X 16	1.7
OP0200-RT^	200 GAL RECTANGLE		78	66 X 78 X 12	1.7
OP0210-RT^	210 GAL RECTANGLE		52	53 X 65 X 18	1.7
OP0210-40	210 GAL		48	40 X 42	2.0
OP0300-RT	300 GAL RECTANGLE		82	57 X 94 X 18	1.7
OP0325-RT^	325 GAL RECTANGLE		115	60 X 96 X 24	1.7
OP0360-48	360 GAL		115	48 X 51	2.0
OP0425-RT^	425 GAL RECTANGLE		94	69 X 71 X 25	1.7
OP0500-56	500 GAL	COMES WITH BOLT-ON TOP	150	56 X 65	2.0
OP0625-RT^	625 GAL RECTANGLE		145	72 X 108 X 24	1.7
OP0635-64	635 GAL	COMES WITH BOLT-ON TOP	102	64 X 52	1.7
OP0825-RT^	825 GAL RECTANGLE		276	73 X 73 X 66	1.7
OP0900-86	900 GAL		175	86 X 43	1.7
OP1000-74	1000 GAL	COMES WITH BOLT-ON TOP	277	74 X 64	1.7
OP1010-64	1010 GAL	COMES WITH BOLT-ON TOP	252	64 X 83	1.7
OP1060-86	1060 GAL	COMES WITH BOLT-ON TOP	192	86 X 56	1.7
OP1200-86	1200 GAL		200	86 X 54	1.7
OP1210-64	1210 GAL	COMES WITH BOLT-ON TOP	277	64 X 100	1.7
OP1325-RT^	1325 GAL RECTANGLE		360	84 X 84 X 60	1.7
OP1350-86	1350 GAL		217	86 X 62	1.7
OP1360-86	1360 GAL	COMES WITH BOLT-ON TOP	230	86 X 67	1.7
OP1500-86	1500 GAL		240	86 X 68	1.7
OP1505-64	1505 GAL	COMES WITH BOLT-ON TOP	337	64 X 117	1.7
OP1510-86	1510 GAL	COMES WITH BOLT-ON TOP	252	86 X 71	1.7
OP1660-86	1660 GAL	COMES WITH BOLT-ON TOP	280	86 X 76	1.7
OP1700-90	1700 GAL		317	91 X 66	1.7
OP1825-RT^	1825 GAL RECTANGLE		520	96 X 96 X 62	1.7
OP2000-RT^	2000 GAL RECTANGLE		570	96 X 96 X 68	1.7
OP2010-64	2010 GAL	COMES WITH BOLT-ON TOP	465	64 X 158	1.7
OP2060-86	2060 GAL	COMES WITH BOLT-ON TOP	402	86 X 95	1.7
OP2200-90	2200 GAL		365	91 X 85	1.7
OP2700-90	2700 GAL		480	91 X 103	1.7
OP3300-102	3300 GAL		550	102 X 105	1.7
OP3700-96	3700 GAL		625	96 X 128	1.7
OP6800-120	6800 GAL		1525	120 X 146	1.7

^ RT TANKS DESIGNED FOR SECONDARY CONTAINMENT TANKS ONLY

OP0300-RT



OP3700-96



Ace Roto-Mold®

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DUALLINE™ DOUBLE WALL TANKS

When secondary containment is your first priority!

Dualine™

BY DEN HARTOG INDUSTRIES, INC.

Patent 9,162,816
Other Patents Pending

Ace Roto-Mold®

A DIVISION OF DEN HARTOG INDUSTRIES, INC.



DW1500-77

DW1000-77

DW0500-57

*Shown with optional factory installed fitting

DW0300-57

DW0150-36

DW0120-36

DW0065-28

Dualine Tanks

The strong, durable, quality construction is designed for the containment of all chemicals rated for contact with polyethylene. Dualine™ tanks are freestanding, double wall, vertical tanks with a flat bottom for indoor or outdoor stationary applications. Double wall construction provides containment in the event the inner or primary tank is compromised. An EPDM elastic seal is standard and seals the primary tank to the secondary tank to prevent dirt and moisture from entering the containment space between tanks.

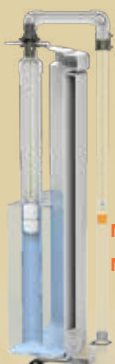
- Furnished with a 16" vented lid assembly as standard.
- Three fitting flats provided on top for custom tank plumbing.
- A service fitting is provided on the secondary tank in the event that the containment requires evacuation.
- Tanks manufactured from polyethylene with UV stabilizers.
- Standard colors are white, yellow and black.
- Designed for the containment of all chemicals rated for contact with polyethylene.
- Standard weight tank is designed for chemicals with a specific gravity of 1.7.

NEW

Reverse Liquid Level Sight Gauge Kit

Kit is designed specifically for Dualine™ tanks where actual liquid levels are not normally visible. Two kits are offered:

- Small Gauge Kit (14987) for tank capacities of 1500 gallons and less.
- Large Gauge Kit (14988) for tank capacities of 2000 gallons and larger.



NEW
NEW

Gauge works in reverse order - when tank is full the level indicator is at bottom of sight tube and conversely when tank is empty the level indicator will be at top of the sight tube. Kits are intended to be field installed by the dealer or user in Dualine™ tanks. Kits are for liquid level approximation only, not intended for precise metering applications.

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (DIA X HEIGHT)	SERVICE FITTING	OPTIONAL FITTING
DW0065-28	65 GAL	52	29 X 43	1"	1"
DW0120-36	120 GAL	81	36 X 50	1"	2"
DW0150-36	150 GAL	99	36 X 60	1"	2"
DW0300-57	300 GAL	190	57 X 45	1"	2"
DW0500-57	500 GAL	264	57 X 69	1"	2"
DW1000-77	1000 GAL	522	77 X 82	1"	2"
DW1500-77	1500 GAL	673	77 X 119	1"	2"
DW2000-102	2000 GAL	907	102 X 97	1.5"	3"
DW2500-102	2500 GAL	1153	102 X 119	1.5"	3"
DW6000-120	6000 GAL	2951	120 X 191	NA	NA
DW6500-120	6500 GAL	3152	120 X 207	NA	NA
19557	OPTIONAL 1" FITTING		1"		
19563	OPTIONAL 2" FITTING		2"		
19569	OPTIONAL 3" FITTING		3"		
14987*	SMALL GAUGE KIT	15	24 X 13 X 8		
14988*	LARGE GAUGE KIT	15	24 X 13 X 8		

* SHIPPING WEIGHT AND DIMENSIONS NOTED ON KITS. KITS DO NOT INCLUDE PVC TUBING TO HOUSE THE INTERNAL FLOAT AND EXTERNAL INDICATOR - MATERIAL MAY BE LOCALLY SOURCED.



Optional Fitting Detail #1



Optional Fitting Detail #2




Optional Fitting Detail #3



Tie Down Detail



Gasket Detail

 **Warning: Cancer and Reproductive Harm.**
www.P65Warnings.ca.gov

ACE ROTO-MOLD - SPECIALTY TANKS

TANKS

18

SPECIALTY TANKS & BANDS

Specialty Tanks are available for a variety of custom applications in both stationary and portable configurations. Tanks are manufactured from medium-density polyethylene with UV inhibitors and designed for containment of liquids of up to 1.7 specific gravity. Tank walls are translucent for level viewing and equipped with gallon indicators.



SP0400-UT

UTILITY TANKS - FLAT BOTTOM

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (W X L X H)	LID	FITTING
SP0026-RT†	26 GAL RECTANGLE	15	18 X 25 X 19	8"	3/4" OUTLET
SP0045-AS†	45 GAL RECTANGLE	23	18 X 37 X 22	5"	
SP0050-RT†*	50 GAL RECTANGLE	27	19 X 38 X 23	8"	1"
SP0055-MM†	55 GAL RECTANGLE	32	18 X 18 X 44	5"	1"
SP0080-RT†*	80 GAL RECTANGLE (SUPPORT REQ.)	42	18 X 27 X 44	5"	1"
SP0100-RT†*	100 GAL RECTANGLE	50	27 X 43 X 29	8"	1"
SP0150-RT*	150 GAL RECTANGLE	62	36 X 48 X 29	8"	1"
SP0200-RT*	200 GAL RECTANGLE	82	36 X 48 X 38	8"	1"

† INDICATES CAN BE SHIPPED VIA UPS/FED EX
* METAL BANDS AVAILABLE, SOLD SEPARATELY

UTILITY TANKS - SLIM-LINE

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (W X L X H)	LID	FITTING
SP0250-UT	250 GAL UPRIGHT RECTANGLE	115	29 X 62 X 42	16"	1 1/2"
SP0300-UT	300 GAL UPRIGHT RECTANGLE	159	29 X 62 X 53	16"	1 1/2"
SP0400-UT	400 GAL UPRIGHT RECTANGLE	209	29 X 62 X 66	16"	2"
SP0500-UT	500 GAL RECTANGLE	223	31 X 74 X 70	16"	2"
SP0750-UT	750 GAL RECTANGLE	318	35 X 82 X 86	16"	2"
SP1000-UT	1000 GAL RECTANGLE	407	40 X 92 X 89	16"	2"

SP0750-UT

NEW
NEW
NEW



RECTANGLE TANKS - TOTAL DRAIN

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (W X L X H)	LID	FITTING
SP0035-RT†	35 GAL RECTANGLE	19	19 X 28 X 20	5"	1"
SP0056-RT†	56 GAL RECTANGLE	32	20 X 38 X 26	5"	3/4"

† INDICATES CAN BE SHIPPED VIA UPS/FED EX

LOW PROFILE RECTANGLE TANKS

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (W X L X H)	LID	FITTING
LP0050-RT†	50 GAL RECTANGLE	37	24 X 43 X 15	5"	1"
LP0068-RT†	68 GAL RECTANGLE	42	26 X 42 X 17	6"	1"
LP0110-RT†	110 GAL RECTANGLE	60	35 X 48 X 19	5"	1"
LP0200-RT	200 GAL RECTANGLE	84	48 X 60 X 19	8"	1"
LP0300-RT	300 GAL RECTANGLE	135	48 X 80 X 21	8"	2"
LP0300-HT	300 GAL HOLDING TANK	132	56 X 95 X 16	6"	3"

† INDICATES CAN BE SHIPPED VIA UPS/FED EX

POWDER-COATED STEEL BANDS for Low Profile & Utility Tanks

PART NUMBER	CAPACITY	DESCRIPTION	WEIGHT	BANDS (W X L)
SP0050-SBP	50 GAL	RECTANGLE KIT	7	2 X 54.5
SP0080-SBP	80 GAL	RECTANGLE SUPPORT BAND	21	3 X 93
SP0100-SBP	100 GAL	RECTANGLE KIT	11	2.25 X 70.5
SP0150-SBP	150 GAL	RECTANGLE KIT	14	2.25 X 77.5
SP0200-SBP	200 GAL	RECTANGLE KIT	16	2.25 X 94
LP0050-SBP	50 GAL	LOW PROFILE RECTANGLE KIT	7	2 X 58
LP0068-SBP	68 GAL	LOW PROFILE RECTANGLE KIT	11	2 X 58
LP0110-SBP	110 GAL	LOW PROFILE RECTANGLE KIT	11	2 X 69
LP0200-SBP	200 GAL	LOW PROFILE RECTANGLE KIT	14	2 X 82.5
LP0300-SBP	300 GAL	LOW PROFILE RECTANGLE KIT	16	2 X 86.5

LP0050-RT



LP0068-SBP



Warning: Cancer and Reproductive Harm.
www.P65Warnings.ca.gov

RINSE TANKS

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (DIA X HEIGHT)	LID	FITTING
SPBM2.5-RT†	2.5 GAL RECTANGLE	4	7 X 15 X 14	5"	3/4"
SPBM003-RT†	3 GAL RECTANGLE	4	7 X 12 X 14	5"	3/4"
SP003.5-CL†	3.5 GAL CYLINDER	5	11 X 15	5"	3/4"
SPBM04-SQ5†	4 GAL SQUARE	5	11 X 11 X 15	5"	1 1/4"
SPBM04-SQ7†	4 GAL SQUARE	5	11 X 11 X 16	7"	1 1/4"
SPBM04-SQ8†	4 GAL SQUARE	5	11 X 11 X 14	8"	1 1/4"
SPBM05-SQ5†	5 GAL SQUARE	5	11 X 11 X 20	5"	1 1/4"
SPBM05-SQ7†	5 GAL SQUARE	5	11 X 11 X 20	7"	1 1/4"
SPBM05-SQ8†	5 GAL SQUARE	5	11 X 11 X 18	8"	1 1/4"
SP0010-SQ8†	10 GAL SQUARE	10	13 X 13 X 21	8"	1 1/4"
SP0015-SQ5†	15 GAL SQUARE	16	16 X 16 X 23	5"	1 1/4"
SP0015-SQ7†	15 GAL SQUARE	16	16 X 16 X 24	7"	1 1/4"
SP0015-SQ8†	15 GAL SQUARE	16	16 X 16 X 23	8"	1 1/4"

† INDICATES CAN BE SHIPPED VIA UPS/FED EX

SPBM002.5-RT



SP0015-SQ8



RECTANGLE TANKS - FLAT BOTTOM

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (W X L X H)	LID	FITTING
SP002.8-RT†	2.8 GAL	4	9 X 14 X 9	5"	
SP0005-RT†	5 GAL	6	10 X 22 X 8	5"	
SP0006-2P†	6 GAL W/ PUMP MOUNT & 2" LID	6	12 X 15 X 8	2"	
SP0006-5N†	6 GAL W/ 5" LID	6	12 X 15 X 8	5"	
SP0007-RT†	7 GAL	8	9 X 14 X 15	5"	
SP0016-MM†	16 GAL	10	14 X 21 X 14	5"	
SP0020-OM†	20 GAL UPRIGHT	17	11 X 15 X 31	5"	1/2" OUTLET

† INDICATES CAN BE SHIPPED VIA UPS/FED EX

SP0006-2P



APPLICATOR TANKS - SUMP ON BOTTOM

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (W X L X H)	LID	FITTING
SP0008-VM†	8 GAL LOAF	7	12 X 16 X 17	5"	1/2" FPT BOSS
SP0012-RT†	12 GAL RECTANGLE	10	14 X 18 X 12	5"	3/4"
SP0012-VM†	12 GAL LOAF	10	12 X 16 X 22	5"	1/2" FPT BOSS
SP0019-VM†	19 GAL LOAF	15	12 X 16 X 28	5"	1/2" FPT BOSS
SP0020-LC†	20 GAL RECTANGLE	12	14 X 28 X 12	5"	3/4"

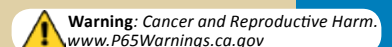
† INDICATES CAN BE SHIPPED VIA UPS/FED EX



SP0020-LC

SP0012-RT

SP0020-OM



ACE ROTO-MOLD - SPOT & PCO TANKS

TANKS

20

SPOT SPRAYERS, PCO TANKS & POWDER-COATED STEEL BANDS

Roto-Molded Spot Sprayer Tanks are designed as portable applicator supply tanks and are equipped with pump and equipment mount inserts. Tanks are equipped with molded in legs to support the tank and band locators for tie-down. Tanks mount with bottom inserts. Tanks are manufactured from linear low-density polyethylene with UV inhibitors and designed for the containment of liquids of up to 1.7 specific gravity. Tank walls are translucent for level viewing and equipped with gallon indicators.

Blow Molded Applicator Tanks are designed with injection-molded leg inserts that allow the tanks to be anchored for transportable applications. They are furnished with brass inserts for pump and wand clip mounting. Tanks are manufactured from high-density polyethylene with UV stabilizers and designed for containment of liquids up to 1.7 specific gravity. Tanks are equipped with U.S. gallon and metric indicators for liquid level viewing. These tanks are available in white or yellow.

Pest Control Operator (PCO) Tanks can be selected for stationary or transportable (non-DOT regulated) applications both indoor and outdoor. The 50-300 gallon tanks have a rounded bottom for best fluid drainage. A 2" deep sump option is also available on these sizes. PCO tanks must be securely anchored for use in transportable applications and powder-coated steel bands are available for this purpose. The tanks are manufactured from medium-density polyethylene with UV stabilizers and designed for containment of liquids of up to 1.7 specific gravity.

SPOT SPRAYERS



PART NUMBER	CAPACITY	DESCRIPTION	WEIGHT	DIMENSIONS (W X L X H)	LID
SM0014-14S†	14 GAL	ROTO W/SUMP	8	14 X 30 X 14	5"
SS0014-14†	14 GAL	ROTO W/OUT SUMP	8	14 X 30 X 14	5"
SM0025-18S†	25 GAL	ROTO W/SUMP	14	18 X 34 X 18	5"
SS0025-18†	25 GAL	ROTO W/OUT SUMP	14	18 X 34 X 18	5"
SB00015*	15 GAL	BLOW MOLDED	7.5	34 X 16 X 13	5"
SB00025*	25 GAL	BLOW MOLDED	12	36 X 18 X 17	5"
SB00030*	30 GAL	BLOW MOLDED	13	19 X 36 X 18	5"
SB00040†	40 GAL	BLOW MOLDED	17.5	24 X 36 X 19	5"
SB00060†	60 GAL	BLOW MOLDED	21	24 X 36 X 26	5"

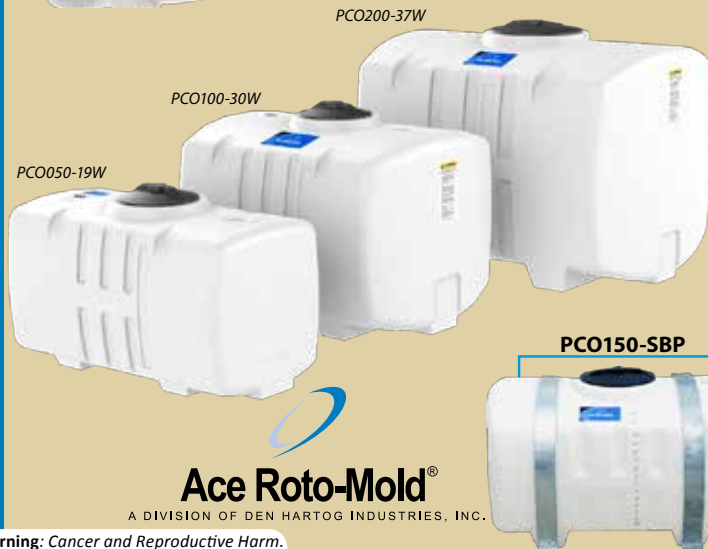
† INDICATES CAN BE SHIPPED VIA UPS/FED EX
* AVAILABLE IN PALLET QUANTITIES ONLY

PCO TANKS



PART NUMBER	CAPACITY	DESCRIPTION	WEIGHT	DIMENSIONS (W X L X H)	LID	FITTING
PCO035-16W†	35 GAL		26	16 X 35 X 21	5"	1"
PCO050-19S†	50 GAL	COMES WITH SUMP	27	19 X 38 X 23	8"	1"
PCO050-19W†	50 GAL		27	19 X 38 X 23	8"	1"
PCO100-30S†	100 GAL	COMES WITH SUMP	52	30 X 38 X 29	8"	1"
PCO100-30W†	100 GAL		52	30 X 38 X 29	8"	1"
PCO150-37S	150 GAL	COMES WITH SUMP	63	37 X 48 X 29	12"	1 1/4"
PCO150-37W	150 GAL		63	37 X 48 X 29	12"	1 1/4"
PCO200-37S	200 GAL	COMES WITH SUMP	84	37 X 48 X 38	12"	1 1/4"
PCO200-37W	200 GAL		84	37 X 48 X 38	12"	1 1/4"
PCO300-37S	300 GAL	COMES WITH SUMP	160	37 X 69 X 40	16"	2"
PCO300-37W	300 GAL		160	37 X 69 X 40	16"	2"

† INDICATES CAN BE SHIPPED VIA UPS/FED EX



POWDER-COATED STEEL BANDS

for PCO Tanks

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (DIA X HEIGHT)
PC0035-SB†*	35 GAL SET	3	2 X 50.5
PC0050-SBP	50 GAL SET	6	2.5 X 57.5
PC0100-SBP†	100 GAL SET	20	2.5 X 76
PC0150-SBP†	150 GAL SET	30	3.5 X 82
PC0200-SBP†	200 GAL SET	36	3.5 X 98
PC0300-SBP†	300 GAL SET	40	4 X 100

† INDICATES CAN BE SHIPPED VIA UPS/FED EX
* PCO035 BANDS ARE STAINLESS STEEL
ALL OTHER SIZES ARE POWDER-COATED SILVER

Ace Roto-Mold®

A DIVISION OF DEN HARTOG INDUSTRIES, INC.



Warning: Cancer and Reproductive Harm.
www.P65Warnings.ca.gov



SP0006-FUWB

FUEL TANKS

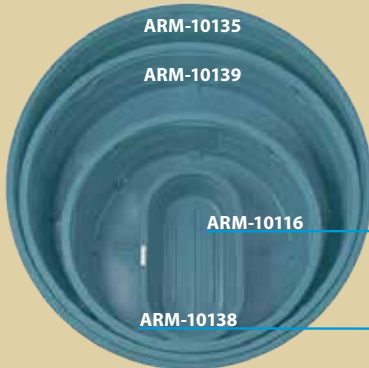
Fuel Tanks are manufactured from high-density, cross-linked polyethylene with UV stabilizers and are available in natural and black colors. Tanks are designed for the containment of all chemicals (including gasoline and diesel fuel) rated for contact with cross-linked polyethylene. The standard weight tank is designed for chemicals with a specific gravity of 1.75. Tanks are provided with a collection sump on the bottom for fitting installation, but because of the variety of applications, no fittings are furnished. Please consult factory regarding available fittings.

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (W X L X H)	LID
SP0006-FU†	6 GAL FUEL XLPE	5	10 X 15 X 10	2"
SP0006-FUWB†	6 GAL FUEL XLPE W/ 1/4" BRASS BULKHEAD	5	10 X 15 X 10	2"
SP0012-FU†	12 GAL FUEL XLPE	9	14 X 18 X 12	2"
SP0012-FUWB†	12 GAL FUEL XLPE W/ 1/4" BRASS BULKHEAD	9	14 X 18 X 12	2"

† INDICATES CAN BE SHIPPED VIA UPS/FED EX

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STOCK TANKS

Stock Tanks are designed for portable livestock watering. Tank tops, sides and bottom are ribbed for strength. Drain plug is provided on all tanks except the 124 model. Tank models are nestable for shipping and storage. Tanks are manufactured from USDA compliant low-density polyethylene with UV inhibitors and designed for containment of liquids of up to 1.0 specific gravity.

PART NUMBER	CAPACITY	DESCRIPTION	WEIGHT	DIMENSIONS (DIA X HEIGHT)	DRAIN PLUG
ARM-10115	50 GAL OVAL	RE124	16	50 X 31 X 12	NOT INCLUDED
ARM-10116	100 GAL OVAL	RE224	26	55 X 31 X 25	1"
ARM-19455	120 GAL ROUND	R42	32	48 X 24	1 1/2"
ARM-10117	150 GAL OVAL	RE226	48	75 X 31 X 25	1"
ARM-10138	320 GAL ROUND	R62	62	72 X 24	1 1/2"
ARM-10139	610 GAL ROUND	R82	105	96 X 24	1 1/2"
ARM-10135	920 GAL ROUND	R92	140	106 X 29	1 1/2"

PICK UP TANKS

Pick Up Tanks are selected as applicator tanks or when transportable (non-DOT regulated) containment is required. Tanks are designed to fit most pick up trucks. Tanks are manufactured from medium-density polyethylene with UV inhibitors and designed for containment of liquids of up to 1.7 specific gravity. Tank walls are translucent for level viewing and equipped with gallon indicators.

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (DIA X HEIGHT)	LID	FITTING
PU0200-52	200 GAL	56	52 X 30	8"	2"
PU0205-52	205 GAL	87	52 X 52 X 26	7"	2"
PU0305-60*	305 GAL	107	60 X 58 X 30	7"	2"
PU0350-62	350 GAL	94	62 X 34	8"	2"
PU0450-62	450 GAL	104	62 X 41	8"	2"
SSPU0200-70	200 GAL	120	70 X 29 X 42	12"	N/A
SSPU0300-70	300 GAL	174	70 X 41 X 42	12"	N/A
SSPU0400-70	400 GAL	202	70 X 52 X 42	12"	N/A

* STANDARD TANK IS 1.5 SPECIFIC GRAVITY. ABLE TO GO UP TO 1.7 WITH HEAVIER TANK CERTIFIED TO NSF/ANSI 61



PU0350-62 Shown in Pick Up Truck



SSPU0200 Shown in Pick Up Truck



SSPU0200-70

SSPU0300-70

Warning: Cancer and Reproductive Harm.
www.P65Warnings.ca.gov

ACE ROTO-MOLD - CROP CARE TANKS



CM0750-48



CC1500-58N

CROP CARE TANKS Tanks are shipped on returnable pallet; fittings shipped loose

Crop Care Tanks are designed for OEM sprayer applications that contain chemicals rated for contact with polyethylene. Hoop recesses are provided around the tank to facilitate installation and anchoring. Wide bottom tanks are available with either box-style or sloped-style sump on the bottom for withdrawal. Narrow bottom tanks are cut out on each side to facilitate narrow track widths and are only available with a sloped-style sump. Larger tanks are furnished with polyethylene baffles for fluid control and a five-gallon rinse tank. The tanks are manufactured from high-density polyethylene with UV stabilizers designed for liquids of up to 1.9 specific gravity.

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (W X L X H)	LID	FITTING
CM0500-48	500 GAL W/ SUMP	202	48 X 90 X 38	16"	2"
CM0750-48	750 GAL W/ SUMP	262	48 X 90 X 50	16"	2"
CC1000-58S*	1000 GAL W/ SLOPED SUMP	345	58 X 115 X 47	16"	2"
CC1000-58N*	1000 GAL NARROW BOTTOM W/ SLOPED SUMP	345	58 X 115 X 51	16"	2"
CM1000-58B*	1000 GAL W/ BOX SUMP	350	58 X 115 X 47	16"	2"
CC1250-58S*	1250 GAL W/ SLOPED SUMP	480	58 X 115 X 57	16"	2"
CC1250-58N*	1250 GAL NARROW BOTTOM W/ SLOPED SUMP	480	58 X 115 X 61	16"	2"
CM1250-58B*	1250 GAL W/ BOX SUMP	485	58 X 115 X 57	16"	2"
CC1500-58S*	1500 GAL W/ SLOPED SUMP	550	58 X 115 X 66	16"	2"
CC1500-58N*	1500 GAL NARROW BOTTOM W/ SLOPED SUMP	550	58 X 115 X 70	16"	2"
CM1500-58B*	1500 GAL W/ BOX SUMP	550	58 X 115 X 66	16"	2"

* BAFFLES & RINSE TANK INCLUDED



CM0500-48

CROP CARE HOOPS

PART NUMBER	CAPACITY/DESCRIPTION	KIT
CC0500-HPS	500 GAL HOOP	1 HOOP (1)-1 2/3" PIPE
CC0750-HPS	750 GAL HOOP	1 HOOP (1)-1 2/3" PIPE
CC1000-HP	1000 GAL HOOPS	1 SET (3)-2 3/8" PIPES
CC1250-HP	1250 GAL HOOPS	1 SET (3)-2 3/8" PIPES
CC1500-HP	1500 GAL HOOPS	1 SET (5)-2 3/8" PIPES



CC1500-58N



Warning: Cancer and Reproductive Harm.
www.P65Warnings.ca.gov

TRACTOR MOUNTED TANKS

Tractor Mounted Tanks are designed as portable (non-DOT regulated) applicator tanks. Tanks require the bottom to be fully supported with a cradle for use. Gallon indicators are included and the tank walls are translucent for level viewing. Ends of tanks feature fitting flats to facilitate a variety of installation options. Bottoms of tanks feature a collection sump for full drain out. Tanks are manufactured from medium-density polyethylene with UV inhibitors and designed for containment of liquids of up to 1.7 specific gravity.

OVAL TANKS

OT0300-31



PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (W X L X H)	LID	FITTING
OT0300-31	300 GAL	102	31 X 49 X 56	16"	3/4" AND 1 1/4"

OVAL CRADLE

PART NUMBER	CAPACITY	WEIGHT	BANDS (W X L)
OT0300-C	300 GAL	137	2.5 X 79

CUT AWAY TANKS

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (W X L X H)	LID	FITTING
CAW0200-24	200 GAL	82	24 X 55 X 46	8"	3/4" AND 1 1/4"
CAW0250-24	250 GAL	97	24 X 61 X 51	8"	3/4" AND 1 1/4"

CUT AWAY CRADLES

PART NUMBER	CAPACITY	WEIGHT	BANDS (W X L)
CAW0200-C	200 GAL	135	3 X 60 AND 3 X 40"
CAW0250-C	250 GAL	143	3 X 72 AND 3 X 51"

CAW0250-24/CAW0250-C



TEAR DROP TANKS

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (W X L X H)	LID	FITTING
TD0250-36	250 GAL	97	36 X 52 X 45	12"	3/4" AND 1 1/4"
TD0300-36	300 GAL	109	36 X 62 X 45	12"	3/4" AND 1 1/4"

TD0300-36 & TD0300-C

TEAR DROP CRADLES

PART NUMBER	CAPACITY	WEIGHT	BANDS (W X L)
TD0250-C	250 GAL	96	2.5" X 74.5"
TD0300-C	300 GAL	108	2.5" X 74.5"



Warning: Cancer and Reproductive Harm.
www.P65Warnings.ca.gov

ACE ROTO-MOLD - PALLET & STACKABLE TANKS

TANKS

24

PALLET PAKS & STACKABLE TOTES

PALLET PAKS

Pallet Pak Units are designed for light-duty transport (non-DOT regulated) for indoor or outdoor applications. The base of the pallet frame is designed for forklift transportability. The rectangular pallet paks have a metal frame and plastic base. The vertical paks have poly bases. The tanks are manufactured from medium-density polyethylene with UV inhibitors and are designed for containment of liquids up to 1.7 specific gravity. Tank walls are translucent for level viewing and equipped with gallon indicators.



SP0150-2TPP

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (DIA X HEIGHT)	LID	FITTING
SP0150-PP	150 GAL PALLET & TANK	203	26 X 43 X 47	7"	2"
SP0150-2TPP	150 GAL PALLET PAK-2 TANKS, PALLET, FRAME	356	50 X 43 X 47	7"	2"
SP0300-PP	300 GAL PALLET PAK-1 TANK, PALLET, FRAME	316	50 X 43 X 47	7"	2"
VT0110-PP	110 GAL PALLET & TANK	70	33 X 40 X 44	5"	2" TOP (MOLDED IN)
VT0210-PP	210 GAL PALLET & TANK	84	41 X 52	5"	2" TOP (MOLDED IN)

PALLET TANKS



VT0210-PP

VT0110-PP

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (DIA X HEIGHT)	LID	FITTING
SP0150-PPTK*	150 GAL RECTANGLE	82	24 X 40 X 42	7"	2"
SP0300-PPTK*	300 GAL RECTANGLE	122	48 X 40 X 42	7"	2"
VT0110-32	110 GAL TANK ONLY W/SUMP	42	32 X 41	5"	2" TOP
VT0210-40	210 GAL TANK ONLY	58	40 X 49	5"	2" TOP

* RECTANGLE TANKS USED WITHOUT THE PALLET STILL REQUIRE SIDE SUPPORT



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STACKABLE TOTES

Stackable Totes can be used for indoor or outdoor, stationary or portable applications (non-DOT regulated). Four lift lugs are provided for lifting each tote and a 4-way forklift accessible skid is available for easy handling. Each tote features three 2" threaded ports for dispensing the totes contents. Totes are manufactured from medium-density polyethylene with UV stabilizers.

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (W X L X H)	LID	STACKABLE HEIGHT RESTRICTIONS
ST0035-32†	35 GAL	30	32 X 32 X 15	7"	3
ST0070-32†	70 GAL	42	32 X 32 X 25	7"	3
ST0120-32	120 GAL	77	32 X 32 X 38	7"	2
ST0180-42	180 GAL	126	42 X 42 X 35	7"	2
ST0240-42	240 GAL	164	42 X 42 X 45	7"	2

† INDICATES CAN BE SHIPPED VIA UPS/FED EX



ST0070-32 x 3

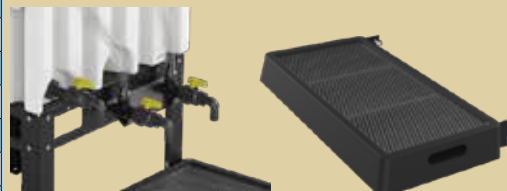
*SHOWN WITH OPTIONAL ACCESSORIES

STACKABLE TOTE ACCESSORIES

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (W X L X H)
ST70/120-SK†	35, 70 OR 120 GAL STEEL SKID	50	30 X 30 X 8
ST024-LG*	35, 70 OR 120 GAL 24" LEG KIT	24	5 X 5 X 26
ST036-LG*	35, 70 OR 120 GAL 36" LEG KIT	70	8 X 8 X 41
ST70/120-DT	35, 70 OR 120 GAL DRIP TRAY KIT	15	5 X 20 X 35
ST70/120-PL	STACKABLE TOTE PLUMBING KIT(S)		
19508	180 & 240 GAL TOTE ADAPTER	55	42 X 42 X 10
ST180/240-ST	180 & 240 GAL STEEL STAND	175	44 X 44 X 27
ST180/240-DT	180 & 240 GAL DRIP TRAY KIT	17	5 X 20 X 46

† INDICATES CAN BE SHIPPED VIA UPS/FED EX

* SKID REQUIRED WITH LEG KITS



ST70/120-PL Plumbing Kit

ST70/120-DT Drip Tray

Warning: Cancer and Reproductive Harm.
www.P65Warnings.ca.gov

AQUIFER LOW PROFILE CISTERN TANKS

Aquifer Low Profile Cistern Tanks are designed to provide a safe and durable means for the storage of potable or non-potable water. Their sectional ribbing design will sustain vertical soil pressures of up to 400 PSF. Tanks can be buried up to 28" deep and can be backfilled empty. Multiple fitting locations are provided to accommodate a variety of plumbing configurations. Manufactured from high-density polyethylene with UV inhibitors. Aquifers are made from FDA compliant resins and conform to the requirements of NSF/ANSI Standard 61. Designed for the containment of liquids of up to 1.7 specific gravity. Tanks are available with burial lid or ground access assembly options.

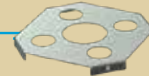


CERTIFIED TO NSF/ANSI 61



ACT-16052

AST19553



PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (DIA X HEIGHT)
ACT1000-LPB	1000 GAL W/BURIAL LID	559	98 X 111 X 36
ACT1000-LPG	1000 GAL W/GROUND ACCESS ASSEMBLY	595	98 X 111 X 36
ACT1500-LPB	1500 GAL W/BURIAL LID	702	98 X 111 X 48
ACT1500-LPG	1500 GAL W/GROUND ACCESS ASSEMBLY	738	98 X 111 X 48
ACT2000-LPB	2000 GAL W/BURIAL LID	917	98 X 158 X 45
ACT2000-LPG	2000 GAL W/GROUND ACCESS ASSEMBLY	953	98 X 158 X 45
ACT2500-LPB	2500 GAL W/BURIAL LID	1031	98 X 158 X 54
ACT2500-LPG	2500 GAL W/GROUND ACCESS ASSEMBLY	1067	98 X 158 X 54
ACT-16053†	AQUIFER 24" BURIAL LID & GASKET	17	35 X 8
ACT-16052	28" AQUIFER GROUND ACCESS ASSEMBLY	53	34 X 38
ACT-16054†	16" AQUIFER GROUND ACCESS ASSEMBLY	43	34 X 24
AST19553	24" AQUIFER OPENING RESTRICTOR	7	

† INDICATES CAN BE SHIPPED VIA UPS/FED EX



Burial Lid Flat with Closed Cell Foam Gasket



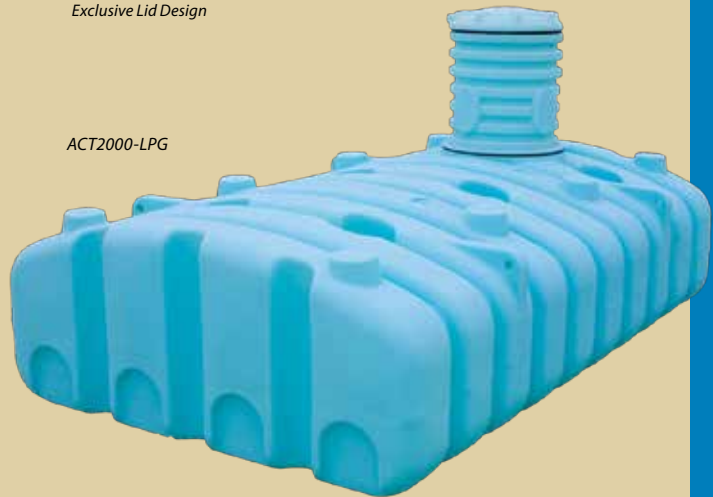
Fitting Flats



Exclusive Lid Design



ACT1500-LPB



ACT2000-LPG

CISTERN TANKS

Cistern Tanks are designed for bulk storage or collection of potable water. Manufactured from high-density polyethylene with UV inhibitors. Tanks are designed for containment of liquids up to 1.7 specific gravity. Tanks feature deep ribbing for strength to permit below-ground installations of up to 36" deep.

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (DIA X HEIGHT)
AST-0325-1W	325 GAL	134	54 X 56
AST-0525-1W	525 GAL	194	63 X 74
AST-0850-1W	850 GAL	259	60 X 70 X 60
AST-1150-1W	1150 GAL	414	60 X 101 X 60
AST-1450-1W	1450 GAL	473	58 X 118 X 72
AST-1700-1W	1700 GAL	567	58 X 137 X 72



AST-1150-1W



AST-1700-1W

Warning: Cancer and Reproductive Harm. www.P65Warnings.ca.gov

SEPTIC TANKS

Septic Tanks are designed and manufactured to meet wastewater treatment system standards. The 1000, 1250, and 1500 gallon double-compartment septic tanks have been tested by IAPMO to meet the IAPMO/ANSI Z1000-2013 and CSA B66-2016 standards. Consult with the applicable state, county or local codes for polyethylene septic tank compliance and installation requirements. Manufactured from high-density polyethylene with UV inhibitors.

PART NUMBER	CAPACITY	DESCRIPTION	WEIGHT	DIMENSIONS (DIA X HEIGHT)
AST-0300-1	300 GAL	PUMP TANK	137	54 X 56
AST-0300-1R*	300 GAL	PUMP TANK	137	54 X 56
AST-0500-1	500 GAL	PUMP TANK	197	63 X 74
AST-0500-1R*	500 GAL	PUMP TANK	197	63 X 74
AST-0750-1	750 GAL	1 COMPARTMENT	259	60 X 70 X 60
AST-0750-1R*	750 GAL	SEPTIC TANK	259	60 X 70 X 60
AST-1000-1	1000 GAL	1 COMPARTMENT	396	60 X 101 X 60
AST-1000-2	1000 GAL	2 COMPARTMENT	448	60 X 101 X 60
AST-1250-1	1250 GAL	1 COMPARTMENT	446	58 X 118 X 72
AST-1250-2	1250 GAL	2 COMPARTMENT	492	58 X 118 X 72
AST-1500-1	1500 GAL	1 COMPARTMENT	584	58 X 137 X 72
AST-1500-2	1500 GAL	2 COMPARTMENT	630	58 X 137 X 72

* MANUFACTURED FROM RECLAIMED POLYETHYLENE.

SEPTIC & CISTERN ACCESSORIES

PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (DIA X HEIGHT)
AST19365	7" ACCESS EXTENSION - BLACK	13	32.5 X 13.5
AST19379	7" ACCESS EXTENSION - WHITE	13	32.5 X 13.5
AST19212	16" ACCESS EXTENSION - BLACK	35	32.5 X 16
AST19214	16" ACCESS EXTENSION - WHITE	35	32.5 X 16
AST19368	16" ACCESS EXTENSION - GREEN	35	32.5 X 16
AST19211	24" ACCESS COVER - BLACK	17	32.5 X 8
AST19213	24" ACE ACCESS COVER - WHITE	14	32.5 X 8
AST19366	24" ACCESS COVER - GREEN	17	32.5 X 8
AST19257	8" RISER AND LID - BLACK	20	32.5 X 29
AST19258	8" RISER AND LID - WHITE	20	32.5 X 29
AST19544	24" SEPTIC/CISTERN OPENING RESTRICTOR	4	
AST10078	4" SANITARY GASKET	1	4.00 ID X 8 OD
AST10084	4" SCHEDULE 40 GASKET	1	4.25 ID X 8 OD
AST19256	4" GASKET RETAINER W/ HARDWARE	1	
AST10154	DIVIDER PANEL ASSEMBLY FOR 1000 GAL W/ HARDWARE	52	
AST19233	DIVIDER PANEL ASSEMBLY FOR 1250/1500 GAL W/ HARDWARE	46	
AST18000-XX	INTERNAL PLUMBING KIT		

AST19368

AST19257

AST19544

Ace Roto-Mold®

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Warning: Cancer and Reproductive Harm. www.P65Warnings.ca.gov

NEW LOW PROFILE SEPTIC TANKS

Low Profile Septic Tanks are available in one-compartment and two-compartment designs and are manufactured for containment of liquids up to 1.7 specific gravity. These low profile tanks are designed and manufactured to meet wastewater treatment system standards. The 1000, 1250, and 1500 gallon double-compartment low profile septic tanks have been tested by IAPMO to meet the IAPMO/ANSI Z1000-2013 and CSA B66-2016 standards.

Tanks feature sectional ribbing designed to sustain vertical soil pressures of up to 500 PSF at a maximum soil depth of 36". Multiple fitting locations are provided to accommodate a variety of plumbing configurations. Tank is furnished with two 24" openings available for burial lids or access and inspection risers each sealed with a PVC closed cell gasket. Tank is designed to be backfilled empty.



PART NUMBER	CAPACITY	WEIGHT	DIMENSIONS (W X L X H)
LPS-1000-1	1000 GAL	582	72 X 122 X 51
LPS-1000-2	1000 GAL	602	72 X 122 X 51
LPS-1250-1	1250 GAL	638	72 X 138 X 51
LPS-1250-2	1250 GAL	658	72 X 138 X 51
LPS-1500-1	1500 GAL	694	72 X 154 X 51
LPS-1500-2	1500 GAL	714	72 X 154 X 51

LOW PROFILE SEPTIC ACCESSORIES

PART NUMBER	CAPACITY
ACT-16054BK	16" GROUND ACCESS ASSEMBLY W/ GASKET
ACT-16053BK	28" BURIAL LID ASSEMBLY W/ GASKET
ACT-16052BK	28" GROUND ACCESS RISER ASSEMBLY W/GASKET
LPS18000-XX	INTERNAL PLUMBING KIT



LOW PROFILE SEPTIC KITS

PART NUMBER	DESCRIPTION	EXTENSION KIT INCLUDES (SEE ABOVE)
LPS-0KIT0BK	BURIAL LID KIT	ACT-16053BK (2)
LPS-1KIT16BK	SINGLE 16" EXTENSION KIT	ACT-16053BK (1) & ACT16054BK (1)
LPS-2KIT16BK	DOUBLE 16" EXTENSION KIT	ACT16054BK (2)
LPS-1KIT28BK	SINGLE 28" EXTENSION KIT	ACT-16053BK (1) & ACT16052BK (1)
LPS-2KIT28BK	DOUBLE 28" EXTENSION KIT	ACT16052BK (2)



Exclusive Lid Design Only Ace Tanks have double-walled access covers that lock securely to the tank body and can be secured using nylon ties, eliminating the need for metal fasteners that can corrode and fail. They feature a custom-molded gasket in the lid. Manufactured from extruded Nitrile Rubber, the gasket snaps into the lid to make a watertight seal.



RISER
The lid with an 8" pipe that may be used to inspect tank.



EXTENSION
Raises the opening of the tank from below grade to above grade and may be stacked to desired height.

Warning: Cancer and Reproductive Harm.
www.P65Warnings.ca.gov

LIQUID FEEDER TANKS & WHEELS

Liquid Feeder Tanks are designed for dispensing liquid feed supplements to livestock. These tanks are equipped with rotary dispensing wheels and fill port. Tanks are manufactured from medium-density polyethylene with UV inhibitors and designed for containment of liquids of up to 1.5 specific gravity. Tank walls are translucent for level viewing and equipped with gallon indicators. Wheels sold separately.

PART NUMBER	CAPACITY	DESCRIPTION	WEIGHT	DIMENSIONS (DIA X HEIGHT)
LTA155-55	155 GAL	LICK TANK – UP TO THREE 24" WHEELS	57	50 X 38
LTA180-68	180 GAL	LICK TANK – USES UP TO FOUR 17" WHEELS	75	68 X 34
LTA285-68	285 GAL	LICK TANK – USES UP TO FOUR 24" WHEELS	98	68 X 39
LT17W		17 INCH WHEEL	2	
LT24W		24 INCH WHEEL	4	

LTA155-55



MINERAL FEEDER

PART NUMBER	DESCRIPTION	WEIGHT	DIMENSIONS (W X L X H)
MF-10198†	100LB. MINERAL FEEDER	91	72 X 72 X 54

† INDICATES CAN BE SHIPPED VIA UPS/FED EX

MF-10198



FEED CARTS

PART NUMBER	CAPACITY	DESCRIPTION	WEIGHT	DIMENSIONS (W X L X H)
SJ-10183†	3.5 BUSHEL FEED CART	STANDARD	60	18 X 40 X 36
SJ10232†	3.5 BUSHEL FEED CART	DELUXE	65	18 X 40 X 36

SJ10232



UTILITY CARTS

The Lil' Lugger Utility Cart/Dock Cart is a two wheel utility transport cart. The cart provides 7.5 cubic feet of transport capacity and is designed for transporting loads up to but not exceeding 300 pounds total. The cart has 20" diameter wheels with semi-pneumatic tires with sealed ball bearing support and an adjustable axle to allow load balance adjustments. Carts are manufactured from linear low-density polyethylene with UV stabilizers. Assembly of frame and wheels required.

PART NUMBER	CAPACITY	DESCRIPTION	WEIGHT	DIMENSIONS (W X L X H)
UC007.5-28	7.5 CUBIC FEET	STANDARD	54	51 X 28 X 34



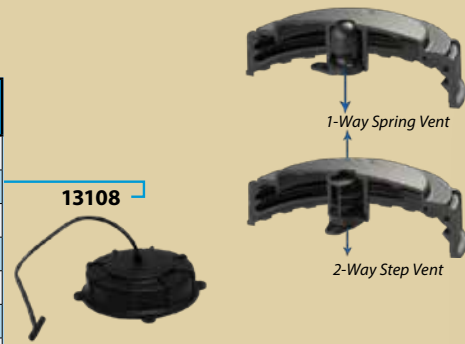
Warning: Cancer and Reproductive Harm.
www.P65Warnings.ca.gov

LIDS

Lids are available in a wide range of sizes from 2" to 22". Most are available with or without venting to suit your applications. Injection molded from polypropylene with UV inhibitors ensures long life.

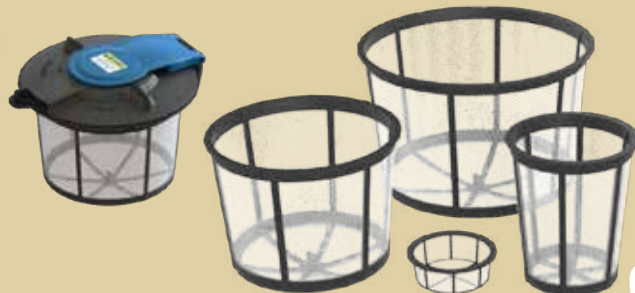
PART NUMBER	DESCRIPTION
10631	2" SPIN ON KELCH CAP
13108	3 1/2" VENTED LID & LANYARD ASSEMBLY
19406	5" HINGED LOW-PROFILE
13748	5" THREADED NON-VENTED LID
13696	5" THREADED LID W/VENT
13697	5" THREADED LID W/.25" VENT HOLE
13709	5" THREADED LID W/2-WAY STEP VENT
13716	5" THREADED LID W/VENT & GASKET
13714	5" THREADED LID W/2-WAY STEP VENT & GASKET
13717	5" THREADED LID W/.25 VENT HOLE & GASKET
13715	5" THREADED LID W/.25 VENT HOLE & LANYARD ASSEMBLY
NEW 14887*	6" CAP WITHOUT PORT AND GASKET ASSEMBLY (SANTOPRENE)
NEW 14888*	6" CAP 2" NPS THREAD AND GASKET ASSEMBLY (SANTOPRENE)
NEW 14889*	6" CAP 2-2.5" BUTTRESS THREAD AND GASKET ASSEMBLY (SANTOPRENE)
NEW 14882*	6" CAP WITHOUT PORT AND GASKET ASSEMBLY (VITON)
NEW 14883*	6" CAP 2" NPS THREAD AND GASKET ASSEMBLY (VITON)
NEW 14884*	6" CAP 2-2.5" BUTTRESS THREAD AND GASKET ASSEMBLY (VITON)
12415	7" SPIN-ON NON-VENTED LID
12414	7" SPIN-ON SPRING-VENTED LID
12427	7" SPIN-ON LID W/STEP VENT
10525	8" THREADED VENTED LID & RING
10526	12" THREADED NON-VENTED LID & RING
10527	12" THREADED VENTED LID & RING
10528	16" THREADED VENTED LID & RING
10530	22" THREADED VENTED LID & RING
10520	BREATHER ONLY (FOR 8" & 12" LIDS)
10529	BREATHER, 4" CENTER (FOR 16" LIDS)
12460	12" SELF-ANCHORING LANYARD
10873	SHORT LANYARD - 12"
10534	LONG LANYARD - 16"
19024	OUTLET CAP, 3/4"
19025	TETHER FOR OUTLET CAP
10960	GASKET FOR OUTLET CAP
NEW 14737*	9" CAP WITHOUT PORT AND GASKET ASSEMBLY (SANTOPRENE)
NEW 14738*	9" CAP 2" NPS THREAD AND GASKET ASSEMBLY (SANTOPRENE)
NEW 14739*	9" CAP 2" BUTTRESS THREAD AND GASKET ASSEMBLY (SANTOPRENE)
NEW 14876*	9" CAP WITHOUT PORT AND GASKET ASSEMBLY (VITON)
NEW 14875*	9" CAP 2" NPS THREAD AND GASKET ASSEMBLY (VITON)
NEW 14874*	9" CAP 2" BUTTRESS THREAD AND GASKET ASSEMBLY (VITON)
NEW 14761	16" HINGED VENTED LID
NEW 14762	16" HINGED NON-VENTED LID

* AVAILABLE IN BOX QUANTITIES ONLY



STRAINER BASKETS

PART NUMBER	DESCRIPTION
19469	BASKET 5" HDPE STRAINER
10535	STRAINER BASKET 8"
10536	STRAINER BASKET 12"
19173	STRAINER BASKET 16" UNICO
10537	STRAINER BASKET, 16" X 7"



Warning: Cancer and Reproductive Harm. www.P65Warnings.ca.gov

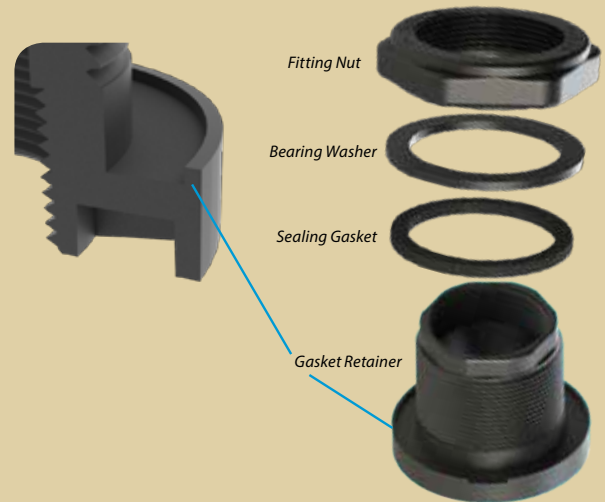
FITTINGS - BULKHEADS & SYPHON TUBES



PART NUMBER	DESCRIPTION	HOLE SIZE
10897	1/4" BRASS BULKHEAD	25/32"
10058	1/2" ACE BULKHEAD	1 1/4"
10025	1/2" POLYPROPYLENE BULKHEAD	1 3/8"
13208	3/4" ACE BULKHEAD	1 7/16"
10484	3/4" ACE HEAVY-DUTY BULKHEAD	1 3/4"
10485	1" ACE BULKHEAD	1 3/4"
10503	1" POLYPROPYLENE BULKHEAD	2 1/4"
10918	1-1/4" ACE BULKHEAD	2 1/4"
10507	1-1/2" ACE BULKHEAD	3"
10508	2" ACE BULKHEAD	3"
10486	2" STAINLESS STEEL BULKHEAD DOUBLE THREADED	3"
10912	2" ACE HEAVY-DUTY BULKHEAD FOR TANKS OVER 3000 GAL	3 1/4"
10490	2" SS BULKHEAD HEAVY FOR TANKS OVER 3000 GAL	3 1/4"
12528	3" ACE BULKHEAD	4 1/2"
10487	3" STAINLESS STEEL BULKHEAD DOUBLE THREADED	4 1/2"
11099	4" STAINLESS STEEL BULKHEAD	4 7/8"
10511	2" SYPHON TUBE	
10488	2" LONG SYPHON TUBE	
10489	3" LONG SYPHON TUBE	
13470	4" LONG SYPHON TUBE	

FEATURES

- Retainer ring molded into each fitting prevents the sealing gasket from expanding or sliding out of position under compression
- Bearing washer insures even compression on the gasket and promotes sealing
- Each fitting features left hand compression threads to prevent loosening while installing mating fittings
- Internal threads feature female pipe threads and are provided on both sides of the fitting. Mating fittings can be installed on both sides of the installed fitting
- Sealing gaskets are produced from Santoprene Thermoplastic Rubber (TPR)
- Fitting compression nuts feature a specially designed cross-section to prevent distortion under load



SPINWELDS

Spinwelds feature a hex driving recess to ease installation. This driving recess makes the installation tools universal and easy to construct. These spinwelds also feature a specially designed conical welding surface that helps to center the spinweld and increases the surface welding area.

PART NUMBER	DESCRIPTION
10237	3/8" THREADED PLUG
10041	3/8" THREADED SPINWELD
12104	3/4" PATCH (9/16" HEX DRIVE)
10008	1" PATCH (3/4" HEX DRIVE)
12429	1 1/2" PATCH (3/4" HEX DRIVE)
10441	2" PATCH (3/4" HEX DRIVE)



*BLACK PART NUMBERS LISTED
*CALL FOR QUOTE ON CUSTOM COLORS

ACCESSORY CLIPS

PART NUMBER	DESCRIPTION
19444	5/16" ACCESSORY CLIP
12732	1/2" ACCESSORY CLIP
12094	10-24 X 3/8" PHILLIPS PANHEAD SCREWS W/LOCKING PATCH
12100	5/16" ACCESSORY CLIP KIT
12200	1/2" ACCESSORY CLIP KIT



Ace Roto-Mold®
A DIVISION OF DEN HARTOG INDUSTRIES, INC.

Warning: Cancer and Reproductive Harm.
www.P65Warnings.ca.gov

NEW PRODUCTS FROM DEN HARTOG INDUSTRIES

Slim-Line Utility Tanks
Page 18



Reverse Liquid
Level Sight Gauge
Page 17



Septic & Pump Tanks Manufactured
from Reclaimed Polyethylene
Page 26

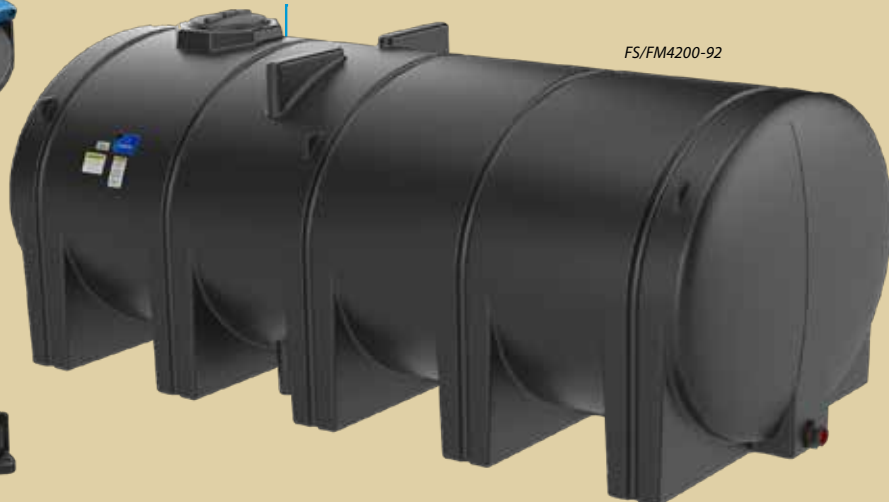


Low Profile Septic Tanks
Page 27

16" Hinged Lid, 6" & 9" Threaded Cap
Page 29



4200 Gallon Elliptical Leg Tank
Page 10



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SNYDER VERTICAL TANKS



Vertical

FEATURES:

- Heavy duty bolted fittings standard on 550 gallon and above to reduce threat of fitting loosening during use
- Fitting compatible siphon tubes to allow bottom fill of tank
- Molded-in tie downs for securing and lift lugs for easy movement
- UV inhibitors are molded in for longer tank life

OUTLET SPECS

A = 6" fill, one ¾" outlet with anti-vortex
 B = 8" fill, one 1¼" outlet
 E = 10" fill, one 2" HD outlet with siphon
 I = 10" fill, one 2" bolted with siphon tube
 N2 = 18" manway, one 2" bolted outlet with siphon
 U = No holes or fittings. Fittings can be ordered separately
 N1 = 18" manway, one 2" HD outlet with siphon
 V = 6" screw-on cap, one 1¼" outlet fitting
 W = 18" manway



Part#	Gallons	Dia. x H	Manway Fill	Outlet Specs
155--	65	24 x 46	6	A
154--	200	40 x 48	6	V
174--	400	45 x 64	18	N2
182--	550	64 x 48	18	N2
181--	850	48 x 118	18	N2
183--	1,100	64 x 91	18	N2
171--	1,100	86 x 56	10	I
177--	1,500	86 x 74	10	I
184--	1,550	64 x 125	18	N2
178--	1,650	86 x 80	10	I
5050-	2,000	90 x 88	18	N2
5090-	2,500	90 x 107	18	N2
5130-	3,000	90 x 127	18	H
7410-	3,000	102 x 97	18	H
51900	3,900	90 x 163	18	H
5210-	4,400	90 x 183	18	H
7420-	4,500	102 x 143	18	H
7000-	6,000	120 x 132	18	H
7430-	6,000	102 x 188	18	H
7140-	6,900	120 x 154	18	H
5300-	7,650	142 x 123	18	H
7370-	7,900	120 x 178	18	H
7400-	8,900	120 x 194	18	H
7450-	9,800	120 x 216	18	H
5330-	10,500	142 x 169	18	H
5350-	12,500	142 x 199	18	W/U
5370-	15,000	142 x 235	18	W/U
5380-	16,500	142 x 257	18	W/U

SNYDER CONE BOTTOM TANKS & STANDS

SNYDER
INDUSTRIES, INC.

TANKS



Cone Bottom Tanks

Part#.	Capacity	Cone Bottom Degree	Dia. x H Tank Only	Dia. x H with Stand	Manway Fill	Outlet Specs
746--	3,000	15	90 x 131	90 x 143	18	O
189--	1,000	30	86 x 65	86 x 84	10	O
190--	1,400	30	86 x 78	86 x 95	10	O
191--	1,775	30	86 x 93	86 x 111	10	O
5070-	2,000	30	90 x 102	90 x 125	18	O
5110-	2,500	30	90 x 125	90 x 148	18	O
5150-	3,000	30	90 x 144	90 x 167	18	O
54400	3,900	30	90 x 180	90 x 203	18	O
52000	4,400	30	90 x 195	90 x 218	18	O
7040-	5,500	30	90 x 232	90 x 255	18	O
5280-	6,900	30	142 x 137	142 x 160	18	O
7180-	6,500	30	90 x 273	90 x 296	18	O
5320-	8,250	30	142 x 161	142 x 184	18	O
5340-	11,850	30	142 x 216	142 x 238	18	O
74901	13,000	30	142 x 238	142 x 261	18	O
619--	500	45	64 x 63	64 x 80	18	O
5000-	1,000	45	64 x 103	64 x 120	18	O
5010-	1,500	45	64 x 141	64 x 158	18	O
5100-	2,850	45	90 x 142	90 x 163	18	O
5180-	4,350	45	90 x 195	90 x 216	18	O
185--	17 Mix	60	18.5 x 24	18.5 x 35	8	K
158--	35 Mix	30	31 x 23	31 x 34	10	M
156--	65 Mix	30	31 x 30	31 x 41	10	M
607--	100 Mix	30	31 x 45	31 x 56	10	M

OUTLET SPECS

O = 18" manway, one 3" total drain bolted outlet.

K = 8" screw on cap, 1-1/4" outlet with anti-vortex.

M = 10" fill, one 3/4" outlet, one 1-1/2" or 2-1/2" molded-in hose barb (optional 3/4" to 1-1/4" fitting available).



Cone Bottom Stands

Part#	Cone Bottom Degree	Dia.	Stand Capacity	No of Legs	Recommended Tank Capacity
48400000	Mix Steel Stands				17
48600000	Mix Steel Stands				35 / 65
64090	15	90		4	3000
79000000	30	86	14 Tons	4	1000-1650
79100000	30	90	45 Tons	8	2000-5500
79300000	30	90	65 Tons	12	6500
79500000	30	142	100 Tons	12	6900 -13000
78800000	45	64	12 Tons	4	500 / 1000 /1500
79200000	45	90	45 Tons	8	2850 & 4350

SNYDER APPLICATOR TANKS**SNYDER**
INDUSTRIES, INC.

Lawn & Garden

Part#	Gallons	D x H x L	Outlet Specs
1020001	8	12 x 14.75 x 16	R
1040001	12	12 x 18.75 x 16	R
1100001	15	14 x 13.25 x 32	G
1140001	25	17.75 x 16.25 x 36	G

OUTLET SPECS

G = 6" cap, no outlet

R = 6" fill, one 1" diameter 3/4" long
1/2" ID threaded, molded spout
with 4 1/4"**FEATURES:**

- Molded-in gallonage markers (indicators)
- 6" threaded opening
- Molded-in inserts for 12 volt pump mounting
- UV inhibitors are molded in for longer tank life



PCO

Part#	Gallons	D x H x L	Outlet Specs	Lid
1091-	30	19 x 22.5 x 24.5	U	6
1171-	50	19.5 x 22.5 x 38	U	6
1201-	100	30 x 31 x 38	U	10
1571-	150	36 x 29 x 48	U	10
1661-	200	37 x 39.5 x 48.5	U	10
1721-	325	38 x 36.75 x 69	U	18

**OUTLET SPECS**U = No holes or fittings. Fittings can be
ordered separately.**FEATURES:**

- Molded-in gallonage markers (indicators)
- Flat spots on each end for easy agitation
- Design requires no additional support or banding
- UV inhibitors are molded in for longer tank life

Horizontal Sprayer Tanks

Part#	Gallons	D x H x L	Outlet Specs
105--	55	23 x 26 x 38.25	A
111--	110	30 x 34.25 x 49.75	C
115--	150	32 x 36.5 x 55.25	C
123--	200	32 x 36.5 x 70.5	C
135--	400	42 x 46.25 x 72	C
139--	500	48 x 52.25 x 74.75	C
1431-	1,000	64 x 68 x 86.5	U

**OUTLET SPECS**

A = 6" fill, one 3/4" outlet with anti-vortex.

C = 10" fill, two 1 1/4" outlets, one with anti-vortex.

U = No holes or fittings. Fittings can be
ordered separately.**FEATURES:**

- 10" threaded cap for easy filling
- Molded-in gallonage markers (indicators)
- Center sumps and end flat spots
- UV inhibitors are molded in for longer tank life



Elliptical

Part#	Gallons	D x H x L	Outlet Specs	Lid
1481-	525	58 x 36 x 81	U	10
1501-	850	68 x 44 x 93	U	10
1491-	1,025	78 x 47 x 93.5	U	10
10013	1,300	86 x 66 x 89	Q	18



OUTLET SPECS

U = No holes or fittings. Fittings can be ordered separately.
 H = 18" manway, one 3" bolted outlet with siphon.

FEATURES:

- Molded-in gallonage markers (indicators)
- Low profile for ease of transport
- Bottom sumps and recessed end flat spots
- UV inhibitors are molded in for longer life

Horizontal Champion & Trim-View Tanks

Part#	Tank Style	Gallons	D x H x L	Outlet Specs
127--	TV	200	32 x 45.5 x 48	C
122--	CHAMP	200	41 x 31.75 x 54.5	10/S
131--	TV	260	31 x 48 x 54	C
134--	CHAMP	300	46 x 33 x 64.5	C
138--	CHAMP	500	56 x 38.5 x 77	C



OUTLET SPECS

C = 10" fill, two 1 1/4" outlets, one with anti-vortex.

FEATURES:

- Molded-in gallonage markers (indicators)
- Unique design excellent for custom applications
- Bottom sumps for ease of drawing
- UV inhibitors are molded in for longer life

Leg

Part#	Gallons	D x H x L	Outlet Specs	Lid
108--	30	23 x 25.75 x 19.5	G	6
106--	60	23 x 25.75 x 38.5	A	6
112--	125	30 x 34.5 x 49.5	S	10
128--	230	38 x 42.5 x 51.5	S	10
132--	300	38 x 42.5 x 72.5	S	10
140--	525	48 x 52.5 x 75	E	10
136--	730	54 x 57.5 x 80	E	10



OUTLET SPECS

A = 6" manway, one 3/4" outlet w/ anti-vortex.
 E = 10" manway, one 2" HD outlet w/siphon tube.
 S = 10" fill, one 1 1/4" outlet.

FEATURES:

- Molded-in gallonage markers (indicators)
- Free standing HLT requires no cradles for support (optional)
- Ribbed for strength with built-in supports
- UV inhibitors are molded in for longer tank life

SNYDER NURSE TANKS - LIDS & CAPS

TANKS

SNYDER
INDUSTRIES, INC.



Super Nurse

Part#	Gallons	Tank Style	D x H x L	Outlet Specs	Lid
130--	750	Super Nurse	46 X 48.5 X 116.5	D	18
144--	1025	Super Nurse	48 X 50 X 139	D	18
146--	1685	Super Nurse	60 x 62 x 159	H	18
751--	2000	Super Nurse	60 x 70.5 x 160	H	18
75200	3400	Super Nurse	82 x 86.5 x 158	H	24
10043	715	SN-Center Sump	47 x 49 x 105	T	
5410-	1000	SN-Center Sump	46 x 48 x 154	T	
5430-	1250	SN-Center Sump	46 x 57 x 154	T	
75002	3100	SN-Center Sump	92 x 74 x 142	T	



Elliptical Super Nurse

Part#	Gallons	Tank Style	D x H x L	Outlet Specs	Lid
8470-	2600	Super Nurse	82 x 70 x 158	H	24
7500-	3000	Super Nurse	92 x 76 x 142	H	18



OUTLET SPECS

D = 18" manway, one 2" bolted outlet with siphon tube.

H = 18" manway, one 3" bolted fitting with siphon tube.

T = 18" fill, one 2" total drain bolted outlet.

FEATURES:

- Molded-in gallonage markers (indicators)
- Molded-in baffles to reduce sloshing
- Bolted fitting standard to reduce fitting loosening during use
- UV inhibitors are molded in for longer tank life

Lids & Caps

Part No.	Description
34700088	10 IN THREADED CAP
34300038	5 IN McPHEE CAP
34300043	5 IN Vent
34300047	6 IN SCREW ON CAP
34300216	8 IN LID ASSEMBLY
34701243	14 IN LID ASSEMBLY
34300012	18 IN LID ASSEMBLY
34300226	4 IN INSERT W/VENT FOR 18 IN LID
34100125	18 IN HINGED LID ASSY
34700352	24 IN LID ASSY
8570000C95401	24 IN POLY TRANSPORT LID - 2600 Elliptical and all Value Added Tanks
34500008	POLYURETHANE LID TIE



SNYDER LADDERS, HOOPS, BANDS, SKIDS, SADDLES, BOLTS

SNYDER
INDUSTRIES, INC.



Part#	Type	Tank Style	Tank Size
90404232	Ladder	Horizontal Leg Tank	2600
90404232	Ladder	Horizontal Slop Bottom Tank	3250
90404227	Ladder	Super Nurse	2600
99402225	Hoops Assembly (4)	Super Nurse	2500
99402233	Hoops Assembly (4)	Super Nurse	3250
33200003	Galvanized Bands	Padding for Steel Saddles	12 x .5 x 36.5
33900035	Galvanized Bands	Horizontal	22 IN - 55 IN
33900036	Galvanized Bands	TV,CHAMP,ELLIP	260
33900037	Galvanized Bands	Horizontal	110/150/200
33900038	Galvanized Bands	TV,CHAMP,ELLIP	200/260/525
33900039	Galvanized Bands	Horizontal	200/300
33900040	Galvanized Bands	Horizontal	500
33900041	Galvanized Bands	Horizontal	1000
33900104	Galvanized Bands	Elliptical	300
33900105	Galvanized Bands	Elliptical	850
33900106	Galvanized Bands	Elliptical	1000
33900093	Galvanized Bands	Horizontal Leg Tank	30
33900093	Galvanized Bands	Horizontal Leg Tank	60
33900094	Galvanized Bands	Horizontal Leg Tank	125
33900095	Galvanized Bands	Horizontal Leg Tank	230
33900095	Galvanized Bands	Horizontal Leg Tank	300/400
33900096	Galvanized Bands	Horizontal Leg Tank	525
45400002	Hoops	Horizontal Leg Tank	730
33900097	Galvanized Bands	Horizontal Leg Tank	730
33900424	Steel Skid	Drainable Elliptical Steel	3100
45100000	Steel Skid	Horizontal Tank	200 x 38
45400006	Hoop Assembly (2)	Horizontal Leg Tank	300 X 38
45300007	Hoop Assembly (2)	Horizontal Leg Tank	500 X 49
45300001	Hoop Assembly (2)	Horizontal Leg Tank	525 X 48
45200003	Hoop Assembly (3)	Super Nurse	750 X 46
45200004	Hoop Assembly (4)	Super Nurse	1000 X 46
45300003	Hoop Assembly (4)	Super Nurse	1025 x 48
45200007	Hoop Assembly	Super Nurse	1250
45500001	Hoop Assembly (4)	Super Nurse	1685
45400006	Hoop Assembly (2)	Horizontal Leg Tank	300 X 38
45300007	Hoop Assembly (2)	Horizontal Leg Tank	500 X 49
45300001	Hoop Assembly (2)	Horizontal Leg Tank	525 X 48
45200003	Hoop Assembly (3)	Super Nurse	750 X 46
45200004	Hoop Assembly (4)	Super Nurse	1000 X 46
45300003	Hoop Assembly (4)	Super Nurse	1025 x 48
45200007	Hoop Assembly (4)	Super Nurse	1250
45500001	Hoop Assembly (4)	Super Nurse	1685
45500002	Hoop Assembly (4)	Super Nurse	2000
99402226	Hoop Assembly (4)	Super Nurse	2600
45700001	Hoop Assembly (4)	Super Nurse	3400
45800009	Hoop Assembly (4)	Drainable Hoop Assy	1615
45800011	Hoop Assembly (4)	Drainable Hoop Assy	2015
99402212	Hoop Assembly (4)	Elliptical Tank	1200
99402217	Hoop Assembly (4)	Elliptical Tank	1600
45800003	Hoop Assembly (4)	Elliptical Tank	1650
45800013	Hoop Assembly (4)	Elliptical Tank	2050
45800007	Hoop Assembly (4)	Elliptical Tank	2000
45700004	Hoop Assembly (4)	Elliptical Tank	2600
45800000	Hoop Assembly (4)	Elliptical Tank	3000
34700530	J-Bolt Pkg. 3/4" (8)		
34700014	J-Bolt Pkg. 3/8" (8)		
34700529	J-Bolt Pkg. 1/2" (8)		
34701800	J-Bolt Pkg. 3/4" (8)	Elliptical Tank	2600
40100000	Steel Saddle		23 X 25
40400000	Steel Saddle		32 x 30
40500000	Steel Saddle		38
40800000	Steel Saddle		42 X 400
40900000	Steel Saddle		48 x 500

TANKS

Vertical Storage Tanks

Vertical storage tanks are most frequently used for bulk storage and mobile nursing applications. Norwesco vertical tanks feature tie-down slots, built-in graduated gallon indicators, an offset fill-opening and a self-vented, slosh-proof lid.



**Norwesco Tanks
Are Only Available
Out Of Our Brush
Colorado Location.**

White					
Part#	Gallons	Diameter	Height	Fill Opening	Outlet /Drain
41863	75	23"	49"	8"	1¼"
41861	100	28"	43"	8"	1¼"
41859	150	30"	56"	8"	1¼"
41856	200	30"	72"	8"	2"
41854	250	30"	89"	8"	2"
40213	300	35"	79"	16"	2"
40302	305	46"	50"	16"	2"
40148	500	48"	73"	16"	2"
40023	550	67"	44"	16"	2"
40152	1000	64"	80"	16"	2"
40070	1100	87"	53"	16"	2"
40235	1550	87"	67"	16"	2"
40178	2100	87"	89"	16"	2"
40051	2500	95"	91"	16"	2"
43092	3000	95"	109"	16"	3"/2"
40164	5000	102"	152"	22"	3"/2"



Black						
Part#	Gallons	Diameter	Height	Fill Opening	Bottom Fitting	Top Fitting
40641	5000	102"	152"	16"	2"	1½"

Pickup Tanks Designed to fit full-size, American made pickups, the 325 and 425 sizes have low profiles for better rear vision. They feature fill openings offset to the side of the tank for safety and easy access. A tough circular design adds strength. The 210 gallon tank fits both "mini" pickups and full-size models. Depending on which way the tank is turned, the bottom width can be either 39" or 48".

Part#	Gallons	Top Width	Bottom Width	Height	Fill Opening	Outlet /Drain
40300	210	60"/51"	48"/39"	29"	8"	2"
40160	325	62"	49"	33"	8"	2"
40102	425	65"	49"	39"	8"	2"



Part#	Gallons	Width	Height	Length	Fill Opening
41254	30 □	19"	23"	25"	5"
40664	50 □	19"	22"	38"	8"
40668	100 □	30"	28"	38"	8"
40669	150	36"	28"	48"	8"
41413	200	36"	37"	48"	8"
41381	300	36"	37"	69"	16"

PCO Tanks

A multi-purpose tank, the PCO is well suited for nursery, agricultural and lawn care applications. These tanks feature self-supporting legs and do not require any saddles or steel supports. Flat spots are molded into both ends to provide mounting areas for agitation equipment



Leg Tanks

With the broadest leg tank line available, Norwesco manufactures a size that will fit your needs. Used primarily for transport and nursing applications, Norwesco's leg tanks feature molded-in legs that act as "baffles" to reduce sloshing.

White

Part#	Gallons	Dia.	Height	Length	Fill Opening	Outlet /Drain	No. of Bands	Bands Part#
45223	35 α	20"	23"	29"	5"	¾"	2 optional	60520
41873	55 α	23"	26"	34"	5"	¾"	2 optional	61745
45191	65 α	23"	26"	43"	5"	¾"	2 optional	61745
40298	125	32"	35"	41"	8"	2"	2 optional	61744
40299	225	38"	41"	49"	8"	2"	2 optional	60478
40217	325	38"	43"	68"	16"	2"	2 optional	60478
40181	525 Δ	49"	54"	71"	16"	2"	2 optional	60057
40180	725 *	49"	54"	101"	16"	2"	3 required	60057
40089	1025 *	49"	54"	139"	16"	2"	4 required	60057

Elliptical Leg Tanks

Part#	Gallons	Width	Height	Length	Fill Opening	Outlet /Drain	No. of Bands	Bands Part#
40191	1035 White	66"	55"	126"	16"	2"	3 required	60325
40387	1635 White	71"	58"	142"	16"	2"	4 required	60586
40618	2035 White	84"	56"	142"	16"	2"	4 required	62079
40621	2035 Black	84"	56"	142"	16"	2"	4 required	62079
40686	3135 White	88"	80"	150"	16"	3"/2"	4 required	63620
40547	2635 White	90"	72"	140"	16"	3"/2"	4 required	60353

Horizontal Applicator Tanks



Part#	Gallons	Diameter	Height	Length	Fill Opening	Outlet /Drain	Saddle Part#
45193	55 α	23"	27"	34"	5"	¾"	60303
45105	85 α	23"	26"	52"	5"	¾"	60303
45053	110 α	30"	34"	41"	8"	1¼" / 1¼"	60315
45117	150	32"	35"	46"	8"	1¼" / 1¼"	60315
45059	200	32"	35"	62"	8"	1¼" / 1¼"	63019
45061	200	38"	42"	47"	8"	1¼" / 1¼"	63020
40135	300	38"	41"	68"	8"	1¼" / 1¼"	63021
40137	400	42"	45"	74"	8"	1¼" / 1¼"	63022
40274	500	48"	51"	75"	8"	1¼" / 1¼"	63023

Elliptical Tanks



Part#	Gal.	Width	Height w/sump	Length	Sump Depth	Fill Opening	Outlet /Drain	Saddle Part#
41252	200	40"	30"	66"	¾"	8"	1¼"	63015
40327	300	48"	36"	70"	3"	16"	1¼"	63016
40328	500	57"	44"	82"	5"	16"	1¼"	63018

α May ship UPS *Requires full length support and bands Δ Requires full length support

All Wylie Tanks Are Only Available Out Of Our Garden City, KS Location.



- FDA approved for potable water.
- UV stabilized for outdoor weathering.
- High impact strength.
- 2,500 and 3,000 equipped with ribbed top for added strength.
- Optional algae-resistant black color.

Note: Wylie polyethylene tanks are not designed for buried applications. Outside soil pressure can cause collapse of tank.



Wylie Vertical Storage Tanks

Part#	Gallons	Dia.	Height	Weight
T200VK	200	31"	69"	55 lb
T300VK	300	56"	34"	60 lb
T550VK	550	49"	72"	110 lb
T1000VK	1000	64"	85"	170 lb
T1225VK	1225	87"	54"	195 lb
T1600VK	1600	87"	68"	220 lb
T1750VK	1750	87"	74"	240 lb
T2500VK	2500	98"	85"	375 lb
T3000VK	3000	98"	101"	435 lb



Wylie Leg Storage Tanks

Part#	Gal.	Dia.	Length	Height	Band Length	Weight
T125LK	125	30"	49"	32.5"	34"	45 lb
T230LK	230	38"	51.5"	40"	30"	70 lb
T300LK	300	38"	72"	40.5"	46.5"	95 lb
T525LK	525	48"	75"	50.5"	41"	135 lb
T800LK	800	60"	92"	50"	44"	220 lb
T1025LK	1025	48"	133.5"	53"	28" Outside 29" Center	300 lb
T1025LSK	1025	48"	133.5"	59"	27"	300 lb
T1250LK	1250	65"	125"	50"	27"	360 lb
T1600LK	1600	69"	126.5"	60"	27"	600 lb

Raven Tank Lids

10" Threaded

Part#	Description
67400	Fillwell
67399	Cover



16" Threaded with 4" Vent

Part#	Description
60012	Fillwell
60011	16" Cover
60019	4" Vent

 **HYPRO**



TeeJet
Technologies

 **TURBO DROP**



BANU
Liquid Handling Products



ACE
PUMPS



b

JOHN BLUE



DURA-ABS™
AUTO-BATCH SYSTEM



DURA PRODUCTS



LIQUID

EVX BANJO ELECTRIC VALVES

**THE LATEST ADVANCEMENTS
IN ELECTRIC ACTUATOR
TECHNOLOGY & VALVE
DESIGN ENGINEERED WITH
BANJO RELIABILITY.**



To learn more about the EVX family,
scan this QR code or visit:
BanjoCorp.com/Banjo/EVX



LED provides valve performance feedback indicating blue for power and yellow for a fuse blown condition. With the optional open / close verify, the LED indicates green and red, respectively. As an additional option, EVX reports temperature, voltage and cycle count.

EVX offers the latest communication protocols ranging from direct control to CAN / ISO BUS to Bluetooth*** wireless technology, while diagnostic options measure and report voltage, temperature, and cycle count to warn of concerns before they become problems.

Part#	Description	Opening Thru Ball
EVX100	1" Full Port Electric Valve - Female NPT	1"
EVX100B	1" Full Port Electric Valve - Female NPT With White Wire Control	1"
EVX220	2" Full Port Electric Valve - Female NPT	2"
MEVX100	1" Full Port Electric Valve - Manifold Flanged	1"
MEVX100B	1" Full Port Electric Valve - Manifold Flanged With White Wire Control	1"
MEVX220A	2" Full Port Electric Valve - Female NPT	2"
VP20153X	Banjo EVX Handle	

More sizes and options available.

EVX
SMALLER | SMARTER | TOUGHER



BANJO 
Liquid Handling Products



*Optional handle available for conversion to manual valve

SMALLER

EVX 2" full port and 3" models are over 35% smaller than the average competitive valve. The 1½", 2" full port and 3" models are also substantially lighter than the average competitive valve.

SMARTER

EVX offers the latest communication protocols ranging from direct control to CAN / ISO BUS to Bluetooth[®]** wireless technology, while diagnostic options measure and report voltage, temperature, and cycle count to warn of concerns before they become problems.

LED provides valve performance feedback indicating blue for power and yellow for a fuse blown condition. With the optional open / close verify, the LED indicates green and red, respectively. As an additional option, EVX reports temperature, voltage and cycle count.

TOUGHER

Setting the new standard for electric valve toughness, EVX passes 52 separate durability torture tests including mechanical shock, vibration, extreme temperature, rain / shine, operating pressure, and rigorous longevity tests.



**The Bluetooth[®] word mark and logos are registered trademarks owned by Bluetooth SIG, Inc.

BANJO ELECTRIC VALVES

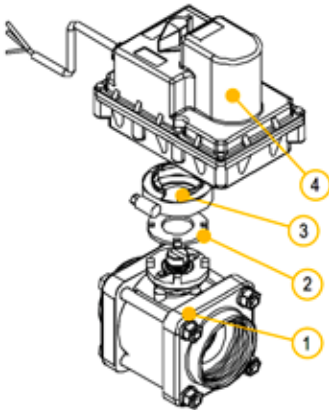
VALVES



ON/OFF Electric Valves

Part#	Size
EV075	3/4"
EV100FP	1"
EV125	1 1/4"
EV150	1 1/2"
EV200	2"
EV204FP	2"
EV300FP	3"

Also available as a regulating valve with a four second response time.
Flange Inlet / Threaded Outlet



REPAIR KIT INCLUDES:

- Stem with seals
- Gasket
- Body O-rings
- Ball seats

3/4"- 3" Threaded Electric Valves

- 316 stainless steel ball & stem
- Stainless steel hardware
- Fiberglass reinforced polypropylene
- PTFE seats
- EPDM O-rings (3/4"-2")
- FKM O-rings (3")
- 12-volt DC operated
- 24-volt available in most models
- Easily repairable
- Open/closed indicator
- 3/4 second response time (3/4"-1 1/4")
- 1 1/4 second response time (1 1/2"-2")
- 3 second response time (3")

REPAIR KIT INCLUDES:

- Stem with Seals
- Gasket
- Body O-Rings
- Ball Seats

Regulating Electric Valves

Part#	Size
EVR100FP	1" Full Port
EVR204FP	2" Full Port

REPLACEMENT PARTS

ITEM	Part#	Description
1	EV075XR1	3/4" Full Port Electric Valve Sub Assembly
1	EV100XR1	1" Electric Valve Sub Assembly
1	EV125XR1	1 1/4" Electric Valve Sub Assembly
1	EV150XR1	1 1/2" Full Port Electric Valve Sub Assembly
1	EV200XR1	2" Electric Valve Sub Assembly
1	EV204XR1	2" Full Port Electric Valve Sub Assembly
2	MVE004	Electric Valve Flange Gasket
3	FC100	1" Flange Clap
4	EV3300	3/4 Second 3 Wire Motor Assembly
4	EV4300	1 1/4 Second 3 Wire Motor Assembly
4	EVR3300	Regulating 4 Wire 4 Second For EVR075 & EVR100FP
4	EVR4300	Regulating 4 Wire 4 Second For EVR204FP
4	VE5630	3 Second, 12 Volt DC, 3 Second N, 3 Wire for 3" Electric Valve (EV300FP),
KIT	EV10210	1" Electric Valve Repair Kit
KIT	EV20210	2" Electric Valve Repair Kit

Banjo Three Way Electric Ball Valves

- 316 stainless steel ball & stem
- Stainless steel hardware
- Fiberglass reinforced polypropylene
- PTFE seats
- 12-volt DC operated
- Open/closed indicator
- ¾ second response for 1" On/Off
- 1¼ second response for 2" On/Off
- Directional flow right or left and cannot be turned off
- Regulating valve not available in this configuration

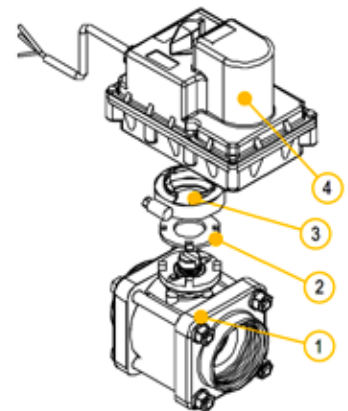


Size	Side Load	BTM Load
¾"	EV075SL	EV075BL
1"	EV100SL	EV100BL
1¼"	EV125SL	EV125BL
1½"	EV150SL	EV150BL
2"	EV200SL	EV200BL
2"	EV204SLFP	EV204BLFP

MANIFOLD FLANGE VERSIONS LISTED ON NEXT PAGE

REPLACEMENT PARTS

ITEM	Part#	Description
1	EV075BLXR1	¾" Electric Valve Sub Assembly
1	EV100BLXR1	1" Electric Valve Sub Assembly
1	EV204BLXR1	2" Full Port Electric Valve Sub Assembly
1	EV075SLXR1	¾" Electric Valve Sub Assembly
1	EV100SLXR1	1" Electric Valve Sub Assembly
1	EV150SLXR1	1½" Electric Valve Sub Assembly
1	EV200SLXR1	2" Electric Valve Sub Assembly
1	EV204SLXR1	2" Full Port Electric Valve Sub Assembly
2	MVE004	Electric Valve Flange Gasket
3	FC100	1" Flange Clap
4	EV3300	¾ Second 3 Wire Motor Assembly
4	EV4300	1¼ Second 3 Wire Motor Assembly
KIT	EV10210	1" Electric Valve Repair Kit
KIT	EV20210	2" Electric Valve Repair Kit



- REPAIR KIT INCLUDES:**
- Stem with seals
 - Gasket
 - Body O-rings
 - Ball seats

BANJO MANIFOLD FLANGED ELECTRIC VALVES

VALVES



MEV103CF

Part#	Size
MEV100CF	1" Full Port
MEV200CF	2" Std Port
MEV220CF	2" Full Port
MEV300CF	3" Full Port

1" Manifold Flange Electric Valve Assemblies

Part#	Description
MEV103CF	3 -1" Assembly
MEV105CF	5 -1" Assembly

REPLACEMENT PARTS

ITEM	Part#	Description
1	MEV100XR1	1" Full Port Manifold Flange Electric Valve Sub Assembly
1	MEV200XR1	2" Manifold Flange Electric Valve Sub Assembly
1	MEV220XR1	2" Full Port Manifold Flange Electric Valve Sub Assembly
1	MEV300XR1A	1" Full Port Manifold Flange Electric Valve Sub Assembly
2	MVE004	Electric Valve Flange Gasket
3	FC100	1" Flange Clap
4	EV3300	¾ Second 3 Wire Motor Assembly
4	EV4300	1¼ Second 3 Wire Motor Assembly
4	VE5630	3 Second, 12 Volt DC, 3 Second N, 3 Wire for 3" Electric Valve (EV300FP),
KIT	EV10210	1" Electric Valve Repair Kit
KIT	EV20210	2" Electric Valve Repair Kit

LEV Series Electric Push Lock Valves

- 12 Volt DC
- Stationary current draw: less than 0.04 amps
- Rotating current draw: less than 0.40 amps
- Stall current: 0.75 amps
- Response time: 1/3 second open to close
- TFM seats
- EPDM seals
- Fiberglass reinforced polypropylene
- Integrated mounting slot
- Standard 3 wire configuration

Part#	Description	Opening Thru Ball
LEV038	3/8" Full Port Threaded FPT	3/8"
LEV038PL	3/8" Full Port Push Lock	3/8"
LEV050	½" Threaded FPT	15/32"
MLEV100	1" Manifold Flange	½"



LEV038PL

MLEV100

BANJO 3 WAY MANIFOLD FLANGED ELECTRIC VALVES

**MANIFOLD
FLANGE**

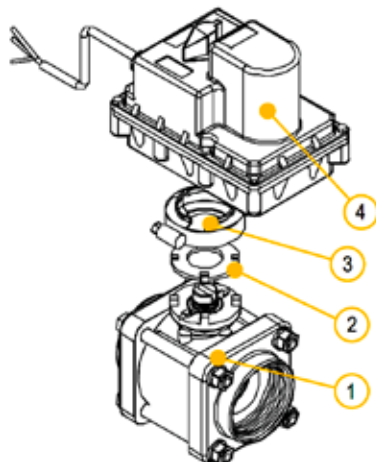


VALVES

Size	Side Load	Bottom Load
1" Full Port	MEV100SLCF	MEV100BLCF
2" Std Port	MEV200SLCF	MEV200BLCF
2" Full Port	MEV220SLCF	MEV220BLCF

REPLACEMENT PARTS

ITEM	Part#	Description
1	MEV100SLXR1	1" Full Port Manifold Flange Electric Valve Sub Assembly
1	MEV200SLXR1	2" Manifold Flange Electric Valve Sub Assembly
1	MEV220SLXR1	2" Full Port Manifold Flange Electric Valve Sub Assembly
1	MEV100BLXR1	1" Full Port Manifold Flange Electric Valve Sub Assembly
1	MEV200BLXR1	2" Manifold Flange Electric Valve Sub Assembly
1	MEV220BLXR1	2" Full Port Manifold Flange Electric Valve Sub Assembly
2	MVE004	Electric Valve Flange Gasket
3	FC100	1" Flange Clap
4	EV3300	¾ Second 3 Wire Motor Assembly
4	EV4300	1¼ Second 3 Wire Motor Assembly
KIT	EV10210	1" Electric Valve Repair Kit
KIT	EV20210	2" Electric Valve Repair Kit



REPAIR KIT INCLUDES:

- Stem with seals
- Gasket
- Body O-rings
- Ball seats

DIRECTO VALVES

Three Way Directo Valve

The three way solenoid operated DirectoValve control valve bypasses boom flow to maintain constant spraying pressure when one or more boom sections are shut off. Also used as a directional valve on foam markers.

- Pressures to 65PSI
- 8 GPM flow
- 2 AMP current draw

Part#	Description
AA144A-13	Complete Valve, 3/4" x 1/2" Foam Marker Style

REPLACEMENT PARTS

Part#	Description
PK-AB144-1-KIT	144 Old Style
PK-AB144A-1-KIT	144A New Style
PK-AB144A-1-VI	144A New Style - Viton
AB145H-VI-KIT	145H-VIT
CP15163-NYB	144A Coil
CP18605-NYB	145 Coil

Spraying Systems 144A, 145 and 146 Directo Valve Control Valves

144A 3/4" VALVE

- 10 GPM flow
- Pressures up to 100 PSI
- 2.5 AMP current draw

Part#	Description
AA144A-1	3/4" inlet / 1/2" Outlet

145 1" VALVE

- Up to 18 GPM flow
- 145 pressures to 65 PSI
- 2.9 AMP current draw

Part#	Description
AA145H-1	1" inlet / 1" Outlet



ASCO Red Hat Solenoid Valves

The solenoid is an electro-magnetic part of a valve, comprised of a coil, core tube, core and enclosure. The ASCO RedHat brand offers the worlds largest selection of 2-way, 3-way and 4-way solenoid valves, designed to handle the most demanding fluid control applications.



ASCO

Part#	Description
8210G2	1/2" 12V, Solinoid
8210G3	3/4" 12V, Solinoid
302-373	1/2" Repair Kit
302-378	3/4" Repair Kit

Spraying Systems Pressure Regulating Valve

- Aluminum or Brass Construction
- Stainless steel spring
- 3/4" inlet and outlet
- 0-300 PSI pressure range
- Other models up to 700 PSI



Part#
6815-3/4"-300
6815-3/4"-AL-300

Spraying Systems Diaphragm Relief Valve

- Recommended pressure range of up to 300 PSI
- Nylon inlet body with aluminum bonnet
- 3/4" inlet and outlet
- 70 GPM flow rate
- 1/4" gauge port
- 300 PSI working pressure



Part#
8460-3/4

Manual Control Valve

- Molded of corrosion resistant polypropylene
- Maximum pressure 150 PSI
- Molded in mounting flange
- 3/4" inlet 1/2" outlet
- 12.5 gpm capacity
- 1/4" npt gauge port
- Repair Kit PK-AA6B



Part#

AA6B

Chemsaver Diaphragm Check Valve

- Made of nylon with celcon bonnet
- Opens at 7PSIG
- Up to 15gpm flow rating for 3/4" Valve



Part#

12328-1/2"-NYB

12328-3/4"-NYB

AB12328-KIT (Repair Kit)

CP12335-FA (Replacement Diaph.)

Spraying Systems Manual Three Section Boom Control Valve

- For selective control of three section boom at pressures up to 300 PSI
- Use to open any of three boom section lines in any desired combination.
- Aluminum construction with stainless steel and plastic internal parts
- 3/4" inlet and three 3/4" outlets with 3/4" PRV outlet and 1/4" pressure gauge port
- Repair kit PK-AB17KIT



Part#

AA17Y



Diaphragm Relief Valve

- Polypropylene with stainless steel spring
- Pressures up to 150psi
- 3/4" NPT inlet and outlet
- 1/2" port for pressure gauge



Part#

23120-1/2-PP

23120-3/4-PP

344 Series Electric Shutoff Valves

These ball valves are available with E or EC series motors and with cable or DIN electrical connection

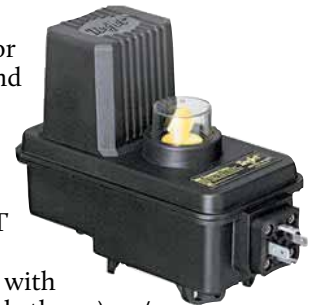
Features:

- 25 RPM, 0.6 second shutoff fully open to close
- Flexible inlet/outlets provide quick simple plumbing for a single valve.
- Available in 2-way or 3-way versions. 2-way valves allow complete shutoff while the 3-way valves divert flow to a bypass line when boom controls are shut off.



DirectoValve® Electric Motors

Boom Control motors are 22 RPM for 344B series (0.7 second shutoff valves) and 25 RPM for 346B and 356 series (0.6 second shutoff valves) for 12 VDC systems. Available with E or EC series motors with DIN or CABLE versions. E type motors work with DPDT (double pole, double throw) switch. EC type motors work with simple SPST (single pole, single throw) on/off switch and are compatible with all sprayer controls.



Part#

50515-25CP05

50516-03C05

50533-22C05

Part#

Size

344BEC-24-C

1"



BANJO MANIFOLD FLANGE BALL VALVES

**MANIFOLD
FLANGE**



MV200CF



MV300CF

Manifold Flange Ball Valve

4 and 6 Bolt Valves

Part#	Desc.
MV100CF	1" Manifold Flange
MV200CF	2" Manifold Flange
MV220CF	2" Manifold Flange Full Port
MV300	3" Manifold Flange
MV300CF	3" Manifold Flange Full Port



Locking Handle

- Stainless Steel hardware
- Locks in open and closed position
- Available for V200FP, V300, V300FP and V-400

Part#

VL25153



VSMT200CF



MVS300CF



MVSMT300HSFP

Manifold Flange "Stubby" Poly Bolted Ball Valve

Part#	Description
VSMT200CF	2" MPT x 2" C-Flange
VSF200CF	2" Male Adapter x 2" C-Flange
MVS220FP	2" FPT x 2" FP-Flange Full Port
MVSF220FP	2" Male Adapter x 2" FP-Flange Full Port
MVS220CF	2" FP-Flange x Flange Full Port
MVSMT220FP	2" MPT x 2" FP-Flange Full Port
MVSF220HSFP	2" Male Adapter x 2" FP-Flange Full Port Stainless Steel ball, stem, handle
MVSF300	3" C-Flange x 3" Male Adapter
MVSF300FP	3" FP-Flange x 3" Male Adapter Full Port
MVSMT300	3" C-Flange x 3" MPT
MVS300CF	3" C-Flange x 3" C-Flange
MVS300CFFP	3" FP-Flange x Flange Full Port
MVS300HSFP	3" FP-Flange x Flange Full Port Stainless Steel ball, stem, handle
MVSF300HSFP	3" FP-Flange x 3" Male Adapter Full Port Stainless Steel ball, stem, handle
MVSMT300HSFP	3" MPT x 3" FP-Flange Full Port Stainless Steel ball, stem, handle



MVS220CF



MVS220FP



VSF200CF

C-Flange = Standard Port Manifold Flange

FP-Flange = Full Port Manifold Flange



Safer, Sturdier, Easier to Handle, and Reduces Accidental Spills.

Polypropylene Bolted Ball Valve

Part#	Description
V050	½" FPT 4 Bolt Full Port
V075	¾" FPT 4 Bolt Full Port
V100	1" FPT 4 Bolt Std. Port
V100-FP	1" FPT 4 Bolt Full Port
V125	1¼" FPT 4 Bolt Std. Port
V125-FP	1¼" FPT 4 Bolt Full Port
V150	1½" FPT 4 Bolt Full Port
V200	2" FPT 4 Bolt Std. Port
V204-FP	2" FPT 4 Bolt Full Port
V200-FP	2" FPT 6 Bolt Full Port
VFMT204FP	2" MPT x 2" Male Adapter 4 Bolt Full Port
VFMT200FP	2" MPT x 2" Male Adapter 6 Bolt Full Port
V300	3" FPT 6 Bolt Std. Port
V300-FP	3" FPT 6 Bolt Full Port
V400	4" FPT 6 Bolt Std. Port



"Stubby" Poly Bolted Ball Valve

Part#	Description
VS204FP	2" FPT x 2" FPT Full Port
VSF200	2" FPT x 2" Male Adapter
VSF204FP	2" FPT x 2" Male Adapter Full Port
VSMT200	2" MPT x 2" FPT
VSMT204FP	2" MPT x 2" FPT Full Port
VSFMT200	2" MPT x 2" Male Adapter
VSFMT204FP	2" MPT x 2" Male Adapter Full Port
VSFHB200	2" Male Adapter x2" Hose Barb
VSF300	3" FPT x 3" Male Adapter
VSMT300	3" FPT x 3" MPT
VSFMT300	3" MPT x 3" Male Adapter
VSFMT300FP	3" MPT x3" Male Adapter Full Port
VSFMT204HS-FP	2" MPT x2" Male Adapter Full Port Stainless Steel ball, stem, handle
VSFMT300HS-FP	3" MPT x3" Male Adapter Full Port Stainless Steel ball, stem, handle



Fairbank
EQUIPMENT



Fairbank Equipment Ball Valve Handle

Are you tired of wrestling with moving your hose around that has a valve attached? Our new valve handle provides easier mobility, and keeps you from having to grab the valve's open and close lever for moving, thus helping prevent accidental spills. It easily attaches to a 2" Full Port Valve or a 3" Standard or Full Port Valve.

Part#	Description
FB-VH2	Handle for 2" Full Port Valve.
FB-VH3	Handle for 3" Valve.



FB-VH3 + V300



FB-VH2 + V200FP + HB200 + 201B

BANJO BALL VALVES



3-Way Manifold Flange Bottom Load Polypropylene Bolted Ball Valve



Directional flow either right or left.

Valve **"CAN"** be turned off to stop flow.

Part#	Description
MV100BL	1" 3-Way Bottom Load
MV200BL	2" 3-Way Bottom Load
MV220BL	2" 3-Way Bottom Load Full Port
MV300BL	3" 3-Way Bottom Load Full Port

3-Way Manifold Flange Side Load Poly Bolted Ball Valve



Directional flow either right or left.

Valve **"CANNOT"** be turned off to stop flow.

Part#	Description
MV100SL	1" 3-Way Side Load
MV200SL	1" 3-Way Side Load
MV220SL	2" 3-Way Side Load Full Port



Banjo Manifold Flange Venturi System Assembly

Draws wettable powders from inductor tank for chemical mixing. Installed after pump, suction completely empties inductor tank. This system keeps tank free of chemicals and can be installed with inductor tanks upon request.

Part#	Description
MIS220HBA	2" Manifold Venturi System
MIS300A	3" Manifold Venturi System

Banjo Flow Meter

- Displays overall total volume and batch total volume
- Flow rate allows for Gallons or Liters per minute
- The display reads 6 digits for rate, 8 digits for total and 1 decimal place reading in tenths
- Magnetic style meter with stainless steel electrodes
- Self calibrating meter
- Measures water and most conductive liquids
- Easy to change six (6) AA batteries
- No moving parts to fail during use
- Temperature range from 0°F to 150°F
- ±1% of reading (between 10% and 100% of maximum flow)
- ±3% of reading (between cutoff and 10% of maximum flow)
- There are 3 photo eyes located on the face of the flow meter. These are not push buttons; to activate you must hold your finger over the photoeye for 2-4 seconds
- Flow meters will not read petroleum based liquids
- It is recommended to have at least 10X the diameter of straight pipe before and after the flow meter

Part#	Description
FM100	1" Full Port FPT
MFM100	1" Full Port Manifold Flange
MFM220	2" Full Port Manifold Flange
MFM300	3" Full Port Manifold Flange



1" Manifold Flange Pressure Spike Valve

Part#	Cracking Pressure
MPRV100-050	50 psi
MPRV100-075	75 psi
MPRV100-100	100 psi
MPRV100-125	125 psi
MPRV100-150	150 psi



Polypropylene Bolted Nozzle Valve

45° Angled 10" long polypropylene fill spout.

Part#	Description
-------	-------------

VA100	1" 45° Bolted Valve Std. Port
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Polypropylene Single Union Full Port Ball Valve

Adding (S) at the beginning of the below numbers makes the part a Spinweld Valve.

Part#	Size
-------	------

(S) UV050FP	1/2"
--------------------	------

(S) UV075FP	3/4"
--------------------	------

(S) UV100FP	1"
--------------------	----

(S) UV125FP	1 1/4"
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(S) UV150FP	1 1/2"
--------------------	--------

(S) UV200FP	2"
--------------------	----

MSUV100FP	1"
------------------	----



Polypropylene Single Union Nozzle Valve

Part#	Description
-------	-------------

UVA100-FP	1" 45° Union Valve Full Port
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Dispensing Nozzle

Part#	Size
-------	------

VN100	1"
--------------	----

V10161	1"
---------------	----

BANJO BALL VALVES



3-Way Bottom Load Polypropylene Bolted Ball Valve

Directional flow either right or left.

Valve "**CAN**" be turned off to stop flow.

Part#	Description
-------	-------------

V075BL	3/4" 3-Way Bottom Load Full Port
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V100BL	1" 3-Way Bottom Load Full Port
---------------	--------------------------------

V125BL	1 1/4" 3-Way Bottom Load Full Port
---------------	------------------------------------

V150BL	1 1/2" 3-Way Bottom Load Full Port
---------------	------------------------------------

V200BL	2" 3-Way Bottom Load Full Port
---------------	--------------------------------



3-Way Side Load Poly Bolted Ball Valve

Directional flow either right or left.

Valve "**CANNOT**" be turned off to stop flow.

Part#	Description
-------	-------------

V75SL	3/4" 3-Way Side Load Full Port
--------------	--------------------------------

V100SL	1" 3-Way Side Load Full Port
---------------	------------------------------

V125SL	1 1/4" 3-Way Side Load Full Port
---------------	----------------------------------

V150SL	1 1/2" 3-Way Side Load Full Port
---------------	----------------------------------

V200SL	2" 3-Way Side Load Full Port
---------------	------------------------------



Polypropylene Bolted Nozzle Valve

90° Angled end flange with 8" long polypropylene fill spout.

Part#	Description
-------	-------------

VA150	1 1/2" 90° Bolted Valve Full Port
--------------	-----------------------------------

VA200	2" 90° Bolted Valve Std. Port
--------------	-------------------------------

VA200-FP	2" 90° Bolted Valve Full Port
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DRY-MATE™ DRY DISCONNECTS

VALVES

Dry-Mate™

- Easy to use
- Minimal fluid spillage
- Reduces risk of exposure
- Wide range of chemical resistance
- When properly installed and operated, the assembly will not accidentally separate while fluid is flowing; preventing costly mishaps.



DM300AFP

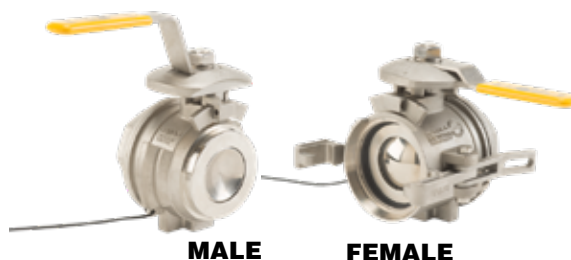
DM300AFP

Poly Dry-Mates

Part#	Description
DM150A	1½" Male FPT w/FKM Seals
DM150D	1½" Female FPT w/FKM Seals
DM150AD	1½" Male & Female SET FPT w/FKM Seals
DM200A	2" Male FPT w/FKM Seals
DM200D	2" Female FPT w/FKM Seals
DM200AD	2" Male & Female SET FPT w/FKM Seals
DM200ACF	2" Male Manifold Flange w/FKM Seals
DM200DCF	2" Female Manifold Flange w/FKM Seals
DM300AFP	3" Male FPT Full Port w/FKM Seals
DM300DFP	3" Female FPT Full Port w/FKM Seals

Dry-Mate™ Stainless Steel Full Port

- 316 stainless steel construction
- Unrestricted 2" flow
- Patented double ball design with cam lever connection
- 300°F maximum operating temperature
- 100% PTFE ball seats



MALE

FEMALE

Stainless Steel Dry-Mates Full Port

Part#	Description
DM220ASS	2" Male FPT w/PTFE Seals
DM220DSS	2" Female FPT w/FKM Seals

Dry-Mate™ Dry Poppet Couplings

- Lightweight
- Minimal fluid spillage
- Easy to use
- Economical
- Reduces risk of exposure
- Wide range of chemical resistance
- Maximum operating temperature 150° F
- 30 GPM maximum flow
- Precision molded in polypropylene



DPCM100

DPCMT100

DPCF100

*Note: Male adapter and female coupler show coupled together but sold separately.

Dry-Mates Dry Poppet Couplings

Part#	Description
DPCF100	1" Female w/1" FPT w/FKM Seals
DPCM100	1" Male w/1" FPT w/FKM Seals
DPCMT100	1" Male w/2" FPT w/FKM Seals

Banjo Poly Micro Valve

- 90° rotating handle
- Precision molded polypropylene is reinforced with fiberglass for additional strength.
- Standard FKM seats and O-Rings



LV050SLV

LV050V

Banjo Poly Micro Valve - Female Pipe Thread

Part#	Description
LV025V	1/4" Female NPT
LV038V	3/8" Female NPT
LV050V	1/2" Female NPT
LV050SLV	1/2" Female NPT Side Load



LVHBO38V

Banjo Poly Micro Valve - Hose Barb

Part#	Description
LVHB025V	1/4" Hose Barb
LVHB038V	3/8" Hose Barb
LVHB050V	1/2" Hose Barb
LVHB075V	3/4" Hose Barb



LV038MTV

Banjo Poly Micro Valve - FPT x MPT

Part#	Description
LV025MTV	1/4" FPT x 1/4" MPT
LV038MTV	3/8" FPT x 3/8" MPT
LV038050MTV	3/8" FPT x 1/2" MPT
LV050MTV	1/2" FPT x 1/2" MPT
LV050100MTV	1/2" FPT x 1" MPT



LVHBO75100MTV

Banjo Poly Micro Valve - Hose Barb x MPT

Part#	Description
LVHB038050MTV	1/4" Hose Barb x 1/2" MPT
LVHB075MTV	3/4" Hose Barb x 3/4" MPT
LVHB075100MTV	3/4" Hose Barb x 1" MPT



LVPL025V

Banjo Poly Micro Valve - Female Push Lock

Part#	Description
LVPL025V	1/4" Female Push Lock
LVPL050V	1/2" Female Push Lock

BALL & BUTTERFLY VALVES



Full Port Stainless Steel Ball Valves

An economical, yet high quality, all stainless steel ball valve with locking handle. 1,000 PSI rating.

Part#	Size
78-14	1/4"
78-12	1/2"
78-34	3/4"
78-100	1"
78-114	1 1/4"
78-112	1 1/2"
78-200	2"
78-300	3"

Not Approved for Anhydrous Ammonia Use

Stainless Steel Ball Valve

100% full port stainless steel ball valve. Three piece four bolt design with locking handle. Rating to 1000WOG.



Part#	Size
500-304	3/4"
500-305	1"
500-306	1 1/4"
500-307	1 1/2"
500-308	2"
500-310	3"



Carbon Steel Ball Valve

100% full port carbon steel ball valve.

Part#	Size
500-408	2"

Carbon Steel Ball Valve - Jomar

Latch lock handle may be locked in open or closed position. Two piece full port threaded connection with a solid ball construction.



Part#	Size
100-971	1/4"
100-972	3/8"
100-973	1/2"
100-974	3/4"
100-976	1 1/4"
100-977	1 1/2"
100-978	2"

Bray Butterfly Valves

The Bray Valve has a special plastic epoxy coating to resist chemicals. Comes standard with stainless steel disc and EPDM seat.

Part#	Size
30-124-2	2"
30-124-3	3"
30-124-4	4"
30-124-6	6"



Keystone Butterfly Valves

Ideal for building services and irrigation applications that require shut-off control. The valve has a moulded in seat and can be used in full vacuum service.

Part#	Size
100-805-2	2"
100-805-3	3"
100-805-4	4"
100-805-6	6"



Stainless Steel Check Valves

All parts stainless steel - spring, lock nut on poppet and nut retaining cup locks spring to nut.

Part#	Size
CVSE25	1/4"
CVSE50	1/2"
CVSE75	3/4"
CVSE100	1"
CVSE125	1 1/4"
CVSE150	1 1/2"
CVSE200	2"
CVSE300	3"



Air Actuated Stainless Steel Butterfly

• 2"-8"

Part#	Size
CLV 2VALVEAA	2"
CLV 3VALVEAA	3"
CLV 4VALVEAA	4"
CLV 6VALVEAA	6"
CLV 8VALVEAA	8"



Air Operated Stainless Steel Ball Valves

316 Stainless 2-Piece Ball Valve with PTFE Seats and Threaded Flanges Direct-Acting Air Actuator 1000 PSI



Part#	Size
INL 1/2SSAA	1/2"
INL 3/4SSAA	3/4"
INL 1SSAA	1"
INL 2SSAA	2"



Topaz Float Valve

Part#
VJT1

Valve Flanges

Fairbank Equipment stocks a wide variety of flanges including cast iron, PVC, polypropylene, and stainless steel.



Size	Cast Iron	Poly	SS
2"	2-125F	AF200	2-150F-SS
3"	3-125F	AF300	3-150F-SS
4"	4-125F	AF400	4-150F-SS
6"	6-125F		

Benefits:

- No lever arm
- No exterior moving parts
- Freezing won't damage
- Indestructible
- Installs in seconds
- No float ball
- High volume
- Anti-siphon
- Rust-proof

Specifications:

- Height: 5"
- Diameter: 3 3/4"
- Operating Pressure: 4 - 100 psi
- Max Fluid Temperature: 175° F



Hudson 1" Float Valve

This 1" Universal Hudson Valve was re-designed for the 21st century and better than ever

Since 1975, Hudson Valve Company has been providing customers with a line of compact, virtually indestructible valves to meet a wide range of water needs. These valves are well adapted to a variety of applications, from personal home use to large-scale industrial use. They are ideal for any application where it is necessary to maintain a consistent water level.

The Hudson Valve is very easy to install.

It can be installed directly onto your existing plumbing.

Part#

HDV1000

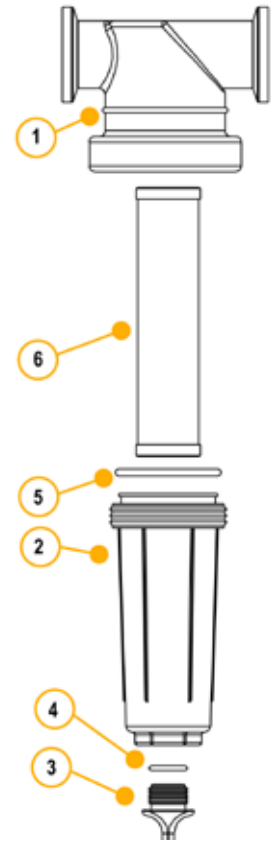
BANJO MANIFOLD FLANGE "T" STRAINERS

1" Poly Manifold Flange "T" Strainers 300 P.S.I Max.

Part#	Description
MLST-100-16	1" w/16 Mesh Screen
MLST-100-30	1" w/30 Mesh Screen
MLST-100-50	1" w/50 Mesh Screen
MLST-100-80	1" w/80 Mesh Screen
MLST-100-100	1" w/100 Mesh Screen

2" Poly Manifold Flange "T" Strainers 225 P.S.I Max.

Part#	Description
MLST-150-16	2" w/16 Mesh Screen
MLST-150-30	2" w/30 Mesh Screen
MLST-150-50	2" w/50 Mesh Screen
MLST-150-80	2" w/80 Mesh Screen



1" Poly Manifold Flange Mini "T" Strainers 300 P.S.I Max.

Replacement Parts

LSTM050G	EPDM Gasket
LST530	30 Mesh Screen
LST550	50 Mesh Screen
LST580	80 Mesh Screen
LST5100	100 Mesh Screen
LST050B	Black Bowl

Part#	Description
MLSTM100-50	1" w/50 Mesh Screen
MLSTM100-80	1" w/80 Mesh Screen
MLSTM100-100	1" w/100 Mesh Screen

"T" Manifold Flange Strainer Head & Bowl

Ⓚ	MLST100-HB	Fits 1" (Includes 1-5)
	MLST150-HB	Fits 1½" (Includes 1-5)

"T" Manifold Flange Strainer Head

Ⓛ	MLST100-H	Fits 1"
	MLST150-H	Fits 1½"

"T" Strainer Bowl

Ⓜ	LST100-B	Fits ¾" and 1"
	LST150-B	Fits 1½"

"T" Strainer Bowl Gasket

Ⓟ	LST100-G	Fits ¾" and 1"
	LST150-G	Fits 1¼" and 1½"

"T" Strainer Screens

Ⓠ	LST116	16 Mesh, Fits ¾" and 1"
	LST130	30 Mesh, Fits ¾" and 1"
	LST150	50 Mesh, Fits ¾" and 1"
	LST180	80 Mesh, Fits ¾" and 1"
	LST1100	100 Mesh, Fits ¾" and 1"
	LST1516	16 Mesh, Fits 1¼" and 1½"
	LST1530	30 Mesh, Fits 1¼" and 1½"
	LST1550	50 Mesh, Fits 1¼" and 1½"
	LST1580	80 Mesh, Fits 1¼" and 1½"
	LST15100	100 Mesh, Fits 1¼" and 1½"

Clean out plug

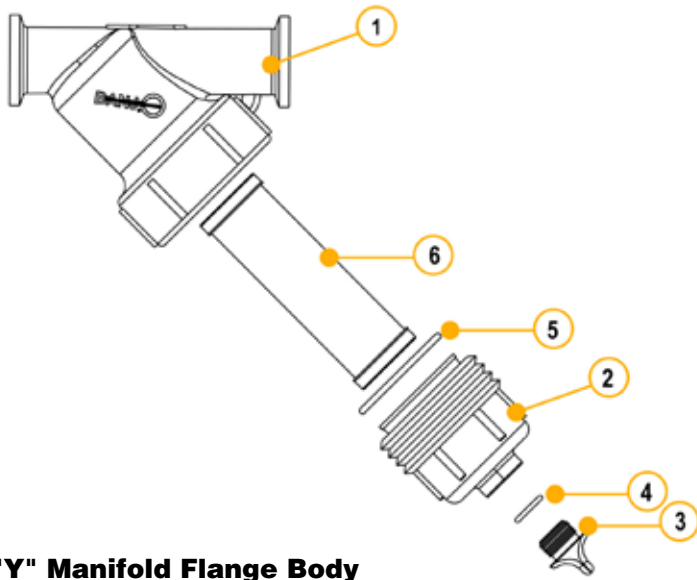
Ⓡ	12777	Fits ¾" and 1"
	LSQ200-PL	Fits 1¼" and 1½"

Clean out plug O-Ring

Ⓢ	12722	Fits ¾" and 1"
	LSQ200-R	Fits 1¼" and 1½"

BANJO MANIFOLD FLANGE "Y" STRAINERS

MANIFOLD FLANGE



FITTINGS

"Y" Manifold Flange Body

①	MLS100B	1" "Y" Body
	MLS200B	2" "Y" Body
<hr/>		
	MLS100BC	1" "Y" Body & Cap
	MLS200BC	2" "Y" Body & Cap

Cap Gasket

⑤	LS100G	Fits 1" and 1¼" Strainers
	LS150G	Sq. Gasket fits 1½" and 2" (New Style)

End Cap

②	LS100-C1	Fits 1" and 1¼" Strainers
	LS150-C	Fits 1-1/2" and 2" Strainers (New Style)

Screen

⑥	LS-120	20 Mesh (fits 1" and 1¼" Strainers)
	LS-140	40 Mesh (fits 1" and 1¼" Strainers)
	LS-180	80 Mesh (fits 1" and 1¼" Strainers)
	LS-206	6 Mesh (fits 1½" and 2" Strainers)
	LS-212	12 Mesh (fits 1½" and 2" Strainers)
	LS-220	20 Mesh (fits 1½" and 2" Strainers)
	LS-230	30 Mesh (fits 1½" and 2" Strainers)
	LS-250	50 Mesh (fits 1½" and 2" Strainers)
	LS-280	80 Mesh (fits 1½" and 2" Strainers)

Clean out plug

③	12777	½" Plug (Fits 1" and 1¼" Strainers)
	LSQ200-PL	2" Plug (Fits 1 ½" and 2" Strainers)

O-Ring for clean out plug

④	UV15163	Fits 1"
	LSQ200-R	Fits 1¼" and 1½"

1" Poly Manifold Flange "Y" Strainers 225 P.S.I Max.

Part#	Description
MLS100-20	1" w/20 Mesh Screen
MLS100-40	1" w/40 Mesh Screen
MLS100-80	1" w/80 Mesh Screen

2" Poly Manifold Flange "Y" Strainers 225 P.S.I Max.

Part#	Description
MLS-200-06	2" w/6 Mesh Screen
MLS-200-12	2" Y w/12 Mesh Screen
MLS-200-20	2" Y w/20 Mesh Screen
MLS-200-30	2" Y w/30 Mesh Screen
MLS-200-50	2" Y w/50 Mesh Screen
MLS-200-80	2" Y w/80 Mesh Screen



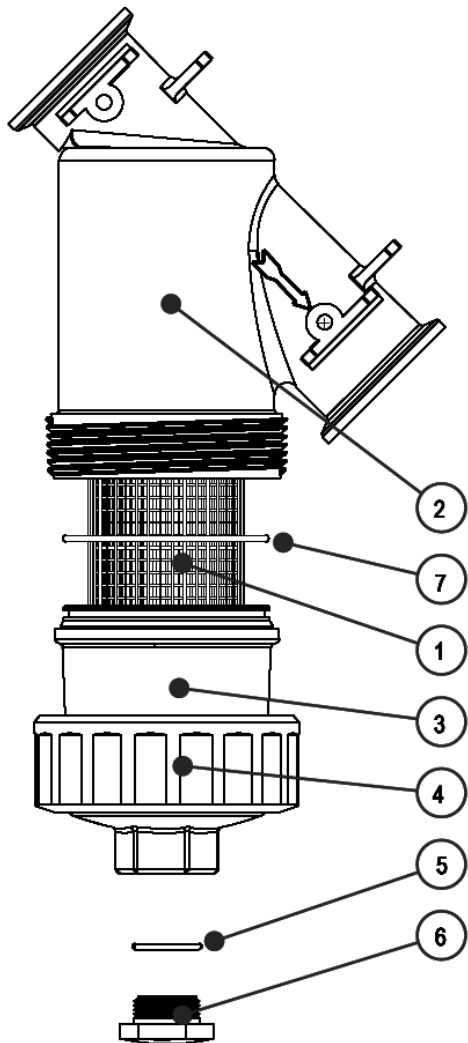
BANJO MANIFOLD FLANGE "Y" STRAINERS



MANIFOLD FLANGE

**2" Full Port Poly Manifold Flange "Y" Strainers
225 P.S.I Max.**

Part#	Description
MLS-222-30	2" Full Port Y w/30 Mesh Screen
MLS-222-50	2" Full Port Y w/50 Mesh Screen
MLS-222-80	2" Full Port Y w/80 Mesh Screen
MLS-222-100	2" Full Port Y w/100 Mesh Screen



Manifold Flange "Y" Body & Caps

- ② MLS222B 2" "Y" Body
- ③ MLS222C1 2" "Y" Strainer Cap
- ④ MLS222R1 2" "Y" Strainer Ring

Body Gasket

- ⑦ MLS222G1 2" Body Gasket

Screen

- ① LST204SS 4 SS Mesh Screen
- LST206SS 6 SS Mesh Screen
- LST208SS 8 SS Mesh Screen
- LST210SS 10 SS Mesh Screen
- LST216SS 16 SS Mesh Screen
- LST230SS 30 SS Mesh Screen
- LST250SS 50 SS Mesh Screen

Clean out plug

- ⑥ 13777 3/4" Plug (Fits 3" Strainers)

O-Ring for clean out plug

- ⑤ 13778 Fits 1"

Strainer Without Screen

- MLS222BC Itmes 2-7

MANIFOLD FLANGE

3" Manifold Flange Polypropylene "Y" Strainer

- High Volume
- Reinforced stainless steel screen
- ½" drain plug in bottom of cap
- Lightweight-high volume
- Constructed of glass filled polypropylene
- Stainless steel T-handle clamp
- 50 PSI maximum



Part#	Screen Size
MLS300-08	8 Mesh
MLS300-12	12 Mesh
MLS300-20	20 Mesh
MLS300-50	50 Mesh

Manifold Flange "Y" Body & Caps

1	MLS300B	3" "Y" Body
2	MLS300CAP	3" "Y" Strainer Cap
3	LS300EC	3" "Y" End Cap

Cap Gasket

7	LS300G	3" EPDM
	LS300GV	3" FKM (Viton)

Screen

8	LS-304	4 SS Mesh Screen
	LS-308	8 SS Mesh Screen
	LS-312	12 SS Mesh Screen
	LS-320	20 SS Mesh Screen
	LS-350	50 SS Mesh Screen

End Cap Gasket

4	MLS300ECG	3" EPDM
	MLS300ECGV	3" FKM (Viton)

Clean out plug

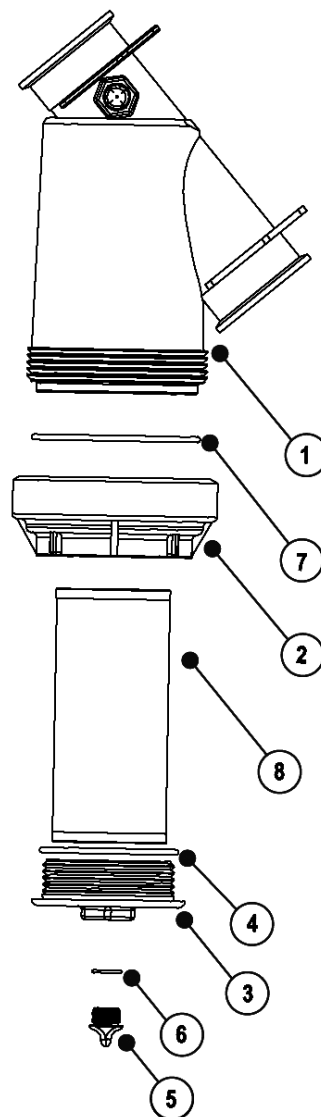
5	13777	¾" Plug (Fits 3" Strainers)
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O-Ring for clean out plug

6	13778	Fits 1"
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Strainer Without Screen

MLS300BC Itmes 1-7



BANJO MANIFOLD FLANGE FITTINGS

**MANIFOLD
FLANGE**

FITTINGS

Increase
the Flow!



M100125BRBSWP90



M100BRBSWP90



M100BRBSWPG90



M100SWP90



M100SWPG90



M200SWP90



M220200SWP90



M220ASWP90



M220BRBSWP90



M220MPTSWP90



M220SWP90



M220SWPG90



M300ASWP90



M300BRBSWP90



M300MPTSWP90



M300SWP90



M300SWPG90



M300220SWP90



90° Sweep Elbows

Part#	Description
M100125BRBSWP90	1" Manifold Flange x 1 1/4" Hose Barb
M100BRBSWP90	1" Manifold Flange x 1" Hose Barb
M100BRBSWPG90	1" Manifold Flange x 1" Hose Barb w/ 1/4" Gauge Port
M100SWP90	1" Manifold Flange x 1" Manifold Flange
M100SWPG90	1" Manifold Flange x 1" Manifold Flange w/ 1/4" Gauge Port
M200SWP90	2" Manifold Flange x 2" Manifold Flange
M220200SWP90	2" Full Port Manifold Flange x 2" Manifold Flange
M220ASWP90	2" Full Port Manifold Flange x 2" Male Adapter
M220BRBSWP90	2" Full Port Manifold Flange x 2" Hose Barb
M220MPTSWP90	2" Full Port Manifold Flange x 2" Male Pipe Thread
M220SWP90	2" Full Port Manifold Flange x 2" Full Port Manifold Flange
M220SWPG90	2" Full Port Manifold Flange x 2" Full Port Manifold Flange w/ 1/4" Gauge Port
M300ASWP90	3" Manifold Flange x 3" Male Adapter
M300BRBSWP90	3" Manifold Flange x 3" Hose Barb
M300MPTSWP90	3" Manifold Flange x 3" Male Pipe Thread
M300SWP90	3" Manifold Flange x 3" Manifold Flange
M300SWPG90	3" Manifold Flange x 3" Manifold Flange w/ 1/4" Gauge Port
M300220SWP90	3" Manifold Flange x 2" Full Port Manifold Flange

Flange Reducer



Part#	Size
M200100CPG	2" x 1"
M220100CPG	2" x 1"
M220200CPG	2"FP x 2"
M300200CPG	3" x 2"
M300220CPG	3" x 2" FP

45° Flange Coupling



Part#	Size
M100CPG45	1"
M200CPG45	2"
M220CPG45	2" FP
M300CPG45	3" FP



90° Flange Elbow



Part#	Size
M100CPG90	1"
M200CPG90	2"
M200CPG90SH	2" Short
M220CPG90	2" FP
M300CPG90	3"

Male Adapter



Part#	Size
M100A	1"
M200A	2"
M220A	2" FP
M300A	3" FP



M220CPG3G



Flange Coupling

Part#	Size
M100CPG	1" (2¼" long)
M200CPG	2" (4½" long)
M220CPG	2" FP (2 31/32" long)
M220CPG3G	2" FP (3 long) w/½" Gauge Port
M220CPG	2" FP (6" long)
M300CPG	3" FP (4" long)
M300CPG7	3" FP (7" long)
M300CPG12	3" FP (12" long)

Flange Tee



Part#	Size
M100TEE	1"
M101TEE	1" (4½" Long)
M200100TEE	2" x 1"
M200TEE	2"
M220TEE	2" FP
M220100TEE	2" FP x 1"
M220200TEE	2" FP x 2"
M300TEE	3"

Female Coupler



Part#	Size
M220D	2" FP
M303D	3" FP w/3 Arms

BANJO MANIFOLD FLANGE FITTINGS



Straight Hose Barbs



Part#	Size
M100075BRB	1" FL x ¾" H
M100BRB	1" FL x 1" H
M200100BRB	2" FL x 1" H
M200125BRB	2" FL x 1-1¼" H
M200150BRB	2" FL x 1-1½" H
M200BRB	2" FL x 2" H
M220150BRB	2" FP FL x 1½" H
M220BRB	2" FP x 2" H
M300220BRB	3" FL x 2" H
M300BRB	3" FL x 3" H

45° Elbow Hose Barbs

Part#	Size
M100BRB45	1" x 1" HB
M200BRB45	2" x 2" HB
M200150BRB45	2" x 1½" HB
M220BRB45	2" FP x 2" HB
M300BRB45	3" x 3" HB

90° Elbow Hose Barbs



Part#	Size
M10075BRB90	1" FL x ¾" H
M100BRB90	1" FL x 1" H
M200100BRB90	2" FL x 1" H
M200125BRB90	2" FL x 1-1¼" H
M200150BRB90	2" FL x 1-1½" H
M200BRB90	2" FL x 2" H
M220150BRB90	2" FP FL x 1½" H
M220BRB90	2" FP x 2" H
M300220BRB90	3" FL x 2" H
M300BRB90	3" FL x 3" H

Hose Barbs Tee



Part#	Size
M100100HBT	1" x 1" HB
M100125HBT	1" x 1¼" HB
M220150HBT	2" FP x 1½" HB
M220200HBT	2" FP x 2" HB
M300200HBT	3" x 2" HB
M300300HBT	3" x 3" HB

Ribbed Gaskets for Manifold Fittings

The ribs hold gasket in place during installation



Part#	Size
M101G	1" EPDM Manifold Gasket
M201G	2" EPDM Manifold Gasket
M221G	2" FP EPDM Manifold Gasket
M301G	3" EPDM Manifold Gasket

Manifold Accessories

Clamps & Gaskets



Part#	Size
FC100	100 Series Worm Clp.
FC200	200 Series Worm Clp.
FC220	220 Series Worm Clp.
FC300	300 Series Worm Clp.
M101G	100 Series EPDM Gskt.
M100GV	100 Series Viton Gskt.
150G	200 Series Gskt.
150GV	200 Series Viton Gskt.
200G	220 Series EPDM Gskt.
200GV	220 Series Viton Gskt.
300G	300 Series EPDM Gskt.
300GV	300 Series Viton Gskt.

Bolted Flange Clamps

Part#	Size
FC220B	2" FP Bolted
FC300B	3" Bolted



T-Bolt Flange Clamps

Part#	Size
FC220TB	2" FP Hi-torque
FC300TB	3" FP Hi-torque



MANIFOLD FLANGE

BANJO MANIFOLD FLANGE FITTINGS

FITTINGS

Female Pipe Thread



Part#	Size
M100050FPT	1" x 1/2" FPT
M100075FPT	1" x 3/4" FPT
M100FPT	1"
M200FPT	2"
M200150FPT	2" x 1 1/2" FPT
M220FPT	2" FP
M300FPT	3"

Male Pipe Thread



Part#	Size
M100075MPT	1" x 3/4" MPT
M100MPT	1" x 1" MPT
M100125MPT	1" x 1 1/4" MPT
M200125MPT	2" x 1 1/4" MPT
M200150MPT	2" x 1 1/2" MPT
M200MPT	2" x 2" MPT
M220MPT	2" FP x 2" MPT
M300MPT	3" x 3" MPT

Flange Plugs



Part#	Size
M100PLG	1"
M200PLG	2"
M220PLG	2" FP
M300PLG	3"
M100PLG025	1" w/1/4" FPT
M100PLG050	1" w/1/2" FPT
M200PLG025	2" w/1/4" FPT
M200PLG038	2" w/3/8" FPT
M200PLG050	2" w/1/2" FPT
M200PLG075	2" w/3/4" FPT
M200PLG100	2" w/1" FPT
M220PLG038	2" FP w/3/8" FPT
M220PLG075	2" FP w/3/4" FPT
M300PLG075	3" w/3/4" FPT
M300PLG100	3" w/1" FPT

Flange Cross

Part#	Size
M100CR	1"
M200CR	2"
M220CR	2" FP
M300CR	3"



45° Y Flanged Coupling

Part#	Size
M200YG45	2" FP w/Gauge Port
M220Y45	2" Full Port
M220YG45	2" FP w/Gauge Port
M300Y45	3" Full Port
M300YG45	3" FP w/Gauge Port



3" WYE

Part#	Size
M300220WYCG	M300 x M220 x M220 x M220 Full Port Flange WYE w/1/4" Gauge Port



Check Valves

Part#	Size
MCV100	1"
MCV200	2"
MCV221	2" FP w/Gauge Port
MCV300	3" w/5 lb. Spring
MCV301	3" w/1/2 lb. Spring

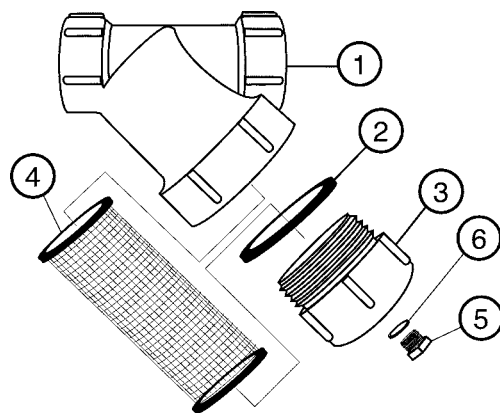


Swivel

Part#	Size
MSW220	2" Full Port



BANJO "Y" STRAINERS



Polypropylene "Y" Strainers

(75 PSI Max)

Part#	Description
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LS050-20	1/2" w/20 Mesh Screen
LS050-40	1/2" w/40 Mesh Screen
LS050-80	1/2" w/80 Mesh Screen

Part#	Description
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LS075-20	3/4" w/20 Mesh Screen
LS075-40	3/4" w/40 Mesh Screen
LS075-80	3/4" w/80 Mesh Screen

Part#	Description
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LS100-20	1" w/20 Mesh Screen
LS100-40	1" w/40 Mesh Screen
LS100-80	1" w/80 Mesh Screen

Part#	Description
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LS-125-20	1 1/4" w/20 Mesh Screen
LS-125-40	1 1/4" w/40 Mesh Screen
LS-125-80	1 1/4" w/80 Mesh Screen

(150 PSI Max)

Part#	Description
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LS-150-06	1 1/2" w/6 Mesh Screen
LS-150-12	1 1/2" w/12 Mesh Screen
LS-150-20	1 1/2" w/20 Mesh Screen
LS-150-30	1 1/2" w/30 Mesh Screen
LS-150-50	1 1/2" w/50 Mesh Screen
LS-150-80	1 1/2" w/80 Mesh Screen

Part#	Description
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LS-200-06	2" w/6 Mesh Screen
LS-200-12	2" Y w/12 Mesh Screen
LS-200-20	2" Y w/20 Mesh Screen
LS-200-30	2" Y w/30 Mesh Screen
LS-200-50	2" Y w/50 Mesh Screen
LS-200-80	2" Y w/80 Mesh Screen

Y Body and Cap

1	LS50B/C1	Fits 1/2" Strainers
	LS75B/C1	Fits 3/4" Strainers
	LS100B/C1	Fits 1" Strainers
	LS125B/C1	Fits 1 1/4" Strainers
3	LS150B/C	Fits 1 1/2" Strainers
	LS200B/C	Fits 2" Strainers

Cap Gasket

2	LS75G	Fits 1/2" and 3/4" Strainers
	LS100G	Fits 1" and 1 1/4" Strainers
	LS150G	Sq. Gasket fits 1 1/2" and 2" (New Style)
	LS200G	O-Ring fits 1 1/2" and 2" (Old Style)

End Cap

3	LS75-C1	Fits 1/2" and 3/4" Strainers
	LS100-C1	Fits 1" and 1 1/4" Strainers
	LS150-C	Fits 1-1/2" and 2" Strainers (New Style)
	LS200-C	Fits 1-1/2" and 2" Strainers (Old Style)

Screen

4	LS-720	20 Mesh (fits 1/2" and 3/4" Strainers)
	LS-740	40 Mesh (fits 1/2" and 3/4" Strainers)
	LS-780	80 Mesh (fits 1/2" and 3/4" Strainers)
	LS-120	20 Mesh (fits 1" and 1 1/4" Strainers)
	LS-140	40 Mesh (fits 1" and 1 1/4" Strainers)
	LS-180	80 Mesh (fits 1" and 1 1/4" Strainers)
	LS-206	6 Mesh (fits 1 1/2" and 2" Strainers)
	LS-212	12 Mesh (fits 1 1/2" and 2" Strainers)
	LS-220	20 Mesh (fits 1 1/2" and 2" Strainers)
	LS-230	30 Mesh (fits 1 1/2" and 2" Strainers)
	LS-250	50 Mesh (fits 1 1/2" and 2" Strainers)
	LS-280	80 Mesh (fits 1 1/2" and 2" Strainers)

Clean out plug

12776	Fits all sizes	5
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O-Ring for clean out plug

UV15163	Fits all sizes	6
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Polypropylene "T" Strainers 150 P.S.I Max.

Part#	Description
LST-075-16	¾" w/16 Mesh Screen
LST-075-30	¾" w/30 Mesh Screen
LST-075-50	¾" w/50 Mesh Screen
LST-075-80	¾" w/80 Mesh Screen
LST-075-100	¾" w/100 Mesh Screen

Part#	Description
LST-100-16	1" w/16 Mesh Screen
LST-100-30	1" w/30 Mesh Screen
LST-100-50	1" w/50 Mesh Screen
LST-100-80	1" w/80 Mesh Screen
LST-100-100	1" w/100 Mesh Screen

Part#	Description
LST-125-16	1¼" w/16 Mesh Screen
LST-125-30	1¼" w/30 Mesh Screen
LST-125-50	1¼" w/50 Mesh Screen
LST-125-80	1¼" w/80 Mesh Screen
LST-125-100	1¼" w/100 Mesh Screen

Part#	Description
LST-150-16	1½" w/16 Mesh Screen
LST-150-30	1½" w/30 Mesh Screen
LST-150-50	1½" w/50 Mesh Screen
LST-150-80	1½" w/80 Mesh Screen
LST-150-100	1½" w/100 Mesh Screen

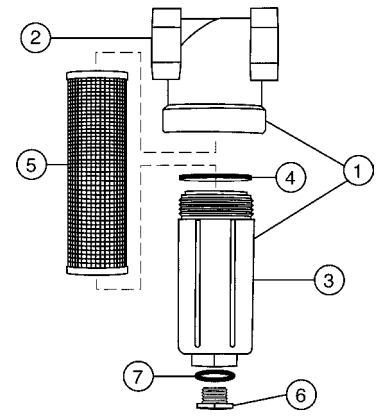


Replacement Parts

LSTM050G	EPDM Gasket
LST530	30 Mesh Screen
LST550	50 Mesh Screen
LST580	80 Mesh Screen
LST5100	100 Mesh Screen
LST050B	Black Bowl

Polypropylene Mini "T" Strainers 150 P.S.I Max.

Part#	Description
LSTM050-50	½" w/50 Mesh Screen
LSTM075-30	¾" w/30 Mesh Screen
LSTM075-50	¾" w/50 Mesh Screen



"T" Strainer Head & Bowl

LST75-HB	Fits ¾"
LST100-HB	Fits 1"
LST125-HB	Fits 1¼"
LST150-HB	Fits 1½"

"T" Strainer Head

LST75-H	Fits ¾"
LST100-H	Fits 1"
LST125-H	Fits 1¼"
LST150-H	Fits 1½"

"T" Strainer Bowl

LST100-B	Fits ¾" and 1"
LST125-B	Fits 1¼"
LST150-B	Fits 1½"

"T" Strainer Bowl Gasket

LST100-G	Fits ¾" and 1"
LST150-G	Fits 1¼" and 1½"

"T" Strainer Screens

LST116	16 Mesh, Fits ¾" and 1"
LST130	30 Mesh, Fits ¾" and 1"
LST150	50 Mesh, Fits ¾" and 1"
LST180	80 Mesh, Fits ¾" and 1"
LST1100	100 Mesh, Fits ¾" and 1"
LST1516	16 Mesh, Fits 1¼" and 1½"
LST1530	30 Mesh, Fits 1¼" and 1½"
LST1550	50 Mesh, Fits 1¼" and 1½"
LST1580	80 Mesh, Fits 1¼" and 1½"
LST15100	100 Mesh, Fits 1¼" and 1½"

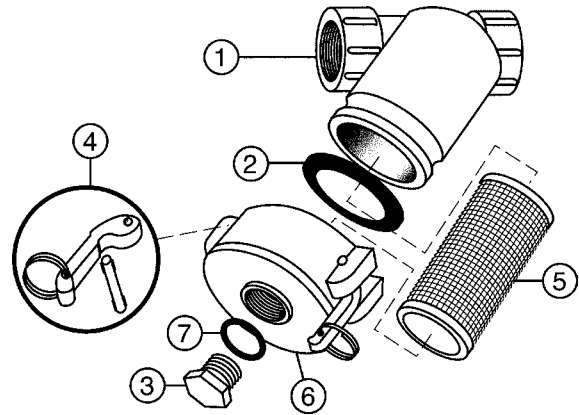
Clean out plug

12777	Fits ¾" and 1"
LSQ200-PL	Fits 1¼" and 1½"

O-Ring for Clean out plug

UV15163	Fits ¾" and 1"
LSQ200-R	Fits 1¼" and 1½"

BANJO "Y" STRAINERS



LSQ Polypropylene Strainers 50 P.S.I Max.

Part#	Description
LSQ-150-6	1½" w/6 Mesh Screen
LSQ-150-12	1½" w/12 Mesh Screen
LSQ-150-20	1½" w/20 Mesh Screen
LSQ-150-30	1½" w/30 Mesh Screen
LSQ-150-50	1½" w/50 Mesh Screen
LSQ-150-80	1½" w/80 Mesh Screen

Part#	Description
LSQ-200-6	2" w/6 Mesh Screen
LSQ-200-12	2" w/12 Mesh Screen
LSQ-200-20	2" w/20 Mesh Screen
LSQ-200-30	2" w/30 Mesh Screen
LSQ-200-50	2" w/50 Mesh Screen
LSQ-200-80	2" w/80 Mesh Screen



LSQ Strainers Repair Parts

Body and Cap

Part No.	Description
1 and 6	LSQ150-B/C 1½" LSQ Body and Cap LSQ200-B/C 2" LSQ Body and Cap

Cap Gasket

2	LSQ200-G Fits 1½" and 2" Strainer, EPDM LSQ200-G Fits 1½" and 2" Strainer, Viton®
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Clean Out Plug

3	PLO75S Fits 1½" and 2" Strainer
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Cam Arm Pin and Ring

4	300H Stainless Steel
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Screen

5	LS206 6 Mesh Fits 1½" and 2" Strainer LS212 12 Mesh Fits 1½" and 2" Strainer LS220 20 Mesh Fits 1½" and 2" Strainer LS230 30 Mesh Fits 1½" and 2" Strainer LS250 50 Mesh Fits 1½" and 2" Strainer LS280 80 Mesh Fits 1½" and 2" Strainer
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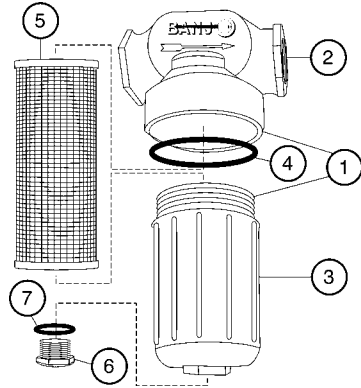
Cap

6	LSQ200-C Fits 1½" and 2" Strainer
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O-Ring For Clean Out Plug

7	LSQ200-R Fits 1½" and 2" Strainer, EPDM LSQ200-RV Fits 1½" and 2" Strainer, Viton®
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2" SS/POLY "T" STRAINERS



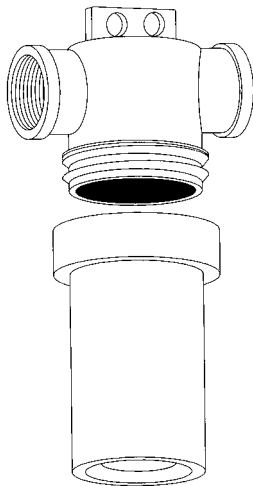
Polypropylene Bowl/SS Head Combo

2" T Strainers

Part#	Screen Size
LST200-10SS	10 Mesh Screen
LST200-16SS	16 Mesh Screen
LST200-30SS	30 Mesh Screen
LST200-50SS	50 Mesh Screen
LST200-80SS	80 Mesh Screen
LST200-100SS	100 Mesh Screen

2" "T" Strainers Repair Parts

Part No.	Description
1 Poly Bowl and 316 SS Head LST200-HBSS	"T" Strainer Bowl and Head
2 Head LST200-HSS	"T" Strainer 316 SS Head
3 Bowl LST200-B	"T" Strainer Poly Bowl
4 Bowl Gasket LST200-GV	Viton
Screen	
LST204SS	4 Mesh
LST206SS	6 Mesh
LST208SS	8 Mesh
5 LST210SS	10 Mesh
LST216SS	16 Mesh
LST230SS	30 Mesh
LST250SS	50 Mesh
LST280SS	80 Mesh
LST2100SS	100 Mesh
6 Clean Out Plug PL075S	Clean Out Plug
O-Ring For Clean Out Plug	
7 LSQ200-R	EPDM
LSQ200-RV	Viton



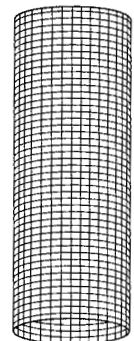
Nyglass Strainers

Nyglass offers a high quality strainer with stainless steel mesh screen at a very economical price. Glass reinforced nylon body has excellent chemical resistance.



Part#	Description
3350-44	(black) 3/4" w/40 Mesh Screen
40M-1STR	(black) 1" w/40 Mesh Screen
40M-1STR-CLR	(clear) 1" w/40 Mesh Screen

Part#	Description
HYG-5	EPDM Gasket
40MSCR	40 Mesh Screen
80MSCR	80 Mesh Screen





3" Polypropylene "Y" Strainer

- High Volume
- Reinforced stainless steel screen
- ½" drain plug in bottom of cap
- Lightweight-high volume
- Constructed of glass filled polypropylene
- Stainless steel T-handle clamp
- 50 PSI maximum

Part#	Screen Size
LSM-300-4	4 Mesh
LSM-300-8	8 Mesh
LSM-300-12	12 Mesh
LSM-300-20	20 Mesh
LSM-300-50	50 Mesh

Replacement Parts

Part#	Description
LS-300G1	EPDM Gasket
LS-300C2	End Cap
LS304	4 Mesh Screen
LS308	8 Mesh Screen
LS312	12 Mesh Screen
LS320	20 Mesh Screen
LS350	50 Mesh Screen
12777	Clean Out Plug
12722	Cleat Out Plug O-ring



3" Stainless Steel "Y" Strainer

- 200 PSI max
- Clean out plug

Part#	Description
LSS300BC	3" S.S. Body Only
LSS308	8 Mesh SS Screen
LSS312	12 Mesh SS Screen
LSS320	20 Mesh SS Screen
LSS330	30 Mesh SS Screen
LSS350	50 Mesh SS Screen
LSS300G	Replacement Cap Gasket
LSS300C	Replacement Cap
LSS300H	Replacement Clamp

If you need a metal cam lock coupling, we stock both hard coated aluminum as well as stainless steel. All couplings have stainless steel cam arms for durability and leak free operation.

A

Style "A" Male Adapter
Hard Coated Aluminum



Stainless Steel

Size	Alum.	SS
3/4"	34AHC	075ASS
1 1/2"	15AHC	150ASS
2"	20AHC	200ASS
3"	30AHC	300ASS
4"	40AHC	400ASS

B

Style "B" Female CPLG
Hard Coated Aluminum



Stainless Steel

Size	Alum.	SS
3/4"	075BHC	075BSS
1 1/2"	15BHC	150BSS
2"	20BHC	200BSS
3"	30BHC	300BSS
4"	40BHC	400BSS

C

Style "C" Female CPLG
Hard Coated Aluminum



Stainless Steel

Size	Alum.	SS
3/4"	075CHC	075CSS
1 1/2"	15CHC	150CSS
2"	20CHC	200CSS
3"	30CHC	300CSS
4"	40CHC	400CSS

CAP

Dust Cap
Hard Coated Aluminum



Stainless Steel

Size	Alum.	SS
3/4"	34VHC	075CAP/SS
1 1/2"	15VHC	150CAP/SS
2"	20VHC	200CAP/SS
3"	30VHC	300CAP/SS
4"	40VHC	400CAP/SS

D

Style "D" Coupling
Hard Coated Aluminum



Stainless Steel

Alum.	SS
75DHC	075DSS
15DHC	150DSS
20DHC	200DSS
30DHC	300DSS
40DHC	400DSS

E

Style "E" Adapter
Hard Coated Aluminum



Stainless Steel

Alum.	SS
34EHC	075ESS
15EHC	150ESS
20EHC	200ESS
30EHC	300ESS
40EHC	400ESS

F

Style "F" Adapter
Hard Coated Aluminum



Stainless Steel

Alum.	SS
75FHC	075FSS
15FHC	150FSS
20FHC	200FSS
30FHC	300FSS
40FHC	400FSS

PL

Dust Plug
Hard Coated Aluminum



Stainless Steel

Alum.	SS
75WHC	075PL/SS
15WHC	150PL/SS
20WHC	200PL/SS
30WHC	300PL/SS
40WHC	400PL/SS

BANJO CAM LEVER COUPLINGS

A



Male Adapter with Female Pipe Thread
Polypropylene Cam Lever Type "A"

Part#	Description
75A-1/4	3/4" x 1/4" FPT
75A-1/2	3/4" x 1/2" FPT
75A-3/4	3/4" x 3/4" FPT
100A	1" x 1" FPT
125A	1 1/4" x 1 1/4" FPT
150/125A	1 1/2" x 1 1/4" FPT
150A	1 1/2" x 1 1/2" FPT
200A	2" x 2" FPT
300A	3" x 3" FPT
400A	4" x 4" FPT

B



Female Cam Lever with Male Pipe Thread
Polypropylene Cam Lever Type "B"

Part#	Description
75B-1/2	3/4" w/ 1/2" MPT
75B-3/4	3/4" w/ 3/4" MPT
100B	1" w/ 1" MPT
125B	1 1/4" w/ 1 1/4" MPT
150/125B	1 1/2" w/ 1 1/4" MPT
150B	1 1/2" w/ 1 1/2" MPT
201B	2" w/ 2" MPT Extended
300B	3" w/ 3" MPT
303B	3" w/ 3" MPT Extended
400B	4" w/ 4" MPT



C



Female Cam Lever with Hose Shank
Polypropylene Cam Lever Type "C"

Part#	Description
50C	1/2" Hose Shank
75C	3/4" Hose Shank
100C	1" Hose Shank
125C	1 1/4" Hose Shank
150/125C	1 1/2" x 1 1/4" Hose Shank
150C	1 1/2" Hose Shank
200C	2" Hose Shank
300C	3" Hose Shank
303C	3" Hose Shank (with 3 cam arms)
400C	4" Hose Shank

D



Female Cam Lever with Female Pipe Thread
Polypropylene Cam Lever Type "D"

Part#	Description
050D	1/2" x 1/2" FPT
75D	3/4" x 3/4" FPT
100D	1" x 1" FPT
125D	1 1/4" x 1 1/4" FPT
150/125D	1 1/2" x 1 1/4" FPT
150D	1 1/2" x 1 1/2" FPT
200D	2" x 2" FPT
300D	3" x 3" FPT
400D	4" x 4" FPT

E



Male Adapter with Hose Shank
Polypropylene Cam Lever Type "E"

Part#	Description
050E	1/2" Hose Shank
075E	3/4" Hose Shank
100E	1" Hose Shank
125E	1 1/4" Hose Shank
150/125E	1 1/2" x 1 1/4" Hose Shank
150E	1 1/2" Hose Shank
200E	2" Hose Shank
300E	3" Hose Shank
400E	4" Hose Shank

PL



Male Adapter Plug
Polypropylene Cam Lever Type "PL"

Part#	Description
75PL	Fits 1/2" & 3/4" Plug
100PL	1" Plug
150PL	1 1/2" Plug
200PL	2" Plug
300PL	3" Plug
400PL	4" Plug

Safety Bump

Alternative choice to traditional cam & groove caps & plugs. Provides a comfortable handle for the driver's hand and a "bump" that extends beyond the hose fittings and ears, protecting them from damage.



Part#	Description
20SBM	2" Pull Plug
30SBM	3" Pull Plug

Banjo Reducer Coupling

Adapts 3" Male adapter down to 2" male adapter



Part#	Description
303B200A	3" Female Coupler w/ 3" Arms x 2" Male Adapter

F



Male Adapter with Male Thread
Polypropylene Cam Lever Type "F"

Part#	Description
050F	1/2" Male Thread
075F	3/4" Male Thread
100F	1" Male Thread
125F	1 1/4" Male Thread
150/125F	1 1/2" x 1 1/4" Male Thread
150F	1 1/2" Male Thread
200F	2" Male Thread
300F	3" Male Thread
400F	4" Male Thread

CAP



Female Cam Lever "CAP"
Polypropylene Cam Lever Type "CAP"

Part#	Description
75CAP	Fits 1/2" & 3/4" Cap
100CAP	1" Cap
150CAP	1 1/2" Cap
200CAP	2" Cap
300CAP	3" Cap
400CAP	4" Cap

Male Adapter

90° Elbow with Female Pipe Thread Polypropylene Cam Lever Type "A" 90°



Part#	Description
150A-90	1 1/2" 90° Male Adapter
200A-90	2" 90° Male Adapter

Polypropylene Cam Lever Type "C" 90°



Part#	Description
150C-90	1 1/2" 90° Hose Shank
200C-90	2" 90° Hose Shank

BANJO CAM LEVER COUPLINGS



Polypropylene Cam Lever Type "D" 90°

Part#	Description
150D-90	1½" 90° x FPT
200D-90	2" 90° x FPT



Polypropylene Cam Lever Type "F" 90°

Part#	Description
150F-90	1½" 90° x MPT
200F-90	2" 90° x MPT



Banjo Spool Adapters Male reducing adapters

Part#	Size
200FF	2" Male Adapter x 2" Male Adapter
300F200F	3" Male Adapter x 2" Male Adapter
300FF	3" Male Adapter x 3" Male Adapter



Gaskets and Shims

Size	Standard Gasket
¾"	75G
1"	100G
1½"	150G
2"	200G
3"	300G
4"	400G



Polypropylene Switch-A-Roos Male

Part#	Description
75A-14-SA	¼" FPT Self Aligning
75A-38-SA	⅜" FPT Self Aligning
75A-12-SA	½" FPT Self Aligning
75A-34-SA	¾" FPT Self Aligning
75A-14	¼" FPT
75A-38	⅜" FPT
75A-12	½" FPT
75A-34	¾" FPT



Polypropylene Switch-A-Roos Female

Part#	Description
75B-12	Female Coupler ½" MPT
75B-34	Female Coupler ¾" MPT

Banjo Cam Lever Coupling Parts Arms, Pins & Rings



Part#	Description
75H	¾"
100H	1" & 1¼"
200H	1½" & 2"
300H	3"
400H	4"



X-Thick Gasket
75GXT
100GXT
150GXT
200GXT
300GXT
400GXT

Shim
75SG
1SG
112SG
2SG
3SG
4SG



Polypropylene Pipe Plug

Part#	Size
PLUG-050	1/2"
PLUG-75	3/4"
PLUG-100	1"
PLUG-125	1 1/4"
PLUG-150	1 1/2"
PLUG-200	2"
PLUG-300	3"



Polypropylene Pipe Coupling

Part#	Size
CPLG-038	3/8" Coupling
CPLG-050	1/2" Coupling
CPLG-075	3/4" Coupling
CPLG-100	1" Coupling
CPLG-125	1 1/4" Coupling
CPLG-150	1 1/2" Coupling
CPLG-200	2" Coupling
CPLG-300	3" Coupling



Polypropylene Pipe Reducer Coupling

Part#	Size
RC100-075	1" x 3/4"
RC150-100	1 1/2" x 1"
RC150-125	1 1/2" x 1 1/4"
RC200-100	2" x 1"
RC200-125	2" x 1 1/4"
RC200-150	2" x 1 1/2"
RC300-200	3" x 2"



Polypropylene Reducer Nipple

Part#	Size
RN050-38	1/2" x 3/8"
RN075-50	3/4" x 1/2"
RN100-050	1" x 1/2"
RN100-075	1" x 3/4"
RN125-075	1 1/4" x 3/4"
RN125-100	1 1/4" x 1"
RN150-100	1 1/2" x 1"
RN150-125	1 1/2" x 1 1/4"
RN200-125	2" x 1 1/4"
RN200-150	2" x 1 1/2"
RN300-200	3" x 2"



Polypropylene Swivels

Part#	Size
SW100	1" MPT Poly Swivel
SW150	1 1/2" MPT Poly Swivel
SW200	2" MPT Poly Swivel
SW220	2" FP Mx2" F Swivel



Threaded Polypropylene Cross

Part#	Size
CR075	¾" Female Thread
CR100	1" Female Thread
CR125	1¼" Female Thread
CR150	1½" Female Thread
CR200	2" Female Thread



Polypropylene Street Elbow 90°

Part#	Size
SL-038-90	¾" 90°
SL-050-90	½" 90°
SL-075-90	¾" 90°
SL-100-90	1" 90°
SL-125-90	1¼" 90°
SL-150-90	1½" 90°
SL-200-90	2" 90°
SL-300-90	3" 90°



Polypropylene Street Elbow 45°

Part#	Size
SL-075-45	¾" 45°
SL-100-45	1" 45°
SL-125-45	1¼" 45°
SL-150-45	1½" 45°
SL-200-45	2" 45°
SL-300-45	3" 45°



Polypropylene Pipe Cap

Part#	Size
Cap-075	¾" Poly Pipe Cap
Cap-100	1" Poly Pipe Cap
Cap-150	1½" Poly Pipe Cap
Cap-200	2" Poly Pipe Cap
Cap-300	3" Poly Pipe Cap



Polypropylene Threaded Pipe Tee

Part#	Size
TEE-038	¾" Tee
TEE-050	½" Tee
TEE-075	¾" Tee
TEE-100	1" Tee
TEG-100	1" W ¼" Port
TEE-125	1¼" Tee
TEE-150	1½" Tee
TEE-200	2" Tee
TEE-300	3" Tee



Polypropylene Pipe Elbow 90°

Part#	Size
EL-050-90	½" 90°
EL-075-90	¾" 90°
EL-100-90	1" 90°
EL-125-90	1¼" 90°
EL-150-90	1½" 90°
EL-200-90	2" 90°
EL-300-90	3" 90°



Polypropylene 45° Elbow

Part#	Description
EL-100-45	1" Poly Pipe Elbow 45°



Polypropylene Reducer Bushing

Part#	Size
RB-038-025	3/8" x 1/4"
RB-050-025	1/2" x 1/4"
RB-050-038	1/2" x 3/8"
RB-075-018	3/4" x 1/8"
RB-075-025	3/4" x 1/4"
RB-075-038	3/4" x 3/8"
RB-075-050	3/4" x 1/2"
RB-100-025	1" x 1/4"
RB-100-050	1" x 1/2"
RB-100-075	1" x 3/4"
RB-125-075	1 1/4" x 3/4"
RB-125-100	1 1/4" x 1"
RB-150-075	1 1/2" x 3/4"
RB-150-100	1 1/2" x 1"
RB-150-125	1 1/2" x 1 1/4"
RB-200-075	2" x 3/4"
RB-200-100	2" x 1"
RB-200-125	2" x 1 1/4"
RB-200-150	2" x 1 1/2"
RB-300-150	3" x 1 1/2"
RB-300-200	3" x 2"
RB-400-300	4" x 3"

Polypropylene Nipple

Part#	Size
NIP-038-SH	3/8" x Short
NIP-050-SH	1/2" x Short
NIP-050-3	1/2" x 3"
NIP-075-SH	3/4" x Short
NIP-0750-4	3/4" x 4"
NIP-0750-6	3/4" x 6"
NIP-100-SH	1" x Short
NIP-100-4	1" x 4"
NIP-100-6	1" x 6"
NIP-125-SH	1 1/4" x Short
NIP-125-4	1 1/4" x 4"
NIP-125-6	1 1/4" x 6"
NIP-150-SH	1 1/2" x Short
NIP-150-3	1 1/2" x 3"
NIP-150-4	1 1/2" x 4"
NIP-150-6	1 1/2" x 6"
NIP-200-SH	2" x Short
NIP-200-4	2" x 4"
NIP-200-6	2" x 6"
NIP-300-SH	3" x Short"
NIP-300-4	3" x 4"
NIP-300-6	3" x 6"

Rectorseal #21

Rectorseal #21. Recommended by Banjo for use with their poly valves and fittings. RectorSeal® No. 21 pipe thread sealant is a black, soft-set, multi-purpose sealant created for applications where a black sealant is preferred.

Size
1/2 pt



Rectorseal Tru-Blu

Tru-Blu Liquid Teflon Sealant with PTFE is a fast-dry, flexible set thread sealant designed for high vibration environments. PTFE has been added to enhance thread lubrication during assembly and break out.



Part#	Description
31780	1-3/4 oz Tube Tru-Blu
31631	1/4 pt (4 oz) Tru-Blu

BANJO HOSE FITTINGS

Banjo Polypropylene Hose Barbs

- Precision molded in polypropylene
- Glass reinforced for stability, strength and toughness
- Pressure to 150 PSI at 70°
- Hose barbs are molded specifically to fit properly in hose
- Sizes range from 1/4" to 4"
- Combination sizes available for elbows and straight barbs
- Excellent chemical resistance



Poly Hose Barbs

Part#	Description
HB-025	1/4" M. Thrd. x 1/4" Hose
HB-025038	1/4" M. Thrd. x 3/8" Hose
HB-038	3/8" M. Thrd. x 3/8" Hose
HB-038050	3/8" M. Thrd. x 1/2" Hose
HB-050038	1/2" M. Thrd. x 3/8" Hose
HB-050	1/2" M. Thrd. x 1/2" Hose
HB-050075	1/2" M. Thrd. x 3/4" Hose
HB-075050	3/4" M. Thrd. x 1/2" Hose
HB-075	3/4" M. Thrd. x 3/4" Hose
HB-075058	3/4" M. Thrd. x 5/8" Hose
HB-075/100	3/4" M. Thrd. x 1" Hose
HB-100075	1" M. Thrd. x 3/4" Hose
HB-100	1" M. Thrd. x 1" Hose
HB-100/125	1" M. Thrd. x 1 1/4" Hose
HB-125/075	1 1/4" M. Thrd. x 3/4" Hose
HB-125/100	1 1/4" M. Thrd. x 1" Hose
HB-125	1 1/4" M. Thrd. x 1 1/4" Hose
HB-125/150	1 1/4" M. Thrd. x 1 1/2" Hose
HB-150/125	1 1/2" M. Thrd. x 1 1/4" Hose
HB-150/100	1 1/2" M. Thrd. x 1" Hose
HB-150	1 1/2" M. Thrd. x 1 1/2" Hose
HB-150/200	1 1/2" M. Thrd. x 2" Hose
HB-200/150	2" M. Thrd. x 1 1/2" Hose
HB-200	2" M. Thrd. x 2" Hose
HB-300	3" M. Thrd. x 3" Hose
HB-400	4" M. Thrd. x 4" Hose



Poly Hose Shank

Part#	Description
HBEL-100-90	1" Hose Shank x 1" Hose Shank



Poly Hose Barb Tee

Part#	Description
HBT-050-075	1/2" x 1/2" x 3/4" Hose
HBT-075	3/4" Hose Shank
HBT-100	1" Hose Shank
T-200	2" Hose Barb
HBT-300	3" Hose Barb



"Y" Fitting (Barb x Barb x Barb)

Part#	Mat.	Barb	Barb
TTY444	Poly	1/4"	1/4"
TTY666	Poly	3/8"	3/8"
400-215X	SS	3/8"	3/8"
TTY888	Poly	1/2"	1/2"



Poly Elbow Hose (Barb x Barb)

Part#	Barb	Barb
EL14HB	1/4"	1/4"
EL38HB	3/8"	3/8"
EL12HB	1/2"	1/2"
EL34HB	3/4"	3/4"
EL100HB	1"	1"
EL114HB	1 1/4"	1 1/4"
EL112HB	1 1/2"	1 1/2"
EL200HB	2"	2"



Hose Barb (90° Elbow)

Part#	Description
HB-25-90	1/4" M. Thrd. x 1/4" Hose
HB-38-90	3/8" M. Thrd. x 3/8" Hose
HB-50/38-90	1/2" M. Thrd. x 3/8" Hose
HB-50-90	1/2" M. Thrd. x 1/2" Hose
HB-50/75-90	1/2" M. Thrd. x 3/4" Hose
HB-75/50-90	3/4" M. Thrd. x 1/2" Hose
HB-75-90	3/4" M. Thrd. x 3/4" Hose
HB-75/100-90	3/4" M. Thrd. x 1" Hose
HB-100/75-90	1" M. Thrd. x 3/4" Hose
HB-100-90	1" M. Thrd. x 1" Hose
HB-100/125-90	1" M. Thrd. x 1 1/4" Hose
HB-125/100-90	1 1/4" M. Thrd. x 1" Hose
HB-125-90	1 1/4" M. Thrd. x 1 1/4" Hose
HB-150-90	1 1/2" M. Thrd. x 1 1/2" Hose
HB-200-90	2" M. Thrd. x 2" Hose
HB-300-90	3" M. Thrd. x 3" Hose



Tee (Barb x Barb x Barb)

Part#	Barb	Barb
T14	1/4"	1/4"
T1438	1/4"	3/8"
T38	3/8"	3/8"
T3812	3/8"	1/2"
T1238	1/2"	3/8"
T12	1/2"	1/2"
T58	5/8"	5/8"
T3412	3/4"	1/2"
T34	3/4"	3/4"
T100	1"	1"
T114	1 1/4"	1 1/4"
T112	1 1/2"	1 1/2"
T200	2"	2"

Poly Elbow FPT x Hose Barb

Part#	Barb	Barb
EL3812F	3/8"	1/2"
EL3412F	3/4"	1/2"



Poly Hose (Mender Barb x Barb)

Part#	Barb	Barb
SHM14	1/4"	1/4"
SHM3814	1/4"	3/8"
SHM38	3/8"	3/8"
SHM1238	1/2"	3/8"
SHM12	1/2"	1/2"
SHM1258	1/2"	5/8"
SHM58	5/8"	5/8"
HM075	3/4"	3/4"
HM100	1"	1"
HM125	1 1/4"	1 1/4"
HM150	1 1/2"	1 1/2"
HM200	2"	2"
HM300	3"	3"

Poly Coupling Female Thread

Part#	Size
FC18N	1/8"
FC14N	1/4"
FC3814	3/8"



For Other Size Fittings Not Shown See Banjo Section

Poly Tee Female Thread x 1/4" Gauge Port

Part#	Size
GTT1214	1/2"
GTT3414	3/4"
TEG100	1"



POLY HOSE FITTINGS

FITTINGS



Poly Elbow MPT x Hose Barb

Part#	MPT	Barb
EL1814	1/8"	1/4"
EL1838	1/8"	3/8"
EL1414	1/4"	1/4"
EL1438	1/4"	3/8"
EL1412	1/4"	1/2"
EL3814	3/8"	1/4"
EL3838	3/8"	3/8"
EL3812	3/8"	1/2"
EL3858	3/8"	5/8"
EL1214	1/2"	1/4"
EL1238	1/2"	3/8"
EL1212	1/2"	1/2"
EL1258	1/2"	5/8"
EL1234	1/2"	3/4"
EL3438	3/4"	3/8"
EL3412	3/4"	1/2"
EL3434	3/4"	3/4"
EL34100	3/4"	1"
EL10012	1"	1/2"
EL10034	1"	3/4"
EL100	1"	1"
EL11434	1 1/4"	3/4"
EL114100	1 1/4"	1"
EL114112	1 1/4"	1 1/2"

(Quantity Discounts on 25 and Up)



Poly Hex Head Pipe Plug

Part#	Size
F18	1/8"
F14	1/4"
F38	3/8"



Poly MPT x Hose Barb

Part#	MPT	Barb
A1814	1/8"	1/4"
A1414	1/4"	1/4"
A1438	1/4"	3/8"
A1412	1/4"	1/2"
A3814	3/8"	1/4"
A3838	3/8"	3/8"
A3812	3/8"	1/2"
A3858	3/8"	5/8"
A1214	1/2"	1/4"
A1238	1/2"	3/8"
A1212	1/2"	1/2"
A1258	1/2"	5/8"
A1234	1/2"	3/4"
A3414	3/4"	1/4"
A3438	3/4"	3/8"
A3412	3/4"	1/2"
A3458	3/4"	5/8"
A3434	3/4"	3/4"
A34100	3/4"	1"
A100	1"	1"
A11434	1 1/4"	3/4"
A114100	1 1/4"	1"



Banjo Suction Basket Strainer

Part#	Size
200SBS	2"
300SBS	3"



Spray Nozzle

- Heavy-duty machined aluminum construction stands up to hard use
- Multiple spray patterns, adjusts from a powerful jet stream to a gentle fan
- Aluminum hose connection provides a tight fit, will not rust
- Resists dents, mars and scratches and also protects any surface that comes in contact with nozzle

Part#	Size
GHN075	3/4"

Banjo Garden Hose Couplings

Quick and simple way to connect and disconnect your garden hose. Durable, rustproof yellow fiberglass reinforced polypropylene construction.



Adapter

Part#	Description
GHFT075A	3/4" F Thread
GHMT075F	3/4" M Thread



Couplers

Part#	Description
GHMT075B	3/4" M Thread
GHFT075D	3/4" F Thread



Fittings

Part#	Description
GHMT075FPT	MGHT x 3/4" FPT
GHFT075MPT	FGHT x 3/4" MPT
GHMT075MPT	MGHT x 3/4" MPT



Garden Hose

- 35% lighter than conventional hoses
- Kink free design
- Made in the USA
- Lifetime guarantee



Part#	Size
PPWH-50	50 ft.
PPWH-100	100 ft.

Garden Hose Fittings



Part#	Description
BA776	3/4" MPT x MGHT
BA74	1/2" MPT x MGHT



Part#	Description
504-1212	FGHT Swivel x M NPTF

Garden Hose Fittings



Part#	Description
Y-9-BR	3way GHT x MGHT
E3412	3/4" MGHT x 1/2" MPT
3E3438	3/4" MGHT x 3/8" MPT
D3438	3/4" MGHT x 3/8" HB
3E34	3/4" MGHT x 3/4" MPT
3G34	3/4" MGHT x 3/4" FPT
H34	3/4" FGHT X 3/4" MPT

TANK ACCESSORIES

Banjo Poly Bulkhead Fittings

All Banjo poly bulkhead fittings are standard double threaded with EPDM Gaskets. Viton gaskets are available. Also available in Stainless Steel.



Part#	Size	Hole	Gasket#
TF050	1/2"	1 1/8"	150G
TF075	3/4"	1 1/8"	150G
TF100	1"	2 1/4"	200G
TF125	1 1/4"	2 1/4"	200G
TF150	1 1/2"	3"	300G
TF200	2"	3"	300G
TF220	2"	3 1/4"	TF220G
TF300	3"	4 1/2"	TF300G

NOTE: for viton replacement gaskets, add "V" to part no.



Banjo Bolted Tank Fittings

Polypropylene Bolted Tank Fittings feature SS bolts

Part#	Size	Gasket
BF075	3/4"	BF100GE
BF100	1"	BF100GE
BF125	1 1/4"	BF100GE
BF150	1 1/2"	BF200GE
BF200	2"	BF200GE
BF220	2" full port	200G
BF300	3"	BF300GE

NOTE: for viton replacement gaskets, add "V" to part no.



Screen comes with VC230 & VC330

Anti Vortex Vent Cap

Part#	Size
VC200	2"
VC230	2"
VC300	3"
VC330	3"



Anti Vortex Tank Flanges

Part#	Size
TF150AV	1 1/2"
TF200AV	2"

Hudson Float Valve



Part#
HDV1000

Topaz Float Valve



Part#
VJT1



Banjo Poly Siphon Tube

Part#	Size
ST200	2"
ST300	3"



TCA Tank Car Adapter

Used on railcar to adapt outlet fitting to cam lock fitting

Part#	Size
TCA30X50AL	3" x 5"
TCA40X50AL	4" x 5"

Steel King Nipples



Part#	Size
A94A	1/4" MPT x 3/8" HB
12KC	1/2"
34KC	3/4"
1KC	1"
114KC	1 1/4"
112KC	1 1/2"
2KC	2"
3KC	3"
4KC	4"

Stainless Steel King Nipples

Part#	Size
A6132-SS	1/8" MPT x 3/8" HB
A94	1/4" MPT x 3/8" HB
316A12	1/2"
316S34	3/4"
316S100	1"
316S114	1 1/4"
316S112	1 1/2"
316S200	2"
316S300	3"
316S400	4"



90° S.S. ELBOW

Size	Part#
1/4"	14X90ESS
3/8"	38X90ESS
1/2"	12X90ESS
3/4"	34X90ESS
1"	1X90ESS
1 1/4"	114X90ESS
1 1/2"	112X90ESS
2"	2X90ESS
3"	3X90ESS
4"	4X90ESS



45° S.S. ELBOW

Size	Part#
1/4"	14X45ESS
3/8"	38X45ESS
1/2"	12X45ESS
3/4"	34X45ESS
1"	1X45ESS
1 1/4"	114X45ESS
1 1/2"	112X45ESS
2"	2X45ESS
3"	3X45ESS
4"	4X45ESS



90° S.S. ST. ELBOW

Size	Part#
1/4"	14X90SESS
3/8"	38X90SESS
1/2"	12X90SESS
3/4"	34X90SESS
1"	1X90SESS
1 1/4"	114X90SESS
1 1/2"	112X90SESS
2"	2X90SESS
3"	3X90SESS
4"	4X90SESS



S.S. TEE

Size	Part#
1/4"	14TSS
3/8"	38TSS
1/2"	12TSS
3/4"	34TSS
1"	1TSS
1 1/4"	114TSS
1 1/2"	112TSS
2"	2TSS
3"	3TSS
4"	4TSS



S.S. Bell Reducer

Size	Part#
1/2" x 1/4"	12X14RSS
3/4" x 1/2"	34X12RSS
1" x 3/4"	1X34RSS
1 1/4" x 1"	114X1RSS
1 1/2" x 1 1/4"	112X114RSS
2" x 1 1/2"	2X112RSS



S.S. Reducer Bushing

Size	Part#
1/2" x 1/4"	12X14BSS
3/4" x 1/2"	34X12BSS
1" x 3/4"	1X34BSS
1 1/4" x 1"	114X1BSS
1 1/2" x 1 1/4"	112X114BSS
2" x 1 1/2"	2X112BSS
3" x 2"	3X2BSS
4" x 3"	4X3BSS



S.S. Coupling

Size	Part#
1/4"	14CSS
3/8"	38CSS
1/2"	12CSS
3/4"	34CSS
1"	1CSS
1 1/4"	114CSS
1 1/2"	112CSS
2"	2CSS
3"	3CSS
4"	4CSS



S.S. Pipe Plugs

Size	Part#
1/4"	14PSS
3/8"	38PSS
1/2"	12PSS
3/4"	34PSS
1"	1PSS
1 1/4"	114PSS
1 1/2"	112PSS
2"	2PSS
3"	3PSS
4"	4PSS



S.S. PIPE Nipples

	Close	Short	2"	3"	4"	6"	8"	10"	12"
1/4"	14XCNSS	14XSNSS	14X2NSS	14X3NSS	14X4NSS	14X6NSS	14X8NSS	14X10NSS	14X12NSS
3/8"	38XCNSS	38XSNSS	38X2NSS	38X3NSS	38X4NSS	38X6NSS	38X8NSS	38X10NSS	38X12NSS
1/2"	12XCNSS	12XSNSS	12X2NSS	12X3NSS	12X4NSS	12X6NSS	12X8NSS	12X10NSS	12X12NSS
3/4"	34XCNSS	34XSNSS	34X2NSS	34X3NSS	34X4NSS	34X6NSS	34X8NSS	34X10NSS	34X12NSS
1"	1XCNSS	1XSNSS	1X2NSS	1X3NSS	1X4NSS	1X6NSS	1X8NSS	1X10NSS	1X12NSS
1 1/4"	114XCNSS	114XSNSS	114X2NSS	114X3NSS	114X4NSS	114X6NSS	114X8NSS	114X10NSS	114X12NSS
1 1/2"	112XCNSS	112XSNSS	112X2NSS	112X3NSS	112X4NSS	112X6NSS	112X8NSS	112X10NSS	112X12NSS
2"	2XCNSS	2XSNSS		2X3NSS	2X4NSS	2X6NSS	2X8NSS	2X10NSS	2X12NSS
3"	3XCNSS	3XSNSS			3X4NSS	3X6NSS	3X8NSS	3X10NSS	3X12NSS

POLYETHYLENE PIPE & FITTINGS - HDPE

FITTINGS

High Density Pipe

High Density Polyethylene (HDPE) Pipe is an exceptional piping product well-suited for a broad range of demanding applications. With its strong, butt-fused joints and long-term ductility, HDPE pipe can be installed in numerous ways. So what sets HDPE apart from other products? In a phrase, peace of mind. HDPE pipe is strong, durable, flexible and light weight. When fused together, HDPE has a zero leak rate because the fusion process creates a monolithic HDPE system. HDPE pipe is also a more environmentally sustainable option as it is non-toxic, corrosion- and chemical-resistant, has a long design life, and is ideal for trenchless installation methods because of its flexibility.



HDPE PIPE

Size	Part#
1"	SDR11-1
1½"	SDR11-112
2"	SDR11-2
3"	SDR11-3
4"	SDR11-4



Please call for more sizes and options available for HDPE. 6" & 8" pipe & fittings are available along with other options.



BRANCH SADDLE

Size	Part#
2"	SDR11-2SADDLE
3"	SDR11-3SADDLE
4"	SDR11-4SADDLE



TRANSITION REDUCER

Size	Part#
4" to 3"	SDR11-4X3-TRANS-HB-SS



- Provides a direct branch connection at any location where a hole can be cut in the pipe
- Available as a tee or cross outlet with female threaded or grooved ends
- Sizes from 2 - 8"
- Pressures up to 500 psi

MECHANICAL-T BOLTED OUTLET CALL FOR SIZES AND STYLES



AIR PURGE FITTING

With ¾" Stainless Steel FPT
Molded Fitting

Size	Part#
2"	DPAPF2
3"	DPAPF3
4"	DPAPF4

POLYETHYLENE PIPE FITTINGS - HDPE



90° ELBOW

Size	Part#
1"	SDR11-1X90EL
1½"	SDR11-112X90EL
2"	SDR11-2X90EL
3"	SDR11-3X90EL
4"	SDR11-4X90EL



45° ELBOW

Size	Part#
1"	SDR11-1X45EL
1½"	SDR11-112X45EL
2"	SDR11-2X45EL
3"	SDR11-3X45EL
4"	SDR11-4X45EL



TEE

Size	Part#
1"	SDR11-1-TEE
1½"	SDR11-112-TEE
2"	SDR11-2-TEE
3"	SDR11-3-TEE
4"	SDR11-4-TEE



CROSS

Size	Part#
1"	SDR11-1CR
1½"	SDR11-112CR
2"	SDR11-2CR
3"	SDR11-3CR
4"	SDR11-4CR



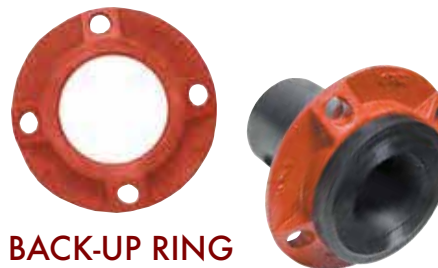
REDUCER

Size	Part#
1½" to 1"	SDR11-112X1RED
2" to 1"	SDR11-2X1RED
2" to 1½"	SDR11-2X112RED
3" to 2"	SDR11-3X2RED
4" to 2"	SDR11-4X2RED
4" to 3"	SDR11-4X3RED



FLANGE ADAPTER

Size	Part#
1"	SDR11-1-FLG
1½"	SDR11-112-FLG
2"	SDR11-2-FLG
3"	SDR11-3-FLG
4"	SDR11-4-FLG



BACK-UP RING

Size	Part#
1"	SDR11-1-BU-CS
1½"	SDR11-112-BU-CS
2"	SDR11-2-BU-CS
3"	SDR11-3-BU-CS
4"	SDR11-4-BU-CS



45° LATERAL WYE FABRICATED 3 SEGMENTS

Size	Part#
2"	SDR11-2-WYE
3"	SDR11-3-WYE
4"	SDR11-4-WYE



CS = Carbon Steel
SS = Stainless Steel

TRANSITION x MPT

Size	Part#
1"	SDR11-1-TRANS-MPT-CS
1"	SDR11-1-TRANS-MPT-SS
1½"	SDR11-112-TRANS-MPT-CS
1½"	SDR11-112-TRANS-MPT-SS
2"	SDR11-2-TRANS-MPT-CS
2"	SDR11-2-TRANS-MPT-SS
3"	SDR11-3-TRANS-MPT-CS
3"	SDR11-3-TRANS-MPT-SS
4"	SDR11-4-TRANS-MPT-CS
4"	SDR11-4-TRANS-MPT-SS



CS = Carbon Steel
SS = Stainless Steel

TRANSITION x HB

Size	Part#
1"	SDR11-1-TRANS-HB-CS
1"	SDR11-1-TRANS-HB-SS
1½"	SDR11-112-TRANS-HB-CS
1½"	SDR11-112-TRANS-HB-SS
2"	SDR11-2-TRANS-HB-CS
2"	SDR11-2-TRANS-HB-SS
3"	SDR11-3-TRANS-HB-CS
3"	SDR11-3-TRANS-HB-SS
4"	SDR11-4-TRANS-HB-CS
4"	SDR11-4-TRANS-HB-SS

PUSH LOCK FITTINGS-AUTOLOCK COUPLINGS

Part MC Male Connector



Part#	Tube OD	Thread
8JMC14018	1/4"	1/8"
8JMC14014	1/4"	1/4"
8JMC14038	1/4"	3/8"
8JMC38014	3/8"	1/4"
8JMC38038	3/8"	3/8"
8JMC12038	1/2"	3/8"
8JMC12012	1/2"	1/2"

Part MT Male Tube Stem



Part#	Tube OD	Thread
8JMT14018	1/4"	1/8"
8JMT14014	1/4"	1/4"
8JMT14038	1/4"	3/8"
8JMT38014	3/8"	1/4"
8JMT38038	3/8"	3/8"
8JMT12038	1/2"	3/8"
8JMT12012	1/2"	1/2"

Fixed Elbow MPT x Tube

Part#	Size
8JME140140	1/4"
8JME380380	3/8"
8JME516140	1/2"



Female Adaptor

Part#	Size
8JFC140140NPT	1/4" x 1/4" FPT
8JFC380140NPT	3/8" x 1/4" FPT
8JFC380380	3/8" x 3/8" FPT



2 Way Divided Connector

Part#	Size
8J2WDC516	5/16"
8J2WDC140	1/4"
8J2WDC380	3/8"



Valve

Part#	Size
44103288	1/4"
44103289	3/8"



These couplings are ideal for use in air lines on sprayers. Made of durable nylon and work with air line listed below:

More connections are available call or check the website for all the push lock couplings we carry.



Part TC Tee Connector

Part#	Size
8JUTC140	1/4"
8JUTC380	3/8"
8JUTC120	1/2"



Part UC Union Connector

Part#	Size
8JUC140	1/4"
8JUC380	3/8"
8JUC120	1/2"

Part UC Reducing Union Connector

Part#	Size
8JRUC380140	3/8" x 1/4"
8JRUC120380	1/2" x 3/8"



Part ULC Union Elbow Connector

Part#	Size
8JULC140	1/4"
8JULC380	3/8"
8JULC120	1/2"



Cross

Part#	Size
8JCR380380	1/2"

Air Line Tubing

Sold in 100' Rolls



Part#	Out-side(D)	In-side(D)
T1103	1/4"	1/8"
2T20-0604-BK-1	3/8"	1/4"
2T20-0806-BK-10	1/2"	3/8"

4000 Series - 4 Roller

- Max. flow:
400I: 9 GPM at 1800 RPM
410I: 7 GPM at 2600 RPM
- Max. pressure: 150 PSI
- Max. speed:
400I: 1800 RPM
410I: 2600 RPM
- Shaft size: 5/8" solid
- Port size: 3/4" NPT
- Max. fluid temperature: 140° F
- Cast Iron, Ni-Resist or Silver Series housing available
- Pump shaft rotation: CW (CCW available)
- Weight 5 lbs: 2.27 kg
- Rollers: Super Rollers standard (Poly, Teflon and Buna-N)
- Shaft seals: Viton standard (Buna-N, leather available)
- PTO Coupler: 1320-0016 5/8" x 5/8" hollow shaft adapter



Part#

4101C-A

4001C-A

4000 Series (12V) - 4 Roller

- Includes 12-volt DC electric motor
- Max flow: 7.5 GPM
- Max Pressure: 50 PSI
- Weight 18 lbs.
- Pump shaft 1/2"
- Super rollers standard



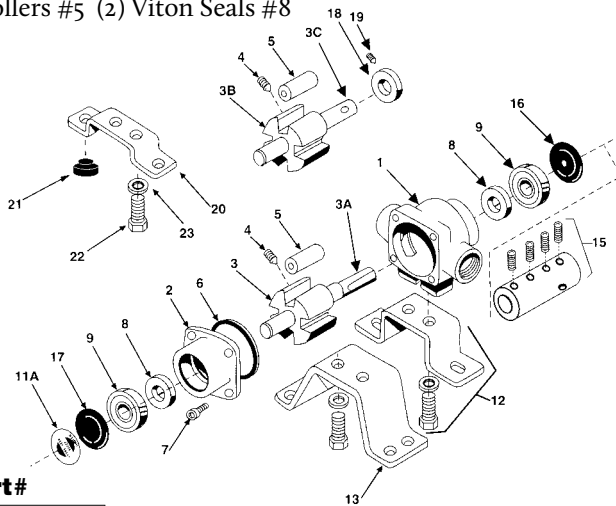
Part#

4101N-AEH

Repair Kit

Kit Includes: (1) O-Ring #6

(4) Rollers #5 (2) Viton Seals #8



Part#

3430-0158

Common Repair Parts

Body with Standard Seal

	Qty. No.	Part No.	Fits Pump
1	1	0100-4001C	(Cast Iron) (400I)
	1	0100-4101C	(Cast Iron) (410I)
	1	0100-4001N	(Ni-Resist) (400I)
	1	0100-4101N	(Ni-Resist) (410I)
	1	0100-4001X	(Silver Cast) (400I)
	1	0100-4101X	(Silver Cast) (410I)

Rotor and Shaft Assembly

3	1	0300-4001C	(Cast Iron) (400I)
	1	0300-4101C	(Cast Iron) (410I)
	1	0300-4001N	(Ni-Resist) (400I)
	1	0300-4101N	(Ni-Resist) (410I)
	1	0300-4001X	(Silver Cast) (400I)
	1	0300-4101X	(Silver Cast) (410I)

Rotor and Shaft Assembly

3B	1	0301-4001N	(Ni-Resist) (400I)
	1	0301-4101N	(Ni-Resist) (410I)
	1	0301-4001X	(Silver Cast) (400I)
	1	0301-4101X	(Silver Cast) (410I)

Shaft Only

3A	1	0500-6600	All
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Shaft Only

3C	1	0550-4001	All
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Rotor Set Screw

4	1	2230-0002	All except Silver Cast
	1	2230-0016	Silver Cast Only

Rollers

5	4	1005-0002	Super Rollers (Standard)
	4	1001-0002	Buna-N (Optional)

O-Ring Gasket for Endplate

6	1	1720-0104	All
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Seal

8	2	2107-0002	Viton (Standard)
	2	2102-0001	Buna-N (Optional)

Ball Bearing

9	2	2000-0010	All
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Adapter with 4 Set Screws

15	1	1320-0016	5/8" x 5/8" (gas engine)
	1	1320-0015	5/8" x 3/4"

Parts Below for All 4000 Series Pumps

(Ref. No. 16)	1	2300-0023	Shaft Bearing Cover
(Ref. No. 17)	1	2300-0021	Bearing Cover
(Ref. No. 18)	1	1420-0001	Locking Collar
(Ref. No. 19)	1	2230-0001	Set Screw
(Ref. No. 20)	1	1510-0054	Base
(Ref. No. 21)	2	1450-0003	Bumper
(Ref. No. 22)	2	2210-0003	Bolt
(Ref. No. 23)	2	2260-0002	Lock Washer

HYPRO 6500 ROLLER PUMP

6500 Series - 6 Roller

- 1" hose barb inlet fitting for 1000 RPM operation
- Rollers: Super Rollers standard (Poly & Teflon)
- Shaft seals: Viton standard
- Max. fluid temperature: 140°F/60°C
- Shaft rotation: Counter clockwise when looking at the shaft end (clockwise available)
- Port size: 3/4" NPT
- Max. flow:
 - 9.7 GPM at 540 RPM
 - 18.2 GPM at 1000 RPM
- Max. pressure: 300 PSI
- Max. speed: 1200 RPM
- Shaft size: 5/8" solid
- Weight: 9 lbs.

Part#	Description
6500C	Cast Iron Housing
6500C-R	Reverse Rotation
6500N	Ni-Resist
6500XL	Silvercast



Multispeed PTO Coupling

For 540 RPM, 1,000 RPM



Part#

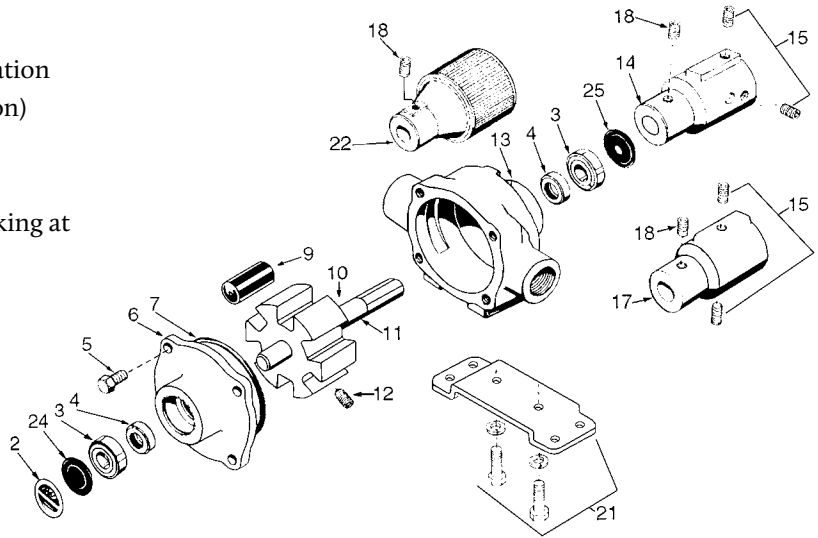
1323-0077

Repair Kit

Includes: (6) rollers #9,
(1) O-Ring #7, (2) Viton seals #4

Part#

3430-0380



Common Repair Parts

Ball Bearing

Qty.	Part No.	Fits Pump
2	2000-0010	All

Seal

Qty.	Part No.	Fits Pump
2	2107-0002	Viton (Standard)
2	2102-0001	Buna-N (Optional)
2	2103-0001	Leather (Optional)

Endplate Bolt

Qty.	Part No.	Fits Pump
4	2210-0004	All

End Plate with Standard Seal

Qty.	Part No.	Fits Pump
1	0200-6600C	(Cast Iron) (6500C)
1	0200-6600N	(Ni-Resist) (6500N)
1	0200-6600X	(Silver Cast) (6500X)

O-Ring Gasket for Endplate

Qty.	Part No.	Fits Pump
1	1720-0008	All

Rollers

Qty.	Part No.	Fits Pump
6	1005-0004	Super Rollers (Standard)
6	1002-0004	Polypropylene (Optional)
6	1052-0004	Buna-N (Optional)
6	1055-0004	Teflon (Optional)

Rotor and Shaft Assembly

Qty.	Part No.	Fits Pump
1	0300-6600C	(Cast Iron) (6500C)
1	0300-6600N	(Ni-Resist) (6500N)
1	0300-6600X	(Silver Cast) (6500X)

Shaft Only

Qty.	Part No.	Fits Pump
1	0500-6600	All

Rotor Set Screw

Qty.	Part No.	Fits Pump
1	2230-0003	All except Silver Cast
1	2230-0007	Silver Cast only

Body with Standard Seal

Qty.	Part No.	Fits Pump
1	0100-6600C	(Cast Iron) (6500C)
1	0100-6600N	(Ni-Resist) (6500N)
1	0100-6600X	(Silver Cast) (6500X)

Bearing Cover

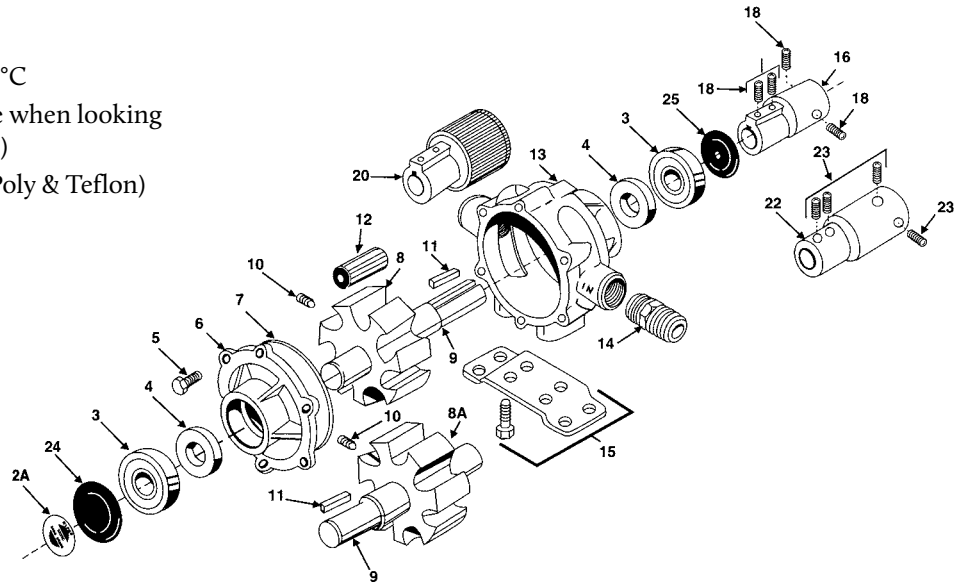
Qty.	Part No.	Fits Pump
1	2300-0021	All

Shaft Bearing Cover

Qty.	Part No.	Fits Pump
1	2300-0023	All

7700 Series - 7 Roller

- Max. fluid temperature: 140°F/60°C
- Shaft rotation: Counter clockwise when looking at the shaft end (clockwise available)
- Rollers: Super Rollers standard (Poly & Teflon)
- Shaft seals: Viton standard
- Port size: ¾" NPT
- Max. flow:
 - 14.2 GPM at 540 RPM
 - 22.1 GPM at 800 RPM
- Max. pressure: 200 PSI
- Max. speed: 800 RPM
- Shaft size: 15/16" solid
- Weight 14 lbs



Part #	Description
7700C	Cast Iron Housing
7700N	Ni-Resist
7700XL	Silvercast



Multispeed PTO Coupling

Part#
1323-0076



Repair Kit

Kit Includes: (1) O-Ring #7
(7) rollers #12 (2) Viton Seals #4

Part#
3430-0381

Common Repair Parts

Ball Bearing

Qty.	Part No.	Fits Pump
2	2008-0001	All

Seal

Qty.	Part No.	Fits Pump
2	2112-0003	Viton (Standard)
2	2112-0001	Buna-N (Optional)
2	2103-0002	Leather (Optional)

O-Ring Gasket for Endplate

Qty.	Part No.	Fits Pump
1	1720-0014	All

Rotor and Shaft Assembly

Qty.	Part No.	Fits Pump
1	0301-7700C	(Cast Iron) CCW rotation
1	0301-7700N	(Ni-Resist) CCW rotation
1	0301-7700X	(Silver Cast) CCW rotation

Qty.	Part No.	Fits Pump
1	0301-7700C	(Cast Iron) CW rotation
1	0301-7700N	(Ni-Resist) CW rotation
1	0301-7700X	(Silver Cast) CW rotation

Shaft Only

Qty.	Part No.	Fits Pump
1	0500-7400	All

Rotor Set Screw

Qty.	Part No.	Fits Pump
1	2230-0003	All except Silver Cast
1	2230-0007	Silver Cast only

Key

Qty.	Part No.	Fits Pump
1	1610-0005	All

Rollers

Qty.	Part No.	Fits Pump
7	1005-0004	Super Rollers (Standard)
7	1052-0004	Buna-N (Optional)

Body with Standard Seal

Qty.	Part No.	Fits Pump
1	0100-7700C	(Cast Iron)
1	0100-7700N	(Ni-Resist)
1	0100-7700X	(Silver Cast)

Bearing Cover

Qty.	Part No.	Fits Pump
1	2300-0020	All

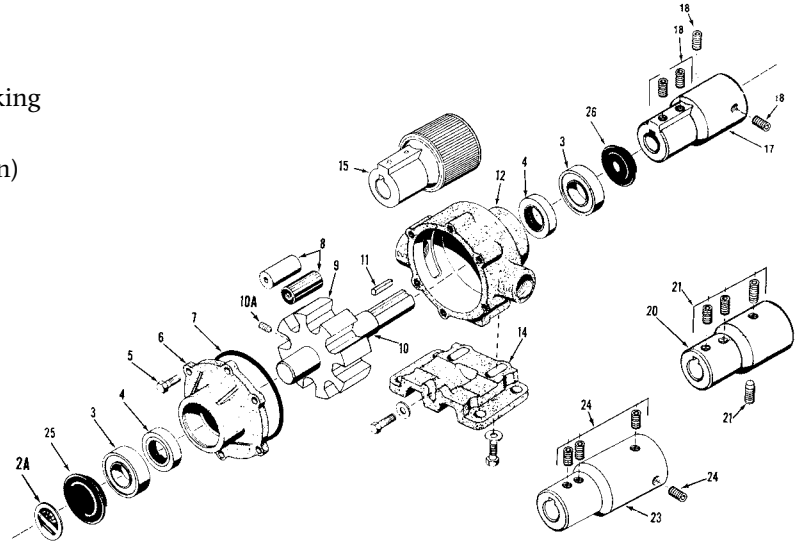
Shaft Bearing Cover

Qty.	Part No.	Fits Pump
1	2300-0022	All

HYPRO 7560 ROLLER PUMP

7560 Series - 8 Roller

- Shaft rotation: Counter clockwise when looking at the shaft end (clockwise available)
- Rollers: Super Rollers standard (Poly & Teflon)
- Max. Flow:
 - 12 GPM at 540 RPM
 - 22.5 GPM at 1000 RPM
- Max. pressure: 300 PSI
- Max. speed: 1000 RPM
- Shaft size: 15/16" solid
- Port size: 3/4" NPT
- Max. fluid temperature: 140° F
- Weight 13 lbs: 5.89 kg
- Shaft seals: Viton standard



Part#	Description
7560C	Cast Iron Housing
7560C-R	Reverse Rotation
7560N	Ni-Resist
7560XL	Silvercast



Multispeed PTO Coupling

For 540 RPM, 1,000 RPM

Part#

1323-0076

Repair Kit

Kit Includes: (1) O-Ring #7
(8) rollers #8 (2) Viton Seals #4

Part#

3430-0381

Common Repair Parts

Ball Bearing

	Qty. No.	Part No.	Fits Pump
3	2	2008-0001	All

Seal

	Qty. No.	Part No.	Fits Pump
4	2	2112-0003	Viton (Standard)
	2	2112-0001	Buna-N (Optional)
	2	2103-0002	Leather (Optional)

O-Ring Gasket for Endplate

	Qty. No.	Part No.	Fits Pump
7	1	1720-0014	All

Rollers

	Qty. No.	Part No.	Fits Pump
8	8	1005-0004	Super Rollers (Standard)
	8	1052-0004	Buna-N (Optional)

Rotor and Shaft Assembly

	Qty. No.	Part No.	Fits Pump
9	1	0308-7560C	(Cast Iron)
	1	0308-7560N	(Ni-Resist)
	1	0308-7560X	(Silver Cast)

Shaft Only

	Qty. No.	Part No.	Fits Pump
10	1	0500-7400	All

Rotor Set Screw

	Qty. No.	Part No.	Fits Pump
10A	1	2230-0003	All except Silver Cast
	1	2230-0007	Silver Cast only

Key

	Qty. No.	Part No.	Fits Pump
11	1	1610-0005	All

Body with Standard Seal

	Qty. No.	Part No.	Fits Pump
12	1	0104-7500C	(Cast Iron)
	1	0104-7500N	(Ni-Resist)
	1	0104-7500X	(Silver Cast)

Bearing Cover

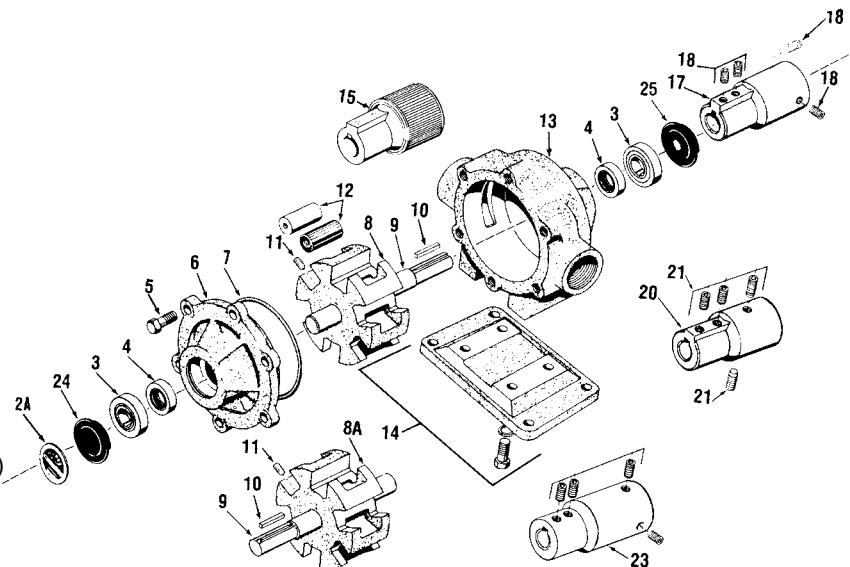
	Qty. No.	Part No.	Fits Pump
25	1	2300-0020	All

Shaft Bearing Cover

	Qty. No.	Part No.	Fits Pump
26	1	2300-0022	All

1502 Series - 6 Roller

- Max. flow:
33.1 GPM at 540 RPM
62.1 GPM at 1000 RPM
- Max. pressure: 150 PSI
- Max. speed: 1000 RPM
- Shaft size: 15/16" solid
- Port size: 1 1/2" NPT
- Max. fluid temperature: 140° F
- Cast Iron, Ni-Resist or Silver Series housing available
- Pump shaft rotation: CCW (CW available)
- Weight 30 lbs.; 13.6 kg
- Rollers: Super Rollers standard (Poly, Teflon available)
- Shaft seals: Buna-N standard (Viton, leather available)



Part#	Description
1502C	Cast Iron Housing



Multispeed PTO Coupling

For 540 RPM, 1,000 RPM

Part#
1323-0076

Repair Kit

Kit Includes: (1) O-Ring #7
(6) Super rollers #12 (2) Viton Seals

Part#
3430-0383

Common Repair Parts

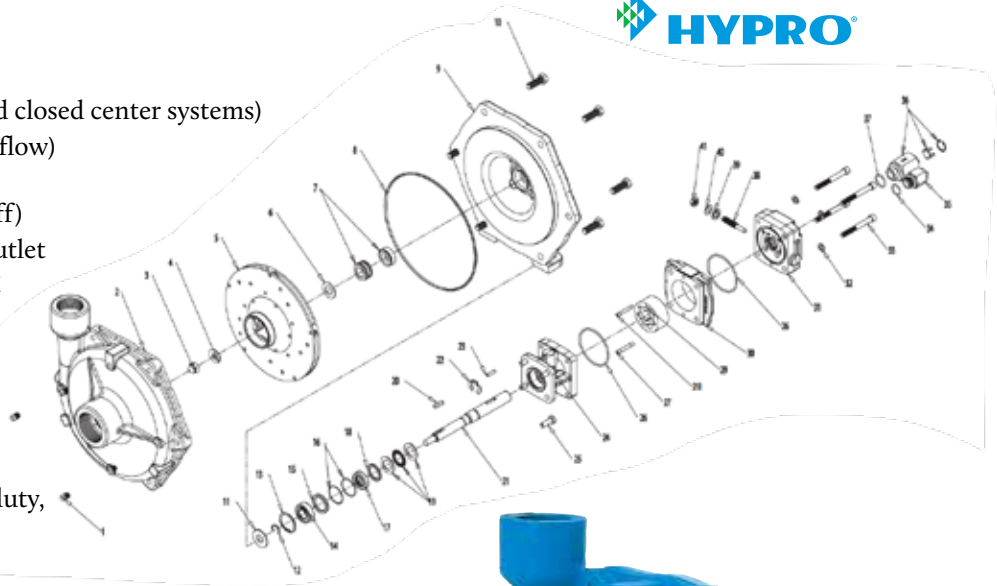
Ball Bearing			
	Qty.	Part No.	Fits Pump
3	2	2008-0001	All
Seal			
4	2	2112-0003	Viton (Optional)
	2	2112-0001	Buna-N (Standard)
	2	2103-0002	Leather (Optional)
O-Ring Gasket for Endplate			
7	1	1720-0003	All
Rotor and Shaft Assembly			
8	1	0300-1502C	(Cast Iron) CCW
	1	0300-1502N	(Ni-Resist) CCW
	1	0300-1502X	(Silver Cast) CCW
8A	1	0301-1502C	(Cast Iron) CW
	1	0301-1502N	(Ni-Resist) CW
	1	0301-1502X	(Silver Cast) CW
Shaft Only			
9	1	0500-1502	All
Key			
10	1	1610-0005	All
Rotor Set Screw			
11	1	2230-0018	All except Silver Cast
	1	2230-0034	Silver Cast only
Rollers			
12	6	1005-0005	Super Rollers (Standard)
	6	1002-0005	Polypropylene (Optional)
Body with Standard Seal			
13	1	0100-1500C	(Cast Iron)
	1	0100-1500N	(Ni-Resist)
	1	0100-1500X	(Silver Cast)
Bearing Cover			
24	1	2300-0020	All
Shaft Bearing Cover			
25	1	2300-0022	All

HYPRO CENTRIFUGAL HYD. DRIVEN PUMP



9305 Series

- Hydraulic motor drive (for open and closed center systems)
- Max. flow: 190 GPM/719 LPM (free flow)
- Max. pressure: 180 PSI/12.4 BAR (in closed center operation) (Shut off)
- Port sizes: 2" NPT inlet, 1½" NPT outlet
- Max. fluid temperature: 140°F/60°C
- Housing: cast iron
- Impeller: glass-filled nylon
- Motor: internal gear gerotor
- Hydraulic ports: ½" NPT
- Motor capacity: 20 GPM/75.7 lpm
- Max. motor PSI: 2000 continuous duty, 2200 intermittent duty
- Weight: 48 lbs./21.8 kg
- Centrifugal shaft seals: Viton/ceramic are standard
- Hydraulic motor seal: double-lip Teflon



Part#	Description
9305C-HM3C	2"x1½", 20 GPM

Repair Kits

Part#	Description
3430-0748	Hyd. Pump Seal Repair Kit
3430-0500	Repair Kit
0403-9200P1	Impeller

3430-0748 Hydraulic Motor Repair Kit. Contains: One each ball bearing (Ref. 14), motor shaft seal (Ref. 17), thread seal gasket (Ref. 39), two cartridge o-rings (Ref.16), and washer (Ref 40); two each motor housing o-rings (Ref. 26), and port adapter o-rings (Ref. 34 & 37).

3430-0500 Repair Kit Contains One o-ring (Ref. 8), one rubber gasket (Ref. 6), one mechanical seal (Ref. 7).

9306S Series

High performance and high efficiency centrifugal pumps

- Designed for high efficiency, resulting in higher flow at working pressure
- The Life Guard silicon carbide seal comes standard in all 316 stainless steel models and is available as an option in cast iron models
- Available with universal flanged ports (300 x 220 or 220 x 220) for quicker installation and serviceability

9306S-HM5 is hydraulic driven for open/closed systems. 2" x 1½" Max 212 GPM.



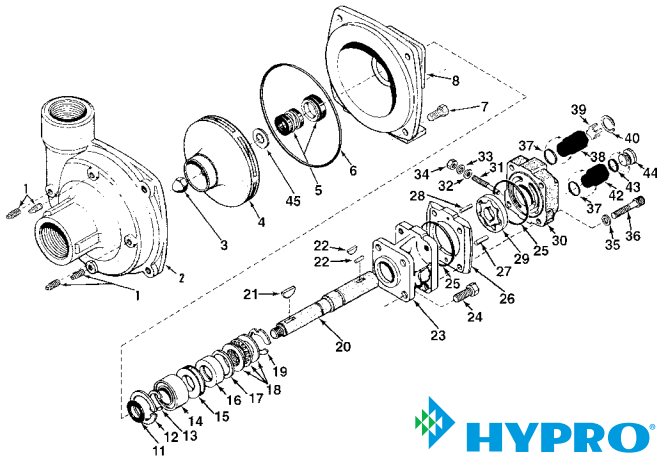
Part#	Description
9306S-HM5C	2" x 1½", Stainless Steel pump with Hydraulic motor
9306S-HM5C-3U	300x220 Flg, Stainless Steel pump with Hydraulic motor

Repair Kits

Part#	Description
3430-0748	Pump Repair Kit
3430-0589	Seal Kit
0405-9200P2	Impeller

9306C Series & 9304C (Discontinued) Series

- Hydraulic motor drive (for open or closed center systems)
- Centrifugal Shaft Seals: Viton/Ceramic standard
- Max. pressure: 130 PSI, 180 PSI (in closed center operation)
- Port size: 2" NPT inlet, 1½" NPT outlet
- Hydraulic ports: ½" NPT
- Weight 21 lbs: 9.52 kg
- Max. fluid temperature: 140° F
- Max. flow: 82 -190 GPM
- Cast Iron housing
- Hydraulic motor: Internal gear gerotor
- Hydraulic motor seal: double lip Teflon



Part#	Desc.
9306C-HM1C-B	2" x 1½", Silicon carbide seal, 13 GPM
9306C-HM1C-U	220 x 200 Flanges
9306C-HM3C	2" x 1½", 24 GPM
9306C-HM3C-BU	2" x 1½", 24 GPM motor, silicon carbide seal, 220x200 flgs
9306C-HM5C	2" x 1½", 17 GPM motor
9306C-HM5C-B	2" x 1½", Silicon carbide seal, 17 GPM
9306C-HM5C-BU	220 x 200 flgs, silicon carbide seal, 17 GPM
9306C-HM5C-B3U	300 x 220 flgs, 17 GPM motor

Common Repair Parts

Item No.	Qty. No.	Part No.	Fits Pump
Pump Casing (Volute)			
2	1	0151-9200C	All
Impeller Nut			
3	1	2253-0002	All
Impeller			
4	1	0401-9200C	Cast Iron
Mechanical Seal			
5	1	2120-0009	Viton, (standard)
Body O-Ring			
6	1	1720-0083	All
Mounting Flange			
8	1	0750-9300C	All
Slinger Ring			
11	1	1410-0056	All
Retaining Ring			
12	1	1820-0013	All
Snap Ring			
13	1	1810-0014	All
Ball Bearing			
14	7	2001-0010	All
Spacer			
15	1	1410-0074	All
Shaft Seal			
16	1	2104-0005	All
Seal Spacer			
17	1	1410-0074	All
Thrust Bearing Assembly			
18	1	2029-0014	All
Snap Ring			
19	1	1810-0026	All
Shaft			
20	1	0511-2500	HM2 and HM4
Roll Pin			
22	1	1610-0031	HM2 and HM4
Front Motor Body with Main Bearing			
1	0151-2500C	All	
Hydraulic Motor Complete			
1	2500-0011C	HM3C	
1	2500-0018C	HM5	

Repair Kits

Centrifugal Pump

(I) O-ring #6, Mechanical seal #5, Rubber gasket #45

Part#

3430-0332

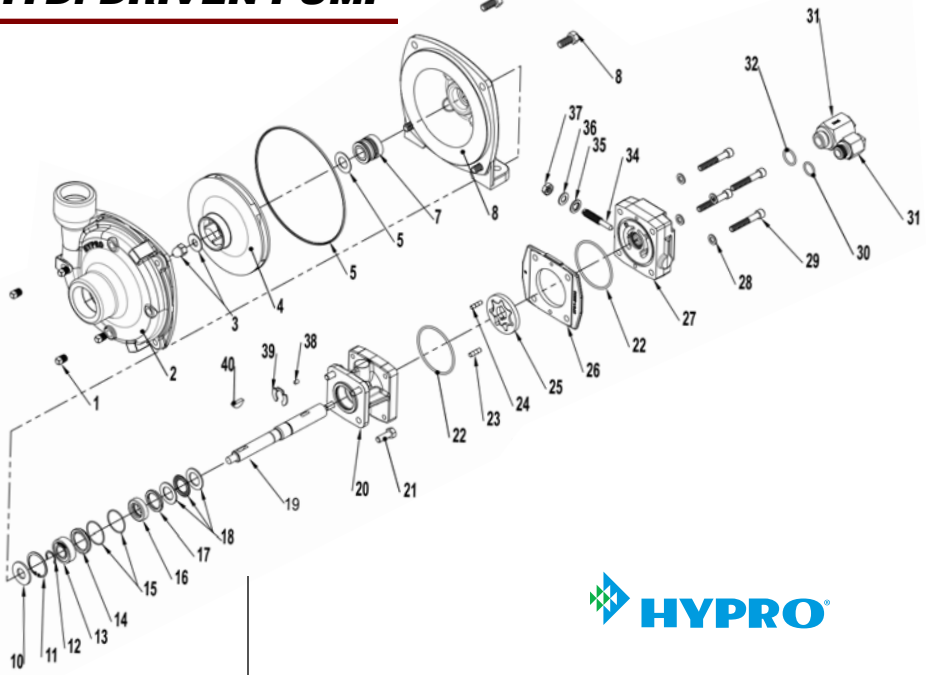
Hydraulic Motor

(I) Ball bearing #14, Motor shaft seal #6, Rubber gasket #45

Part#

3430-0748

HYPRO CENTRIFUGAL HYD. DRIVEN PUMP



9303C Series Hydraulic Driven

- Hydraulic motor drive (for open or closed center systems)
- Max. flow: 82-190 GPM
- Max. pressure: 130 PSI, 180 PSI (in closed center operation)
- Port size: 9303C, 1½" NPT inlet, 1¼" NPT outlet
- Impeller: glass filled nylon
- Max. fluid temperature: 140° F
- Cast Iron housing
- Weight 21 lbs: 9.52 kg
- Centrifugal Shaft Seals: Viton/ceramic standard
- Hydraulic motor: Internal gear gerotor
- Hydraulic ports: ½" NPT
- Hydraulic motor seal: double lip Teflon



Part#	Description
9303C-HM1C	1½" x 1¼", 12 GPM
9303C-HM1C-B	^ Same w/ Silicon carbide seal
9303C-HM1C-BU	^ Same with 220 x 200 Flg
9303C-HM4C	1½" x 1¼", 7 GPM
9303C-HM4C-B	^ Same w/ silicon carbide seal
9306C-HM5C	1½" x 1¼", 17 GPM

Repair Parts Kit:
3430-0332
 (1) Mechanical seal #7
 (1) O-ring #5
 (1) Rubber Gasket #6

Silicone Carbide Seal Kit:
3430-0589
 (1) Silicon Seal #7
 (1) O-ring #5

Hydraulic Motor Kit:
3430-0748
 (1) Ball bearing #13,
 (2) O-rings #15
 (1) Motor shaft seal #16
 (1) Gasket #35
 (1) Washer #36
 (2) O-rings #22
 (2) O-rings #30 & 32

Part#
3430-0332
3430-0589
3430-0748

Common Repair Parts

	Qty. No.	Part No.	Fits Pump
②		0150-9000C	All
		0153-9000C	All
③	1	2253-0002	All
④		0401-9100P	Nylon, (standard)
		0402-9100P	Polypropylene (optional)
⑤	1	1720-0083	All
⑥	1	1700-0100	All
⑦		2120-0009	Viton/Ceramic, (std)
		3430-0589	Silicon Carbide
⑧	1	0750-9300C	All
⑩	1	1410-0056	All
⑪	1	1810-0014	All
⑫	1	1820-0013	All
⑬	1	2000-0010	All
⑭	1	11410-0131	All
⑲		3430-0850	HM2 & HM4
		3430-0852	HM1 & HM5
		3430-0855	HM3

Repair Parts Kit 3430-0332
Silicone Carbide Seal Kit 3430-0589

Motor	Size
HM1C	1/2"
HM3C	1"
HM4C	5/16"
HM5C	5/8"



HYPRO® FORCEFIELD® SUPERIOR WET SEAL PROTECTION

for Today's Most Demanding Spraying Conditions

HYPRO® 9310 Series ForceField®
Centrifugal Pumps Superior Wet Seal Protection



Part#	Description
9313CU-M08	Cast Iron 220 x 200 Flanged 188 Max GPM

Available in Cast Iron or Stainless Steel with Manifold Flanges or NPT

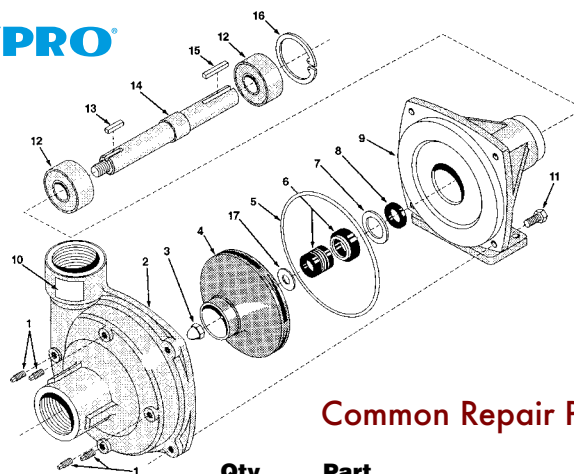


FORCEFIELD FEATURES AND BENEFITS

- ForceField Technology is a superior wet seal technology that provides the ultimate protection for the mechanical seal and avoids costly downtime
- Protects the mechanical seal against common failures related to dry run and chemical bonding by using a barrier fluid to keep it cool and lubricated
- Actively maintains a pressure differential between the barrier fluid and the pumping solution, which results in longer life and worry free operation
- Designed to be a drop-in replacement for standard Hypro hydraulically driven centrifugal pumps, call for complete details.

9202C & 9203C Series

- Port size: 9202C, 1/4" NPT inlet, 1" NPT outlet
- Port size: 9203C, 1 1/2" NPT inlet, 1 1/4" NPT outlet
- Pedestal mount, direct drive
- Max. flow: 103-140 GPM
- Max. pressure: 170 PSI
- Max. speed: 6000 RPM
- Solid 5/8" Shaft
- Impeller: glass filled nylon
- Max. fluid temperature: 140° F
- Housing cast iron
- Pump shaft rotation: CCW or CW
- Weight 15.5 lbs: 7.03 kg
- Shaft seals: Viton standard



Common Repair Parts

	Qty. No.	Part No.	Fits Pump
③	1	2253-0002	All
④	1	0401-9100P	Nylon, (standard)
	1	0402-9100P	Polypropylene (optional)
⑤	1	1720-0083	All
⑥	1	2120-0009	Viton, (standard)
⑦	1	1830-0040	All
⑧	1	1410-0056	All
⑫	7	2000-0010	All
⑬	1	1610-0015	All
⑭	1	0501-9200	All
⑮	1	1610-0004	All
⑯	1	1820-0013	All
⑰	1	1700-0100	All

Part#

9202C
9203C
9203C-R



Accessories

Part#	Description
MCH2	Heavy duty clutch
MCH2-CW	^ Same, with clockwise rotation

ACE CENTRIFUGAL PUMP

Hydraulic Driven

- Hydraulic motor drive (for open or closed center systems)
- Max flow: 60 GPM (310), 75 GPM (204-210)
- Max pressure: 60 PSI (310), 100 PSI (204-210)
- Port size: 1¼" NPT inlet, 1" NPT outlet
- Impeller: Valox, cast iron (optional)
- Cast Iron housing
- Viton mechanical seal
- Hydraulic motor: gear type
- Hydraulic ports: 3/8" NPT (204-210) - 1/2" NPT (310)

204 Motor - Requires 4 GPM hydraulic fluid input

Recommended for:

- John Deere type pressure compensating closed center systems
- Open center systems with capacities from 4 to 13 gpm

Part#

FMC-HYD-204

210 Motor - Requires 8 GPM hydraulic fluid input

Recommended for:

- Case IH type load sensing closed center systems.
- Open center systems with capacities from 8 to 17 gpm

Part#

FMC-HYD-210

310 Motor - Requires 16 GPM hydraulic fluid input

Recommended for: large open center systems with capacities from 16 to 24 gpm

Part#

FMC-HYD-310

Part#	Description
FMC-HYD-LM	Pump Less motor

Repair Kit

Centrifugal Pump:

(1) Mechanical seal #3, (1) Hydraulic motor O-ring (not shown), (1) 4 hole gasket #1

Part#

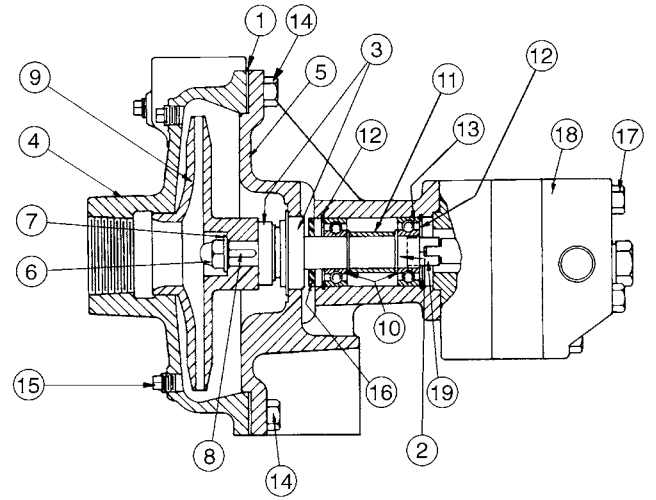
RK-FMC

Hydraulic Motor:

All seals and O-rings

Part#

RK-BAC-75-HYD-L



Common Repair Parts

Casing gasket

	Qty. No.	Part No.	Fits Pump
1	1	BAC-4	All
	1	BAC-4A O-ring	All

Driven shaft with tang slot

2	1	BAC-6-HYD-SS	Stainless Steel
---	---	--------------	-----------------

Viton mechanical seal

3	1	BAC-7-V	All
	1	BAC-7-SC Silicone	All

Volute 1¼" x 1"

4	1	BAC-12	All
---	---	--------	-----

Stainless steel hex nut

6	1	BACH-23-SS	All
---	---	------------	-----

Stainless steel lock washer

7	1	BAC-24-HYD-SS	All
---	---	---------------	-----

Impeller key

8	1	BACH-25	All
---	---	---------	-----

Impeller with keyway

9	1	BAC-26-HYD	All with valox
	1	BAC-26-HYD-CI	All with cast iron

External snap ring

10	2	BAC-32	All
----	---	--------	-----

Spacer

11	1	BAC-32S	All
----	---	---------	-----

Internal snap ring

12	1	BAC-33	All
----	---	--------	-----

Sealed ball bearing

13	7	BAC-37	All
----	---	--------	-----

Slinger

16	1	BAC-54	All
----	---	--------	-----

Hydraulic motor complete

1	BAC-75-HYD-204N	FMC-HYD-204
1	BAC-75-HYD-206N	FMC-HYD-206
1	BAC-75-HYD-210N	FMC-HYD-210
1	BAC-75-HYD-310N	FMC-HYD-310



Hydraulic Driven

- Hydraulic motor drive (for open or closed center systems)
- Max. flow: 100 GPM
- Max. pressure: 120 PSI
- Port size: 1½" NPT inlet, 1¼" NPT outlet
- Impeller: cast iron
- Housing: cast iron
- Hydraulic motor: gear type
- Hydraulic motor capacities: 7 GPM
- Viton mechanical seal

206 Motor

Requires 7 GPM hydraulic fluid input

Recommended for:

- John Deere type pressure compensating closed center systems
- Case IH type load sensing closed center systems
- Open center systems with capacities from 7 to 16 GPM

* Note: Consult the Tractor Hydraulic System Pump selection guide for correct pump.

Part#	Description
FMC-150-HYD-206	1½" x 1¼" pump with motor
FMC-150HYD-LM	1½" x 1¼" pump, Less motor

Repair Kit

Centrifugal Pump: (1) Hydraulic motor O-ring
(1) Mechanical seal #3 (1) Volute O-ring #1

Part#

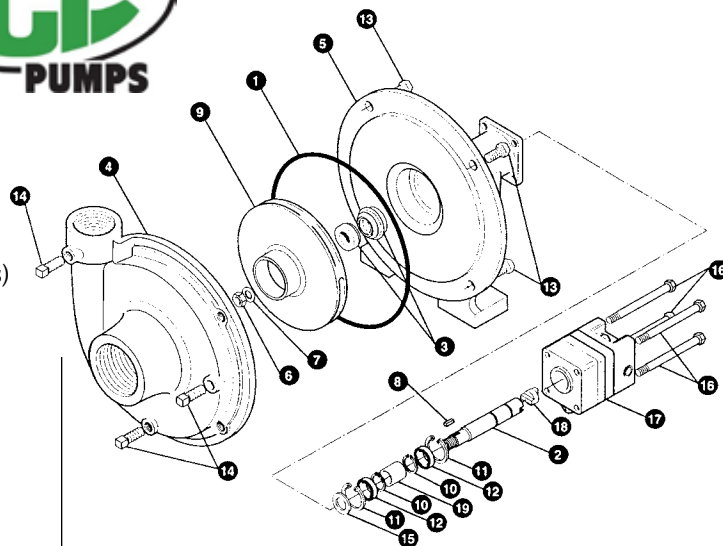
RK-FMC-150

Hydraulic Motor:

All seals and O-rings

Part#

RK-BAC-75-HYD-L



Common Repair Parts

Volute O-ring

Qty. No.	Part No.	Fits Pump
1	BAC-4-150	All

Driven shaft with tang slot

1	BAC-6-HYD-SS	Stainless Steel
---	--------------	-----------------

Viton mechanical seal

1	BAC-7-V (Viton Seal)	All
	BAC-7SC (Silicone Seal)	

Volute 1½" x 1¼"

1	BAC-12-150	All
---	------------	-----

Stainless steel hex nut

1	BACH-23-SS	All
---	------------	-----

Stainless steel lock washer

1	BAC-24-HYD-SS	All
---	---------------	-----

Impeller key

1	BACH-25	All
---	---------	-----

Impeller with keyway

1	BAC-26-150	All
---	------------	-----

External snap ring

2	BAC-32	All
---	--------	-----

Internal snap ring

1	BAC-33	All
---	--------	-----

Sealed ball bearing

7	BAC-37	All
---	--------	-----

Slinger

1	BAC-54	All
---	--------	-----

Hydraulic Coupling

1	BAC-76-HYD-206	All
---	----------------	-----

Hydraulic motor complete

1	BAC-75-HYD-206	All
---	----------------	-----

ACE CENTRIFUGAL PUMPS

PTO Belt Driven Centrifugal Pump

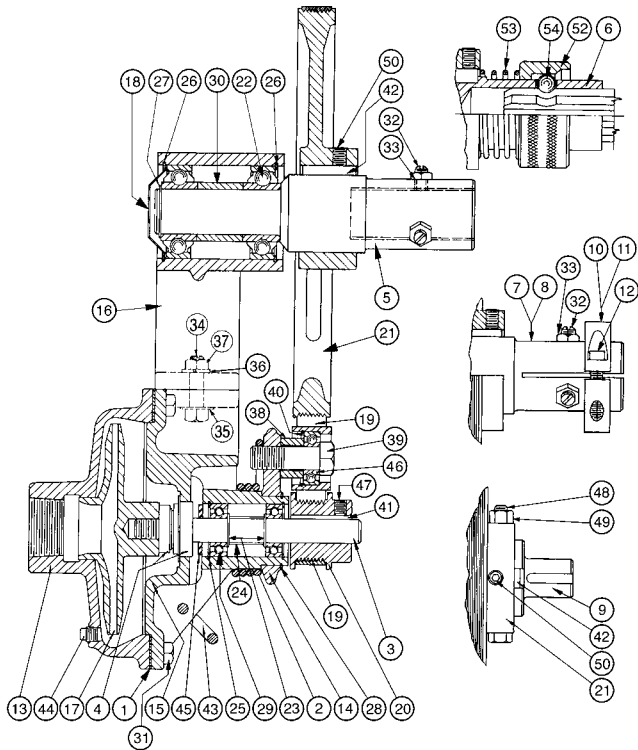
PTO belt driven centrifugal pumps were first introduced by Ace in 1964 and enabled the applicator to mount centrifugal pumps directly on 540 RPM and 1000 RPM tractor PTO shafts. The simple yet durable design of the PTOC pump has withstood the test of time while many attempts at imitation have come and gone. The key to the success of the Ace belt driven pumps has been the Spring Loaded Idler. The idler maintains proper belt tension which minimizes the load on the pump bearings. More importantly, the idler helps absorb the shock of PTO engagement that can destroy cog belts or gears.



Part#

PTOC-600-QC

PTOC-1000-21SP



Common Repair Parts

	Qty. No.	Part No.	Fits Pump
Gasket, 4 Hole			
①	1	BAC-4	All
5/8" Driven shaft, left hand thread			
③	1	BAC-6	All
	1	BAC-6-SS	Stainless steel (optional)
Mechanical Seal			
④	1	BAC-7-V	Viton
Volute 1 1/4" x 1"			
⑬	1	BAC-12	All
Idler Arm			
⑭	1	BAC-13	All
Impeller			
⑰	1	BAC-26	Valox, left hand
	1	BAC-26-CI	cast iron, left hand (opt.)
Poly-V-Belt			
⑲	1	BAC-28-8M	8 groove (PTOC-600)
	1	BAC-28-10M	10 groove (PTOC-1000)
Obsolete Poly-V-Belt			
	1	BAC-28-8	8 groove (PTOC-600)
	1	BAC-28-10	10 groove (PTOC-1000)
Sealed Ball Bearing, BAC-10 Drive Shaft			
⑳	2	BAC-31	All
External Snap Ring			
㉓	2	BAC-32	All
Spacer			
㉔	1	BAC-32-S	All
Sealed Ball Bearing, BAC-6 Drive Shaft			
㉙	2	BAC-37	All
Slinger			
㉕	1	BAC-54	All
Idler Bearing and Outer Roller Assembly			
㉖	1	BAC-55	All

Heavy Duty Ace SPRA-COUPÉ Pump



- Heavy duty 204 Bearings for 66% better bearing load
- Ultra-Durable double bearing clutch
- Optional severe duty silicon carbide seal

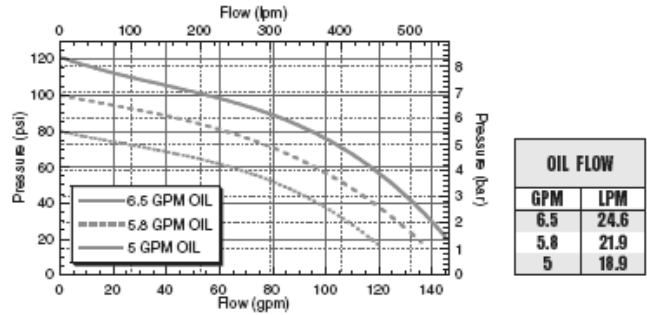
Part#

FMC-CW-150-MAG-DX3

150 Series High Performance Flanged Pump

FEATURES:

- F model equipped with NPT ports and industry standard flanged connections.
- FS model constructed of 316 stainless steel with NPT ports and flanged connections
- SP model is self priming making it perfect for loading and also spraying applications.
- Provides higher pressure and greater volume for applications with large tanks and longer spray booms.
- The 206 motor requires 7 GPM maximum hydraulic fluid input and fits virtually all tractor hydraulic systems



Recommended for:

- Pressure compensating closed center systems
- Load sensing closed center systems
- Open center systems up to 16 GPM using internal needle valve bypass

Part#	Description
FMC-150F-HYD-206	1½" or 220 Flange Inlet 1¼" or 200 Flange Outlet
FMC-150FS-HYD-206	New Stainless Steel Pump



Ace 200 Series High Flow Centrifugal Pump

FEATURES:

- Threaded model is 2" Inlet and 1½" outlet.
- Flanged Model is 300 flange suction and 220 flange outlet
- Ideal for spraying, large tank agitation and liquid transfer
- Available with 210, 304 & 310 series hydraulic motors

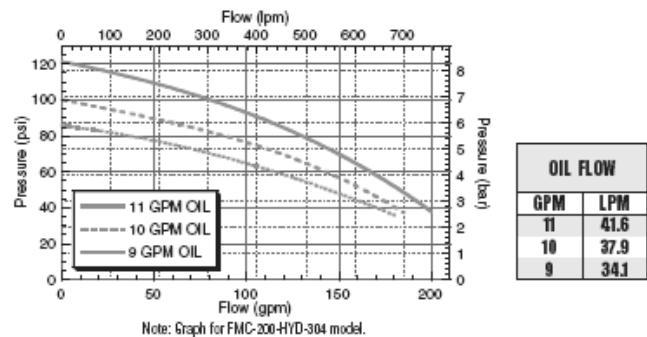
210 Motor requires 10 GPM maximum hydraulic fluid input and is recommended for:

- Pressure Compensating closed center systems
- Load sensing closed center systems
- Open center systems up to 17 GPM using internal needle valve bypass

304 Motor requires 11 GPM maximum hydraulic fluid input and is recommended for:

- Pressure Compensating closed center systems
- Load sensing closed center systems
- Open center systems up to 20gpm using internal needle valve bypass

310 Motor requires 16 GPM maximum hydraulic fluid input and is recommended for large open center systems up to 24gpm using internal needle valve bypass



Part#
FMC-200-HYD-304



BANJO TRANSFER PUMPS



Poly Gas Driven-Pumps

- New design incorporates space between pump and engine for protection
- V-shaped for quicker priming



Part#	Size	Engine
200-P3	2"	6hp LCT
200-PH5	2"	5.5hp Honda
200-P6PRO	2"	6.5hp Intek
300-PH6	3"	6.5hp Honda

Poly Gas Driven 2" Wet Seal Pump

This 2" Banjo Poly Pump and Engine Combination has a double seal contained in ethylene glycol reservoir.

The pump end is separated from the engine and the pump is "V" shaped for quicker priming.



Part#	Description
200P6PROW	6.5hp Briggs Pro Engine
200-PH5W	5.5hp, Honda

Poly Gas Driven-3" Wet Seal Pump

This 3" Banjo Poly Pump and Engine Combination has a double seal contained in ethylene glycol reservoir. The pump end is separated from the engine and the pump is "V" shaped for quicker priming.



Part#	Description
300P11PROW	11hp Briggs PRO Engine
300PH11W	11hp Honda

Poly Gas Driven -2" Manifold Flange Pump

- Lightweight
- Low maintenance
- Corrosion resistant



Part#	Description
M220P6PRO	6.5 HP Briggs & Stratton Pro Series
M220PH5	5.5hp Honda Engine

LoveJoy Couplings

Part#	Description
L095-3/4x11/8	3/4" x 1 1/8"
L095S	Spider

(Other sizes available)



Cast Iron Gas Driven-

- Viton seals
- Stainless steel shaft sleeve



Part#	Size	Engine
200-PI6PRO	2"	6.5hp Briggs
200-PIH5	2"	5.5hp Honda
300-PIH13	3"	13hp Honda*
300P11PRO	3"	11hp Briggs

* electric start

Cast Iron Gas Driven Wet Seal



Part#	Size	Engine
201-PI6PROW	2"	6.5hp Briggs
201-PIH-5W	2"	5.5hp Honda
301-PIH-13W	3"	11hp Honda*

* electric start

Cast Iron Gas Driven-High Capacity 222 Series Pump

- More gallons per minute-higher pressure
- Cast Iron Pump with ceramic/viton seal



Part#	Description
222PI6PRO	2" Pump 6.5hp B&S PRO
222-PIH6	2" Pump, 6.5hp Honda
222PIH5	2" Pump 5.5hp Honda

Pump Engine Cover

- Prolongs engine life and ensures easy starts
- Protects engine from the outside elements
- Fits most engines up to 13 HP (without electric start)
- Molded in cup holders and tool tray
- UV stabilized poly construction

Part#
AVPC01



Cast Iron Pedestal Pumps

Part#	Description
150-PBI	1½" Pump ¾" Shaft
200-PBI	2" Pump ¾" Shaft
222-PBI	2" High Capacity Pump ¾"
300-PBI	3" Pump 1" Shaft



Banjo Cast Iron Pump Only
(For replacement of gas engine driven models)

Part#	Description
200-POI	2" Pump Only
222-POI	2" High Capacity Pump Only
300-POI	3" Pump Only

Cast Iron Hydraulic Motor Driven Self Priming Pumps

- Stainless steel shaft sleeve
- Carbon ceramic seal with viton rubber
- Available in 1½", 2" and 3"

1½" & 2" pumps with Greensen MGG2 Motors:

- 12hp motor
- Min: 4 gal, Max: 12 gal hydraulic fluid capacity

3" pump with Tyrone UM16 Motor:

- Min: 8gal, Max: 15 gal hydraulic fluid
- 21hp motor
- Open system

Part#	Description
200-PIHY	2" Pump with MGG2 Motor
200-PIHA	2" Pump Only
300-PIHY	3" Pump with UM16 Motor



Cast Iron Electric Motor Driven Self Priming Pumps

- Stainless steel shaft sleeve
- Available in 1½", 2" and 3"
- Carbon ceramic seal with viton rubber
- 3450 RPM

Part#	Description
234PIE5	2" CI Pump, 5hp 3ph
234PIE51	2" CI Pump, 5hp 1ph



Cast Iron Electric Motor Driven Manifold Flange Wet Seal Pump

Carbon ceramic seal with stainless steel cup and spring with EPDM rubber. Durable cast iron construction. Dynamically balanced impeller. Pump end separated from engine. V Shaped for quicker priming. Run Dry Capability!

Part#	Description
M332PIE10W	3" CI Pump, 10hp 3ph
M332PIE101W	3" CI Pump, 10hp 1ph

Banjo Poly Pedestal Pumps



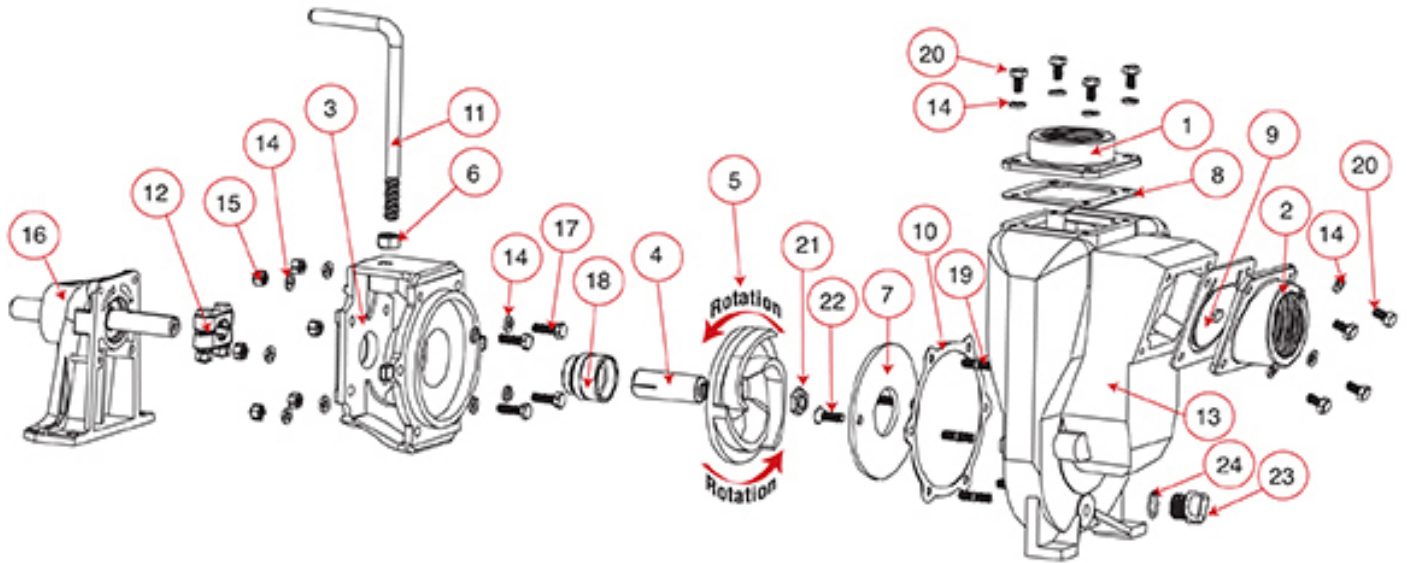
Part#	Description
150-PB	1½" Pump
200-PB	2" Pump
300-PB	3" Pump
300-PBW	3" Pump Wet Seal

Poly Pump Only

Part#	Description
200-PO	2" Pump Only

2" CAST IRON PUMP PARTS

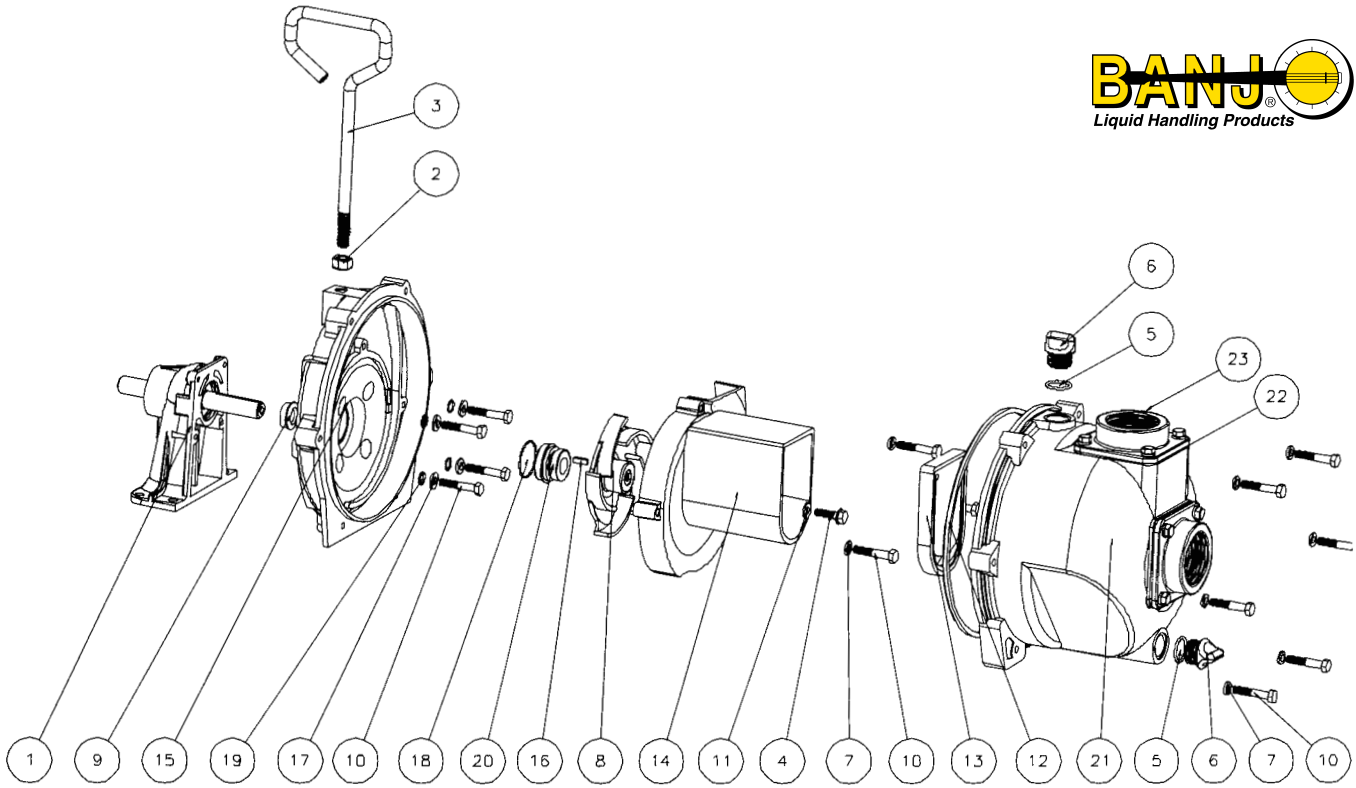
PUMPS & METERS



1 1/2" and 2" Cast Iron Centrifugal Pump Self Priming Replacement Parts

Item#	Part#	Description	Qty. Per Pump	Item#	Part#	Description	Qty. Per Pump
1	17001	2" NPT Outlet Flange	1	13	17026	Pump Housing	1
2	17003	2" NPT Inlet Flange	1	14	V10118	5/16" Lock Washer	18
3	17004	Adapter for Gas Engine	1	15	V10119	5/16" - 18 SS Hex Nut	6
3	17046	C-Face Adapter	1	N/S	12884	Internal Retaining Clip for Pedestal	1
4	17005	5/8" Sleeve Drive for Electric Motor	1	N/S	12883B	BEARINGS	2
4*	17006	3/4" Sleeve Drive	1	16	12882A	Complete Pedestal Assembly	1
4	17007	7/8" Sleeve Drive for Electric Motor	1	17	17040	5/16" -24 X 1.00" Cap Screw	4
5*	17008	5" Impeller	1	18	17028	EPDM Seal Assembly	1
5	17008-4.6	4.6" Trimmed Impeller	1	18*	17035	FKM Seal Assembly	1
5	17008-4.1	4.1" Trimmed Impeller	1	18	17035SD	Severe Duty Seal	1
6	17010	1/2" Hex Nut	1	19	17042	Stud	6
7*	17011	Wear Plate	1	20	17019	5/16"-18 X 3/4" Cap Screw	8
8	17013	EPDM Gasket	1	21	17009B	5/8" Impeller Nut	1
9	17016	Check Valve Assembly	1	22	17130	5/16-18 X 1" FHSCS, 18-8 SS	2
10*	17018	Gasket Adapter	1	23	12777	1/2" Plug	1
11	15022	Handle	1	24	UV15163	O-Ring	1
12	17023	5/8" Clamp For 3/4" Shaft Assembly (old style)	1	N/S	17033	Z Rails (pair)	1
12	17123	5/8" Clamp for 3/4" Shaft Assembly (keyed)	1	N/S	17100	Repair Kit (Consists of Items 4*, 5*, 7,10,18*)	1
12	17024	7/8" Clamp for Shaft Assembly	1				

*Parts Included in Repair Kit



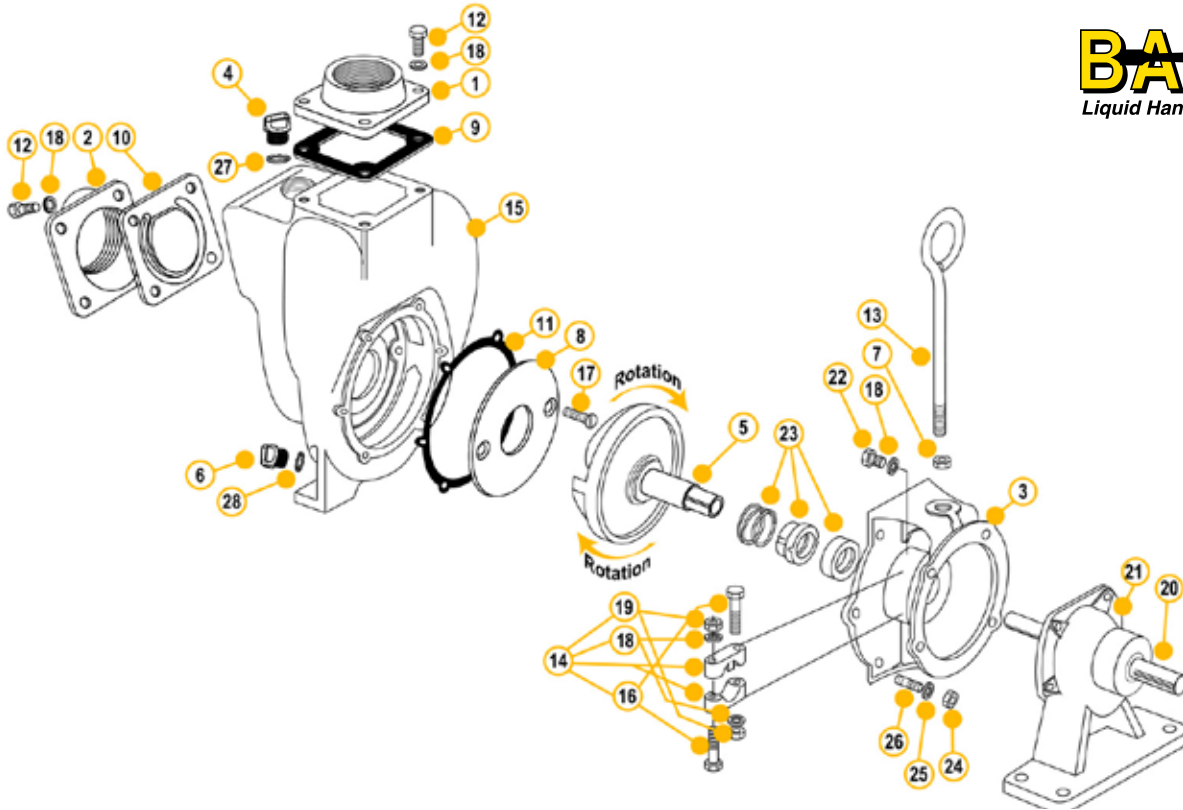
Cast Iron Pump Repair Parts List For 222 Series Pumps

Itm#	Part#	Description	Qty. Per Pump	Itm#	Part#	Description	Qty. Per Pump
1	12882A	Bearing Pedestal Assy.	1	17	12901	5/16" Flat Washer	4
2	17010*	1/2" Jam Nut	1	18	12710	2-029 O-Ring	1
3	15022	2" Pump Handle	1	19	12717*	2-011 O-Ring	4
4	12765A	5/16" - 24 x 1.12 Impeller Bolt	1	20	12713V	Seal Assembly	1
5	13778*	2-119 O-Ring	2	21	15712	Pump Body Assy.	1
6	13777	Prime/Drain Plug	2	22	17013	Flange Gasket	2
7	V10118	5/16" Lockwasher	9	23	17000	Threaded Flange	2
8	15772	5 Vane Impeller*	1	N/S	15751*	Bracket Shim	As Req'd
9	12716	Pump Slinger	1	N/S	17033	Z-Rails (PR)	1 Pair
10	12715A	HHCS 5/16- 21 x 1 3/4	13	N/S	17034	HHCS 5/16" - 18 x 1 3/4" Zinc PLTD	4
11	12774VA*	Impeller Bolt Gasket	1	N/S	V10119	5/16" - 18 Hex Nut	4
12	12719A	2-375 Body O-Ring	1	N/S	V10118	5/16" Lockwasher	4
13	12705*	Check Valve	1	N/S	15000*	Repair Kit	1
14	15702	Volute	1	N/S	15999	Seal Kit (same as repair kit without impeller)	1
15	12703A	Rear Bracket	1	N/S	15000V	Repair Kit FKM (viton type)	1
16	12902A	3/16" SW. x 5/8" Key*	1	N/S	15999V	Seal Kit FKM (viton type)	1

*Pump Repair Kits

NOTE: EPDM GASKETS, SEALS, AND O-RINGS ARE USED IN THE FOLLOWING ASSEMBLIES UNLESS OTHERWISE NOTED: 222PBI, 222PIHY, 222PI5, 222PIH5, 222PoI. Pumps equipped with FKM (viton type) also available

3" CAST IRON PUMP PARTS

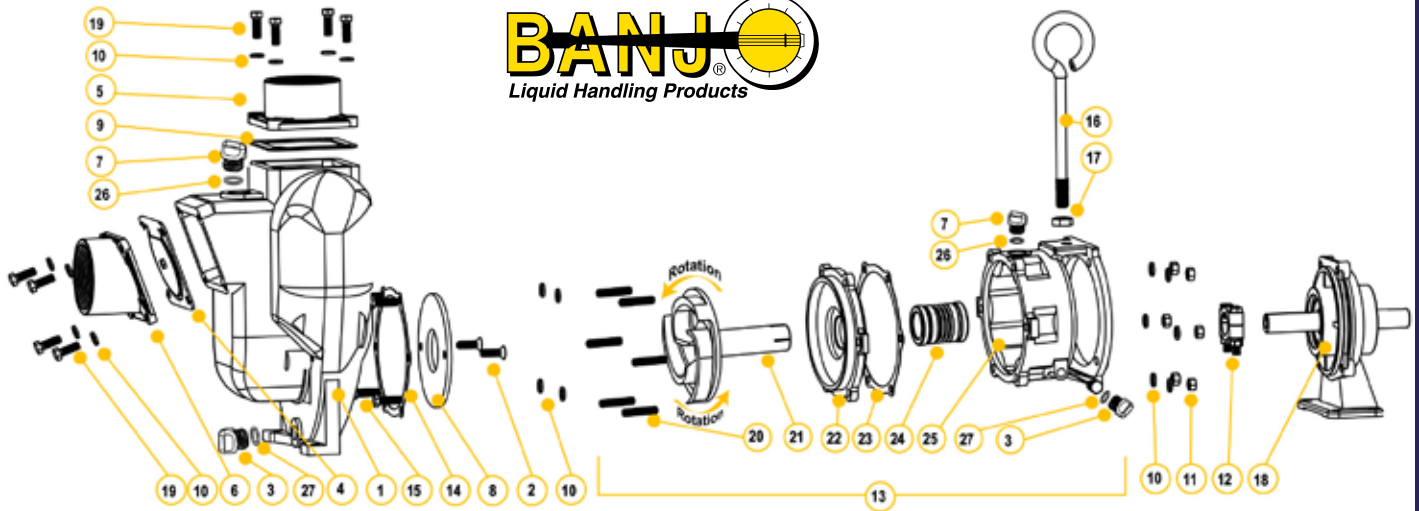


3" Cast Iron Centrifugal Pump Replacement Parts

Item	Part#	Description	Qty. Per Pump	Item	Part#	Description	Qty. Per Pump
1	18008	3" NPT OUTLET FLANGE	1	13	18033	HANDLE	1
1	M18008	3" MANIFOLD OUTLET FLANGE	1	14	18029	CLAMP ASSEMBLY (OLD STYLE)	1
2	18012	3" NPT INLET FLANGE	1	14	18129	CLAMP ASSEMBLY (NEW STYLE)	1
2	M18012	3" MANIFOLD INLET FLANGE	1	15	18001	PUMP HOUSING	1
3	18026	ADAPTER FOR GAS ENGINE & BEARING PEDESTAL	1	16	18030	3/8" -24 X 2 1/4" BOLT	2
3	18048	C-FLANGE ADAPTER	1	17	18106	WEAR PLATE FLAT HEAD SCREW	2
3	18049	HYDRAULIC MOTOR ADAPTER	1	18	V20018	3/8" LOCK WASHER	8
N/S	18055	HYDRAULIC ADAPTER SHAFT	1	19	18032	3/8" X 24 SS HEX NUT	2
4	13777	3/4" PLUG	1	20	18504	1" SHAFT	1
5*	18023	1" IMPELLER & DRIVE SHAFT FOR GAS ENGINE	1	21	18500	BEARING PEDESTAL	1
5	18023-1.125	1 1/8" IMPELLER & DRIVE SHAFT FOR ELECTRIC MOTOR	1	N/S	18502	BEARING SKF 66306-2RS1/C3	2
6	12777	1/2" PLUG	1	22	17704	BOLT	4
7	18034	5/8" SS JAM NUT	1	23*	18025	FKM SEAL ASSEMBLY	1
8	18004	WEAR PLATE	1	23	18025SD	SEVERE DUTY SEAL	1
9	18009	EPDM OUTLET GASKET	1	24	V20019	3/8" 16 SS HEX NUT	6
10	18013	GASKET CHECK VALVE ASSEMBLY	1	25	V20018	3/8" SS LOCK WASHER	6
11	18021	ADAPTER GASKET	1	26	18218	3/8" -16 X 24 X 2 1/8" SS STUD	6
12	18010SS	3/8" - 16 X 1 1/8" SS CAP SCREW HXHD	8	27	13778	O-RING	1
				28	UV15163	O-RING	1
				N/S	18035	Z-RAIL MOUNTING BRACKET (PAIR)	1
				N/S	18100	REPAIR KIT (CONSIST OF ITEMS 5*, 8,11,17, 23*)	1

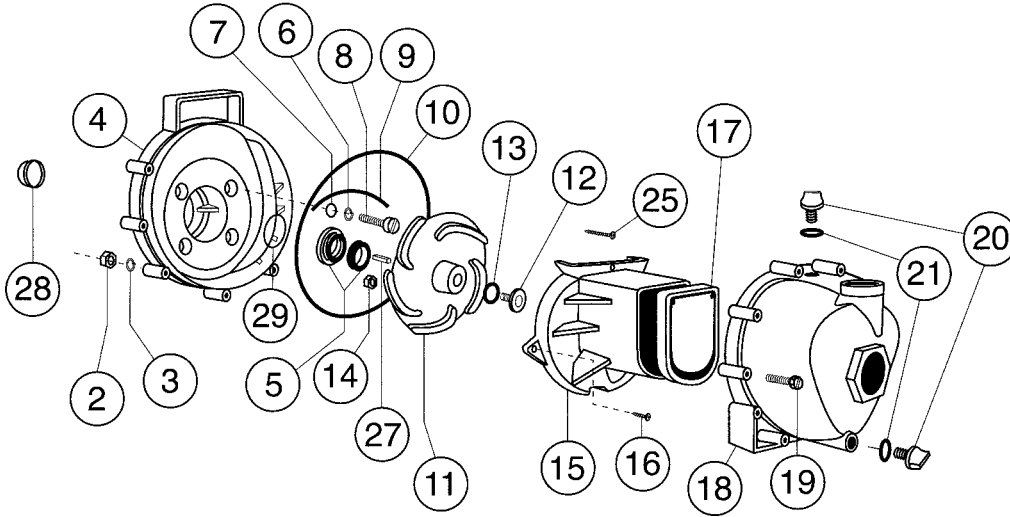
*Parts Included in Repair Kit

3" CAST IRON WET SEAL PUMP PARTS



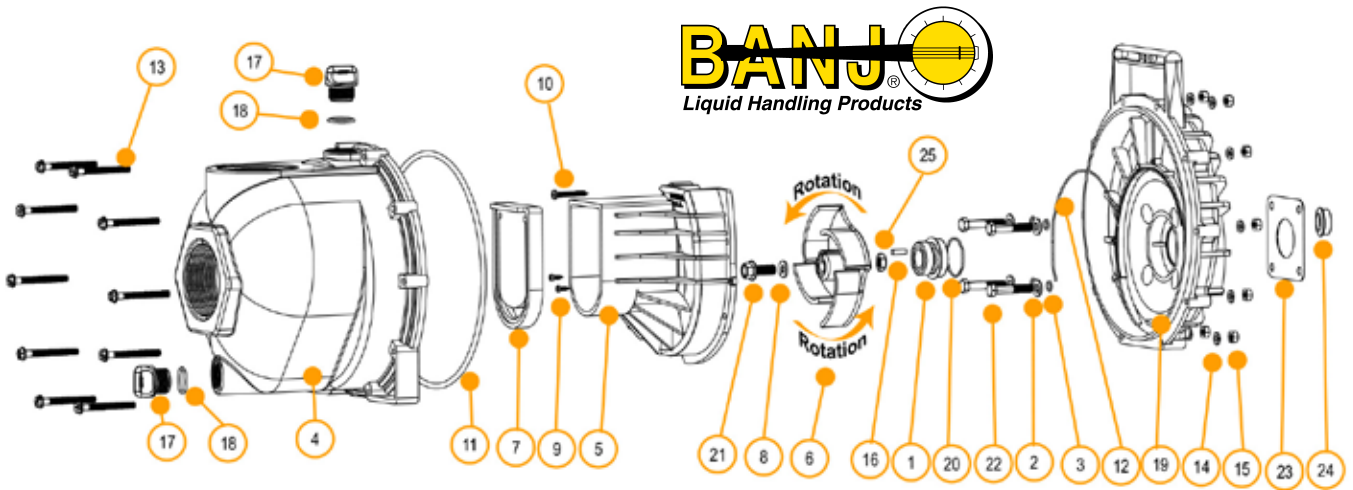
3" Cast Iron Wet Seal Centrifugal Pump Replacement Parts

Item	Part#	Description	Qty. Per Pump
1	18001	PUMP HOUSING	1
2	18106	FLAT HEAD SOCKET CAP SCREW	2
3	12777	1/2" PLUG	2
4	18013	INLET/CHECK EPDM GASKET	1
5	18008	3" NPT OUTLET FLANGE	1
6	18012	3" NPT INLET FLANGE	1
7	13777	3/4" PLUG	2
8	18004	WEAR PLATE	1
9	18009	EPDM OUTLET GASKET	1
10	V20018	3/8" LOCK WASHER	18
11	V20019	3/8" 16 SS HEX NUT	6
12	18129	CLAMP ASSEMBLY KEYED	1
13	18200A	WET SEAL ASSEMBLY	1
14	18021	ADAPTER GASKET	1
15	17704	3/8" -16 X 1 1/4" HHCS	4
16	18033	HANDLE	1
17	18034	5/8" -11 JAM NUT	1
18	18500	BEARING PEDESTAL	1
19	18010SS	3/8" - 16 X 1 1/8" HHCS	8
20	18218	3/8" -16 X 24 X 2 1/8" SS STUD	6
21	18206	IMPELLER	1
22	18202A	COVER PLATE	1
23	18021	ADAPTER GASKET	1
24	15035E	EPDM MECHANICAL SEAL ASSEMBLY	1
25	18203A	WET SEAL RESERVOIR	1
26	13778	O-RING	2
27	UV15163	O-RING	2



1½" and 2" Polypropylene Pump Parts
(For Pumps Manufactured Beginning September, 1996)

Item#	Description	Qty. Per Pump	Part# 1½"	Part# 2"	Repair Kits	Part#
2	Body Nuts SS	10	V07019	V07019	Pump Kit (marked with *)	12000A
3	Lock Washer SS	10	V07018	V07018	Pump Seal "O" Ring Kit (marked with +)	12999A
4	Rear Bracket	1	12703A	12703A		
5	Seal Assembly*+	1	12713	12713		
6	Rear Bracket Washer SS	4	12901	12901		
7	Screw Heads "O" Ring*	4	12717	12717		
8	Bracket Screws SS	4	12715A	12715A		
9	"O" Ring Segment *+	1	12754	12754		
10	Body "O" Ring *+	1	12719A	12719A		
11	5/3 Vane Impeller	1	12771A	12772		
12	Impeller Bit SS	1	12765A	12765A		
13	Impeller Bit Gasket *+	1	12774VA	12774VA		
14	Impeller Hex Nut	1	12775A	12775A		
15	Volute	1	12702A	12702A		
16	Volute Screws SS	2	12725	12725		
17	Check Valve*	1	12705	12705		
18	Body Assembly	1	12711A	12712A		
19	Body Screws SS	10	12720	12720		
20	Prime/Drain Plug	2	12777	12777		
21	(Prime/Drain Plug) "O" Ring*+	2	UV15163	UV15163		
25	Upper Volute Screw SS	1	12900	12900		
27	Impeller Key	1	12902A	12902A		
28	Slinger *+	3	12706	12706		
29	"O" Ring (for Seal Assembly)*	1	12710	12710		



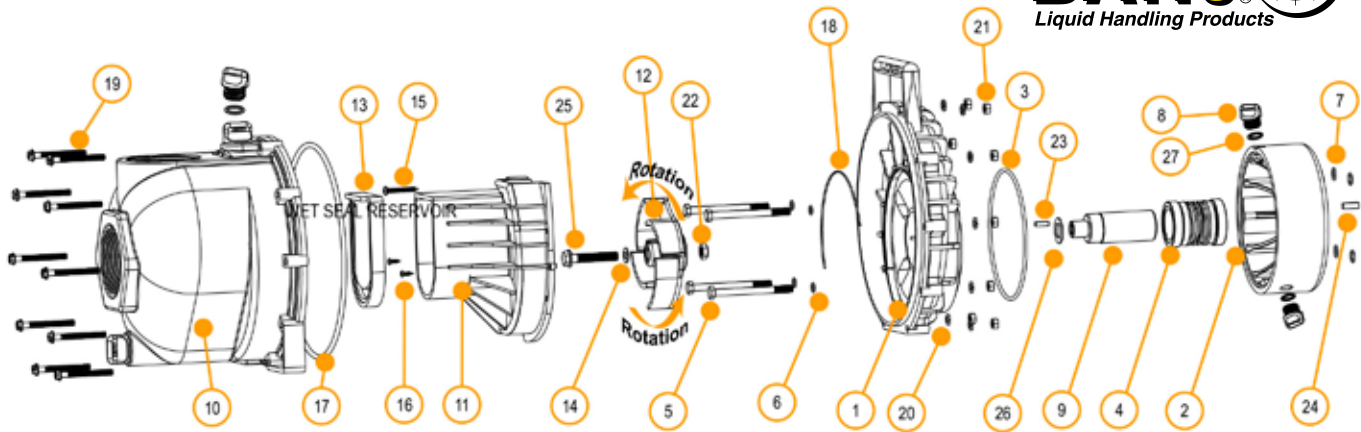
3" Polypropylene Pump Parts

Item	Part#	Description	Qty. Per Pump
1	12713	SEAL ASSEMBLY	1
2	12901	SS REAR BRACKET WASHER	4
3	12717	O-RING FOR SCREW HEAD	4
4	13712	BODY ASSEMBLY	1
5	13702	POLY PUMP VOLUTE	1
6	13771	4 VANE TRIMMED IMPELLER	1
6	13772	4 VANE IMPELLER (300P11PRO)	1
7	12705	CHECK VALVE	1
8	A204	O-RING	1
9	12900	SS UPPER VOLUTE SCREW	4
10	12725	SS VOLUTE SCREWS	2
11	12719A	BODY O-RING	1
12	12754	O-RING SEGMENT	1
13	12720	SS BODY SCREWS	10
14	V07018	SS LOCK WASHERS	10
15	V07019	SS BODY NUTS	10
16	12902A	IMPELLER KEY	1
17	13777	3/4" PLUG	2
18	13778	O-RING	2
19	12703A	POLY PUMP REAR BRACKET	1
20	12710	O-RING FOR SEAL ASSEMBLY	1
21	12765A	SS IMPELLER BOLT 5/16 X 24 X 1.12 (300PH-6)	1
21	13765	SS IMPELLER BOLT 3/8 X 24 X 1.75 (300P11PRO)	1
22	12715A	SS BRACKET SCREWS	4
23	15751	REAR BRACKET SHIM	1
24	12716	POLY PUMP SLINGER	1
25	12775A	IMPELLER HEX NUT	1
N/S	12882A	BEARING PEDESTAL	1
N/S	12099	7/16"-14 X 1.25" HHCS	1
N/S	13000	4 VANE IMPELLER REPAIR KIT (Items 1, 3, 6-8, 11, 12, 18, 20, 24 & 12099)	1
N/S	13999	PUMP SEAL/O-RING KIT (Items 1, 3, 8, 11, 12, 18, 20, 24 & 12099)	1

3" POLY WET SEAL PUMP PARTS



PUMPS & METERS



3" Polypropylene WET SEAL Pump Parts

Item	Part#	Description	Qty. Per Pump	Item	Part#	Description	Qty. Per Pump
1	12703AW	WET SEAL REAR BRACKET	1	13	12705	CHECK VALVE	1
2	12201W	WET SEAL RESERVOIR	1	13	12705V	FKM CHECK VALVE (301POWV)	1
2	12202W	WET SEAL RESERVOIR (300POW6)	1	14	A204	IMPELLER BOLT GASKET	1
3	13719	O-RING	1	14	A204V	FKM IMPELLER BOLT GASKET (301POWV)	1
3	13719V	FKM O-RING (301POWV)	1	15	12900	#10 X 1 1/2" PPH SMS	1
4	15035E	EPDM MECHANICAL SEAL ASSEMBLY	1	16	12725	#6 X 1/2" PPH SMS	2
4	15035	MECHANICAL SEAL ASSEMBLY (301POWV)	1	17	13719	BODY O-RING	1
5	13034	5/16" -24 X 3 3/4" HHCS	4	17	13719V	FKM BODY O-RING (301POWV)	1
6	12717	O-RING FOR BRACKET SCREW	4	18	12754	O-RING SEGMENT	1
6	12717V	FKM O-RING FOR BRACKET SCREW (301POWV)	4	18	12754V	FKM O-RING SEGMENT (301POWV)	1
7	12709	O-RING	4	19	12720	1/4" - 20 X 2 1/2" SL IND HWHS	10
7	12709V	FKM O-RING (301POWV)	4	20	V07018	1/4" LOCK WASHER	10
8	12777	1/2" PLUG	4	21	V07019	1/4" - 20 HEX NUT	10
9	13055	ADAPTER SHAFT (300PH6W & 300PH13W)	1	22	12775A	7/16" - 14 HEX NUT	1
9	13155M	ADAPTER SHAFT (300P11PROW & 301POWV)	1	23	12902A	3/16" SQ. X 5/8" KEY	2
9	12155	ADAPTER SHAFT (300PH6W)	1	24	16901	1/4" SQUARE KEY	1
10	13712	BODY ASSEMBLY	1	25	13766	Ø-24 X 2 1/4" HFS	1
10	13712	FKM BODY ASSEMBLY (301POWV)	1	25	BM1070	M10-1.5 X 70 MM HHCS (301POWV)	1
11	13702	VOLUTE	1	26	CV10175	GASKET	1
12	13772	4 VANE IMPELLER	1	26	CV10175V	FKM GASKET (301POWV)	1
12	13771	TRIMMED IMPELLER (300POW6)	1	27	UV15163	O-RING FOR DRAIN PLUG	4
				27	UV15163V	FKM O-RING FOR DRAIN PLUG (301POWV)	4

GENUINE JOHN BLUE PUMPS



PUMPS & METERS

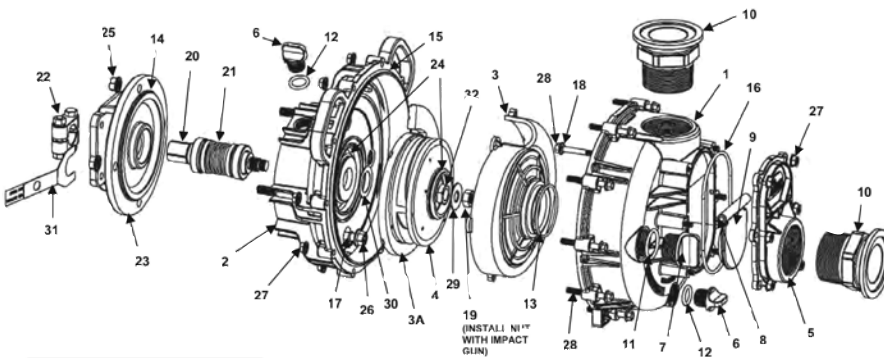


PATENT-PENDING

Vac-U-Seal Poly 2" Self-Priming Pumps

- 200 GPM Max Flow
- 45 PSI Max Pressure
- 112 GPM @ 25 PSI
- Required Horsepower: 5Hp
- 2" Port Size
- Vac-U-Seal Impeller
- Close-coupled Shaft
- Fits 3/4" Diameter Shaft
- Double Wet Seal Assembly
- Chemical Resistant Materials

Part#	Description
PSP-3240	2" Poly Pump Only
PSP-3240-G6H	2" FPT Ports with Honda GX200 Engine



Seal & O-ring kit #116403-91

PRODUCT FEATURES

- Fully-assembled from the Factory—ready to be attached to power source immediately.
- Double Wet Seal Assembly—pump can run dry without causing seal failure, seal is antifreeze cooled. (Antifreeze is pre-filled from the factory.)
- Closed Impeller Technology—pump efficiency improves over time as the impeller wears.
- Polypropylene Body, FKM and Viton® Seals, 316SS Impeller Shaft for excellent chemical resistance.
- Pump can be removed, or engine can be replaced without having to disassemble the pump.
- 1" FPT pressure access & 1/2" FPT drain port

Item	Description	Part #
1	HOUSING	116282-01
2	BACKPLATE	116283-01
3/3A	SCROLL PLATE / SCROLL PLATE INSERT	116284-01A / 02A
4	IMPELLER	116285-91
5	INLET FLANGE - NPT	116286-01
6	1/2" PLUG	116288-01
7	1" PLUG	116289-01
8	PIVOT PIN - 316SS	116290-01
9	FLAP - EPDM	116241-01
10	M220 FLANGE ADAPTER TO 2" MPT - <i>OPTIONAL</i>	116287-01
11	#123 VITON O-RING - 1" PLUG	116293-01
12	#115 VITON O-RING - 1/2" PLUG	116294-01
13	#139 VITON O-RING - VOLUTE	116295-01
14	#049 VITON O-RING - ENGINE ADAPTER	116296-01
15	M4X228 VITON O-RING - HOUSING	116297-01
16	#158 VITON O-RING - INLET FLANGE	116298-01
17	#012 VITON O-RING - 3/8" BOLTS	116300-01
18	#010 VITON O-RING - 1/2" BOLTS	SMPT-0067
19	1/2" IMPELLER RETAINING NUT - 316SS (approx. 30 ft-lb - use impact gun)	92033
20	IMPELLER SHAFT - 316SS	116299-01
21	DOUBLE SEAL - 1" VITON, CERAMIC	S-3565-V
22	SHAFT CLAMP	S-3607S
23	ENGINE ADAPTER	S-3556
24	TEFLON RING	116246-01
25	3/8"-16 FLANGED NUT (10 ft-lb max. for re-assembly)	91077
26	3/8"-16 X 3" LG. FLANGED BOLT, 316SS	116291-01
27	1/4"-20 FLANGED NUT (5 ft-lb max. for re-assembly)	92017
28	1/4"-20 X 2" LG. FLANGED BOLT, 316SS	116292-01
29	IMPELLER WASHER - 316SS	93044
30	PTFE REAR IMPELLER SHIM	116441-01
31	SHAFT INSTALLATION TOOL	116301-01
32	5/8" IMPELLER INSERT NUT - 316SS	116470-01



JOHN BLUE CENTRIFUGAL CAST IRON PUMP

GENUINE JOHN BLUE PUMPS

2-YEAR UNCONDITIONAL WARRANTY ON CAST-IRON PUMPS!*

All Next Generation John Blue Centrifugal Pumps can run dry without damaging the seal. This, combined with a two-year factory backed. UNCONDITIONAL WARRANTY on cast-iron models, makes the John Blue Centrifugal Pumps second to no other pump manufacturer on the market today—all at an affordable price. Available with Gas, Electric, or Hydraulic Power Sources.

Pumps Coupled to Gasoline Engines

Part#	Description
SP-3240-G5H	2" Self-Priming, 5 HP Honda Engine With Base
SP-3350-G13H	3" Self-Priming HF, 13 HP Honda, Electric Start, Engine with Base
SP-3350-G13HFLG	3" Self-Priming HF, 13 HP Honda, Electric Start, Engine with Base w/300 Series Manifold Flanges
SP-3350-G14K	3" Self-Priming HF, 14 HP Kohler, Electric Start, Engine with Base



SP-3240-G5H



SP-3350-G13HFLG

Pumps Coupled to Electric Motors

Part#	Description
SP-3240-E5T3B	2" Self-Priming 5 HP Electric TEFC, 3 Phase with Base
SP-3340-E10TB	3" Self-Priming, 10 HP Electric TEFC, 3 Phase
SP-3340-E10TB-1	3" Self-Priming, 10 HP Electric TEFC, 1 Phase
SP-3350-E15TB	3" Self-Priming HF, 15 HP Electric TEFC, 3 Phase with Base
SP-3450-E20TB	4"x3" SP 2nd Gen HF Cent with 20 HP Electric Motor w/ Base



SP-3450-E20TB

Pumps with Hydraulic Motors

Part#	Description
SP-3240-PH	2" Self-Priming Hydraulic Drive
SP-3345-PH	3" Self-Priming Truck Pump Hydraulic Drive



SP-3240-PH

Pumps with Pedestal Mount

Part#	Description
SP-3240-P	2" Self-Priming, 3/4" Shaft
SP-3340-P	3" Self-Priming, 1 1/8" Shaft
SP-3345-P	3" Self-Priming Truck Pump 1 1/8" Shaft



SP-3345-P

JOHN BLUE CENTRIFUGAL CAST IRON PUMP

GENUINE JOHN BLUE PUMPS



PUMPS & METERS



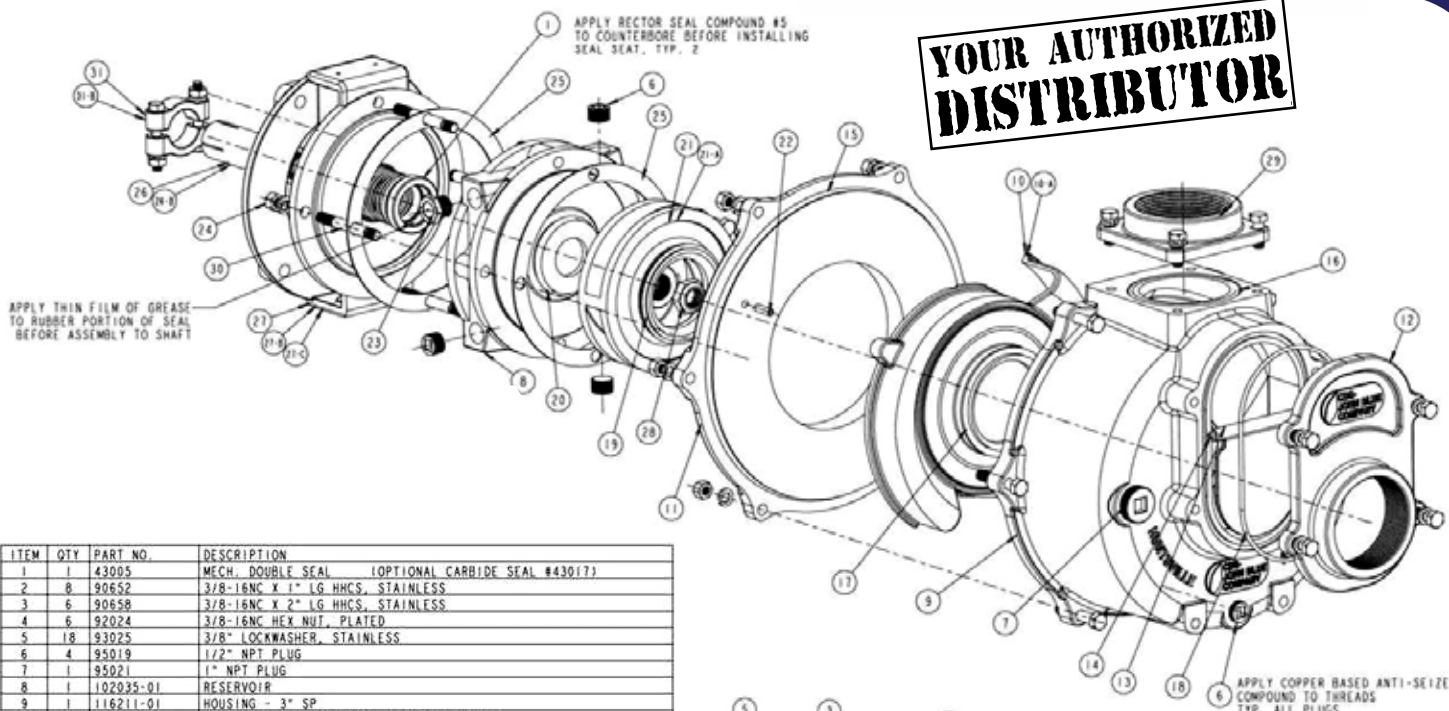
Latest technology using o-rings instead of old gasket technology makes pump maintenance easier.



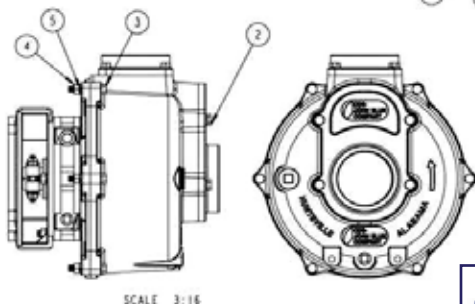
Part#	Description
SP-3340	3" Self-Priming, 1 1/8" Shaft
SP-3350	3" Self-Priming High Flow, 1 1/8" Shaft
SP-3350-BS1	3" Self-Priming High Flow, 1" Shaft
SP-3450	4x3" Self-Priming High Flow, 2nd Generation

SP-3340/SP-3350/SP-3450

YOUR AUTHORIZED DISTRIBUTOR



ITEM	QTY	PART NO.	DESCRIPTION
1	1	43005	MECH. DOUBLE SEAL (OPTIONAL CARBIDE SEAL #43017)
2	8	90652	3/8-16NC X 1" LG HHCS, STAINLESS
3	6	90658	3/8-16NC X 2" LG HHCS, STAINLESS
4	6	92024	3/8-16NC HEX NUT, PLATED
5	18	93025	3/8" LOCKWASHER, STAINLESS
6	4	95019	1/2" NPT PLUG
7	1	95021	1" NPT PLUG
8	1	102035-01	RESERVOIR
9	1	116211-01	HOUSING - 3" SP
10	1	116212-01	SCROLL PLATE (SP-3350 & SP-3450 ONLY)
11	1	116213-01	HOUSING COVER - 3"
12	1	116215-01	3" INLET ADAPTER (OPT. FLGD ADAPTER #116215-01FLG)
13	1	116216-01	INLET FLAP
14	1	116217-01	FLAP PIVOT PIN
15	1	116218-01	#379 BUNA O-RING
16	1	116219-01	#239 BUNA O-RING
17	1	116220-01	SCROLL PLATE GASKET
18	1	116221-01	#260 BUNA O-RING
19	1	116222-01	#237 TEFLON O-RING
20	1	116223-01	#231 TEFLON O-RING
21	1	116227-01	3" HF IMPELLER (SP-3350 & SP-3450 ONLY)
22	2	1-4135	1/4" X 3/4" ROLL PIN, S.S.
23	1	S-3555	VIEW WINDOW
24	4	S-3557	3/8-24NF HEX NUT STAINLESS
25	2	S-3638	GASKET SEAL
26	1	S-3646	IMPELLER SHAFT, 1-1/8"
27	1	102189-01	ADAPTER, GAS ENGINE
28	1	S-3649	3/4"-16 LEFT HAND LOCKNUT
29	1	S-3657	3" F.P.T. DISCHARGE FLANGE (OPT. FLGD ADAPTER #S-3657-FLG)
30	4	S-3664	3/8" X 3-1/2" STUD, S.S.
31	1	S-3608S	3" S.S. CLAMP ASSEMBLY
10-A	-	102036-01A	SCROLL PLATE (SP-3340 ONLY)
21-A	-	116226-01	3" IMPELLER (SP-3340 ONLY)
26-B	-	114524-01	BS ENGINE SHAFT (1")
27-C	-	102190-01	ELECTRIC MOTOR ADAPTER
27-B	-	114523-01	BS ENGINE ADAPTER
31-B	-	S-3608AS	BS ENGINE KNEYED CLAMP



SP-3450 4" X 3" SP PUMP UNIQUE PARTS:

ITEM	QTY	PART NO.	DESCRIPTION
2	2	90519	SOCKET HEAD BOLTS (USED AT INLET)
12	1	116253-01	4" NPT INLET ADAPTER
21	1	116214-01	5 VANE IMPELLER

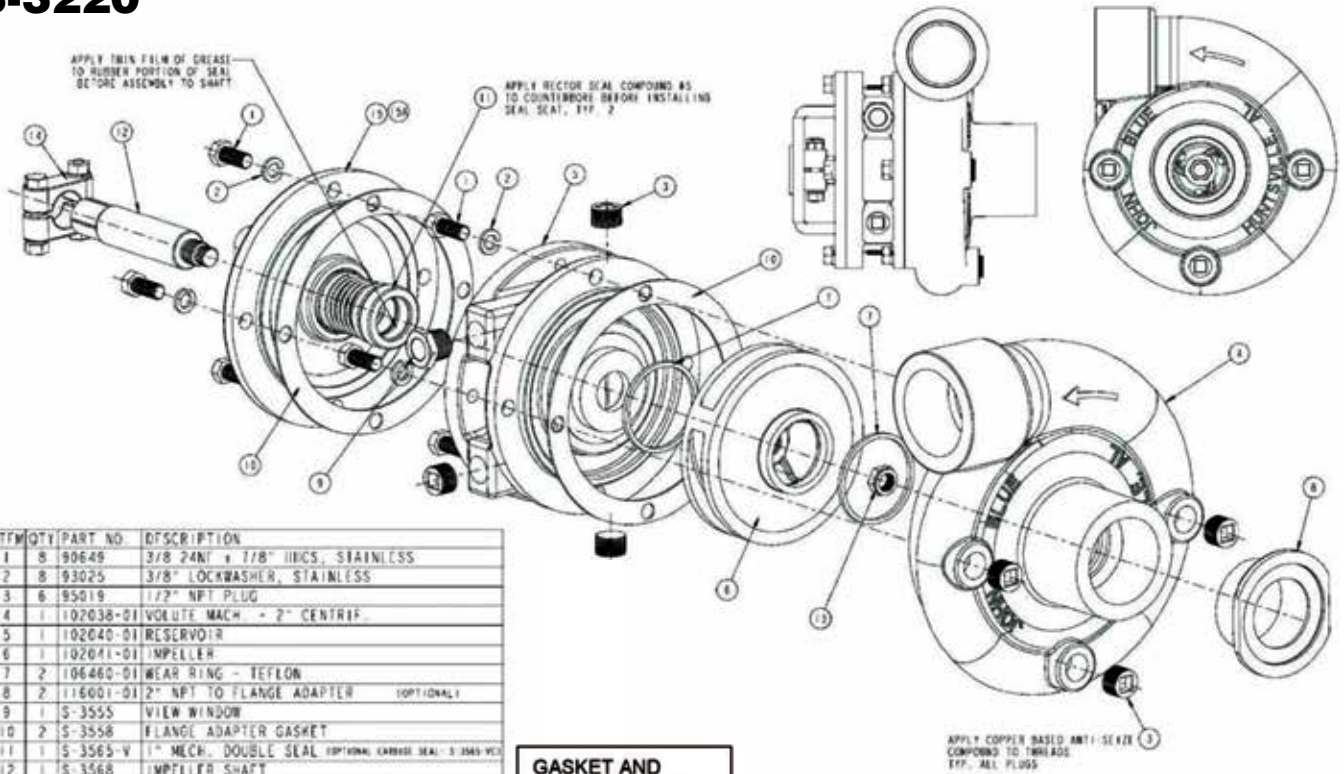
** ITEMS 13 AND 14 ARE NOT USED ON THIS PUMP **



JOHN BLUE CENTRIFUGAL CAST IRON PUMP

GENUINE JOHN BLUE PUMPS

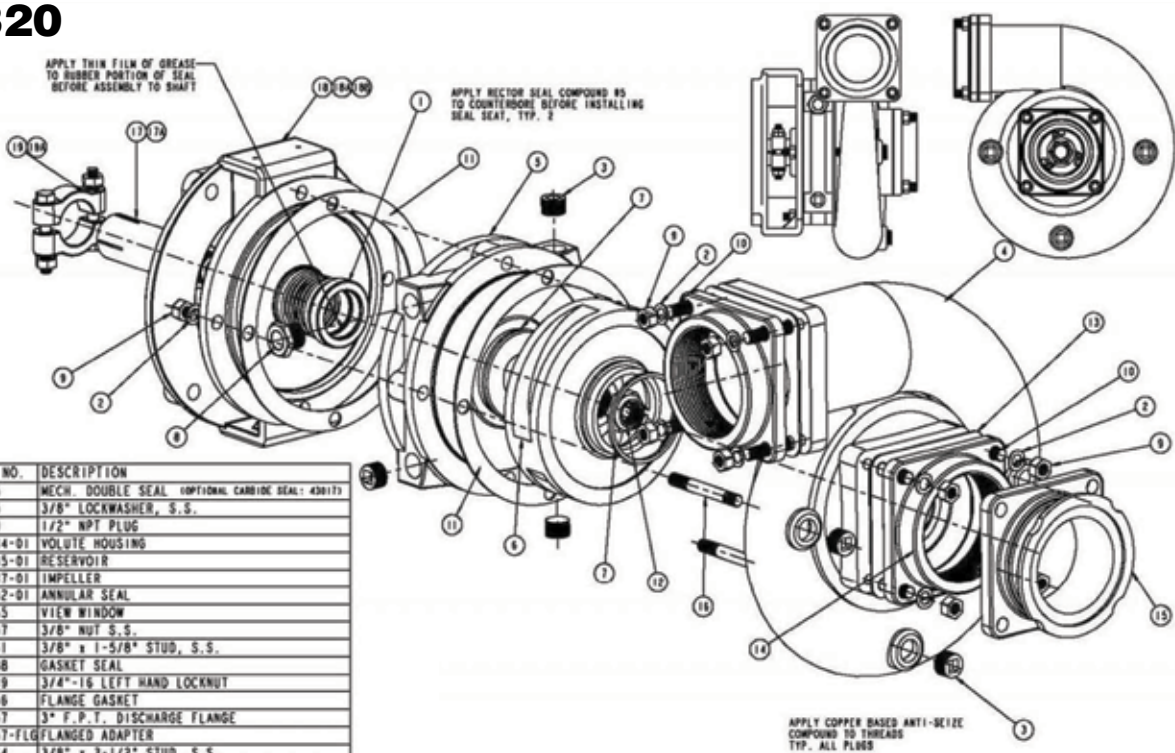
S-3220



ITEM	QTY	PART NO.	DESCRIPTION
1	8	90649	3/8 24N1 x 7/8" INICS, STAINLESS
2	8	93025	3/8" LOCKWASHER, STAINLESS
3	6	95019	1/2" NPT PLUG
4	1	102038-01	VOLUTE MACH - 2" CENTRIF.
5	1	102040-01	RESERVOIR
6	1	102041-01	IMPELLER
7	2	106460-01	WEAR RING - TEFLON
8	2	116001-01	2" NPT TO FLANGE ADAPTER (OPTIONAL)
9	1	S-3555	VIEW WINDOW
10	2	S-3558	FLANGE ADAPTER GASKET
11	1	S-3565-V	1" MECH. DOUBLE SEAL (OPTIONAL CARBIDE SEAL: S-3565-VCS)
12	1	S-3568	IMPELLER SHAFT
13	1	S-3572	IMPELLER NUT
14	1	S-36075	2" S.S. CLAMP ASSEMBLY
15	1	S-3556	ADAPTER - GAS ENGINE & PEDESTAL
15A	-	S-3609	ADAPTER FOR ELECTRIC MOTOR

GASKET AND SEAL KIT: 103274

S-3320



ITEM	QTY	PART NO.	DESCRIPTION
1	1	43005	MECH. DOUBLE SEAL (OPTIONAL CARBIDE SEAL: 43017)
2	12	93025	3/8" LOCKWASHER, S.S.
3	6	95019	1/2" NPT PLUG
4	1	102034-01	VOLUTE HOUSING
5	1	102035-01	RESERVOIR
6	1	102037-01	IMPELLER
7	2	110152-01	ANNULAR SEAL
8	1	S-3555	VIEW WINDOW
9	12	S-3557	3/8" NUT S.S.
10	8	S-3561	3/8" x 1-5/8" STUD, S.S.
11	2	S-3638	GASKET SEAL
12	1	S-3649	3/4"-16 LEFT HAND LOCKNUT
13	2	S-3656	FLANGE GASKET
14	2	S-3657	3" F.P.T. DISCHARGE FLANGE
15	1	S-3657-FLG	FLANGED ADAPTER
16	4	S-3664	3/8" x 3-1/2" STUD, S.S.
17	1	S-3646	IMPELLER SHAFT
18	1	102189-01	ADAPTER FOR GAS ENGINE
19	1	S-36085	3" S.S. CLAMP ASSEMBLY
17A	-	114524-01	IMPELLER SHAFT FOR "BS" GAS ENGINE MODEL
18A	-	102190-01	ADAPTER FOR ELECTRIC MOTOR
18B	-	114523-01	ADAPTER FOR "BS" GAS ENGINE MODEL
19A	-	S-3608AS	3" S.S. KEYED CLAMP FOR "BS" IMPELLER SHAFT

GASKET AND SEAL KIT: 103277

PUMPS & METERS

GENUINE JOHN BLUE PUMPS



PUMPS & METERS

YOUR AUTHORIZED DISTRIBUTOR



S-3325-P



S-3220



The Pump Company Since 1886

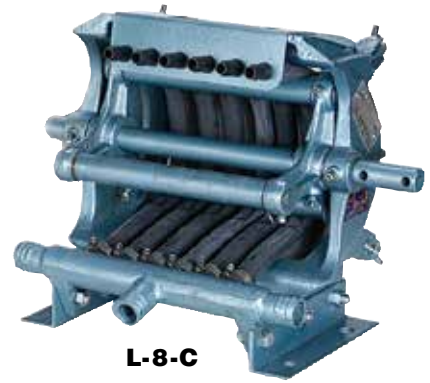
Since 1886, farmers and producers have counted on John Blue's innovative and state-of-the-art agricultural products to provide reliable and durable service. More than a century later, its legacy thrives, as John Blue Company remains a leader and pioneer in precision ag equipment. Industry innovation remains a priority, and our product offering continues to evolve each year as we engineer and produce products that farmers need. Our commitment to outstanding design, premium materials and uncompromising craftsmanship is what drives the motivation behind our unconditional promise that John Blue products are "Guaranteed to do the job".

Pumps with Pedestal Mount

Part#	Description
S-3220	2" Straight Pump, 3/4" Shaft
S-3220-PH	2" Straight Pump with Pedestal Mount and Hydraulic Motor
S-3320	3" Straight Pump, 1 1/8" Shaft
S-3320-BS	3" Straight Pump, 1" Shaft
S-3320-P	3" Straight Pump, 1 1/8" Shaft, With Pedestal
S-3320-E10T-1FLG	3" Straight Pump, 10 HP Electric Motor, Single Phase, Flanged
S-3320-E15T	3" Straight Pump, 15 HP Electric Motor TEFC, 3 Phase
S-3325-P	3" Straight Truck Pump, 1 1/8" Shaft with Pedestal Mount
S-3325-PH	3" Straight Truck Pump with Pedestal Mount and Hydraulic Motor

John Blue Ground Driven Squeeze Pumps

- Heavy Cast Iron Frame will not flex on uneven ground
- Output does not vary from 5RPM to 125 RPM
- Round Hoses and spring loaded back plate for accuracy
- Positive shut-off when pump stops
- Hoses have memory shape for accurate rate
- Grease fittings on rollers allow dirt and fertilizer to be flushed out
- Low rate models 5/16" Hoses and 3-18 GPA
- High rate models 1/2" Hoses and 7-45 GPA



L-8-C

Model	# of Hoses	Size	Rate	Discharge
L-6-C	6	1/2"	7-45	1/2" HOSE
L-8-C	8	5/16"	3-18	3/8" HOSE
L-8-LC	8	1/2"	7-45	1/2" HOSE
L-12-SC	12	5/16"	3-18	3/8" HOSE
L-12-C	12	1/2"	7-45	1/2" HOSE
L-16-C	16	5/16"	3-18	3/8" HOSE

ACCESORIES & PUMP DRIVES

114273 Squeeze pump mount and drive including: 2 cluster sprocket assemblies, L1485 Speed change drive with sprockets L4513 Complete sprocket package

Miscellaneous Components & Parts

- L1414 Sprocket Adapter - 7/8"
- L1414-1 Sprocket Adapter 1"
- L4414 Sprocket Retainer - 7/8"
- L1265 Set of Six 1/2" Squeeze Pump Hoses
- LA1265 Set of Eight 5/16" Squeeze Pump Hoses
- 87249 Individual 1/2" Squeeze Pump Hose
- 87250 Individual 5/16" Squeeze Pump Hose
- A3656A Nylon Split Bushing
- L1452 Nylon Bushing
- L1261 Black Plate Spring



Flow Dividers

- Numbered ports for ease of tracing lines
 - Tapered inlets reduce turbulence resulting in smoother flow improving accuracy by up to 3 times
 - Viton o-rings are used for positive sealing for even hard to handle products
 - Wrench flats for ease of installation
 - 316 SS sleeve can be easily removed for cleaning in the field. Alignment pin ensures the sleeve will be replaced in exactly the same position every time.
 - Spherical tip allows needle to open easier increasing accuracy at lower application rates.
- * Adjustable spring kits available



Part#	Description
FD-0610	6 Outlet steel flow divider
FD-1210	12 Outlet steel flow divider
FD-2010	20 Outlet stainless steel flow divider

Repair Kits

Part#	Description
115406A	Needle & Seal Kit (FD1210)
115407A	Seal Kit (FD-1200)
115433A	Needle & Seal Kit (FD2010)
115434A	Seal Kit (FD-2000)

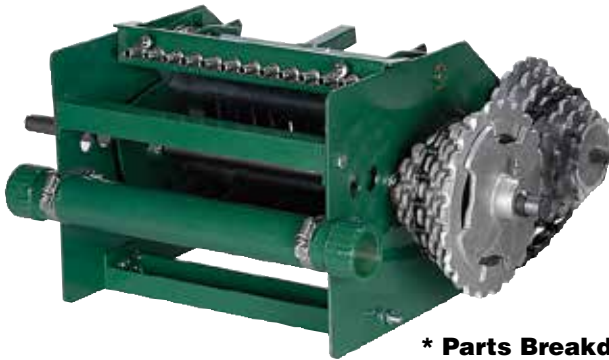
CDS positive displacement metering pumps for liquid fertilizer. Ideal for planting, pre-plant, side dressing, cultivation and dual application. CDS single, double and combination squeeze pumps accurately meter your liquid fertilizer to each outlet for positive, accurate placement without manifolds, orifices or flow dividers. Minimum maintenance and downtime with lubricated for life sealed main shaft bearings. Durable, flex-resistant, special oval shaped squeeze tubes give longer life than round tubes.

Pumps are available with 4 to 52 outlets in various configurations. Single pumps have one manifold and roller assembly. Double pumps have two manifolds and two roller assemblies. The number of outlets are easy to reduce. Simply remove one or more tubes as required and close the fittings with furnished poly plugs.

The need for separate ground wheel drive is eliminated. Flow control valve provides accurate pump RPM from near zero to the maximum RPM of the pump.

How to order the John Blue Pump you need

1. Determine the number of outlets required (one for each application point). Example: if 18 outlets are required, the 20 outlet pump would be used.
2. Determine tube size using this formula: Shank or outlet spacing(inches) x MPH x Desired application rate in GPA.
3. If result is 1501 or more, use 5/8" "L" model. If result is 1,000 to 1,500, use either 3/8" "B" model or 5/8" "L" model. If result is 1,000 or less, use 3/8" "B" model.



* Parts Breakdown on next page

Squeeze pump maximum output at 100 RPM				
	OPERATING SPEED MPH	GALLONS PER ACRE		
		12" ROW	30" ROW	36" ROW
"B" PUMP	3.5	90	36	30
3/8" HOSE	4.0	77	31	26
	4.5	69	28	23
	5.0	62	25	20
	6.0	51	20	17
"L" PUMP	3.5	180	72	60
5/8" HOSE	4.0	155	62	52
	4.5	139	56	47
	5.0	124	50	41
	6.0	103	41	34

Single Pumps

Model	Outlet	Size
8B-1	8	3/8"
8L-1	8	5/8"
12B-1	12	3/8"
12L	12	5/8"
16B-1	16	3/8"
16L	16	5/8"
24B-1	24	3/8"

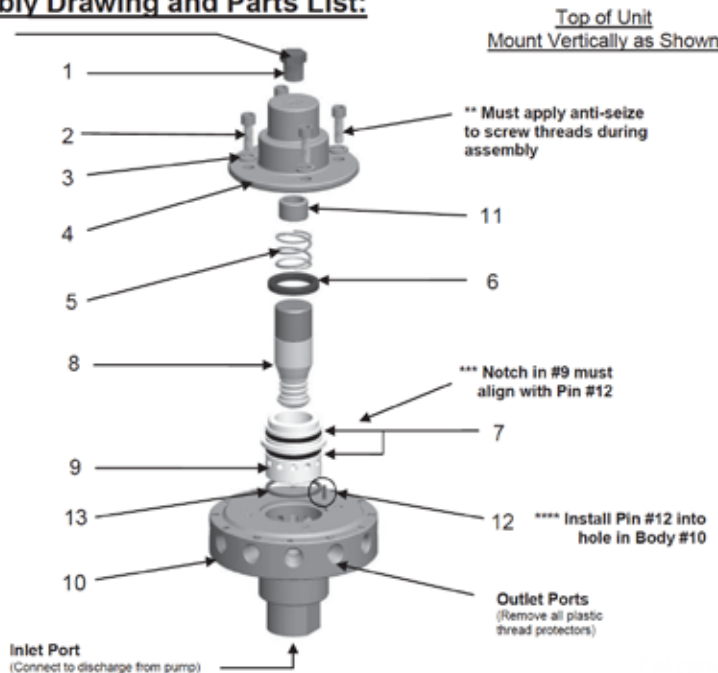
B-1 = 3/8" SS Fitting

L = 5/8" Plastic Fitting

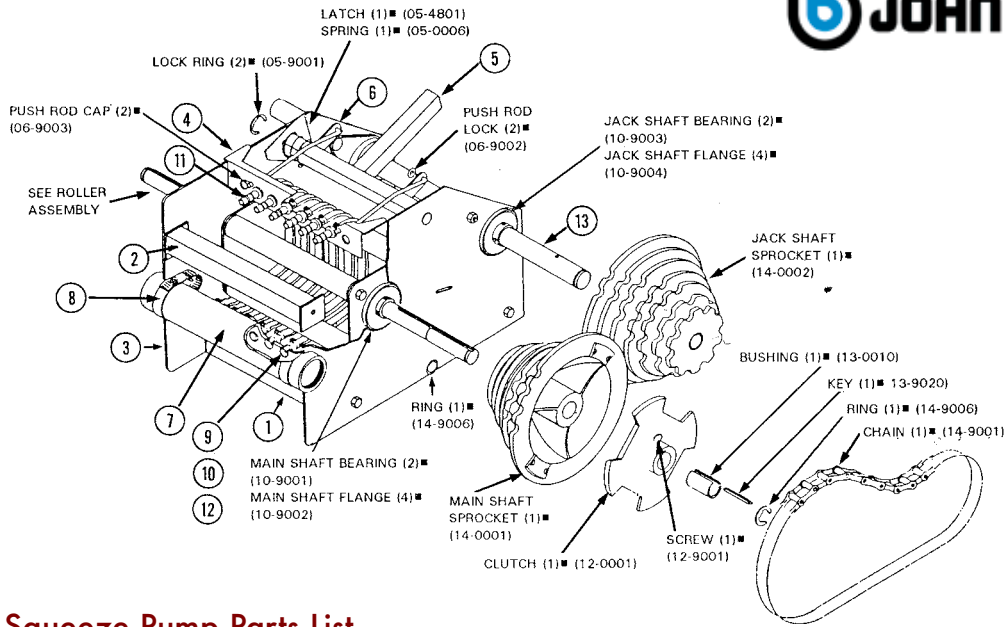
L-1 = 5/8" SS Fitting

Assembly Drawing and Parts List:

* Plug must be vented for proper operation - do not replace with solid plug



- 1 Vented Cap Plug (* see note)
- 2 Socket Head Screw(** see note)
- 3 Lock Washer
- 4 Cap
- 5 Spring
- 6 Needle Seal
- 7 O-ring
- 8 Needle
- 9 Sleeve (***) see note)
- 10 Body - NPT ports
Body - Push connect ports (3/8")
Cartridge - 3/8" push connect
Push conn O-Ring
- 11 Spacer
- 12 3/32 x 3/8 Roll Pin(**** see note)
- 13 Sleeve Seal

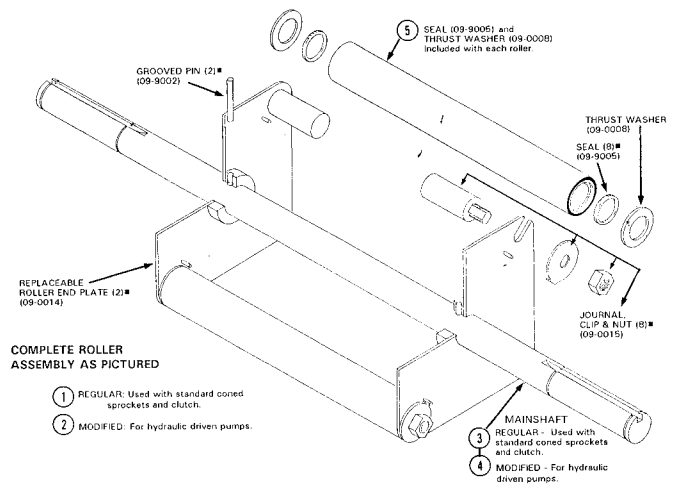


Standard Squeeze Pump Parts List

Item#	Description	Req	8B	8L	12B	12L	16B	20B	24B
1	Base Channel	2	01-0810	01-0820	01-0820	01-1220	01-1610	01-1620	01-2410
2	Frame Support	1	02-0810	02-0820	02-0820	02-1220	02-1610	02-1620	02-2410
3	Frame End Plate	2	03-1610	03-1610	03-1610	03-1610	03-1610	03-2410	03-2410
4	Outlet Ftg Rack	1	04-0810	04-0820	04-1210	04-1220	04-1610	04-1620	04-2410
5	Tube Tension Rack	1	05-0810	05-0820	05-1210	05-1220	05-1610	05-2010	05-2410
6	Push Rod	2	06-0011	06-0021	06-0011	06-0021	06-0021	06-0021	06-0011
7	Supply Manifold	1	07-0810	07-0820	07-1210	07-1220	07-1610	07-2010	07-2410
8	Manifold Clamp	2	07-9001	07-9001	07-9001	07-9002	07-9001	07-9002	07-9002
9	Squeeze Tube		08-0010	08-0020	08-0010	08-0020	08-0010	08-0011	08-0010
10	Inlet Fitting	P	08-0011	08-0021	08-0011	08-0021	08-0011	08-0015	08-0011
	Inlet Fitting	SS	08-0015	08-0016	08-0015	08-0016	08-0015	08-012	08-0015
11	Outlet Fitting	P	08-0012	08-0022	08-0012	08-0022	08-0012	08-0013	08-0012
	Outlet Fitting	SS	08-0013	08-0017	08-00132	08-0017	08-0013	08-0013	08-0013
12	SS Screw Clamp		08-9003	08-9004	08-9003	08-9003	08-9003	08-9003	08-9003
13	Jack Shaft		10-0811	10-08221	10-0821	10-1221	10-1411	10-2011	10-2411

Standard Parts

Pump#	Roller	Roller Assy.	Mainshaft
8B	09-0811	09-0810	10-0810
8L	09-0821	09-0820	10-0820
12B	09-0821	09-0820	10-0820
12L	09-1221	09-1220	10-12220
16B	09-1611	09-1610	10-1620
16L	09-1621	09-1620	10-1620
20B	09-1621	09-1620	10-1620
24B	09-2411	09-2410	10-2410





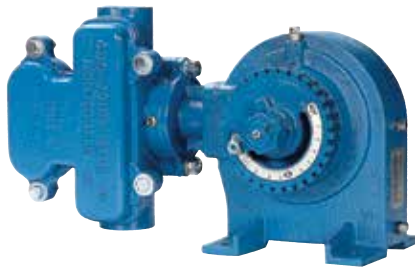
John Blue NGP New Generation Piston Pumps

1. **Single Valve Cap** – One piece valve cap allows for easy check valve access without removing the hoses. Easy to service in the field.
2. **Outboard Cylinder** – Plunger packing can be inspected or replaced in the field without removing hoses.
3. **Main Shaft Seals** – The newly designed main shaft seals incorporate a dual that is enclosed in a grease cavity to flush out contamination, resulting in a longer life.
4. **Check Valve Design** – A positive check o-ring seal offers enhanced priming and is more forgiving in handling debris, which ensures accuracy.

5. **Universal Piston Rod Seals** – Three Stage Dynamic Design – Primary wet end “V” packing, primary crankcase “V” packing and secondary crankcase o-ring seals work in unison to offer multiple stage protection between the wet end and crankcase. This reduces pump weepage while maximizing pump life.
6. **Standard Main Shafts** – Standard single and double piston pump crankshafts are universal in the NGP line for modular upgrades such as clutches and ON-THE-GO variable rate. (Modules to be released soon.)

NGP-6055 Single Piston

- 21 GPM rated flow
- 120 PSI rated pressure
- 550 RPM maximum
- 1½" inlet and 1" outlet



(Gasket Kit - 115788)

NGP-7050 Single Piston

- 34 GPM rated flow
- 120 PSI rated pressure
- 450 RPM maximum
- 1½" inlet and 1" outlet



* **Parts Breakdown**
on following pages

116205-91 Direct Hydraulic Drive for Piston Pumps

- Lower cost and more compact solution for variable rate piston pump drives
- User can supply their own SAE A 2-bolt motor or a hydraulic motor/PWM manifold kit is available from John Blue



NGP-9055 Double Piston

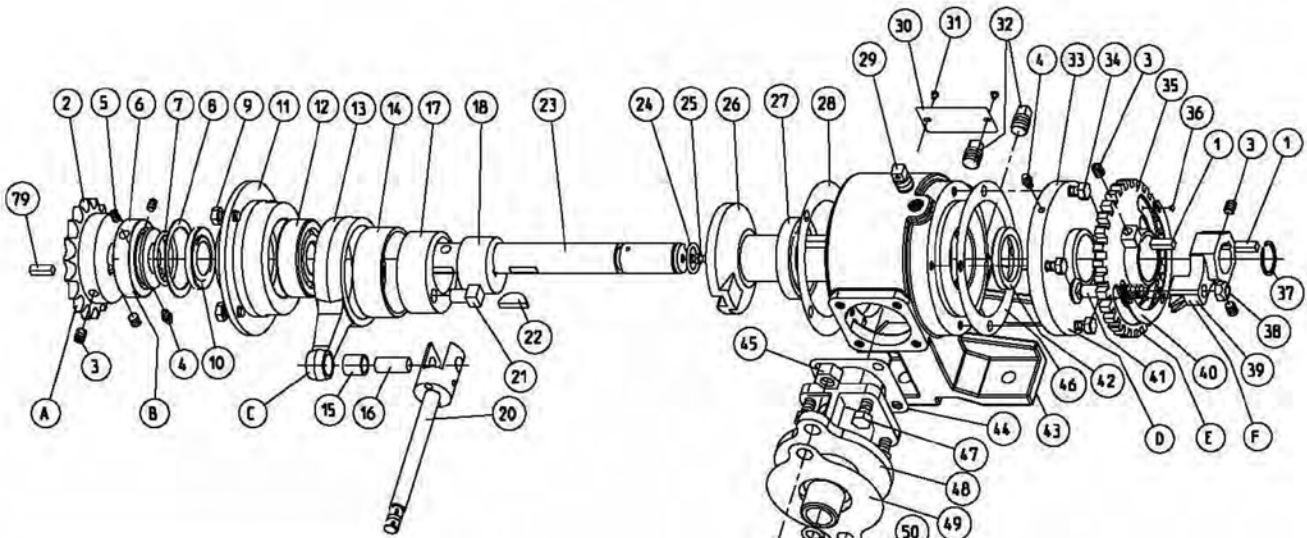
- 68 GPM rated flow
- 120 PSI rated pressure
- 450 RPM maximum
- 2" inlet and 1½" outlet



PARTS LISTING – NGP- 405x / 605x / 705x Series

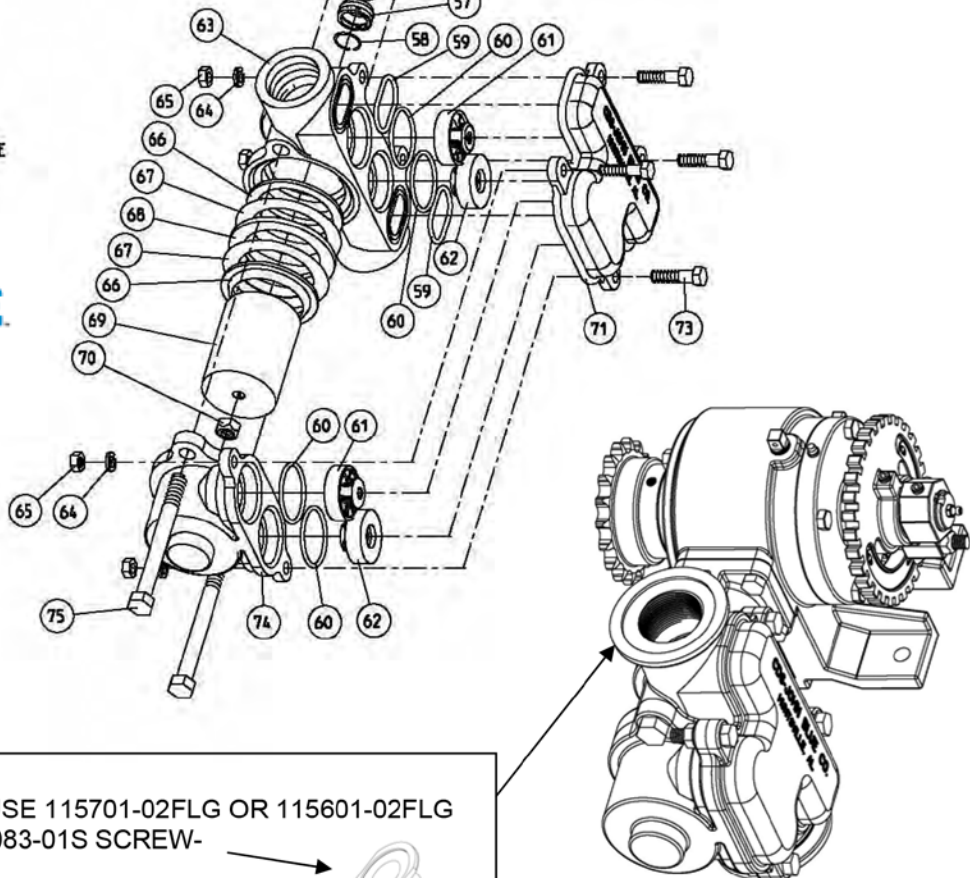
ITEM	PART DESCRIPTION	NGP-4050 PART #	NGP-6050 PART #	NGP-7050 PART #	ITEM	PART DESCRIPTION	NGP-4050 PART #	NGP-6050 PART #	NGP-7050 PART #
1	KEY	L-1020	L-1020	L-1020	55	STUFFING BOX	116070-01	115790-01	115690-01
2	SPROCKET RC50-18T	112661-01	112661-01	112661-01	-S	STAINLESS	N/A	115790-01S	115690-01S
-K	NO SPROCKET	NOT USED	NOT USED	NOT USED	56	INBOARD CYL. GASK.	116076-01	115710-01	115710-01
-R	SPROCKET RC40-18T	113905-01	113905-01	113905-01	-U	FUMIGANT	N/A	104826-02	104826-02
3	5/16x3/8 SETSCREW	90532	90532	90532	57	STUFF. BOX INSERT	116068-01	L-1031-2	L-1031-2
4	GREASE FITTING	H-28	H-28	H-28	-S	STAINLESS	NOT USED	NOT USED	NOT USED
5	5/16x3/8 SETSCREW	90532	90532	90532	58	PACKING - SNAP RING	112698-01	L-1042	L-1042
6	SPROCKET SPACER	115625-01	115625-01	115625-01	-S	STAINLESS AND FUM.	N/A	116210-01	116210-01
7	O-RING	S-316	S-316	S-316	59	O-RING	S-316	S-316	115604-01
8	THRUST WASHER	115626-01	115626-01	115626-01	-S	STAINLESS	N/A	104824-01	115612-01
9	5/16x1 HEX BOLT	90637	90637	90637	-U	FUMIGANT	N/A	104824-01	115612-01
10	OIL SEAL	115621-01	115621-01	115621-01	60	O-RING	S-316	L-3031	A-2848
11	COVER PLATE	115723-01	115723-01	115623-01	-S	STAINLESS	N/A	114768-01	114870-01
12	BEARING	L-3019	L-3019	L-3019	-U	FUMIGANT	N/A	114768-01	114870-01
13	CONNECTING ROD	L-1008-A	L-1008-A	113630-01	61	DISCHARGE VALVE	116127-91	115707-91	115607-91
14	JOURNAL BEARING	L-928	L-928	113629-01	62	SUCTION VALVE	116126-91	115706-91	115606-91
15	ROD BUSHING	113588-01	113588-01	113588-01	63	INBOARD CYLINDER	N/A	115701-02	115601-02
16	ROD PIN	105895-01	105895-01	105895-01	-F	FLANGED	116071-01	115701-02FLG	115601-02FLG
17	ECCENTRIC - OUTER	L-1013-A	L-1013-A	113633-01	-S	STAINLESS	N/A	115701-02S	115601-02S
18	ECCENTRIC - INNER	L-1015	L-1015	L-3017	64	3/8 LOCK WASHER	93024	93024	93024
19	NOT USED				-S	STAINLESS	N/A	93025	93025
20	PISTON ROD ASM	116078-91	115712-91	105900-91	65	3/8 HEX NUT	92024	92024	92024
21	ECCENTRIC PIN	L-3004	L-3004	L-3004	66	PLUNGER – PACKING	112696-01	L-1045-V	L-1045-V
22	WOODRUFF KEY	108093-01	108093-01	A-4333	-B	BUNA PACKING	N/A	L-1045-A	L-1045-A
23	CRANKSHAFT	115614-01	115614-01	115614-01	67	PLUNGER – GASKET	112712-01	L-1098	L-1098
24	O-RING	L-1022	L-1022	L-1022	-U	FUMIGANT	N/A	114769-01	114769-01
25	GREASE ZERK	115647-01	115647-01	115647-01	68	PLUNGER – WASHER	112695-01	L-1044-A	L-1044-A
26	SETTING SLEEVE	115718-01	115718-01	115618-01	69	PLUNGER	112700-91	103290-91	112816-91
27	BEARING	L-1007-A	L-1007-A	L-1007-A	70	PLUNGER – LOCKNUT	92125	L-1047	L-1047
28	GASKET – DRIVE SIDE	L-1006	L-1006	L-3002	71	VALVE COVER	116073-01	115703-01	115603-01
29	VENT PLUG	S-350	S-350	S-350	-S	STAINLESS	N/A	115703-01S	115603-01S
30	NAME PLATE	111958-01	111958-01	111958-01	72	NOT USED			
31	DRIVE SCREW	A-3557	A-3557	A-3557	73	3/8 X 1-1/2 HEX BOLT	90911	90911	90911
32	OIL PLUG	C-431-B	C-431-B	C-431-B	-S	STAINLESS	N/A	90654	90654
33	FLANGE COVER	115724-01	115724-01	115724-01	74	OUTBOARD CYL.	116072-01	115702-01	115602-01
34	5/16 X 1 HEX BOLT	90637	90637	90637	-S	STAINLESS	N/A	115702-01S	115602-01S
35	SETTING HUB	115627-01	115627-01	115627-01	75	1/2 HEX BOLT	90704	90704	90705
36	SCREW	A-368	A-368	A-368	-S	STAINLESS (2 BOLTS)	N/A	90693/90687	90693/90687
37	SNAP RING	115791-01	115791-01	115791-01	76	NOT USED			
38	3/8 SELF-LOCK NUT	A-3097	A-3097	A-3097	NOT USED				
39	SETTING POINTER	115628-01	115628-01	115628-01	77	NOT USED			
40	SETTING SCALE	115645-01	115645-01	115645-01	NOT USED				
41	3/8x2-1/4 CARR.BOLT	115646-01	115646-01	115646-01	NOT USED				
42	OIL SEAL	115622-01	115622-01	115622-01	78	NOT USED			
43	CRANKCASE	115720-01	115720-01	115620-01	NOT USED				
44	CROSSHEAD GASK.	115711-01	115711-01	115611-01	79	SPROCKET KEY	106493-01	106493-01	106493-01
45	1/2 HEX NUT	92029	92029	92029	A	RC50-18T SPRKT ASM	106532-01	106532-01	106532-01
46	GASKET – FLG COVER	L-1006	L-1006	L-1006	-K	NO SPROCKET	NOT USED	NOT USED	NOT USED
47	HEX BOLT	90637	90637	90660	-R	RC40-18T SPRKT ASM	113907-01	113907-01	113907-01
48	CROSSHEAD GUIDE	116069-01	115700-01	115600-01	B	SPRKT. SPACER ASM	115624-91	115624-91	115624-91
49	STUFF. BOX GASK.	116075-01	115610-01	115610-01	C	CONN. ROD ASM	L-1008-B	L-1008-B	113645-91
-U	FUMIGANT	N/A	104828-02	104828-02	D	FLANGE COVER ASM	115725-91	115725-91	115725-91
50	O-RING	116074-01	111943-01	111943-01	E	SET HUB ASM	115629-91	115629-91	115629-91
51	PACKING 'V' SET	L-1113	L-1109	L-1109	F	SET POINTER ASM	115630-91	115630-91	115630-91
	@ CROSSHD GUIDE	USE 4 'V's	N/A	N/A	G	GASKET KIT	116134	115788	115688
-U	FUMIGANT	N/A	L-1109-U	L-1109-U	-S	GASKET KIT - SS	N/A	115788-S	115688-S
52	PACKING WASHER	112694-01	L-1041	L-1041	-U	GASKET KIT - FUM	N/A	115788-U	115688-U
53	PACKING SPRING	112697-01	L-1063	L-1063	H	OPERATORS KIT	115787	115787	115787
54	GREASE ZERK	H-30	H-30	H-30	N/S	SLIDE CHART	115698-91	115698-91	115698-91
					N/S	SETTING WRENCH	115631-01	115631-01	115631-01

NGP- 405x / 605x / 705x SERIES



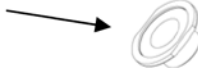
ITEM	DESCRIPTION	INCLUDES ITEM #'S
A	SPROCKET	2 3
B	SPACER	4 5 6 7 8
C	CONNECTING ROD	13 14 15
D	FLANGE COVER	4 33
E	SETTING HUB	3 35 36 40
F	SETTING POINTER	3 39
G	GASKET KIT	7 8 10 15 24 28 37 42 44 49 50 51 52 53 56 58 59 60 66 67 68
H	OPERATORS KIT	NOT SHOWN

- G — GASKET KIT
- H — OPERATORS KIT
 - MANUAL
 - WRENCH
 - SLIDE CHART
 - MOUNTING HARDWARE



220 FLANGE ADAPTERS:

- CAST IRON PUMPS USE 115701-02FLG OR 115601-02FLG
- STAINLESS USE 116083-01S SCREW-IN ADAPTERS

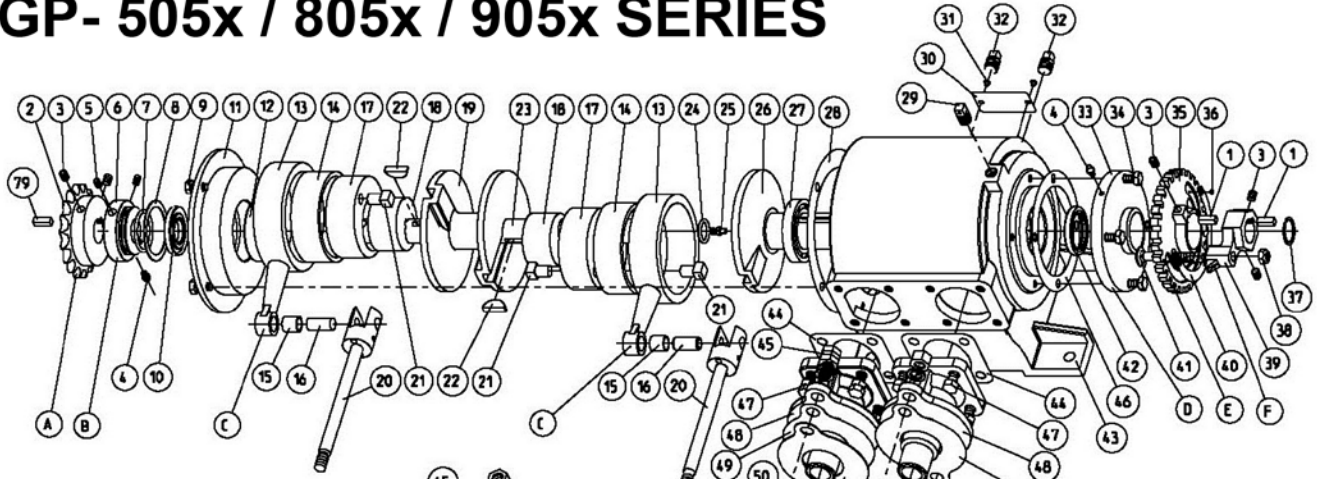


PARTS LISTING – NGP- 505x / 805x / 905x SERIES

PUMPS & METERS

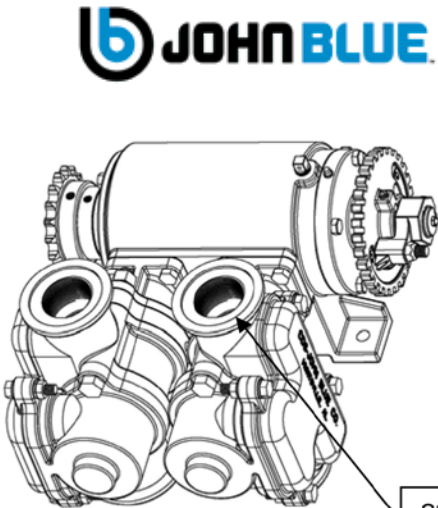
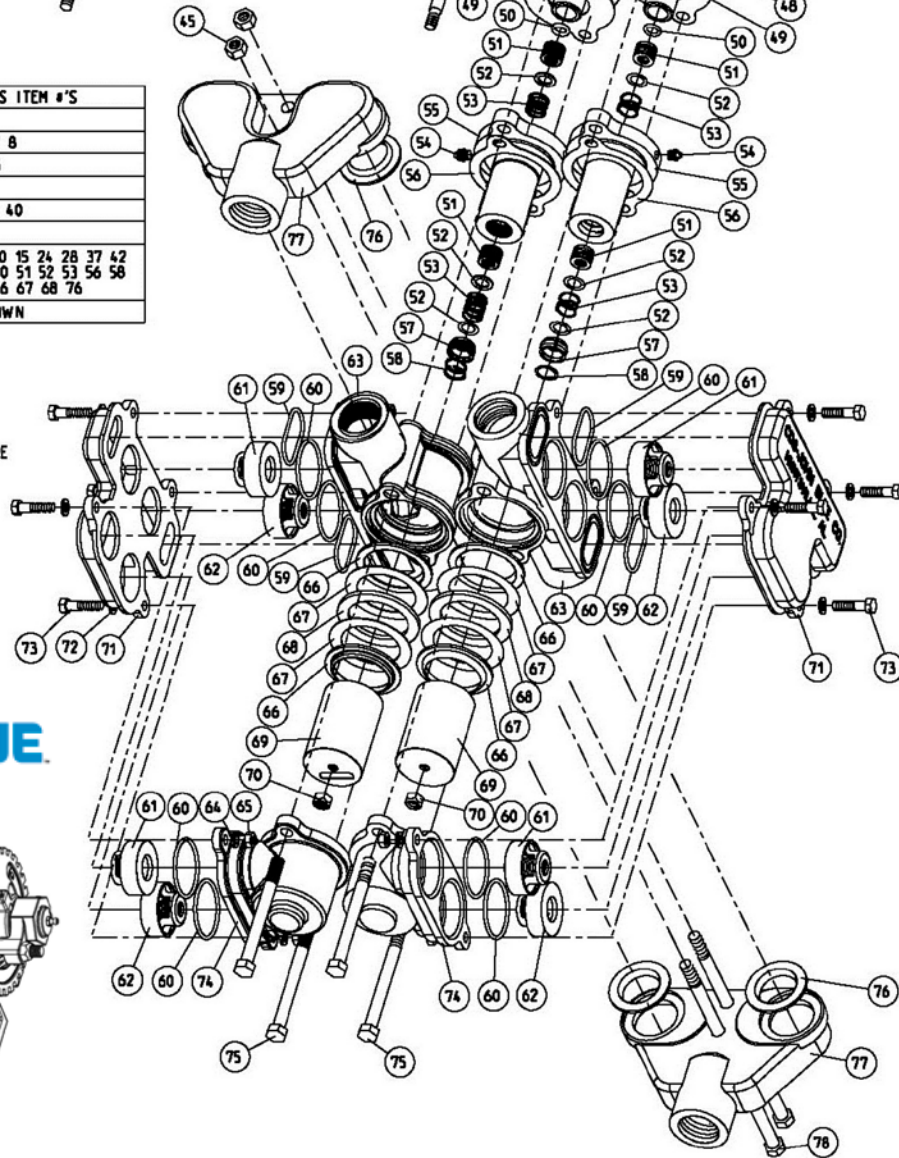
ITEM	PART DESCRIPTION	NGP-5050 PART #	NGP-8050 PART #	NGP-9050 PART #	ITEM	PART DESCRIPTION	NGP-5050 PART #	NGP-8050 PART #	NGP-9050 PART #
1	KEY	L-1020	L-1020	L-1020	55	STUFFING BOX	116070-01	115790-01	115690-01
2	SPROCKET RC50-18T	112661-01	112661-01	112661-01	-S	STAINLESS	N/A	115790-01S	115690-01S
	-K NO SPROCKET	NOT USED	NOT USED	NOT USED	56	INBOARD CYL. GASK.	116076-01	115710-01	115710-01
	-R SPROCKET RC40-18T	113905-01	113905-01	113905-01	-U	FUMIGANT	N/A	104826-02	104826-02
3	5/16x3/8 SETSCREW	90532	90532	90532	57	STUFF. BOX INSERT	116068-01	L-1031-2	L-1031-2
4	GREASE FITTING	H-28	H-28	H-28	-S	STAINLESS	NOT USED	NOT USED	NOT USED
5	5/16x3/8 SETSCREW	90532	90532	90532	58	PACKING - SNAP RING	112698-01	L-1042	L-1042
6	SPROCKET SPACER	115625-01	115625-01	115625-01	-S	STAINLESS AND FUM.	N/A	116210-01	116210-01
7	O-RING	S-316	S-316	S-316	59	O-RING	S-316	S-316	115604-01
8	THRUST WASHER	115626-01	115626-01	115626-01	-S	STAINLESS	N/A	104824-01	115612-01
9	5/16x1 HEX BOLT	90637	90637	90637	-U	FUMIGANT	N/A	104824-01	115612-01
10	OIL SEAL	115621-01	115621-01	115621-01	60	O-RING	S-316	L-3031	A-2848
11	COVER PLATE	115723-01	115723-01	115623-01	-S	STAINLESS	N/A	114768-01	114870-01
12	BEARING	L-3019	L-3019	L-3019	-U	FUMIGANT	N/A	114768-01	114870-01
13	CONNECTING ROD	L-1008-A	L-1008-A	113630-01	61	DISCHARGE VALVE	116127-91	115707-91	115607-91
14	JOURNAL BEARING	L-928	L-928	113629-01	62	SUCTION VALVE	116126-91	115706-91	115606-91
15	ROD BUSHING	113588-01	113588-01	113588-01	63	INBOARD CYLINDER	N/A	115701-02	115601-02
16	ROD PIN	105895-01	105895-01	105895-01	-F	FLANGED	116071-01	115701-02FLG	115601-02FLG
17	ECCENTRIC - OUTER	L-1013-A	L-1013-A	113633-01	-S	STAINLESS	N/A	115701-02S	115601-02S
18	ECCENTRIC - INNER	L-1015	L-1015	L-3017	64	3/8 LOCK WASHER	93024	93024	93024
19	TRANSFER SLEEVE	115783-01	115783-01	115683-01	-S	STAINLESS	N/A	93025	93025
20	PISTON ROD ASM	116078-91	115712-91	105900-91	65	3/8 HEX NUT	92024	92024	92024
21	ECCENTRIC PIN	112686-01	112686-01	L-3004	66	PLUNGER – PACKING	112696-01	L-1045-V	L-1045-V
22	WOODRUFF KEY	108093-01	108093-01	A-4333	-B	BUNA PACKING	N/A	L-1045-A	L-1045-A
23	CRANKSHAFT	115681-01	115681-01	115681-01	67	PLUNGER – GASKET	112712-01	L-1098	L-1098
24	O-RING	L-1022	L-1022	L-1022	-U	FUMIGANT	N/A	114769-01	114769-01
25	GREASE ZERK	115647-01	115647-01	115647-01	68	PLUNGER – WASHER	112695-01	L-1044-A	L-1044-A
26	SETTING SLEEVE	115718-01	115718-01	115618-01	69	PLUNGER	112700-91	103290-91	112816-91
27	BEARING	L-1007-A	L-1007-A	L-1007-A	70	PLUNGER – LOCKNUT	92125	L-1047	L-1047
28	GASKET – DRIVE SIDE	L-1006	L-1006	L-3002	71	VALVE COVER	116073-01	115703-01	115603-01
29	VENT PLUG	S-350	S-350	S-350	-S	STAINLESS	N/A	115703-01S	115603-01S
30	NAME PLATE	111958-01	111958-01	111958-01	72	NOT USED			
31	DRIVE SCREW	A-3557	A-3557	A-3557	73	3/8 X 1-1/2 HEX BOLT	90911	90911	90911
32	OIL PLUG	C-431-B	C-431-B	C-431-B	-S	STAINLESS	N/A	90654	90654
33	FLANGE COVER	115724-01	115724-01	115724-01	74	OUTBOARD CYL.	116072-01	115702-01	115602-01
34	5/16 X 1 HEX BOLT	90637	90637	90637	-S	STAINLESS	N/A	115702-01S	115602-01S
35	SETTING HUB	115627-01	115627-01	115627-01	75	1/2 HEX BOLT	90704	90704	90705
36	SCREW	A-368	A-368	A-368	-S	STAINLESS (2 BOLTS)	N/A	90693/9068	90693/9068
37	SNAP RING	115791-01	115791-01	115791-01	76	MANIFOLD GASKET	N/A	112696-01	112696-01
38	3/8 SELF-LOCK NUT	A-3097	A-3097	A-3097	-DR	DUAL RATE (CYLS)	N/A	NOT USED	NOT USED
39	SETTING POINTER	115628-01	115628-01	115628-01	77	MANIFOLD	N/A	115796-01	115696-01
40	SETTING SCALE	115645-01	115645-01	115645-01	-S	STAINLESS	N/A	115796-01S	115696-01S
41	3/8x2-1/4 CARR.BOLT	115646-01	115646-01	115646-01	-DR	DUAL RATE (CYLS)	N/A	NOT USED	NOT USED
42	OIL SEAL	115622-01	115622-01	115622-01	78	1/2 HEX BOLT	N/A	115793-01	115693-01
43	CRANKCASE	115780-01	115780-01	115680-01	-DR	DUAL RATE (CYLS)	N/A	NOT USED	NOT USED
44	CROSSHEAD GASK.	115711-01	115711-01	115611-01	79	SPROCKET KEY	106493-01	106493-01	106493-01
45	1/2 HEX NUT	92029	92029	92029	A	RC50-18T SPROCKET	106532-01	106532-01	106532-01
46	GASKET- FLG COVER	L-1006	L-1006	L-1006	-K	NO SPROCKET	NOT USED	NOT USED	NOT USED
47	HEX BOLT	90637	90637	90860	-R	RC40-18T SPROCKET	113907-01	113907-01	113907-01
48	CROSSHEAD GUIDE	116069-01	115700-01	115600-01	B	SPRKT. SPACER ASM	115624-91	115624-91	115624-91
49	STUFF. BOX GASK.	116075-01	115610-01	115610-01	C	CONN. ROD ASM	L-1008-B	L-1008-B	113645-91
-U	FUMIGANT	N/A	104828-02	104828-02	D	FLANGE COVER ASM	115725-91	115725-91	115725-91
50	O-RING	116074-01	111943-01	111943-01	E	SET HUB ASM	115629-91	115629-91	115629-91
51	PACKING V SET	L-1113	L-1109	L-1109	F	SET POINTER ASM	115630-91	115630-91	115630-91
-U	@ CROSSHD GUIDE	USE 4 "V"s	N/A	N/A	G	GASKET KIT	116135	115789	115689
	FUMIGANT	N/A	L-1109-U	L-1109-U	-S	GASKET KIT - SS	N/A	115789-S	115689-S
52	PACKING WASHER	112694-01	L-1041	L-1041	-U	GASKET KIT - FUM	N/A	115789-U	115689-U
53	PACKING SPRING	112697-01	L-1063	L-1063	H	OPERATORS KIT	115787	115787	115787
54	GREASE ZERK	H-30	H-30	H-30	N/S	SLIDE CHART	115698-91	115698-91	115698-91
					N/S	SETTING WRENCH	115631-01	115631-01	115631-01

NGP- 505x / 805x / 905x SERIES



ITEM	DESCRIPTION	INCLUDES ITEM #'S
A	SPROCKET	2 3
B	SPACER	4 5 6 7 8
C	CONNECTING ROD	13 14 15
D	FLANGE COVER	4 33
E	SETTING HUB	3 35 36 40
F	SETTING POINTER	3 39
G	GASKET KIT	7 8 10 15 24 28 37 42 44 49 50 51 52 53 56 58 59 60 66 67 68 76
H	OPERATORS KIT	NOT SHOWN

- (G) — GASKET KIT
- (H) — OPERATORS KIT
 - MANUAL
 - WRENCH
 - SLIDE CHART
 - MOUNTING HARDWARE



220 FLANGE ADAPTERS:

- CAST IRON PUMPS USE 115701-02FLG OR 115601-02FLG ON "DR" PUMPS WITHOUT MANIFOLD
- STAINLESS AND MANIFOLDS USE 116083-01S SCREW-IN ADAPTERS



AGRI-INJECT



Stainless Mister Mist'r

Injection of higher volumes of fertilizers and ag chemicals

- Size: 1/2" x 8"
- Stainless body, Stainless spring, Viton seal
- Pipe Size: 3" - 12"
- Volume Capacity: 15 - 300 GPH
- 1/2" FNPT inlet, 3/4" MNPT insertion

Part#

820-50-016256-1



Classic Mister Mist'r

Injection of low/medium rates of fertilizers and ag chemicals

- Polypropylene body, Stainless spring, Viton seal
- Pipe Size: 6" - 12"
- Volume Capacity: 0.5 - 70 GPH
- 1/4" FNPT inlet, 3/4" MNPT insertion

Part#

820-02-008000-0



Classic Bleeder Valve

Designed to work with the classic and mini Mister Mist'r

- Polypropylene body, Viton seals
- Connections: 1/4" FNPT inlet, 1/4" MNPT insertion
- Bleed Tube conn: 3/16" o.d. x 1/8" i.d.

Part#

821-02-008008-0



Ultra Mister Mist'r & Bleeder Assemblies

Injection of medium rates of fertilizers and ag chemicals

- Polypropylene body, Proprietary elasotmer spring seal
- Pipe Size: 6" - 12"
- Volume Capacity: 3 - 110 GPH
- 1/2" MNPT inlet, 3/4" MNPT insertion

Part#	Description
820-02-181012-0	3/8" JG Ultra Bleeder
820-02-181016-2	1/2" Hose barb Ultra Bleeder
820-02-008100-0	Ultra Mister Mist'r
849-07-016012-0	12' Hose w/ 3/8" Ends

Fertigation System (MacRoy D50 & G55 Series)

- Mechanically actuated diaphragm pump
- Includes: switch, strainer, mister, pump, base, cord
- Range: 5.5 - 55 GPH



Part#	Description	Weight
882-34-200050-0	480VAC	87lbs.
882-34-111055-0	480VAC 3ph	87lbs.
882-21-111055-0	12VDC	90lbs.



Insectigator System (with Fig Pump)

One person portable. Includes filter, calibration tube and more

- 33/44" H x 16" W x 33" L
- Includes: 2 switches and mixer

Part#	Description	Size	LBS.
887-21-212002-0	12V DC	20 gal.	43
887-34-212002-0	480V AC 3ph	20 gal.	46
887-34-312002-0	480V AC 3ph	30 gal.	77
887-34-312902-0	480V AC 3ph	30 gal.	77

E-Z Meter pumps accurately add fertilizers, herbicides or pesticides through your existing irrigation system. All E-Z Meter pumps have earned a reputation for long, trouble free life and easy maintenance. John Blue Pumps feature totally enclosed motors, sealed gearboxes, self-lubricating bearings, high corrosion-resistant materials and rugged construction.

John Blue offers a choice of pumps that cover all practical injection rates. 0-7-1/2 GPH, 5-30 GPH, 10-100 or 200GPH handle the widest scope of material applications.

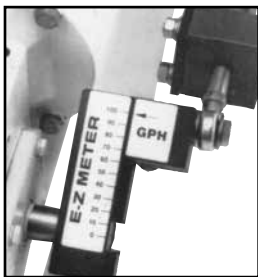
Pumps can be powered by 110-220V single phase motors, 220-440V three phase motors or fuel efficient 3 or 4hp gasoline engines. E-Z Meter belt driven pumps have brackets that allow the pump to be run directly from an irrigation pump gear reducer.

Simplex Pumps

Drive	5-30 GPH	10-100 GPH
Belt	01620	01630
Single Phase	10620	11630
Three Phase	20620	21630
12V	30620	30630



*** Parts Breakdown on next page**



Pump calibration assembly is field adjustable with a wrench. Positive lock calibration visually indicates the precise flow injected. Wear and maintenance is reduced by the self lubricated rod end bearing.

Common Parts

Description	5-30 GPH	10-100 GPH
Piston Cup Assy.	54-2001	54-3001
Poly Check Valve	56-0005	56-0004
S.S. Check Valve	56-0006	56-0020
Cylinder Tube	54-0021	54-0020
Complete Cylinder	54-2000	54-3000
Rod End Bearing	54-9001	54-9001
Cylinder Rod Bush	54-0031	54-0031
Calibration Scale	50-3001	50-1001
Piston Rod	54-0001	54-0001
Pivot Bushing	54-0033	54-0033
Poly Manifold	56-0002	56-0001

Duplex Pumps

Delivery Rate	Single Phase	Three Phase	Belt Drive
0-7.5/5-30	10712	20712	01712
0-7.5/10-100	10713	20713	01713
5-30/5-30	10722	20722	01722
5-30/10-100	10723	20723	01723
10-100/10-100	10633	20633	01633



115026-HS
Stainless Injection
Check Valve Assembly



CV-1310
Poly Injection
Check Valve Assembly



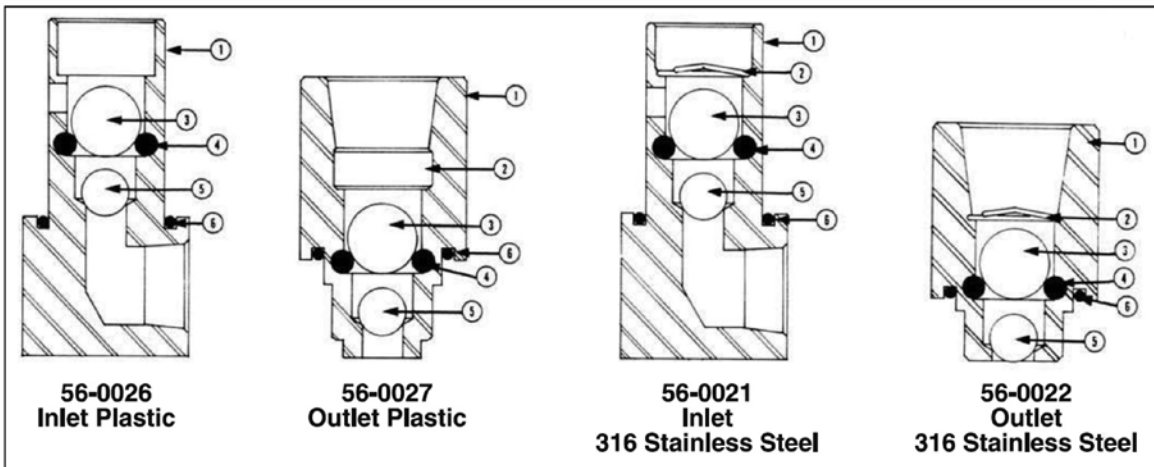
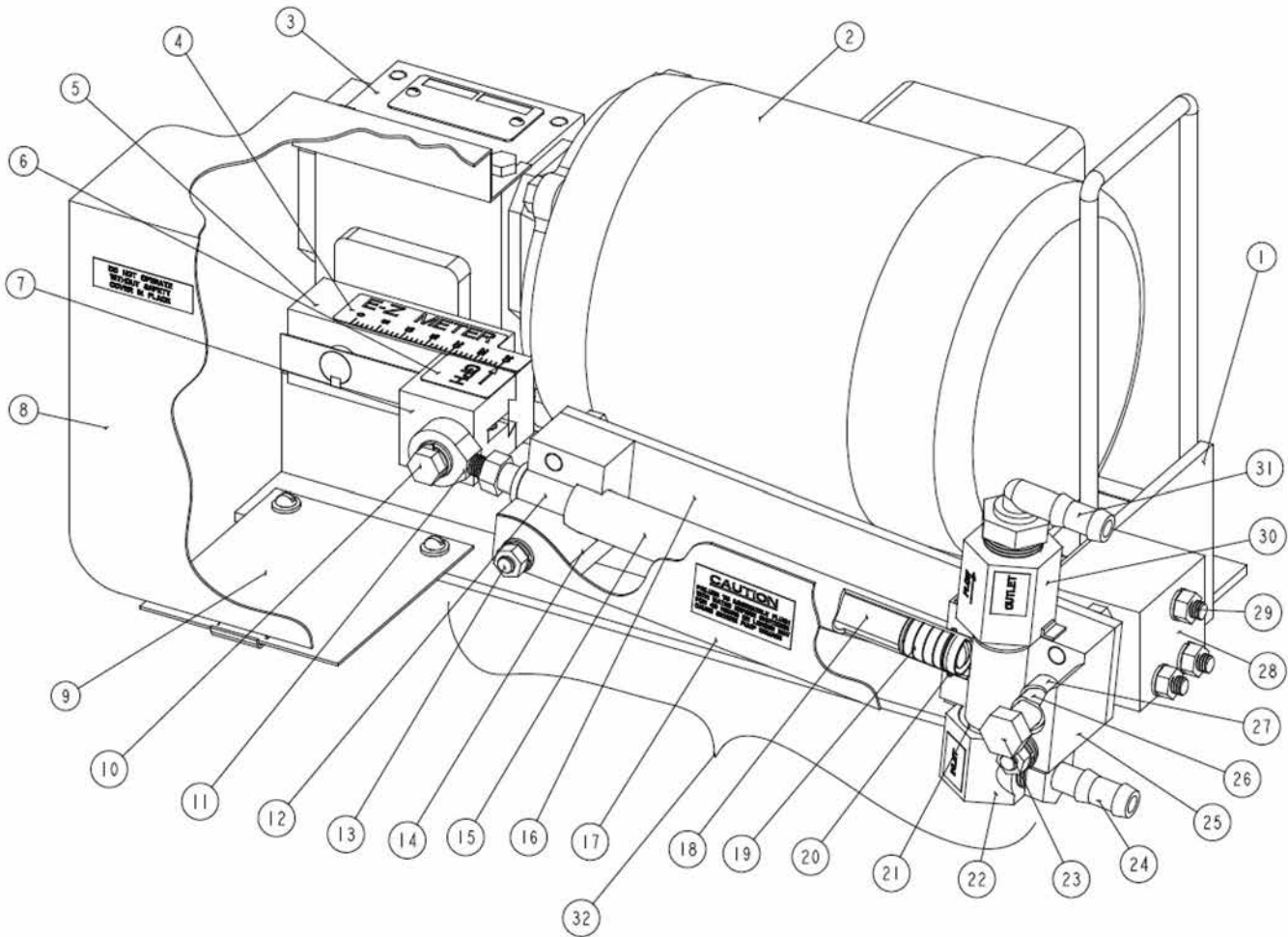
CV-1310-BL
Poly Injection
Check Valve Assembly
bleeder valve and reducer

John Blue Check Valves

Part#	Description
115026-HS	1/4" MPTX 1/4" FPT
CV-1310	1/4" NPT female inlet x 1/2" male outlet
CV-1310-BL	1/4" NPT female inlet x 1/2" male outlet
116224-01	Bleeder Valve -PVC body with viton seals

JOHN BLUE INJECTION PUMP PARTS

Item #	Description		5-30 GPH	10-100 GPH
1 *	Base Plate	Electric Motor & Belt Drive	52-3001	
		Gasoline Engine	52-5001	
2	Electric Motor	3 Phase - 1/2 Hp	114902-01	
		1 Phase - 1/2 Hp	53-9004	
3 *	Gear Box	Electric Motor	53-9001	
		Belt and Gas Engine	53-9003	
4	Calibration Scale		50-3001	50-1001
5 *	Crank Arm - Less Calibration Scale		50-0002	
6	Calibration Arrow		50-0001	
7	Crank Arm Adjuster - Less Arrow		50-0004	50-0004
8 *	Safety Cover		51-0001	
9 *	Safety Cover Base		51-0002	
10	Crank Bolt, Lock & Flat Washer Hardware		54-0069	54-0069
11	Rod End Bearing		54-9001	54-9001
12	Cylinder Rod Bushing	Stainless Cylinder	54-0031	54-0031
		Teflon Cylinder	54-0031	54-0031
13	Cylinder Mounting Block Hardware	Bolt	54-9009	
		Lock Washer	S-3554	
		Nut	S-3566-2	
14	Cylinder Mount Block w/ Bushing	Stainless Cylinder	54-0023	54-0018
		Teflon Cylinder	54-0023	54-0018
15	Cylinder Tube	Stainless Cylinder	54-0021	54-0020
		Teflon Cylinder	54-0021-S	54-0020-S
16	Cylinder Mounting Plate		54-0063	
17	Front Plate		54-0068	
18	Cylinder Piston Rod		54-0001	54-0001
19	Piston Cup Assembly		54-2001-A	54-3001-A
20	O'ring - Cylinder Seal	Stainless Cylinder	54-9012	54-9011
		Teflon Cylinder	54-9012	54-9011
21	O'ring - Valve Seal		56-9031	
22	Inlet Valve Includes O'ring # 21	Stainless Steel	56-0021	
		Plastic	56-0026	
23	Pivot Bolt		55-9001	
24	Inlet Fitting		56-9020	
25	Cylinder Pivot Block w/ Bushing # 27 & O'ring # 20	Stainless Cylinder	54-0058	54-0059
		Teflon Cylinder	54-0058	54-0059
26	Pivot Bolt Sleeve		55-9001-A	
27	Roller Bushing		09-0007	
28	Pivot Mounting Block		55-0003	
29	Pivot Mount Block Hardware	Bolt	54-9009	
		Lock Washer	S-3554	
		Nut	S-3566-2	
30	Outlet valve Includes O'ring # 21	Stainless Steel	56-0022	
		Plastic	56-0027	
31	Outlet Fitting		56-9053	
32	Cylinder Assy. Without Ck Valve Items # 11 thru 20 & 25	Stainless Cylinder	54-2100	54-3100
		Teflon Cylinder	54-2100-1	54-3100-1
	Cylinder Assy. w/ Plastic Ck Valve Items # 11-22, 24-25, & 30-31	Stainless Cylinder	54-2110	54-3110
		Teflon Cylinder	54-2110-1	54-3110-1
Not Shown	Gas Engine Special Components Req' Gas Base and Gearbox	Gas Engine - 4 Hp	53-9013	
		Coupling for Gas Engine	53-9017	
Not Shown	Belt Drive Special Components Req' Belt Base and Gearbox	Belt Drive Mounting Bracket	52-1000	
		Adjustable Pulley - Belt Drive	53-9018	
Not Shown	Duplex Conversion Kit ** Items # 4 thru 31	Stainless Cylinder	50520	50530
		Teflon Cylinder	50520-1	50530-1
*	Pump serial # > 222500 reflects change to standard on items # 1, 3, 5, 8, 9			
**	Duplex Conversion Kits can only be used on serial # > 222500.			

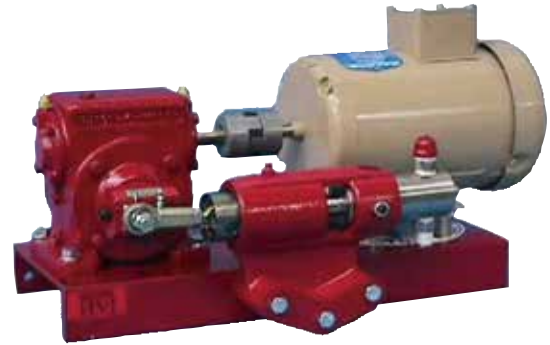


Item #	Description	Plastic Inlet	Plastic Outlet	316 SS Inlet	316 SS Outlet
	Complete Check Valve	56-0026	56-0027	56-0021	56-0022
1	Body	56-0028	56-0029	56-0024	56-0025
2	Retainer Plastic	N/A	56-0030	N/A	N/A
2	Retainer Spring	N/A	N/A	56-0023	56-0023
3	Large Ball	56-9017	56-9017	56-9017	56-9017
4	O-Ring Seal	56-9031	56-9031	56-9031	56-9031
5	Small Ball	56-9007	56-9007	56-9007	56-9007
6	Check Valve Set	56-9052	56-9052	56-9052	56-9052

INJECT-O-METER PUMPS

Inject-O-Meter™ Injection Pumps

- Built rugged for years of dependable service
- Operating pressures on certain models up to 300 PSI
- Small in size
- Installation kit with either lifted suction or gravity feed
- All installation kits include tubing, fittings and check valve
- Grease points to extend life of pump and components
- For agriculture, industrial and greenhouse uses



Part#	Description
Piston	316 Stainless Steel
Cylinder	316 Stainless Steel
Packing	(Model I-70) Neoprene (optional Teflon, Viton or mix)
O-Rings	Viton
Valves	316 Stainless Steel
Ball Checks	316 Stainless Steel Austenitic Fitting Polypropylene (optional 316 Stainless Steel)
Gear Reducer	15 to 1
Drives	Electric (1ph & 3ph), Belt, Honda Gasoline and 12V

Part#	Description
IOM-330	3-30 GPH

Inject-O-Meter™ Model I-70

Piston Size	Min. GPH Simple x	Max GPH Simple x	PSI	Min GPH Duplex	Max GPH Duplex
.75"	1.8	18	300	3.6	36
.675"	1.25	12.5	300	2.5	25
.50"	.80	8.0	300	1.6	16
.375"	.45	4.5	300	.90	9.0
.25"	.20	2.0	300	.40	4.0

Inject-O-Meter Chemigation Systems

Chemigation systems are simple in design and built tough. All systems come with pump for near perfect accuracy. Adjustable while running available with an additional purchase of variable speed drive. System can be designed with a variety of tanks and options including agitation. Available in both simplex or duplex styles for maximum versatility.

Max 94 Check Valve

Part#	Description
049-085	3/4"





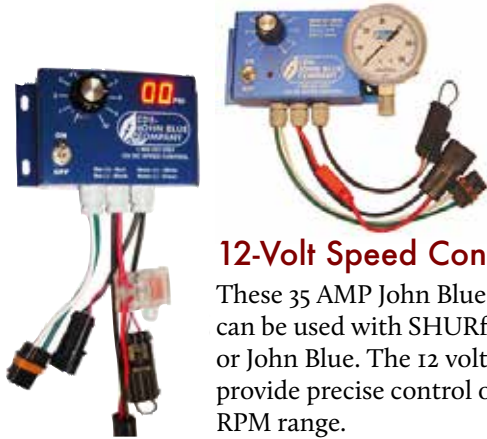
SHURflo Diaphragm Pumps

Shurflo offers a variety of pumps for low pressure applications. Pumps are available in 12V and 115V. Adjustable demand switch automatically shuts off pump.

- Polypropylene Construction
- Viton Valves
- Santoprene Diaphragm

Part#	Volts	GPM	Description
2088-343-135	12	3.0	SHURflo Pump
2088-313-145	12	3.6	Fan Cooled Motor
2088-443-144	12	3.5	½" MPT
2088-514-144	12	4.0	½" MPT
2088-394-144	115	3	½" MPT 6' Cord
2088-594-154	115	3.3	½" MPT
8000-543-210	12	1.3	¾" FPT
8000-543-250	12	1.8	¾" FPT
8000-543-220	12		For Foam Marker
8000-543-236	12	1.8	¾" NPT
8007-543-836	12	1.8	½" MPT w/ On/Off

FITTINGS:	Part#	Size	Description
	234-3926	½" FPT x ½"	90° HB-Wing Nut
	8-060-01	½" FPT x ¾"	90° HB-Wing Nut
	8-156-01	½" FPT x ¾"	HB-Wing Nut
	8-157-01	½" FPT x ¾"	90° HB-Wing Nut
	8-161-01	½" F x ½" H	Swivel Fitting



12-Volt Speed Controller

These 35 AMP John Blue controllers can be used with SHURflo, Aquatec or John Blue. The 12 volt pumps provide precise control over a wide RPM range.

Part#	Description
AKSC35-200	No Gauge
AKSC35-201	With Gauge
AKSC35-202	Digital Gauge

Take all the performance and features of the time-tested 2088 series, double it, and the result is the high-flow Power Twin.



SHURflo Power Twin Pumps

Part#	Volts	GPM
4311-035	12	7

SHURflo 5000 Series

- 5.3 GPM free flow
- Available with male ½" NPS or female ½" NPT ports
- 12V diaphragm pump
- Driven by a 12-volt, SHURflow built sealed motor
- Self-priming capabilities, up to 8 feet
- Bypass versions set at 90 PSI, for applications where a demand switch is not desired



Part#	Desc.
5059-1310-D011	1/2 FPT
5059-1311-D011	1/2 MPT
5059-3610-D011	Bypass

FLOJET



4300 Series Santoprene Pumps

- Operating pressures up to 30 PSI
- Built in pressure switch automatically starts and stops pump instantaneously
- Can run pump dry without damage
- Plug-in ports for easy installation available with ½" or ¾" hose inserts

Part#	Volts	GPM
04300042A	115	3.5
04300142A	12	3.5
04300143	12	4.8

DIAPHRAM PUMPS

FloJet 12 Volt Diaphragm Pumps

Duplex II Series Pumps

- Delivers flows up to 2.0 GPM
- Can run dry without damage
- Operating pressures up to 50 PSI
- Pressure switch automatically starts and stops pump
- Excellent self priming capability
- No metal contact with liquid being pumped
- 90 PSI maximum



Item#	Part#	Desc.
02100-132A	D21X005A	Santoprene
2100-114	D3131B5011A	Buna

Delavan Powerflo Pump

- Max. flow 7.0 GPM
- 5-chamber Diaphragm Bypass pump
- Viton valves, Santoprene diaphragm
- 12V DC electric motor
- Max. pressure 60 PSI
- Max. draw 25A
- Max. fluid temp. 140°F
- 1/2" FNPT ports
- Housings: nylon
- Stainless steel fasteners



Item#	Description
7870-111E	Diaphragm Pump

John Blue Diaphragm Pump

- Weatherproof Tested
- 4 Piston diaphragm for a smoother flow
- Quick Connect Ports System: The quick connect port systems means it's faster to install, requires fewer parts and connections while reducing the number of potential leak points
- The integral pressure switch is fully sealed



Part#	Part#	GPM
AP1816W	QC Ports	4.8
AP1819W	1/2" Ports	4.8
AP1219W	Thd Pump	3.6

QUICK CONNECT FITTINGS

Part#	Description
AK1584W	1/2" Hose Barb
AK1591W	1/2" Hose Barb Elbow
AK1592W	3/4" Hose Barb Elbow
AK1593W	3/4" Straight Barb

Everflo 12 Volt Pump

- 7.0 GPM max
- Poly pump housing and valve plate
- Viton® valves – Santoprene® diaphragm
- 60 PSI (4.1 Bar) max
- Zinc plated steel fasteners
- Painted steel 3" motor shell
- Round-Up® ready
- Self priming to 12 Feet
- Max fluid temp. 140° F



Part#	Desc.
EF1000	1 GPM - Max. 40 PSI
EF2200	2.2 GPM - Max. 70 PSI
EF7000	Threaded
EF7000-QA-BOX	Quick Connect
EF7000-KIT	Repair Kit

Aquatec Diaphragm Pump

This five chamber pump is self priming and capable of being run dry. It includes a pressure switch, poly housing, Santoprene diaphragm and stainless fasteners.



Part#	Volts	GPM	Description
5503-1E77	12	5.3	Aquatec pump-push in
5538-2E1-94A	12	7.0	Fat Boy pump with bypass
5537-2E1-63B	12	5.3	1/2" NPT Fat Boy pump
5513-1E77-M638	12	5.0	Aquatec pump 1/2" FPT

FITTINGS

Part#	Size	Desc.
QBE 554	1/2"	Elbow
QBE 556	3/4"	Elbow
QBS 554	1/2"	Straight
QBS 556	3/4"	Straight

"Our Most Popular Setup"



Dura-Pump™ Easy Caddy

The Frame assembly provides the ability to quickly attach the pump system to the frame of an IBC/cage tank. Can handle low & high viscosity liquids.

Part#	Description
DPE-4015V	Without Meter, 110V, Viton Seals
DPEM-4312E	Meter, 12V, EPDM Seals
DPEM-4312V	Meter, 12V, Viton Seals
DPEM-4315V	Meter, 110V, Viton Seals
DPEM-4612NV	Meter, 12V, Viton Seals for use with N-SERVE



Dura-Pump™ Quick Caddy

The Frame assembly provides the ability to quickly attach the pump system to the frame of an IBC/cage tank. Can handle low & high viscosity liquids.

Part#	Desc.
DPQM-4312E	Meter, 12V, EPDM Seals
DPQM-4312V	Meter, 12V, Viton Seals

One Way Valve Options



Part#	Size
BC201A201B	2" Male Adapter x 2" Female Adapter



Part#	Size
VSFMTBC200	2" Male NPT x 2" Male Adapter

3" FP Flanged Poly Check Valve



Part#
MCV300

3" FP Threaded Poly Check Valve



Part#
CV300

1" Male NPT x 1" Female NPT Check Valve



Part#
CV100MT

DURA PRODUCTS

PUMPS & METERS

Easy Caddy DURA-ABS™ AUTO-BATCH SYSTEM

Intuitive interface allows for the selection of manual or automatic operation with the flip of a switch. High-flow pump with up to 15GPM flow rate. Optimized for repeatable batching; returns to the last volume amount dispensed. 100% moisture sealed circuitry. Includes Dura-Meter™ with impact resistant Lexan™ faceplate. Available in 12 Volt or 110 Volt, and EPDM or Viton® options. Features a 2 year warranty

DURA-ABS™ AUTO-BATCH SYSTEM

The industry's ONLY transfer system offering an automated dispensing option



DURA-AB™ AUTO-BATCH METER NOW SOLD SEPARATELY

See Following Page for Part #



Part#	Description
DPABS-4312E	Meter, 12V, EPDM Seals
DPABS-4312V	Meter, 12V, Viton Seals
DPABS-4315E	Meter, 110V, EPDM Seals
DPABS-4315V	Meter, 110V, Viton Seals

NEW



DURA PRODUCTS

High-Flow Dura Meter

This 3" High-Flow full port manifold flanged Dura-Meter has an intuitive menu-driven backlit display making it the easiest chemical meter on the market to achieve + / - 0.5% accuracy with significantly reduced Straight Inlet / Outlet plumbing requirements.

Part#	Desc.
DP-HFM3V	3" High-Flow Meter Viton



Dura Meter

This meter features a moisture-sealed construction so the electronic circuit is impervious to moisture.

Part#	Desc.
DP-3000E	Dura-Meter
DP-3000V	with Viton



Dura-Pump™ & Motor Only

This pump has an internal bypass, is easily field repairable, has self priming capabilities and can be run dry without damage.

Part#	Desc.
DP-4012E	also available in 100 volt EPDM or Viton



Dura-Pump™ For Monsanto Tank

12 Volt pump without the meter

Part#	Desc.
DP-P4017A-V	with O' ring & gasket

Part#	Desc.
DPMTS-4012E	EPDM
DPMTS-4012V	Viton

DURA-ABS™ Automated Direct Injection

AUTO-BATCH SYSTEM DIRECT INJECTION



DURA-ABS DI

- Lowest cost automated sprayer filling system
- Filling your sprayer has never been easier or faster
- Reduces operator error and herbicide exposure
- Provides recirculation, maximizing chemical performance
- Accurately dispenses repeatable batches
- Eliminates cross contamination

Video available at www.DuraProducts.com/videos

Part#	Desc.
DPABS-4312V	Meter, 12V, Viton Seals
DURA-ABS-DI2GAUGEKIT	2" Direct Injection Kit
DURA-ABS-DI2KIT	2" Accessory Kit
DURA-ABS-DI3GAUGEKIT	3" Direct Injection Kit
DURA-ABS-DI3KIT	3" Accessory Kit
DP-P4040DI	DI Frame

Always turn pump off and disconnect system from power when not in use. Never leave unattended while in use.



DURA-AB™
AUTO-BATCH METER
NOW SOLD SEPARATELY

DURA-AB

This meter features an intuitive interface which allows for the selection of manual or automatic operation with the flip of a switch.

Part#	Desc.
DPAB-12V	12-Volt with Viton Seals
DPAB-15V	110-Volt with Viton Seals

DURA-ABV™ AND BANJO EVX®



DURA-ABV-B



EVX100B or **MEVX100B**
Sold on Pg. L118



Join with a 1" Banjo fitting sold separately

Part#	Desc.
DURA-ABV-B	Dura-Meter w/Auto Batch & Connector Cable for EVX



How It Works

Select the Volume Desired
Press START
Banjo EVX® Valve will open, fluid is measured and valve automatically closes upon completion



DP-3000D

Features

- Operating Temp: -10 degrees F to 130 degrees F
- Flow Rate: 2 to 22GPM
- ISO22241-3 Compliant: Yes
- Meter Accuracy: + / - .5%
- Maximum Pressure: 40 PSI
- Wetted Materials: Polypropylene; 304 Stainless Steel; Ryton; EPDM Seals

Dura-Pump™ DEF Easy Caddy Top Suction

- For totes with RPV type valve
- ISO22241-3 Compliant



DEF-2012ME



DEF2512AE

Dura-Pump™ DEF

- High-Flow pump with up to 15GPM free flow rate and 10+GPM with 3/4" discharge hose and nozzle
- Self-priming diaphragm pump with internal bypass
- Motor thermally protected from overheating
- 30 minute duty cycle
- Suction ports both male and female threads – no adapters needed
- Pump is easily field serviceable with all parts readily available
- Features 2 Year Service Warranty plan
- 10 minute auto shut-off option (110 Volt only)
- ISO22241-3 Compliant



DEF2512AE-135

Dura-Pump™ DEF Portable Tote 135

- DEF Easy Caddy Pumping System with Top Suction
- 135 Gallon DEF tote
- 12 volt DC motor
- 6" Dual Bung vented lid with MicroMatic RPV valve
- 3.25" x 20ft DEF discharge hose
- Choice of manual or automatic nozzle
- ISO22241-3 Compliant
- Dura-Meter™ DEF Meter optional

Part#	Description
DP-3000D	Dura-Meter DEF
DEF-2012ME	Dura-Pump DEF 12 Volt
DEF2512AE	DEF Dura-Pump Easy Caddy -12 Volt - w/ RPV and Auto Nozzle
DEF2512AE-135	DEF 135 Tote w/ Easy Caddy -12 Volt - RPV Top Suction and Auto Shut-Off Nozzle
DEF2512AE	DEF Easy Caddy w/o Meter-12 Volt, Auto Shut-Off Nozzle
DEF2515AE	DEF Dura-Pump Easy Caddy - 110V - w/ RPV and Auto Nozzle

Sotera Systems ChemTraveller

Now you can have pumping power and portability with this unique application of the Sotera Systems Series 400 dual diaphragm 12 volt or 110 volt workhorse. Never before have you been able to buy one pump that can provide so many applications. It can go anywhere and pump practically anything. Take it out in fields, around the plant or on the road, you've got the most durable pump ever designed at your side. And when you are ready to pack it in, simply wrap the hose around the frame and go. It's all self-contained for convenient use, quick access and compact storage!

The Chemtraveller comes in both a compact 12 volt model on a low profile frame and a 110 volt model featuring a high profile tubular frame on heavy duty wheels. Both feature a digital meter and ball valve nozzle at the end of the hose for accurate, easy and safe chemical dispensing. The Chemtraveller can be fitted to any style mini bulk containers with 2", 4" and 6" openings.



Part#	Description
SS435B	ChemTraveller
SS465X713	ChemTraveller 110 Volt

Sotera Series 400 Diaphragm Pump

Pump the toughest fluids and chemicals at up to 13 gpm. The Fill-Rite 400 series diaphragm pump transfers all types of materials-from clear flowables to thick viscosity encapsulated products and suspensions-in all types of weather to make the job easier, faster and safer than ever before.



Part#	Description
SS415B	12V Pump Only with 20' battery cable & clips
SS415BX731	Pump w/Motor Bracket
SS417B	Pump w/Buttress Quick Attach & 2" NPT Inlet
SS420B	Pump w/ Hose, Nozzle, Diptube, no Meter
SS425B	Pump w/ IBC Mount & Suction Kit

MINI BULK HERBICIDE PUMPS

CT6 Pumps - Transfer of Crop Protection Products

The CT6 is a six-chamber diaphragm pump designed for chemical transfer applications. It is a self-priming pump with wetted parts resistant to many agricultural and industrial chemicals. The CT6 is used primarily to dispense fluids from Bulk or Mini-Bulk tanks, Intermediate Bulk Containers (IBCs), Drums, and for similar containers. The pump can be configured with a variety of brackets, dip tubes, flowmeters, fittings, hoses and valves to provide a complete pumping system.



Pumping System

Part#
CT6-3E5BA-000
(Pump only, 12V)



Closed Evac System

Part#	Description
CT6-3E5CA-004	Monsanto Sys. w/Meter
CT6-3E5CA-008	Closed Sys w/Meter, BRKT, Horizontal Mount-1" FPT,



Caddy System

Part#	Description
CT6-3E5DA-000	w/Meter, Hose and Nozzle
CT6-3E5DA-002	No Meter, Includes Hose and Nozzle

BC6 Transfer Pump Kit for IBC

This drive package includes the BC6 pump, DD6 Motor, discharge hose and hose end nozzle. For IBC Lids. Optional kit with meter is available.



Part#
BC6 PKG-UNIT

GPI M1100H

110 Volt Pump Only *Light duty for thin liquids only.*
Lightweight, corrosion resistant aluminum housing. Pumping rate up to 12 gpm depending upon the fluid viscosity and temperature.

Part#
M1100H



Medium duty for thin to medium liquids and flowables.

GPI P200H

12 Volt Pump Only
Lightweight, corrosion resistant housing. Pumping rate from 3.5 to 8 GPM, depending upon the viscosity and temperature of the fluid being transferred.

Part#
P200H



Tamper Evident Devices

Part#	Size
PS-97-BLUE	Push Seal with Serial Number
PS-500SS	.014 OD x 500' Four Strand Wire
CL-99-14	1/16" x 14" Cable with Seal & Serial
CL-99-24	EZ Lock Seal 24"



Pressure Test Kit

Automatic Pressure Test Kit. Used to pressurize mini bulk tanks to look for leaks. Supply air pressure to the assembly and the kit will automatically set the tanks pressure.

Part#
FB-MBT

Part#	Size
744-003	Micro Matic SS Valve Assembly



Tuthill 825 Digital Meter

- Easy to read display
- Low maintenance
- Five 1" ports to select from
- Uses two AAA batteries (Included)
- Stainless and poly body
- 2-20 GPM capacity

Part#
825



Tuthill 850 Digital Meter

- Sotera positive displacement
- Nutating Disc meter
- Waterproof, corrosion-resistant
- 2-20gpm flow
- 1/2 FNPT ports
- Up to 120 PSI max
- -10°F - 130°F temp. range

Part#
850



Scienco Model SEM-10 and SEM-10FT Electronic Met

The seals are totally sealed & potted electronic package with Viton O-rings in flow chamber. The meter chamber is separated & sealed from electronics. The meter can be mounted at the pump for greater protection and durability or plumbed in-line.

Feature	Description
Construction Type	Nutating Disc with LCD Readout
Body	Polypropylene
Internal Wetted Parts	Nylon Ryton
Display	LCD, 4-digit, 3/4" numerals, floating decimal
Flow	Tow-way, either port can be used for low inlet
Flow Range	2-30 gallons per minute
Pipe Size	1" Male NPT, 1" Female NPT on SEM-10FT

Part#	Description
SEM-10-KIT-02	Repair Kit
SEM-10-KIT-1	Electronics Kit



SEM-10



SEM-10FT

Part#
SEM-10
SEM-10FT

Quantity Pricing Available

GPI Model FM300H Electronic Meter

Feature	Description
Flow Rate	Thin fluids: 2-20 GPM Medium/Thick Fluids: 1.5-15 GPM
Working Pressure	50 PSI
Power Requirements	9 Volt Alkaline or Lithium Battery Inlet: 1" Female (NPT Thread) Outlet: 1" Male (NPT Thread)
Dimensions	Overall: 6" x 4" x 3.3" Meter Body: 4" x 4" x 3.3"
Weight	1.66 lbs.

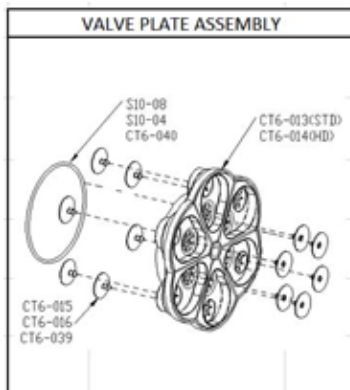
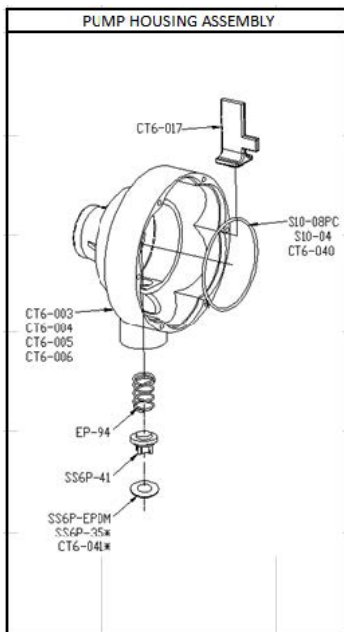
Part#
FM300H



Reliable nutating disc measuring chamber. Field replaceable 9 volt battery for easy maintenance. Display rotatable in 90° increments.

SCIENCO PUMP REPAIR PARTS

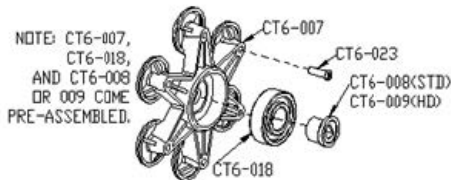
CT6 Pump



KIT P/N	DESCRIPTION	PARTS
	VALVE PLATE ASSEMBLY, VITON, HD	CT6-014 CT6-016 S10-04
CT6KIT-304		

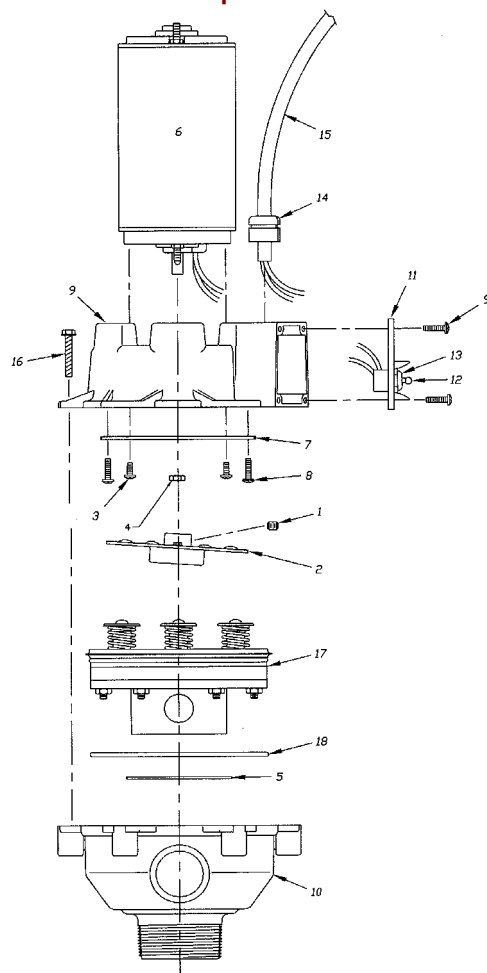
KIT P/N	DESCRIPTION	PARTS
	KIT, HOUSING, INLET MM, OUTLET 1"NPT, EPDM	CT6-003 CT6-017 EP-94 SS6P-41 SS6P-35EPDM S10-08
CT6KIT-201		
	KIT, HOUSING, INLET 2"NPT, OUTLET 1"NPT, EPDM	CT6-003 CT6-017 EP-94 SS6P-41 SS6P-35EPDM S10-08
CT6KIT-203		

WOBBLE PLATE ASSEMBLY



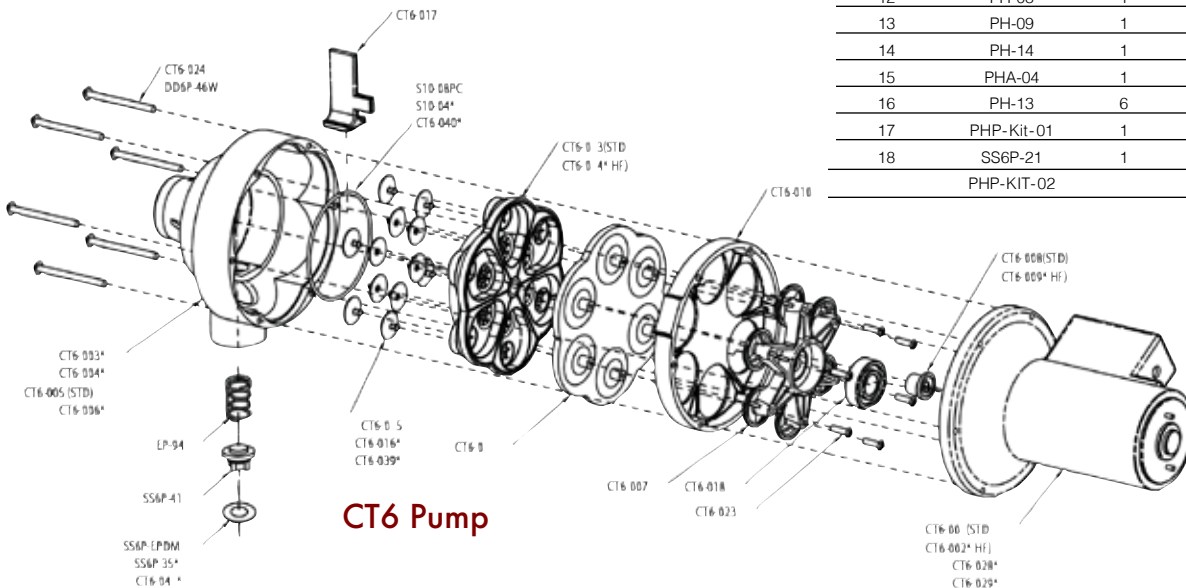
KIT P/N	DESCRIPTION	PARTS
		CT6-007 CT6-008 CT6-018 CT6-023
CT6KIT-601	WOBBLE PLATE ASSEMBLY	
		CT6-007 CT6-009 CT6-018 CT6-023
CT6KIT-602	WOBBLE PLATE ASSEMBLY, HD	

PH6 Pump



PH6 Pump

Item No.	Part No.	QTY	Description
1	CP-47	1	1/4 - 20 x 1/4 Set Screw
2	WP-01ASSY	1	Motor Drive Plate Assembly
3	EP-11	2	10/32 x 3/8 RND HD/PAN HD PHL Screw
4	DD6P-07SS	2	10-32 SS Nylon Insert Lock Nut
5	LF-03 EPDM	1	EPDM 1/8" Bottom Gasket
6	PH-01	1	12 Volt Mamco Motor For PHP
7	PH-02	1	Aluminum Motor Mounting Plate
8	PH-03	7	#10 x 3/8 PHL SS Hi-Low Screw
9	PH-04	1	Polypropylene Motor Mousing
10	PH6 Kit 01	1	Nylon Pump Housing
11	PH-07	1	Molded Junction Box Cover
12	PH-08	1	Gaynor Micro Switch/#6602-57
13	PH-09	1	Half Boot For Toggle Switch
14	PH-14	1	Strain Relief Cord Bushing #1254
15	PHA-04	1	20' Cable Assy. For PH6 Pump
16	PH-13	6	Self-Tapping Screw
17	PHP-Kit-01	1	Pump Cartridge For PH6
18	SS6P-21	1	O-Ring #248 EPDM
	PHP-KIT-02		Gasket Kit Includes #5, #18



CT6 Pump

**DD6 In-Tank Diaphragm Pump with Removable 12-Volt Drive Unit
(Excellent for most herbicides including thick, viscous products)**



Part No.	Description
DD6-Motor	<ul style="list-style-type: none"> • Motor only - for model DD-6 pump • Powered by 12 volts D.C. Includes 20' battery cable, electrical hardware

Part No.	Description
DD6-Pump*	<ul style="list-style-type: none"> • Mounts directly into the mini-bulk container • Flow rate is 9 U.S. GPM maximum • Pumps low to high viscosity liquids with an internal recirculating feature for agitation capabilities • Discharge port configuration features a check valve to prevent chemical container leakage • Includes a vent, rain cover, mounting hardware and gasket



**This pump requires a 8¼" diameter flat surface with a 61/8" hole for tank mounting.*

DD6 Drive Unit Package

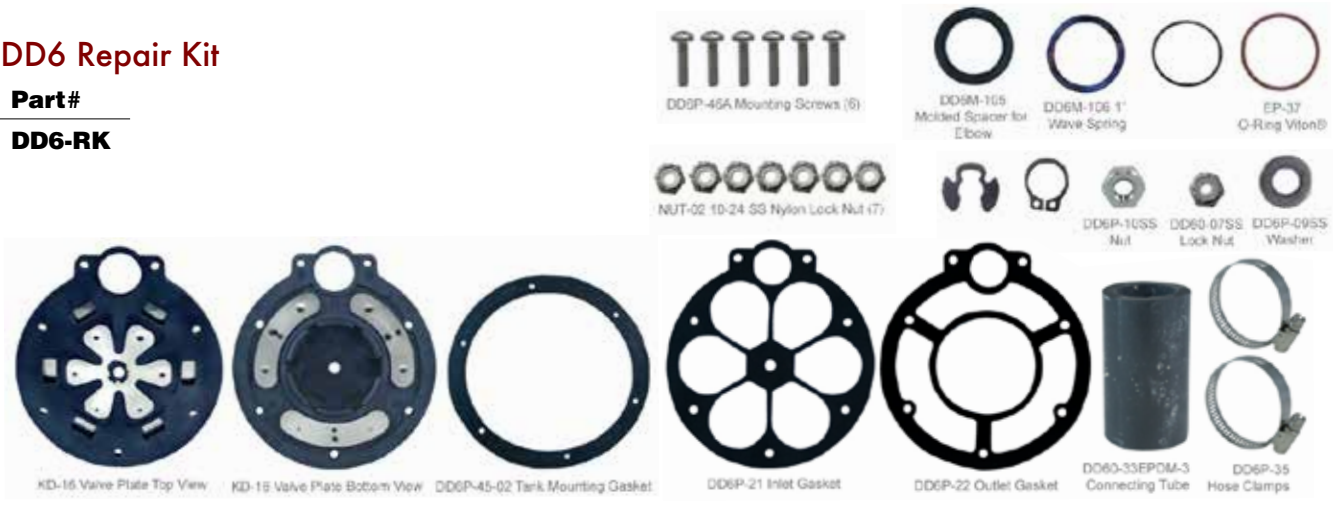
Adapter plate to convert hole in tank for DD6 pump to adapt SS6 pump or other pumping units.



Item#	Description
DD6 DRIVE	<ul style="list-style-type: none"> • Drive Unit Package for DD6 Pump • Kit Includes: 12V Motor with 20ft. Cable, EPDM Discharge Hose, Ball Valve with Nozzle, SEM-10 Flow Meter, Aluminum Discharge elbow and quick connect

DD6 Repair Kit

Part#
DD6-RK



Herbicide Hose Assembly

Part#	Description
1X12EPDM	1" Hose 12ft. Long with 1" MPT Ends
110241-01	GPI Adjustable Pickup Tube
XTUBE-TE	Threaded Pickup Tube
XTUBE-E	Extend-a-Tube, EPDM



1X12EPDM

XTUBE-TE

XTUBE-E

110241-01

LIQUID HOSE

Clear Vinyl Tubing (Sight Gauge)

100' Rolls

Part#	ID	Wall
14SCV	1/4"	1/8"
38SCV	3/8"	1/8"
12x116SCV	1/2"	1/16"
12x18SCV	1/2"	1/8"
58SCV	5/8"	1/8"
34x116SCV	3/4"	1/16"
34SCV	3/4"	1/8"
1SCV	1"	1/8"
114SCV	1 1/4"	1/4"
112SCV	1 1/2"	1/4"



Braided Clear with White Braid Vinyl Tubing

300' Rolls

Part#	ID
290FG-14	1/4"
290FG-38	3/8"
290FG-12	1/2"
290FG-34	3/4"
290FG-1	1"
290FG-114	1 1/4"
290FG-112	1 1/2"



Spray Hose - 150 PSI 500' Rolls

Part#	ID
SH-1/4EPDM	1/4"
SH-3/8EPDM	3/8"
SH-1/2EPDM	1/2"
SH-5/8EPDM	5/8"
SH-3/4EPDM	3/4"
SH-1EPDM	1"
SH-1 1/4EPDM	1 1/4"
SH-1 1/2EPDM	1 1/2"
SH-2EPDM	2"



*Not to be used for high pressure anhydrous ammonia

Bumble Bee Hose

Part#	ID
300EPDM-1	1"
300EPDM112	1 1/2"
300EPDM-2	2"
300EPDM-3	3"
300EPDM-4	4"



PVC Clear with White Spiral Suction Hose

100' Rolls

Part#	ID
112CL-34	3/4"
112CL-1	1"
112CL-114	1 1/4"
112CL-112	1 1/2"
112CL-2	2"
112CL-3	3"
112CL-4	4"
112CL-6	6"



EPDM Nylon Braided Black Ribbed Suction Hose

100' Rolls

Part#	ID
390DS-114	1 1/4"
390DS-112	1 1/2"
390DS-2	2"
390DS-3	3"



EPDM Wire Reinforced Black with Blue & White Stripe Suction Hose

100' Rolls

Part#	ID
N645-114	1 1/4"
N645-112	1 1/2"
N645-2	2"
N645-212	2 1/2"
N645-3	3"
N645-312	3 1/2"
N645-4	4"



Chemical Hose

Part#	ID
Chem-Flex-1	1"
Chem-Flex-112	1 1/2"
Chem-Flex-2	2"
Chem-Flex-3	3"



*Not to be used for high pressure anhydrous ammonia

CALL FOR FULL ROLL PRICING



PVC Lay Flat Discharge Hose

Part#	ID
160BL-112	1½"
160BL-2	2"
160BL-3	3"
160BL-4	4"
160BL-6	6"



EVA Hose

Part#	ID	Roll Length
V1151-500	¾"	500'
12SEVA	½"	300'
58SEVA	¾"	250'
34SEVA	¾"	250'
1SEVA	1"	100'



Orange & Black EVA Hose

Part#	ID	Roll Length
ORV1151-500	¾"	500'
EVA-3/8-BLACK	¾"	500'



Braided EVA Hose

Part#	ID
38BEVA	¾"
12BEVA	½"
34BEVA	¾"
1BEVA	1"

CALL FOR FULL ROLL PRICING



High Pressure Spray Hose (600 psi)

Part#	ID
SH-3/8-600PSI	¾"
SH-1/2-600PSI	½"
38758	½"
38758-400ft	½"



The Band-It Tool C001 and J001 Cutter/Adapter

A drop forged electroplated tool with tensioning capability of over 2,400 pounds and built-in cutter. Used to apply Band-it Bands and Buckles, Strapping and Free-end Clamps.

Band and Buckles

Part#	Description	ID
SS500	Banding 100ft	½"
SS625	Banding 100ft	⅝"
SS750	Banding 100ft	¾"
CS500	Buckles	½"
CS625	Buckles	⅝"
CS750	Buckles	¾"

Buckles are packaged 100 to a box.

Band-It Preformed Clamps

Galvanized

Part#	Clamp ID
J301	1⅜"
J303	1"
J305	1½"
J310	2¾"

Stainless Steel

Part#	Clamp ID
JS201	1⅜"
J204	1¼"
J210	2¾"
J213	4"

HOSE CLAMPS



Stainless Steel Miniature Worm Gear Clamps with 5/16" Band

Part#	Min	Max
MH4	1/4"	5/8"
MH6	5/16"	7/8"
MH8	1/2"	29/32"
MH10	9/16"	1 1/16"
MH12	1 1/16"	1 1/4"
MH16	1 5/16"	1 1/4"

Quantity Discounts -25% for 100



Stainless Steel Worm Gear Clamps with 1/2" Band

Part#	Min	Max
HS6	3/8"	7/8"
HS8	7/16"	1"
HS10	1/2"	1 1/8"
HS12	1/2"	1 1/4"
HS16	3/4"	1 1/2"
HS20	3/4"	1 3/4"
HS24	1"	2"
HS28	1 5/16"	2 1/4"
HS32	1 9/16"	2 1/2"
HS36	7/8"	2 3/4"
HS40	1 1/8"	3"
HS48	2 9/16"	3 1/2"
HS52	2 13/16"	3 3/4"
HS56	2 1/2"	4"
HS64	2 5/8"	4 1/2"
HS72	3 1/8"	5"
HS80	3 5/8"	5 1/2"
HS88	4 1/4"	6"
HS96	4 3/4"	6 1/2"
HS104	4"	7"



Heavy Duty Stainless Steel T-Bolt Clamps

- All Stainless Steel Construction
- Stainless Steel Nut with Silver Plating to Prevent Seizing
- 360° Sealing Surface
- Ideal for High Torque Applications
- Strong, Positive Connections
- Nylon Lock Feature
- 3 Spot Welds for Extra Strength
- Burst Pressures to 10,000 PSI

Part#	Min	Max
TC120	1.20"	1.34"
TC130	1.30"	1.70"
TC162	1.62"	1.87"
TC181	1.81"	2.06"
TC193	1.93"	2.18"
TC218	2.18"	2.50"
TC224	2.24"	2.55"
TC231	2.31"	2.62"
TC250	2.50"	2.81"
TC287	2.87"	3.18"
TC331	3.31"	3.62"
TC343	3.43"	3.75"
TC425	4.25"	4.56"
TC438	4.38"	4.75"
TC456	4.56"	4.94"



Plated Malleable Iron Double Bolt Clamps

A Rugged, Plated Malleable Iron Two-Bolt Clamp with Machine Bolts and Hex Nuts. Inner Surface has Dual Gripping Ridges. Bolt Lugs are Reinforced to Prevent Bending out of Alignment.

Part#	Min	Max
400DIXON	3 1/2"	3 13/16"
525	4 1/4"	4 15/16"

Other Sizes available, Call With Your Request.



PVC Gloves

GOOD

Part#	Description
7712R	12" Cuff
7714R	14" Cuff



BEST

Neoprene Gloves

Part#	Description
3415	Neoprene (L)
3414-XL	Neoprene (XL)



Nitrile Gloves

These chemical gloves are made of nitrile for chemical resistance. They are unlined to prevent wicking of chemicals. Green in color with a 12" length.

Part#	Size
37-175-10	10
37-175-11	11



The BLACK MAMBA GLOVE was formulated to be the toughest disposable glove available in today's market. At 6.0 mils thick, the BLACK MAMBA GLOVE was specifically designed from a unique blend of nitrile. It is thicker and stronger than any other black nitrile glove and is fully textured with 3 times the puncture resistance of latex or vinyl. Don't be fooled by competitors who offer an inferior, thinner glove!

Patented Nitrex Polymer. Over 6.0 mils thick Black Nitrile. Two-Ply Fusion Strength. Superior chemical resistance. Fully textured with Grip Rite Finish. Made to be tough for the task at hand!

Black Mamba Nitrile Gloves

Part#	Description
BTG110	Medium - Box 50 pairs
BTG120	Large - Box 50 pairs
BTG130	X-Large - Box 50 pairs



Powder Free Industrial Strength Orange Nitrile Gloves with raised Torque Grip finish. Hi-Vis Orange color. Over 8.0 mils thick. Allows for unsurpassed grip.

Orange Torque Grip Nitrile Gloves

Part#	Description
OTG120	Large - Box 50 pairs
OTG130	X-Large - Box 50 pairs

SAFETY EQUIPMENT



Safety Goggles

Part#	Description
551	Bouton, Vented
552	Bouton, No Vent, NH3
552F	Bouton, No Vent, Fogless
22521	Clear Vented
2260	Indirect Vent, Fog Free
5300400	Bouton, Vented for Glasses
18629	Goggles with Face Shield



Sport Safety Glasses

These safety glasses provide protection and style.

Part#	Description
93704	Clear
93705	Mirrored



Paper Dust Mask

Part#	Description
8511	Paper dust mask



1428L



4T299

Disposable Tyvek Coveralls

Disposable coverall is made of Dupont Tyvek material for durability, economy and practicality. Full cut for comfort with full length zipper and shirt collar. Unique structure creates excellent barrier against acids and chemicals.

Part#	Size
1412-L	L (no hood)
1428L	Large
1428XL	XL
4T299	Rubber Apron



This page lists nozzles that may be used for spraying XtendiMax® With VaporGrip® Technology, including when used on Roundup Ready 2 Xtend® soybeans and cotton with XtendFlex® technology, according to the product labeling for each such use and the terms and conditions of registration for XtendiMax® With VaporGrip® Technology.

Last Updated on February 12, 2020

Always check for latest approved information at www.xtendimaxapplicationrequirements.com

Manufacturer	Nozzle Type	Part Number	Operating Pressure (psi)							
			20	30	40	50	60	70	80	90
	AI11003	AI11003-VS / AIC11003-VS		Min 30	Max 40					
	AI8003	AI8003-VS / AIC8003-VS		Min 30	Max 40					
	AI8005	AI8005-VS / AIC8005-VS		Min 30	Max 40					
	TTI11003	TTI11003-VP	Min 20				Max 60			
	TTI11004	TTI11004-VP	Min 20				Max 63			
	TTI11005	TTI11005-VP	Min 20				Max 60			
	TTI11006	TTI11006-VP	Min 20			Max 50				
	TTI60-11003	TTI60-11003VP		Min 30		Max 50				
	TTI60-11004	TTI60-11004VP		Min 30			Max 60			
	TTI60-11005	TTI60-11005VP		Min 30			Max 60			
	TTI60-11006	TTI60-11006VP		Min 30			Max 60			
	ULD120-04	FC-ULD120-04	Min 20		Max 40					
	ULD120-05	FC-ULD120-05	Min 20		Max 40					
	ULD130-03	ULD130-03		Min 30			Max 60			
	ULD130-04	ULD130-04		Min 30						Max 90
	ULD130-05	ULD130-05		Min 30				Max 70		
	ULD130-06	ULD130-06		Min 30			Max 60			
	TADF03-D	TADF03-D	Min 20		Max 40					
	TADF06-D	TADF06-D	Min 20			Max 50				
	TDXL 11003-D	TDXL 11003-D	Min 20		Max 40					
	TDXL 11004-D	TDXL 11004-D	Min 20			Max 50				
	TDXL 11005-D	TDXL 11005-D	Min 20				Max 60			
	TDXL 11006-D	TDXL 11006-D	Min 20				Max 60			
	DR110-10	40286-10		Min 30	Max 40					
	UR110-05	40292-05		Min 30		Max 50				
	UR110-06	40292-06		Min 30			Max 60			
	UR110-08	40292-08		Min 30				Max 70		
	UR110-10	40292-10		Min 30				Max 70		

ALWAYS READ AND FOLLOW PESTICIDE PRODUCT LABELING. It is a violation of Federal and state law to use any pesticide product in a manner inconsistent with its labeling.

XtendiMax® herbicide with VaporGrip® Technology is part of the Roundup Ready® Xtend Crop System and is a restricted use pesticide. Always read and follow grain marketing and all other stewardship practices and pesticide label directions. It is a violation of federal and state law to use any pesticide product other than in accordance with its labeling. XtendiMax® herbicide with VaporGrip® Technology, Roundup Ready 2 Xtend® soybeans and products with XtendFlex® Technology may not be approved in all states and may be subject to use restrictions in some states. Check with your local product dealer or representative or U.S. EPA and your state pesticide regulatory agency for the product registration status and additional restrictions in your state. For approved tank-mix products and nozzles visit XtendiMaxApplicationRequirements.com Bayer, Roundup Ready 2 Xtend®, VaporGrip®, XtendFlex® and XtendiMax® are registered trademarks of Bayer Group. ©2018 Bayer Group. All Rights Reserved. 1A9N188067

SPRAY TIPS

Variable Rate Nozzle Products

Variable rate fertilizer assemblies feature a variable diameter orifice that produces a wide range of flow rates - its like having several metering orifices in one.

STREAMJET



SJ3-VR-X0.5 SJ3-VR-X1.0 SJ3-VR-X2.0



SJ7A-VR-X0.5 SJ7A-VR-X1.0 SJ7A-VR-X2.0

QJ-VR & PTC-VR

SIZE OPTIONS

Model	Hose Size (I.D.)				Tubing Size (O.D.)		
	1/4"	5/16"	3/8"	1/2"	1/4"	5/16"	3/8"
QJ-VR-X0.5	X	X	X				
QJ-VR-X1.0	X	X	X				
QJ-VR-X2.0			X	X			
PTC-VR-X0.5					X	X	X
PTC-VR-X1.0					X	X	X
PTC-VR-X2.0						X	X

Note: 1/4" and 5/16" hose barb sizes offered in stainless steel only. 3/8" and 1/2" hose barbs offered in choice of stainless steel or nylon.

PART

SJ3-VR-X*
SJ7A-VR-X*
PTC-VR-X* - *
QJ-VR-*
QJ-VR-X1.0-3/8-SS
QJ-VR-X2.0-3/8-SS
QJ-VR-X2.0-3/8-NYB



PTC-VR PUSH-TO-CONNECT METERING ASSEMBLY



QJ-VR METERING ASSEMBLY



QJ-VR HOSE BARB METERING ASSEMBLY



QJ-VR-X2.0-3/8-NYB

Hypro Flat Fan Thermoplastic Tips (80°)

Size	Mesh	Cap w/Gasket
30-01F80	100	25612-8-NYR
30-02F80	50	25612-6-NYR
30-03F80	50	25612-4-NYR
30-04F80	50	25612-3-NYR
30-05F80	50	25612-7-NYR
30-06F80	50	25612-1-NYR
30-08F80	50	25612-2-NYR

Poly with SS Screens

Standard	Mesh
8079-PP-24	24
50M-STR	50
8079-PP-50	50
100M-STR	100
8079-PP-100	100



With Check Valve Mesh Opens at

4193A-PP5-50SS	50	5 PSI
4193A-PP2-100SS	100	2 PSI
4193A-PP5-100SS	100	5 PSI

Turbo TeeJet (Poly)



110°	Mesh	Cap w/Gasket
TT11001VP	100	25612-8-NYR
TT110015VP	100	25612-5-NYR
TT11002VP	50	25612-6-NYR
TT11003VP	50	25612-4-NYR
TT11004VP	50	25612-3-NYR
TT11005VP	50	25612-7-NYR
TT11006VP	50	25612-1-NYR
TT11008VP	50	25612-2-NYR

Air Induction Spray Tips SS Insert AIC Tip & Cap Combination:

110°	Mesh	Cap w/Gasket
AI110015-VS	100	255989-5-NYR
AI11002-VS	50	255989-6-NYR
AI110025-VS	50	255989-5-NYR
AI11003-VS	50	255989-4-NYR
AI11004-VS	50	255989-3-NYR
AI11005-VS	50	255989-7-NYR
AI11006-VS	50	255989-1-NYR
AI11008-VS	N/A	255989-2-NYR
AI11010-VS	N/A	255989-4-NYR





XR Extended Range (Smaller Sizes, SS Insert)

XRC Tip & Cap Combination:

80°	110°	Mesh	Cap w/Gasket
XR-8001VS	XR-11001VS	100	25612-8-NYR
XR-80015VS	XR-110015VS	100	25612-5-NYR
XR-8002VS	XR-11002VS	50	25612-6-NYR
XR-8003VS	XR-11003VS	50	25612-4-NYR
XR-8004VS	XR-11004VS	50	25612-3-NYR
XR-8005VS	XR-11005VS	50	25612-7-NYR
XR-8006VS	XR-11006VS	50	25612-1-NYR
XR-8008VS	XR-11008VS	50	25612-2-NYR



Extended Range (Larger Sizes, SS)

80°	110°	Mesh	Cap w/Gasket
XR-8010SS	XR-11010SS	N/A	25610-1-NYR
XR-8015SS	XR-11015SS	N/A	25610-1-NYR



Even Flat Fan Tip SS Insert

65°	80°	Mesh	Cap w/Gasket
TP6501E	TP8001EVS	100	25612-8-NYR
TP65015E	TP80015EVS	100	25612-5-NYR
TP6502ESS	TP8002EVS	50	25612-6-NYR
TP6503ESS	TP8003EVS	50	25612-4-NYR
TP6504ESS	TP8004EVS	50	25612-3-NYR
TP6505ESS	TP8005EVS	50	25612-7-NYR
TP6506ESS	TP8006EVS	50	25612-1-NYR
TP6508ESS	TP8008EVS	50	25612-2-NYR
TP65010ESS	TP80010EVS	24	25612-1-NYR
TP65015ESS	TP80015EVS	N/A	25612-2-NYR

Quick Turbo FloodJet, SS with Color-Coding

Size	Color
QCTF-VS15	Beige
QCTF-VS20	White
QCTF-VS30	Yellow
QCTF-VS40	Red
QCTF-VS50	Gray
QCTF-VS60	Blue
QCTF-VS80	Black
QCTF-VS100	Light Blue
QCTF-VS120	Orange



Dual Flat Spray Tip

Part#	Description
AI3070	Air Induction
98579-1-NYR	Cap for AI3070

Standard (SS Insert)



80°	110°	Mesh	Cap w/Gasket
TP8001-VS	TP11001-VS	100	25612-8-NYR
TP80015-VS	TP110015-VS	100	25612-5-NYR
TP8002-VS	TP11002-VS	50	25612-6-NYR
TP8003-VS	TP11003-VS	50	25612-4-NYR
TP8004-VS	TP11004-VS	50	25612-3-NYR
TP8005-VS	TP11005-VS	50	25612-7-NYR
TP8006-VS	TP11006-VS	50	25612-1-NYR
TP8008-VS	TP11008-VS	50	25612-2-NYR

Hypro Flood Tip, Thermoplastic with Color-Coding

Size	Color
30DT2.0	Red
30DT2.5	Brown
30DT3.0	Gray
30DT4.0	White
30DT5.0	Light Blue
30DT7.5	Lime Green
30DT10	Black
30DT15	Pink
30DT20	Purple



TEEJET XR TIPS

Features

- Excellent spray distribution over a wide range of pressures: 15-60 PSI
- Ideal for rigs equipped with sprayer controllers
- Reduces drift at lower pressures, better coverage at higher pressures
- Available in stainless steel, ceramic and polymer in 80° and 110° spray angles with VisiFlo® color-coding
- Ceramic is available with corrosive-resistant polypropylene VisiFlo color-coded tip holder in 80° capacities 03-08 and 110° capacities 02-08
- XR110025 only available in VK
- Brass available in 110° only
- Automatic spray alignment with 114441-* -CELRL Quick TeeJet® cap and gasket (old part number: 25612-* -NYR)
- Automatic spray alignment for sizes 10 and 15 with 25610-* -NYR Quick TeeJet cap and gasket



At 15 PSI (1 bar) Pressure At 60 PSI (4 bar) Pressure

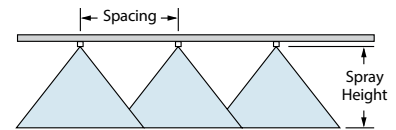


Tip	PSI	DROPSIZE	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	20°										GALLONS PER 1000 SQ. FT.				
					GPA														
					4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH			
XR8001 XR11001 (100)	15	M	F	0.061	7.8	4.5	3.6	3.0	2.3	1.8	1.5	1.2	0.91	0.21	0.14	0.10	0.08		
	20	M	F	0.071	9.1	5.3	4.2	3.5	2.6	2.1	1.8	1.4	1.1	0.24	0.16	0.12	0.10		
	30	F	F	0.087	11	6.5	5.2	4.3	3.2	2.6	2.2	1.7	1.3	0.30	0.20	0.15	0.12		
	40	F	F	0.10	13	7.4	5.9	5.0	3.7	3.0	2.5	2.0	1.5	0.34	0.23	0.17	0.14		
	50	F	F	0.11	14	8.2	6.5	5.4	4.1	3.3	2.7	2.2	1.6	0.37	0.25	0.19	0.15		
60	F	VF	0.12	15	8.9	7.1	5.9	4.5	3.6	3.0	2.4	1.8	0.41	0.27	0.20	0.16			
XR80015 XR110015 (100)	15	M	F	0.092	12	6.8	5.5	4.6	3.4	2.7	2.3	1.8	1.4	0.31	0.21	0.16	0.13		
	20	M	F	0.11	14	8.2	6.5	5.4	4.1	3.3	2.7	2.2	1.6	0.37	0.25	0.19	0.15		
	30	F	F	0.13	17	9.7	7.7	6.4	4.8	3.9	3.2	2.6	1.9	0.44	0.29	0.22	0.18		
	40	F	F	0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20		
	50	F	F	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23		
60	F	F	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24			
XR8002 XR11002 (50)	15	M	M	0.12	15	8.9	7.1	5.9	4.5	3.6	3.0	2.4	1.8	0.41	0.27	0.20	0.16		
	20	M	F	0.14	18	10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1	0.48	0.32	0.24	0.19		
	30	F	F	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23		
	40	F	F	0.20	26	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27		
	50	F	F	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30		
60	F	F	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33			
XR110025 (50)	15	M	M	0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20		
	20	M	F	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24		
	30	F	F	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30		
	40	F	F	0.25	32	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34		
	50	F	F	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38		
60	F	F	0.31	40	23	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.1	0.70	0.53	0.42			
XR8003 XR11003 (50)	15	M	M	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24		
	20	M	F	0.21	27	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.71	0.48	0.36	0.29		
	30	F	F	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35		
	40	F	F	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41		
	50	F	F	0.34	44	25	20	16.8	12.6	10.1	8.4	6.7	5.0	1.2	0.77	0.58	0.46		
60	F	F	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50			
XR8004 XR11004 (50)	15	C	M	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33		
	20	C	M	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	1.0	0.63	0.48	0.38		
	30	M	M	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48		
	40	M	M	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54		
	50	M	F	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61		
60	M	F	0.49	63	36	29	24	18.2	14.6	12.1	9.7	7.3	1.7	1.1	0.83	0.67			
XR8005 XR11005 (50)	15	C	M	0.31	40	23	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.1	0.70	0.53	0.42		
	20	C	M	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48		
	30	C	M	0.43	55	32	26	21	16.0	12.8	10.6	8.5	6.4	1.5	0.97	0.73	0.58		
	40	M	M	0.50	64	37	30	25	18.6	14.9	12.4	9.9	7.4	1.7	1.1	0.85	0.68		
	50	M	M	0.56	72	42	33	28	21	16.6	13.9	11.1	8.3	1.9	1.3	0.95	0.76		
60	M	F	0.61	78	45	36	30	23	18.1	15.1	12.1	9.1	2.1	1.4	1.0	0.83			
XR8006 XR11006 (50)	15	C	C	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50		
	20	C	C	0.42	54	31	25	21	15.6	12.5	10.4	8.3	6.2	1.4	1.0	0.71	0.57		
	30	C	M	0.52	67	39	31	26	19.3	15.4	12.9	10.3	7.7	1.8	1.2	0.88	0.71		
	40	M	M	0.60	77	45	36	30	22	17.8	14.9	11.9	8.9	2.0	1.4	1.0	0.82		
	50	M	M	0.67	86	50	40	33	25	19.9	16.6	13.3	9.9	2.3	1.5	1.1	0.91		
60	C	M	0.73	93	54	43	36	27	22	18.1	14.5	10.8	2.5	1.7	1.2	0.99			
XR8008 XR11008 (50)	15	VC	C	0.49	63	36	29	24	18.2	14.6	12.1	9.7	7.3	1.7	1.1	0.83	0.67		
	20	VC	C	0.57	73	42	34	28	21	16.9	14.1	11.3	8.5	1.9	1.3	0.97	0.78		
	30	C	C	0.69	88	51	41	34	26	20	17.1	13.7	10.2	2.3	1.6	1.2	0.94		
	40	C	C	0.80	102	59	48	40	30	24	19.8	15.8	11.9	2.7	1.8	1.4	1.1		
	50	C	M	0.89	114	66	53	44	33	26	22	17.6	13.2	3.0	2.0	1.5	1.2		
60	C	M	0.98	125	73	58	49	36	29	24	19.4	14.6	3.3	2.2	1.7	1.3			
XR8010† XR11010†	15	VC	C	0.61	78	45	36	30	23	18.1	15.1	12.1	9.1	2.1	1.4	1.0	0.83		
	20	VC	C	0.71	91	53	42	35	26	21	17.6	14.1	10.5	2.4	1.6	1.2	0.97		
	30	C	C	0.87	111	65	52	43	32	26	22	17.2	12.9	3.0	2.0	1.5	1.2		
	40	C	C	1.00	128	74	59	50	37	30	25	19.8	14.9	3.4	2.3	1.7	1.4		
	50	C	C	1.12	143	83	67	55	42	33	28	22	16.6	3.8	2.5	1.9	1.5		
60	C	M	1.22	156	91	72	60	45	36	30	24	18.1	4.1	2.8	2.1	1.7			
XR8015† XR11015†	15	XC	VC	0.92	118	68	55	46	34	27	23	18.2	13.7	3.1	2.1	1.6	1.3		
	20	XC	VC	1.06	136	79	63	52	39	31	26	21	15.7	3.6	2.4	1.8	1.4		
	30	VC	VC	1.30	166	97	77	64	48	39	32	26	19.3	4.4	2.9	2.2	1.8		
	40	C	C	1.50	192	111	89	74	56	45	37	30	22	5.1	3.4	2.6	2.0		
	50	C	C	1.68	215	125	100	83	62	50	42	33	25	5.7	3.8	2.9	2.3		
60	C	C	1.84	236	137	109	91	68	55	46	36	27	6.3	4.2	3.1	2.5			

Note: Always double check your application rates.
 Tabulations are based on spraying water at 70°F (21°C).
 † Available in all stainless steel only.

CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
EXCELLENT	GOOD	GOOD
GOOD*	VERY GOOD*	VERY GOOD*

*At pressures below 30 PSI (2.0 bar)



Optimum Spray Height

Tip Angle	Optimum Spray Height
80°	1.0x
110°	1.5x

How to order:

Specify tip number.

Examples:

- XR8004VS – Stainless Steel with VisiFlo color-coding
- XR11004-VP – Polymer with VisiFlo color-coding (110° only)
- XR11004-VK – Ceramic with polypropylene VisiFlo color-coding
- XR8010SS – Stainless Steel
- XR11004VB – Brass with VisiFlo color-coding (110° only)



TEEJET XR TIP & CAP COMBO

SPRAY TIPS & NOZZLES

Features

- Excellent spray distribution over a wide range of pressures: 15-60 PSI
- Ideal for rigs equipped with sprayer controllers
- Reduces drift at lower pressures, better coverage at higher pressures
- 80° available in stainless steel (015, 02,03-06 capacities) and ceramic (02, 03-08 capacities)
- 110° available in stainless steel (025-05 capacities), ceramic (02-08 capacities) and polymer (025-20 capacities)
- XR TeeJet tip molded into Quick TeeJet® cap provides automatic spray alignment
- Includes tightly fitting washer that stays put and assures a good seal

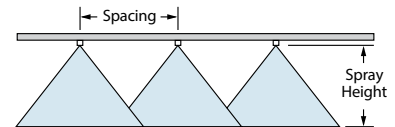


At 15 PSI (1 bar) Pressure At 60 PSI (4 bar) Pressure



CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
EXCELLENT	GOOD	GOOD
GOOD*	VERY GOOD*	VERY GOOD*

*At pressures below 30 PSI (2.0 bar)



Optimum Spray Height

Tip Angle	Optimum Spray Height
80°	30"
110°	20"

How to order:

Specify tip number.

Examples:

- XRC11004-VS – Stainless Steel with VisiFlo® color-coding
- XRC11004-VP – Polymer with VisiFI color-coding
- XRC11004-VK – Ceramic with VisiFI color-coding

Description

XRC-VS Tip & Cap
XRC-VP Tip & Cap
XRC-VK Tip & Cap

Model	PSI	DROPS PER MIN	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	20"										GALLONS PER 1000 SQ. FT.				
					GPA														
					4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH			
XRC80015 (100)	15	M	0.092	12	6.8	5.5	4.6	3.4	2.7	2.3	1.8	1.4	0.31	0.21	0.16	0.13			
	20	M	0.11	14	8.2	6.5	5.4	4.1	3.3	2.7	2.2	1.6	0.37	0.25	0.19	0.15			
	30	F	0.13	17	9.7	7.7	6.4	4.8	3.9	3.2	2.6	1.9	0.44	0.29	0.22	0.18			
	40	F	0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20			
	50	F	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23			
XRC8002 XRC11002 (50)	15	M	0.12	15	8.9	7.1	5.9	4.5	3.6	3.0	2.4	1.8	0.41	0.27	0.20	0.16			
	20	M	0.14	18	10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1	0.48	0.32	0.24	0.19			
	30	M	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23			
	40	F	0.20	26	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27			
	50	F	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30			
XRC110025 (50)	15	M	0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20			
	20	M	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24			
	30	F	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30			
	40	F	0.25	32	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34			
	50	F	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38			
XRC8003 XRC11003 (50)	15	M	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24			
	20	M	0.21	27	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.71	0.48	0.36	0.29			
	30	M	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35			
	40	M	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41			
	50	M	0.34	44	25	20	16.8	12.6	10.1	8.4	6.7	5.0	1.2	0.77	0.58	0.46			
XRC8004 XRC11004 (50)	15	C	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33			
	20	C	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38			
	30	M	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48			
	40	M	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54			
	50	M	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61			
XRC8005 XRC11005 (50)	15	C	0.31	40	23	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.1	0.70	0.53	0.42			
	20	C	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48			
	30	C	0.43	55	32	26	21	16.0	12.8	10.6	8.5	6.4	1.5	0.97	0.73	0.58			
	40	M	0.50	64	37	30	25	18.6	14.9	12.4	9.9	7.4	1.7	1.1	0.85	0.68			
	50	M	0.56	72	42	33	28	21	16.6	13.9	11.1	8.3	1.9	1.3	0.95	0.76			
XRC8006 XRC11006 (50)	15	C	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50			
	20	C	0.42	54	31	25	21	15.6	12.5	10.4	8.3	6.2	1.4	0.95	0.71	0.57			
	30	C	0.52	67	39	31	26	19.3	15.4	12.9	10.3	7.7	1.8	1.2	0.88	0.71			
	40	C	0.60	77	45	36	30	22	17.8	14.9	11.9	8.9	2.0	1.4	1.0	0.82			
	50	C	0.67	86	50	40	33	25	19.9	16.6	13.3	9.9	2.3	1.5	1.1	0.91			
XRC8008 XRC11008 (50)	15	VC	0.49	63	36	29	24	18.2	14.6	12.1	9.7	7.3	1.7	1.1	0.83	0.67			
	20	VC	0.57	73	42	34	28	21	16.9	14.1	11.3	8.5	1.9	1.3	0.97	0.78			
	30	C	0.69	88	51	41	34	26	20	17.1	13.7	10.2	2.3	1.6	1.2	0.94			
	40	C	0.80	102	59	48	40	30	24	19.8	15.8	11.9	2.7	1.8	1.4	1.1			
	50	C	0.89	114	66	53	44	33	26	22	17.6	13.2	3.0	2.0	1.5	1.2			
XRC11010	15	VC	0.61	78	45	36	30	23	18.1	15.1	12.1	9.1	2.1	1.4	1.0	0.83			
	20	VC	0.71	91	53	42	35	26	21	17.6	14.1	10.5	2.4	1.6	1.2	0.97			
	30	C	0.87	111	65	52	43	32	26	22	17.2	12.9	3.0	2.0	1.5	1.2			
	40	C	1.00	128	74	59	50	37	30	25	19.8	14.9	3.4	2.3	1.7	1.4			
	50	C	1.12	143	83	67	55	42	33	28	22	16.6	3.8	2.5	1.9	1.5			
XRC11015	15	VC	0.82	118	68	55	46	34	27	23	18.2	13.7	3.1	2.1	1.6	1.3			
	20	VC	1.06	136	79	63	52	39	31	26	21	15.7	3.6	2.4	1.8	1.4			
	30	VC	1.30	166	97	77	64	48	39	32	26	19.3	4.4	2.9	2.2	1.8			
	40	C	1.50	192	111	89	74	56	45	37	30	22	5.1	3.4	2.6	2.0			
	50	C	1.68	215	125	100	83	62	50	42	33	25	5.7	3.8	2.9	2.3			
XRC11020	15	VC	1.84	236	137	109	91	68	55	46	36	27	6.3	4.2	3.1	2.5			
	20	VC	2.12	271	156	125	100	77	62	50	40	30	7.1	4.7	3.5	2.7			
	30	VC	2.41	307	177	139	113	86	69	56	44	34	8.0	5.2	3.9	2.9			
	40	VC	2.70	344	200	156	125	99	77	62	50	40	9.0	5.8	4.3	3.2			
	50	VC	3.00	382	225	177	143	111	83	67	55	44	10.0	6.5	4.8	3.5			

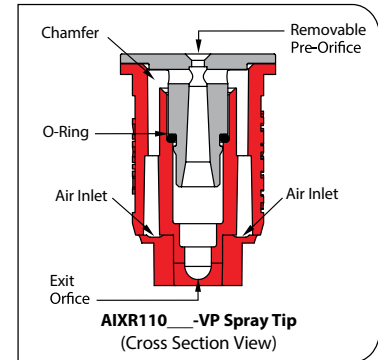
Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C).



TEEJET AIXR TIPS

Features

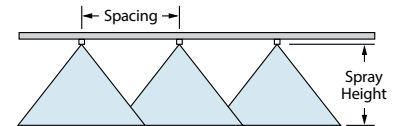
- 110° wide, tapered flat spray angle with air induction technology offers better drift management
- Made of a two-piece UHMWPE polymer construction with VisiFlo® color-coding. UHMPE provides excellent chemical resistance, including acids, as well as exceptional wear life
- Compact size to prevent tip damage
- Depending on the chemical, produces large air-filled drops through a venturi air aspirator
- Removable pre-orifice
- Available in seven tip capacities with a wide operating pressure range: 15-90 PSI
- Automatic alignment when used with 114441-*CELR Quick TeeJet® cap and gasket (old part number: 25612-*NJR)



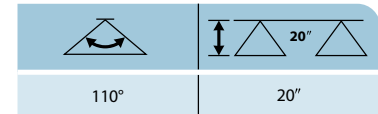
PSI	DROPSIZE	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	20°										GALLONS PER 1000 SQ. FT.				
				GPA														
				4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH			
AIXR110015 (100)	15	XC	0.092	12	6.8	5.5	4.6	3.4	2.7	2.3	1.8	1.4	0.31	0.21	0.16	0.13		
	20	XC	0.11	14	8.2	6.5	5.4	4.1	3.3	2.7	2.2	1.6	0.37	0.25	0.19	0.15		
	30	C	0.13	17	9.7	7.7	6.4	4.8	3.9	3.2	2.6	1.9	0.44	0.29	0.22	0.18		
	40	C	0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20		
	50	C	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23		
AIXR11002 (50)	60	M	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24		
	80	M	0.21	27	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.71	0.48	0.36	0.29		
	90	M	0.23	29	17.1	13.7	11.4	8.5	6.8	5.7	4.6	3.4	0.78	0.52	0.39	0.31		
	15	XC	0.12	15	8.9	7.1	5.9	4.5	3.6	3.0	2.4	1.8	0.41	0.27	0.20	0.16		
	20	XC	0.14	18	10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1	0.48	0.32	0.24	0.19		
AIXR110025 (50)	30	VC	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23		
	40	C	0.20	26	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27		
	50	C	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30		
	60	C	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33		
	80	M	0.27	35	20	16.0	13.4	10.0	8.0	6.7	5.3	4.0	0.92	0.61	0.46	0.37		
AIXR110025 (50)	90	M	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41		
	15	XC	0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20		
	20	XC	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24		
	30	XC	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30		
	40	VC	0.25	32	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34		
AIXR11003 (50)	50	C	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38		
	60	C	0.31	40	23	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.1	0.70	0.53	0.42		
	80	C	0.34	44	25	20	16.8	12.6	10.1	8.4	6.7	5.0	1.2	0.77	0.58	0.46		
	90	C	0.38	49	28	23	18.8	14.1	11.3	9.4	7.5	5.6	1.3	0.86	0.65	0.52		
	15	XC	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24		
AIXR11004 (50)	20	XC	0.21	27	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.71	0.48	0.36	0.29		
	30	XC	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35		
	40	VC	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41		
	50	C	0.34	44	25	20	16.8	12.6	10.1	8.4	6.7	5.0	1.2	0.77	0.58	0.46		
	60	C	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50		
AIXR11004 (50)	80	C	0.41	52	30	24	20	15.2	12.2	10.1	8.1	6.1	1.4	0.93	0.70	0.56		
	90	C	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61		
	15	UC	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33		
	20	XC	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38		
	30	XC	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48		
AIXR11005 (50)	40	XC	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54		
	50	VC	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61		
	60	VC	0.49	63	36	29	24	18.2	14.6	12.1	9.7	7.3	1.7	1.1	0.83	0.67		
	80	C	0.55	70	41	33	27	20	16.3	13.6	10.9	8.2	1.9	1.2	0.94	0.75		
	90	C	0.60	77	45	36	30	22	17.8	14.9	11.9	8.9	2.0	1.4	1.0	0.82		
AIXR11005 (50)	15	UC	0.31	40	23	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.1	0.70	0.53	0.42		
	20	XC	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48		
	30	XC	0.43	55	32	26	21	16.0	12.8	10.6	8.5	6.4	1.5	0.97	0.73	0.58		
	40	XC	0.50	64	37	30	25	18.6	14.9	12.4	9.9	7.4	1.7	1.1	0.85	0.68		
	50	VC	0.56	72	42	33	28	21	16.6	13.9	11.1	8.3	1.9	1.3	0.95	0.76		
AIXR11006 (50)	60	VC	0.61	78	45	36	30	23	18.1	15.1	12.1	9.1	2.1	1.4	1.0	0.83		
	80	C	0.68	87	50	40	34	25	20	16.8	13.5	10.1	2.3	1.5	1.2	0.92		
	90	C	0.75	96	56	45	37	28	22	18.6	14.9	11.1	2.6	1.7	1.3	1.0		
	15	UC	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50		
	20	XC	0.42	54	31	25	21	15.6	12.5	10.4	8.3	6.2	1.4	0.95	0.71	0.57		
AIXR11006 (50)	30	XC	0.52	67	39	31	26	19.3	15.4	12.9	10.3	7.7	1.8	1.2	0.88	0.71		
	40	XC	0.60	77	45	36	30	22	17.8	14.9	11.9	8.9	2.0	1.4	1.0	0.82		
	50	VC	0.67	86	50	40	33	25	19.9	16.6	13.3	9.9	2.3	1.5	1.1	0.91		
	60	VC	0.73	93	54	43	36	27	22	18.1	14.5	10.8	2.5	1.7	1.2	0.99		
	80	C	0.82	105	61	49	41	30	24	20	16.2	12.2	2.8	1.9	1.4	1.1		
90	C	0.90	115	67	53	45	33	27	22	17.8	13.4	3.1	2.0	1.5	1.2			

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C).

CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
GOOD	EXCELLENT	EXCELLENT



Optimum Spray Height



How to order:

Specify tip number.

Example:

AIXR11004VP – Polymer with VisiFlo color-coding

Description

AIXR Tip



TURBO TEEJET FLAT SPRAY TIPS

SPRAY TIPS & NOZZLES

Features

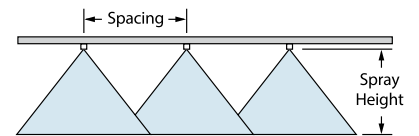
- Tapered edge wide angle flat spray pattern for uniform coverage in broadcast spraying
- Large, rounded internal passage to minimize clogging
- Excellent resistance to corrosive solutions
- Superior wear characteristics
- Larger droplets for less drift 15-90 PSI
- Automatic spray alignment with 114441-*CELR Quick TeeJet® cap and gasket (old part number: 25612-*NRY)
- Blockage-free passage means less clogging
- Unique internal configuration means substantially longer wear life



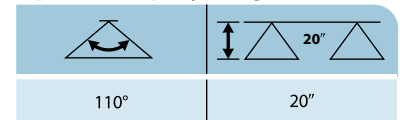
TIPOLOGY	PSI	DROP SIZE	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	20"										GALLONS PER 1000 SQ. FT.				
					GPA														
					4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH			
TT11001 (100)	15	C	0.061	7.8	4.5	3.6	3.0	2.3	1.8	1.5	1.2	0.91	0.21	0.14	0.10	0.08			
	20	C	0.071	9.1	5.3	4.2	3.5	2.6	2.1	1.8	1.4	1.1	0.24	0.16	0.12	0.10			
	30	M	0.087	11	6.5	5.2	4.3	3.2	2.6	2.2	1.7	1.3	0.30	0.20	0.15	0.12			
	40	M	0.10	13	7.4	5.9	5.0	3.7	3.0	2.5	2.0	1.5	0.34	0.23	0.17	0.14			
	50	M	0.11	14	8.2	6.5	5.4	4.1	3.3	2.7	2.2	1.6	0.37	0.25	0.19	0.15			
TT110015 (100)	15	VC	0.092	12	6.8	5.5	4.6	3.4	2.7	2.3	1.8	1.4	0.31	0.21	0.16	0.13			
	20	C	0.11	14	8.2	6.5	5.4	4.1	3.3	2.7	2.2	1.6	0.37	0.25	0.19	0.15			
	30	M	0.13	17	9.7	7.7	6.4	4.8	3.9	3.2	2.6	1.9	0.44	0.29	0.22	0.18			
	40	M	0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20			
	50	M	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23			
TT11002 (50)	15	VC	0.12	15	8.9	7.1	5.9	4.5	3.6	3.0	2.4	1.8	0.41	0.27	0.20	0.16			
	20	VC	0.14	18	10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1	0.48	0.32	0.24	0.19			
	30	C	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23			
	40	M	0.20	26	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27			
	50	M	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30			
TT110025 (50)	15	VC	0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20			
	20	VC	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24			
	30	C	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30			
	40	M	0.25	32	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34			
	50	M	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38			
TT11003 (50)	15	VC	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24			
	20	VC	0.21	27	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.71	0.48	0.36	0.29			
	30	C	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35			
	40	C	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41			
	50	M	0.34	44	25	20	16.8	12.6	10.1	8.4	6.7	5.0	1.2	0.77	0.58	0.46			
TT11004 (50)	15	XC	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33			
	20	VC	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38			
	30	C	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48			
	40	C	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54			
	50	M	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61			
TT11005 (50)	15	XC	0.31	40	23	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.1	0.70	0.53	0.42			
	20	VC	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48			
	30	VC	0.43	55	32	26	21	16.0	12.8	10.6	8.5	6.4	1.5	0.97	0.73	0.58			
	40	C	0.50	64	37	30	25	18.6	14.9	12.4	9.9	7.4	1.7	1.1	0.85	0.68			
	50	C	0.56	72	42	33	28	21	16.6	13.9	11.1	8.3	1.9	1.3	0.95	0.76			
TT11006 (50)	15	XC	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50			
	20	VC	0.42	54	31	25	21	15.6	12.5	10.4	8.3	6.2	1.4	0.95	0.71	0.57			
	30	VC	0.52	67	39	31	26	19.3	15.4	12.9	10.3	7.7	1.8	1.2	0.88	0.71			
	40	VC	0.60	77	45	36	30	22	17.8	14.9	11.9	8.9	2.0	1.4	1.0	0.82			
	50	C	0.67	86	50	40	33	25	19.9	16.6	13.3	9.9	2.3	1.5	1.1	0.91			
TT11008 (50)	15	XC	0.49	63	36	29	24	18.2	14.6	12.1	9.7	7.3	1.7	1.1	0.83	0.67			
	20	VC	0.57	73	42	34	28	21	16.9	14.1	11.3	8.5	1.9	1.3	0.97	0.78			
	30	VC	0.69	88	51	41	34	26	20	17.1	13.7	10.2	2.3	1.6	1.2	0.94			
	40	C	0.80	102	59	48	40	30	24	19.8	15.8	11.9	2.7	1.8	1.4	1.1			
	50	C	0.89	114	66	53	44	33	26	22	17.6	13.2	3.0	2.0	1.5	1.2			

CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
VERY GOOD	VERY GOOD	VERY GOOD
GOOD*	EXCELLENT*	VERY GOOD*

*At pressures below 30 PSI (2.0 bar)



Optimum Spray Height



How to Order

Specify tip number.

Example:

TT11001-VP - Polymer with VisiFlo® color-coding

TT11002-VP-C - Polymer with VisiFlo color-coding, includes Quick TeeJet cap and gasket

NOTE: Always double check your application rates. Tabulations are based on spraying water at 70°F.



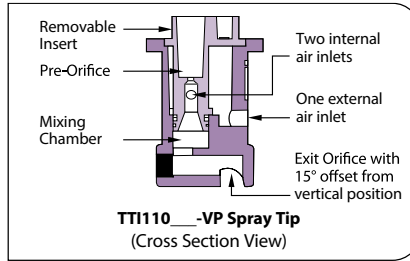
Description

Flat Spray Tip

TURBO TEEJET INDUCTION TIPS

Features

- 110° wide angle, air induction, tapered flat spray tip pattern based on the patented outlet orifice design of the original Turbo TeeJet® nozzle
- Patented orifice design provides large, round passages to minimize plugging
- Depending on the chemical, produces large air-filled drops through a Venturi air aspirator resulting in less drift
- All polymer construction for excellent chemical and wear resistance
- Compact size to prevent tip damage
- Removable pre-orifice
- Ideal for use with automatic sprayer controllers
- Wide operating pressure range: 15-100 PSI
- Automatic alignment when used with 114443-* -CELR Quick TeeJet® cap and gasket (old part number: 25598-* -N9R)



Note: Due to pre-orifice design, this tip is not compatible with the 4193A check valve tip strainer.

Note: use 19845 or 8079-PP nozzle strainers



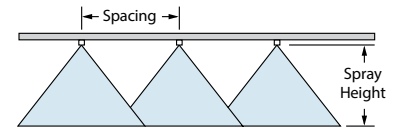
Dicamba options for successfully managing herbicide resistant weeds are here. Make sure you use the right spray tip to put those products where they need to be and nowhere else.



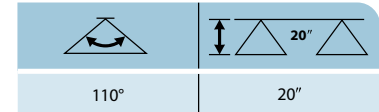
TI	PSI	DROPS PER MIN.	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	20"										GALLONS PER 1000 SQ. FT.				
					GPA														
					4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH			
TTI110015 (100)	15 UC	0.092	12	6.8	5.5	4.6	3.4	2.7	2.3	1.8	1.4	0.31	0.21	0.16	0.13				
	20 UC	0.11	14	8.2	6.5	5.4	4.1	3.3	2.7	2.2	1.6	0.37	0.25	0.19	0.15				
	30 UC	0.13	17	9.7	7.7	6.4	4.8	3.9	3.2	2.6	1.9	0.44	0.29	0.22	0.18				
	40 UC	0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20				
	50 UC	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23				
	60 UC	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24				
	70 XC	0.20	26	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27				
	80 XC	0.21	27	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.71	0.48	0.36	0.29				
	90 XC	0.23	29	17.1	13.7	11.4	8.5	6.8	5.7	4.6	3.4	0.78	0.52	0.39	0.31				
	100 XC	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33				
TTI11002 (50)	15 UC	0.12	15	8.9	7.1	5.9	4.5	3.6	3.0	2.4	1.8	0.41	0.27	0.20	0.16				
	20 UC	0.14	18	10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1	0.48	0.32	0.24	0.19				
	30 UC	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23				
	40 UC	0.20	26	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27				
	50 UC	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30				
	60 UC	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33				
	70 XC	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35				
	80 XC	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38				
	90 XC	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41				
	100 XC	0.32	41	24	19.0	15.8	11.9	9.5	7.9	6.3	4.8	1.1	0.73	0.54	0.44				
TTI110025 (50)	15 UC	0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20				
	20 UC	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24				
	30 UC	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30				
	40 UC	0.25	32	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34				
	50 UC	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38				
	60 UC	0.31	40	23	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.1	0.70	0.53	0.42				
	70 XC	0.33	42	25	19.6	16.3	12.3	9.8	8.2	6.5	4.9	1.1	0.75	0.56	0.45				
	80 XC	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48				
	90 XC	0.38	49	28	23	18.8	14.1	11.3	9.4	7.5	5.6	1.3	0.86	0.65	0.52				
	100 XC	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54				
TTI11003 (50)	15 UC	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24				
	20 UC	0.21	27	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.71	0.48	0.36	0.29				
	30 UC	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35				
	40 UC	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41				
	50 UC	0.34	44	25	20	16.8	12.6	10.1	8.4	6.7	5.0	1.2	0.77	0.58	0.46				
	60 UC	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50				
	70 XC	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54				
	80 XC	0.42	54	31	25	21	15.6	12.5	10.4	8.3	6.2	1.4	0.95	0.71	0.57				
	90 XC	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61				
	100 XC	0.47	60	35	28	23	17.4	14.0	11.6	9.3	7.0	1.6	1.1	0.80	0.64				
TTI11004 (50)	15 UC	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33				
	20 UC	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38				
	30 UC	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48				
	40 UC	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54				
	50 UC	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61				
	60 UC	0.49	63	36	29	24	18.2	14.6	12.1	9.7	7.3	1.7	1.1	0.83	0.67				
	70 XC	0.53	68	39	31	26	19.7	15.7	13.1	10.5	7.9	1.8	1.2	0.90	0.72				
	80 XC	0.57	73	42	34	28	21	16.9	14.1	11.3	8.5	1.9	1.3	0.97	0.78				
	90 XC	0.60	77	45	36	30	22	17.8	14.9	11.9	8.9	2.0	1.4	1.0	0.83				
	100 XC	0.63	81	47	37	31	23	18.8	15.6	12.5	9.4	2.1	1.4	1.1	0.86				
TTI11005 (50)	15 UC	0.31	40	23	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.1	0.70	0.53	0.42				
	20 UC	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48				
	30 UC	0.43	55	32	26	21	16.0	12.8	10.6	8.5	6.4	1.5	0.97	0.73	0.58				
	40 UC	0.50	64	37	30	25	18.6	14.9	12.4	9.9	7.4	1.7	1.1	0.85	0.68				
	50 UC	0.56	72	42	33	28	21	19.6	15.9	11.9	8.3	1.9	1.3	0.95	0.76				
	60 UC	0.61	78	45	36	30	23	18.1	15.1	12.1	9.1	2.1	1.4	1.0	0.83				
	70 XC	0.66	84	49	39	33	25	19.6	16.3	13.1	9.8	2.2	1.5	1.1	0.90				
	80 XC	0.71	91	53	42	35	26	21	17.6	14.1	10.5	2.4	1.6	1.2	0.97				
	90 XC	0.75	96	56	45	37	28	22	18.6	14.9	11.1	2.6	1.7	1.3	1.0				
	100 XC	0.79	101	59	47	39	29	23	19.6	15.6	11.7	2.7	1.8	1.3	1.1				
TTI11006 (50)	15 UC	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50				
	20 UC	0.42	54	31	25	21	15.6	12.5	10.9	8.3	6.2	1.4	0.95	0.71	0.57				
	30 UC	0.52	67	39	31	26	19.3	15.4	12.9	10.3	7.7	1.8	1.2	0.88	0.71				
	40 UC	0.60	77	45	36	30	22	17.8	14.9	11.9	8.9	2.0	1.4	1.0	0.82				
	50 UC	0.67	86	50	40	33	25	19.9	16.6	13.3	9.9	2.3	1.5	1.1	0.91				
	60 UC	0.73	93	54	43	36	27	22	18.1	14.5	10.8	2.5	1.7	1.2	0.99				
	70 XC	0.79	101	59	47	39	29	23	19.6	15.6	11.7	2.7	1.8	1.3	1.1				
	80 XC	0.85	109	63	50	42	32	25	21	16.8	12.9	2.9	1.9	1.4	1.2				
	90 XC	0.90	115	67	53	45	33	27	22	17.8	13.4	3.1	2.0	1.5	1.2				
	100 XC	0.95	122	71	56	47	35	28	24	18.8	14.1	3.2	2.2	1.6	1.3				

Note: Always double check your application rates.
Tabulations are based on spraying water at 70°F (21°C).

CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
—	EXCELLENT	EXCELLENT



Optimum Spray Height



How to order:

Specify tip number.

Example:

TTI11004-VP – Polymer with VisiFlo® color-coding

Description

Induction Tip



Features

- Larger droplets for less drift
- Stainless steel insert produces a tapered edge flat spray pattern for uniform coverage in broadcast spraying
- Polymer insert holder and pre-orifice with VisiFlo® color-coding
- Depending on the chemical, produces large air-filled drops through the use of a Venturi air aspirator
- Available in eight capacities with a recommended pressure rating 30-115 PSI
- Automatic spray alignment with 114443-*-CELR Quick TeeJet® cap and gasket (old part number: 25598-*-NYR)



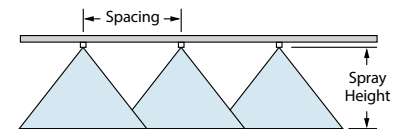
Tip Model	PSI	DROPSIZE	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	20"										GALLONS PER 1000 SQ. FT.				
					GPA														
					4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH			
AI8001S AI11001S (100)	30	UC	0.13	17	9.7	7.7	6.4	4.8	3.9	3.2	2.6	1.9	0.44	0.29	0.22	0.18			
	40	XC	0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20			
	50	XC	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23			
	60	VC	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24			
	70	VC	0.20	26	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27			
AI8002 AI11002 (50)	30	UC	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23			
	40	XC	0.20	26	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27			
	50	XC	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30			
	60	VC	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33			
	70	VC	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35			
AI8002S AI11002S (50)	30	UC	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30			
	40	XC	0.25	32	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34			
	50	XC	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38			
	60	VC	0.31	40	23	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.1	0.70	0.53	0.42			
	70	VC	0.33	42	25	19.6	16.3	12.3	9.8	8.2	6.5	4.9	1.1	0.75	0.56	0.45			
AI8003 AI11003 (50)	30	UC	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35			
	40	XC	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41			
	50	XC	0.34	44	25	20	16.8	12.6	10.1	8.4	6.7	5.0	1.2	0.77	0.58	0.46			
	60	VC	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50			
	70	VC	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54			
AI8004 AI11004 (50)	30	UC	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48			
	40	XC	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54			
	50	XC	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61			
	60	VC	0.49	63	36	29	24	18.2	14.6	12.1	9.7	7.3	1.7	1.1	0.83	0.67			
	70	VC	0.53	68	39	31	26	19.7	15.7	13.1	10.5	7.9	1.8	1.2	0.90	0.72			
AI8005 AI11005 (50)	30	UC	0.43	55	32	26	21	16.0	12.8	10.6	8.5	6.4	1.5	0.97	0.73	0.58			
	40	XC	0.50	64	37	30	25	18.6	14.9	12.4	9.9	7.4	1.7	1.1	0.85	0.68			
	50	XC	0.56	72	42	33	28	21	16.6	13.9	11.1	8.3	1.9	1.3	0.95	0.76			
	60	VC	0.61	78	45	36	30	23	18.1	15.1	12.1	9.1	2.1	1.4	1.0	0.83			
	70	VC	0.66	84	49	39	33	25	19.6	16.3	13.1	9.8	2.2	1.5	1.1	0.90			
AI8006 AI11006 (50)	30	UC	0.52	67	39	31	26	19.3	15.4	12.9	10.3	7.7	1.8	1.2	0.88	0.71			
	40	XC	0.60	77	45	36	30	22	17.8	14.9	11.9	8.9	2.0	1.4	1.0	0.82			
	50	XC	0.67	86	50	40	33	25	19.9	16.6	13.3	9.9	2.3	1.5	1.1	0.91			
	60	VC	0.73	93	54	43	36	27	22	18.1	14.5	10.8	2.5	1.7	1.2	0.99			
	70	VC	0.79	101	59	47	39	29	23	19.6	15.6	11.7	2.7	1.8	1.3	1.1			
AI11008 (50)	30	UC	0.69	88	51	41	34	26	20	17.1	13.7	10.2	2.3	1.6	1.2	0.94			
	40	XC	0.80	102	59	48	40	30	24	19.8	15.8	11.9	2.7	1.8	1.4	1.1			
	50	XC	0.89	114	66	53	44	33	26	22	17.6	13.2	3.0	2.0	1.5	1.2			
	60	VC	0.98	125	73	58	49	36	29	24	19.4	14.6	3.3	2.2	1.7	1.3			
	70	VC	1.06	136	79	63	52	39	31	26	21	15.7	3.6	2.4	1.8	1.4			
AI11004-VS	80	VC	1.13	145	84	67	56	42	34	28	22	16.8	3.8	2.6	1.9	1.5			
	90	VC	1.20	154	89	71	59	45	36	30	24	17.8	4.1	2.7	2.0	1.6			
	100	VC	1.26	161	94	75	62	47	37	31	25	18.7	4.3	2.9	2.1	1.7			

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C).



Note: Due to the pre-orifice design, this tip is not compatible with the 4193A check valve tip strainer.

CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
GOOD	EXCELLENT	EXCELLENT



Optimum Spray Height

Tip Angle	Optimum Spray Height
80°	30"
110°	20"

How to order:

Specify tip number.

Example:

AI11004-VS – Stainless Steel with VisiFlo color-coding

Description

AI Tip

AIR INDUCTION TIPS & CAP

Features

- Produces a 110° tapered edge flat spray pattern for uniform coverage in broadcast spraying applications
- Al TeeJet nozzle molded into Quick TeeJet® cap provides automatic spray alignment
- Includes tightly fitting washer that stays put and assures a good seal
- Available with a polymer insert holder with the option of: stainless steel (015-15 capacities), ceramic (025-05) or polymer (02-10)
- Larger droplets for less drift
- Depending on the chemical, produces large air-filled drops through the use of a Venturi air aspirator



Note: Due to the pre-orifice design, this tip is not compatible with the 4193A check valve tip strainer.

TIPO	PSI	DROPSIZE	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	20"										GALLONS PER 1000 SQ. FT.				
					GPA														
					4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH			
AIC110015 (100)	30 UC	0.13	17	9.7	7.7	6.4	4.8	3.9	3.2	2.6	1.9	0.44	0.29	0.22	0.18				
	40 XC	0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20				
	50 XC	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23				
	60 VC	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24				
	70 VC	0.20	26	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27				
	80 VC	0.21	27	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.71	0.48	0.36	0.29				
AIC11002 (50)	90 C	0.23	29	17.1	13.7	11.4	8.5	6.8	5.7	4.6	3.4	0.78	0.52	0.39	0.31				
	100 C	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33				
	30 UC	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23				
	40 XC	0.20	26	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27				
	50 XC	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30				
	60 VC	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33				
AIC110025 (50)	70 VC	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35				
	80 VC	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	1.0	0.63	0.48	0.38				
	90 VC	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41				
	100 C	0.32	41	24	19.0	15.8	11.9	9.5	7.9	6.3	4.8	1.1	0.73	0.54	0.44				
	30 UC	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30				
	40 XC	0.25	32	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34				
AIC11003 (50)	50 XC	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38				
	60 XC	0.31	40	23	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.1	0.70	0.53	0.42				
	70 VC	0.33	42	25	19.6	16.3	12.3	9.8	8.2	6.5	4.9	1.1	0.75	0.56	0.45				
	80 VC	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48				
	90 VC	0.38	49	28	23	18.8	14.1	11.3	9.4	7.5	5.6	1.3	0.86	0.65	0.52				
	100 C	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54				
AIC11004 (50)	30 UC	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35				
	40 XC	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41				
	50 XC	0.34	44	25	20	16.8	12.6	10.1	8.4	6.7	5.0	1.2	0.77	0.58	0.46				
	60 XC	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50				
	70 VC	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54				
	80 VC	0.42	54	31	25	21	15.6	12.5	10.4	8.3	6.2	1.4	0.95	0.71	0.57				
AIC11005 (50)	90 VC	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61				
	100 C	0.47	60	35	28	23	17.4	14.0	11.6	9.3	7.0	1.6	1.1	0.80	0.64				
	30 UC	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48				
	40 XC	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54				
	50 XC	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61				
	60 XC	0.49	63	36	29	24	18.2	14.6	12.1	9.7	7.3	1.7	1.1	0.83	0.67				
AIC11006 (50)	70 VC	0.53	68	39	31	26	19.7	15.7	13.1	10.5	7.9	1.8	1.2	0.90	0.72				
	80 VC	0.57	73	42	34	28	21	16.9	14.1	11.3	8.5	1.9	1.3	0.97	0.78				
	90 VC	0.60	77	45	36	30	22	17.8	14.9	11.9	8.9	2.0	1.4	1.0	0.82				
	100 C	0.63	81	47	37	31	23	18.7	15.6	12.5	9.4	2.1	1.4	1.1	0.86				
	30 UC	0.43	55	32	26	21	16.0	12.8	10.6	8.5	6.4	1.5	0.97	0.73	0.58				
	40 XC	0.50	64	37	30	25	18.6	14.9	12.4	9.9	7.4	1.7	1.1	0.85	0.68				
AIC11008 (50)	50 XC	0.56	72	42	33	28	21	16.6	13.9	11.1	8.3	1.9	1.3	0.95	0.76				
	60 XC	0.61	78	45	36	30	23	18.1	15.1	12.1	9.1	2.1	1.4	1.0	0.83				
	70 VC	0.66	84	49	39	33	25	19.6	16.3	13.1	9.8	2.2	1.5	1.1	0.90				
	80 VC	0.71	91	53	42	35	26	21	17.6	14.1	10.5	2.4	1.6	1.2	0.97				
	90 VC	0.75	96	56	45	37	28	22	18.6	14.9	11.1	2.6	1.7	1.3	1.0				
	100 C	0.79	101	59	47	39	29	23	19.6	15.6	11.7	2.7	1.8	1.3	1.1				
AIC11010 (50)	30 UC	0.52	67	39	31	26	19.3	15.4	12.9	10.3	7.7	1.8	1.2	0.88	0.71				
	40 XC	0.60	77	45	36	30	22	17.8	14.9	11.9	8.9	2.0	1.4	1.0	0.82				
	50 XC	0.67	86	50	40	33	25	19.9	16.6	13.3	9.9	2.3	1.5	1.1	0.91				
	60 XC	0.73	93	54	43	36	27	22	18.1	14.5	10.8	2.5	1.7	1.2	0.99				
	70 XC	0.79	101	59	47	39	29	23	19.6	15.6	11.7	2.7	1.8	1.3	1.1				
	80 VC	0.85	109	63	50	42	32	25	21	16.8	12.6	2.9	1.9	1.4	1.2				
AIC11015 (50)	90 VC	0.90	115	67	53	45	33	27	22	17.8	13.4	3.1	2.0	1.5	1.2				
	100 C	0.95	122	71	56	47	35	28	24	18.8	14.1	3.2	2.2	1.6	1.3				
	30 UC	0.69	88	51	41	34	26	20	17.1	13.7	10.2	2.3	1.6	1.2	0.94				
	40 UC	0.80	102	59	48	40	30	24	19.8	15.8	11.9	2.7	1.8	1.4	1.1				
	50 XC	0.89	114	66	53	44	33	26	22	17.6	13.2	3.0	2.0	1.5	1.2				
	60 XC	0.98	125	73	58	49	36	29	24	19.4	14.6	3.3	2.2	1.7	1.3				
AIC11015 (100)	70 XC	1.06	136	79	63	52	39	31	26	21	15.7	3.6	2.4	1.8	1.4				
	80 VC	1.13	145	84	67	56	42	34	28	22	16.8	3.8	2.6	1.9	1.5				
	90 VC	1.20	154	89	71	59	45	36	30	24	17.8	4.1	2.7	2.0	1.6				
	100 C	1.26	161	94	75	62	47	37	31	25	18.7	4.3	2.9	2.1	1.7				
	30 UC	0.87	111	65	52	43	32	26	22	17.2	12.9	3.0	2.0	1.5	1.2				
	40 UC	1.00	128	74	59	50	37	30	25	19.8	14.9	3.4	2.3	1.7	1.4				
AIC11015 (200)	50 XC	1.12	143	83	67	55	42	33	28	22	16.6	3.8	2.5	1.9	1.5				
	60 XC	1.22	156	91	72	60	45	36	30	24	18.1	4.1	2.8	2.1	1.7				
	70 XC	1.32	169	98	78	65	49	39	33	26	19.6	4.5	3.0	2.2	1.8				
	80 XC	1.41	180	105	84	70	52	42	35	28	21	4.8	3.2	2.4	1.9				
	90 VC	1.50	192	111	89	74	56	45	37	30	22	5.1	3.4	2.6	2.0				
	100 VC	1.58	202	117	94	78	59	47	39	31	23	5.4	3.6	2.7	2.1				
AIC11015 (300)	30 UC	1.30	166	97	77	64	48	39	32	26	19.3	4.4	2.9	2.2	1.8				
	40 UC	1.50	192	111	89	74	56	45	37	30	22	5.1	3.4	2.6	2.0				
	50 XC	1.68	215	125	100	83	62	50	42	33	25	5.7	3.8	2.9	2.3				
	60 XC	1.84	236	137	109	91	68	55	46	36	27	6.3	4.2	3.1	2.5				
	70 XC	1.98	253	147	118	98	74	59	49	39	29	6.7	4.5	3.4	2.7				
	80 VC	2.12	271	157	126	105	79	63	52	42	31	7.2	4.8	3.6	2.9				
AIC11015 (400)	90 VC	2.25	288	167	134	111	84	67	56	45	33	7.7	5.1	3.8	3.1				
	100 VC	2.37	303	176	141														

STREAMJET FERTILIZER NOZZLES - 3 OUTLET NOZZLE



Typical Applications

- Excellent for application of liquid fertilizer on bare ground or in standing crop
- 3-stream pattern is ideal for directed application

Features

- Three solid streams of equal velocity and capacity
- Removable metering orifice for easy cleaning
- Ten sizes for a wide range of application rates
- Equally spaced distribution at 20" height
- Use with Quick TeeJet® cap 114443-* - CELR (old part number 25598-* - NYR)
- All acetal construction for excellent chemical resistance
- Recommended operating pressure: 20-60 PSI
- Solid stream pattern minimizes leaf burn and drift

Optimum Spray Height

20"	20"
30"	30"
40"	40"



How to order:

Specify tip number.

Example:

SJ3-03-VP – Polymer with VisiFlo color-coding

PSI	CAPACITY ONE NOZZLE IN GPM	GPA 20"											
		3 MPH	4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH	
SJ3-015-VP (100)	20	0.11	10.9	8.2	6.5	5.4	4.1	3.3	2.7	2.3	2.0	1.8	1.6
	30	0.13	12.9	9.7	7.7	6.4	4.8	3.9	3.2	2.8	2.4	2.1	1.9
	40	0.15	14.9	11.1	8.9	7.4	5.6	4.5	3.7	3.2	2.8	2.5	2.2
	50	0.16	15.8	11.9	9.5	7.9	5.9	4.8	4.0	3.4	3.0	2.6	2.4
	60	0.17	16.8	12.6	10.1	8.4	6.3	5.0	4.2	3.6	3.2	2.8	2.5
SJ3-02-VP (50)	20	0.14	13.9	10.4	8.3	6.9	5.2	4.2	3.5	3.0	2.6	2.3	2.1
	30	0.17	16.8	12.6	10.1	8.4	6.3	5.0	4.2	3.6	3.2	2.8	2.5
	40	0.20	19.8	14.9	11.9	9.9	7.4	5.9	5.0	4.2	3.7	3.3	3.0
	50	0.21	21	15.6	12.5	10.4	7.8	6.2	5.2	4.5	3.9	3.5	3.1
	60	0.22	22	16.3	13.1	10.9	8.2	6.5	5.4	4.7	4.1	3.6	3.3
SJ3-03-VP (50)	20	0.24	24	17.8	14.3	11.9	8.9	7.1	5.9	5.1	4.5	4.0	3.6
	30	0.27	27	20	16.0	13.4	10.0	8.0	6.7	5.7	5.0	4.5	4.0
	40	0.30	30	22	17.8	14.9	11.1	8.9	7.4	6.4	5.6	5.0	4.5
	50	0.33	33	25	19.6	16.3	12.3	9.8	8.2	7.0	6.1	5.4	4.9
	60	0.35	35	26	21	17.3	13.0	10.4	8.7	7.4	6.5	5.8	5.2
SJ3-04-VP (50)	20	0.30	30	22	17.8	14.9	11.1	8.9	7.4	6.4	5.6	5.0	4.5
	30	0.36	36	27	21	17.8	13.4	10.7	8.9	7.6	6.7	5.9	5.3
	40	0.40	40	30	24	19.8	14.9	11.9	9.9	8.5	7.4	6.6	5.9
	50	0.43	43	32	26	21	16.0	12.8	10.6	9.1	8.0	7.1	6.4
	60	0.47	47	35	28	23	17.4	14.0	11.6	10.0	8.7	7.8	7.0
SJ3-05-VP (50)	20	0.36	36	27	21	17.8	13.4	10.7	8.9	7.6	6.7	5.9	5.3
	30	0.45	45	33	27	22	16.7	13.4	11.1	9.5	8.4	7.4	6.7
	40	0.50	50	37	30	25	18.6	14.9	12.4	10.6	9.3	8.3	7.4
	50	0.55	54	41	33	27	20	16.3	13.6	11.7	10.2	9.1	8.2
	60	0.59	58	44	35	29	22	17.5	14.6	12.5	11.0	9.7	8.8
SJ3-06-VP (50)	20	0.42	42	31	25	21	15.6	12.5	10.4	8.9	7.8	6.9	6.2
	30	0.54	53	40	32	27	20	16.0	13.4	11.5	10.0	8.9	8.0
	40	0.60	59	45	36	30	22	17.8	14.9	12.7	11.1	9.9	8.9
	50	0.66	65	49	39	33	25	19.6	16.3	14.0	12.3	10.9	9.8
	60	0.70	69	52	42	35	26	21	17.3	14.9	13.0	11.6	10.4
SJ3-08-VP	20	0.56	55	42	33	28	21	16.6	13.9	11.9	10.4	9.2	8.3
	30	0.72	71	53	43	36	27	21	17.8	15.3	13.4	11.9	10.7
	40	0.80	79	59	48	40	30	24	19.8	17.0	14.9	13.2	11.9
	50	0.88	87	65	52	44	33	26	22	18.7	16.3	14.5	13.1
	60	0.94	93	70	56	47	35	28	23	19.9	17.4	15.5	14.0
SJ3-10-VP	20	0.65	64	48	39	32	24	19.3	16.1	13.8	12.1	10.7	9.7
	30	0.90	89	67	53	45	33	27	22	19.1	16.7	14.9	13.4
	40	1.00	99	74	59	50	37	30	25	21	18.6	16.5	14.9
	50	1.11	110	82	66	55	41	33	27	24	21	18.3	16.5
	60	1.19	118	88	71	59	44	35	29	25	22	19.6	17.7
SJ3-15-VP	20	0.99	98	74	59	49	37	29	25	21	18.4	16.3	14.7
	30	1.24	123	92	74	61	46	37	31	26	23	20	18.4
	40	1.50	149	111	89	74	56	45	37	32	28	25	22
	50	1.68	166	125	100	83	62	50	42	36	31	28	25
	60	1.83	181	136	109	91	68	54	45	39	34	30	27
SJ3-20-VP	20	1.41	140	105	84	70	52	42	35	30	26	23	21
	30	1.75	173	130	104	87	65	52	43	37	32	29	26
	40	2.00	198	149	119	99	74	59	50	42	37	33	30
	50	2.28	226	169	135	113	85	68	56	48	42	38	34
	60	2.49	247	185	148	123	92	74	62	53	46	41	37

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C).



Description

StreamJet 3

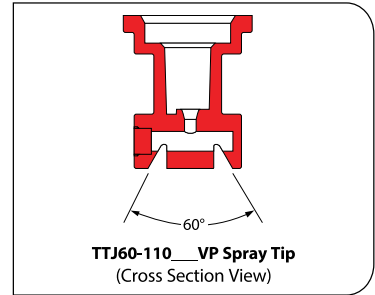
TURBO TWINJET FLAT SPRAY TIPS

Features

- Dual outlet design produces two 110° flat fan spray patterns
- The angle between each spray pattern is 60° forward and back
- Best suited for broadcast spraying where superior leaf coverage and canopy penetration is important
- Pressure ranges from 20-90 PSI
- Available in eight VisiFlo® color coded capacities - color represents total flow
- Ideal for use with automatic sprayer controllers
- Uses 114441-* CELR Quick TeeJet® cap and gasket (old part number: 25612-* N-YR)

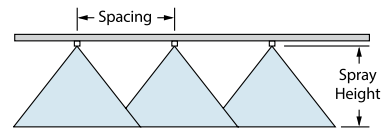


TIPO	PSI	DROP SIZE	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	20°										GALLONS PER 1000 SQ. FT.			
					GPA													
					4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH		
TTJ60-11002 (100)	20	C	0.14	18	10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1	0.48	0.32	0.24	0.19		
	30	C	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23		
	40	M	0.20	26	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27		
	50	M	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30		
	60	M	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33		
TTJ60-110025 (100)	20	VC	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24		
	30	C	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30		
	40	C	0.25	32	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34		
	50	M	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38		
	60	M	0.31	40	23	18.4	15.3	11.5	8.2	7.7	6.1	4.6	1.1	0.70	0.53	0.42		
TTJ60-11003 (100)	20	VC	0.21	27	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.71	0.48	0.36	0.29		
	30	C	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35		
	40	C	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41		
	50	M	0.34	44	25	20	16.8	12.6	10.1	8.4	6.7	5.0	1.2	0.77	0.58	0.46		
	60	M	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50		
TTJ60-11004 (50)	20	VC	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38		
	30	C	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48		
	40	C	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54		
	50	M	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61		
	60	M	0.49	63	36	29	24	18.2	14.6	12.1	9.7	7.3	1.7	1.1	0.83	0.67		
TTJ60-11005 (50)	20	VC	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48		
	30	C	0.43	55	32	26	21	16.0	12.8	10.6	8.5	6.4	1.5	0.97	0.73	0.58		
	40	C	0.50	64	37	30	25	18.6	14.9	12.4	9.9	7.4	1.7	1.1	0.85	0.68		
	50	C	0.56	72	42	33	28	21	16.6	13.9	11.1	8.3	1.9	1.3	0.95	0.76		
	60	M	0.61	78	45	36	30	23	18.1	15.1	12.1	9.1	2.1	1.4	1.0	0.83		
TTJ60-11006 (50)	20	VC	0.42	54	31	25	21	15.6	12.5	10.4	8.3	6.2	1.4	0.95	0.71	0.57		
	30	C	0.52	67	39	31	26	19.3	15.4	12.9	10.3	7.7	1.8	1.2	0.88	0.71		
	40	C	0.60	77	45	36	30	22	17.8	14.9	11.9	8.9	2.0	1.4	1.0	0.82		
	50	C	0.67	86	50	40	33	25	19.9	16.6	13.3	9.9	2.3	1.5	1.1	0.91		
	60	M	0.73	93	54	43	36	27	22	18.1	14.5	10.8	2.5	1.7	1.2	0.99		
TTJ60-11008 (50)	20	VC	0.57	73	42	34	28	21	16.9	14.1	11.3	8.5	1.9	1.3	0.97	0.78		
	30	VC	0.69	88	51	41	34	26	20	17.1	13.7	10.2	2.3	1.6	1.2	0.94		
	40	C	0.80	102	59	48	40	30	24	19.8	15.8	11.9	2.7	1.8	1.4	1.09		
	50	C	0.89	114	66	53	44	33	26	22	17.6	13.2	3.0	2.0	1.5	1.2		
	60	C	0.98	125	73	58	49	36	29	24	19.4	14.6	3.3	2.2	1.7	1.3		
TTJ60-11010 (50)	20	VC	0.71	91	53	42	35	26	21	17.6	14.1	10.5	2.4	1.6	1.2	0.97		
	30	VC	0.87	111	65	52	43	32	26	22	17.2	12.9	3.0	2.0	1.5	1.2		
	40	VC	1.00	128	74	59	50	37	30	25	19.8	14.9	3.4	2.3	1.7	1.4		
	50	VC	1.12	143	83	67	55	42	33	28	22	16.6	3.8	2.5	1.9	1.5		
	60	C	1.22	156	91	72	60	45	36	30	24	18.1	4.1	2.8	2.1	1.7		
TTJ60-11003VP-C (100)	20	C	1.32	169	98	78	65	49	39	33	26	19.6	4.5	3.0	2.2	1.8		
	30	C	1.41	180	105	84	70	52	42	35	28	21	4.8	3.2	2.4	1.9		
	40	C	1.50	192	111	89	74	56	45	37	30	22	5.1	3.4	2.6	2.0		

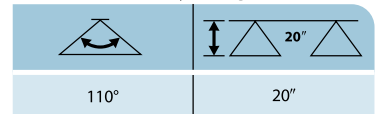


CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
EXCELLENT	EXCELLENT	VERY GOOD
VERY GOOD*	EXCELLENT*	EXCELLENT*

*At pressures below 30 PSI (2.0 bar)



Optimum Spray Height



NOTE: Always double check your application rates. Tabulations are based on spraying water at 70°F.

How to Order - Specify tip number.

Example:

TTJ60-11004VP - Polymer with VisiFlo® color-coding

TTJ60-11003VP-C - Polymer with VisiFlo color-coding, includes Quick TeeJet cap and gasket

TWINJET FLAT SPRAY NOZZLES

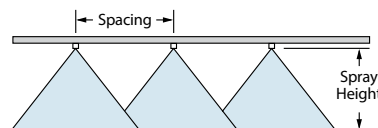
Features

- Penetrates crop residue or dense foliage
- Smaller droplets for thorough coverage
- Better spray distribution along boom than with hollow cone nozzle
- Available in stainless steel with VisiFlo® color-coding in 65°, 80° and 110° spray angles
- Recommended pressure rating 30-60 PSI
- Automatic spray alignment with 114443-* CELR Quick TeeJet® cap and gasket (old part number: 25598-* -NYR)



PSI	DROP SIZE	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	20"															
				GPA												GALLONS PER 1000 SQ. FT.			
				4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH				
30	VF	0.087	11	6.5	5.2	4.3	3.2	2.6	2.2	1.7	1.3	0.30	0.20	0.15	0.12				
	VF	0.094	12	7.0	5.6	4.7	3.5	2.8	2.3	1.9	1.4	0.32	0.21	0.16	0.13				
	VF	0.10	13	7.4	5.9	5.0	3.7	3.0	2.5	2.0	1.5	0.34	0.23	0.17	0.14				
	VF	0.11	14	8.2	6.5	5.4	4.1	3.3	2.7	2.2	1.6	0.37	0.25	0.19	0.15				
40	VF	0.12	15	8.9	7.1	5.9	4.5	3.6	3.0	2.4	1.8	0.41	0.27	0.20	0.16				
		0.12	15	8.9	7.1	5.9	4.5	3.6	3.0	2.4	1.8	0.41	0.27	0.20	0.16				
		0.13	17	9.7	7.7	6.4	4.8	3.9	3.2	2.6	1.9	0.44	0.29	0.22	0.18				
		0.134	17	9.9	8.0	6.6	5.0	4.0	3.3	2.7	2.0	0.46	0.30	0.23	0.18				
50		0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20				
		0.16	20	11.9	9.5	7.9	5.9	4.8	4.0	3.2	2.4	0.54	0.36	0.27	0.22				
	F	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23				
	VF	0.19	24	14.1	11.3	9.4	7.1	5.6	4.7	3.8	2.8	0.65	0.43	0.32	0.26				
60	VF	0.20	26	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27				
	VF	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30				
	VF	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33				
	F	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35				
30	F	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38				
	F	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41				
	F	0.34	44	25	20	16.8	12.6	10.1	8.4	6.7	5.0	1.2	0.77	0.58	0.46				
	F	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50				
30	M	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48				
	F	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50				
	F	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54				
	F	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61				
30	F	0.49	63	36	29	24	18.2	14.6	12.1	9.7	7.3	1.7	1.1	0.83	0.67				
	M	0.43	55	32	26	21	16.0	12.8	10.6	8.5	6.4	1.5	0.97	0.73	0.58				
	M	0.47	60	35	28	23	17.4	14.0	11.6	9.3	7.0	1.6	1.07	0.80	0.64				
	M	0.50	64	37	30	25	18.6	14.9	12.4	9.9	7.4	1.7	1.13	0.85	0.68				
30	F	0.56	72	42	33	28	21	16.6	13.9	11.1	8.3	1.9	1.3	0.95	0.76				
	F	0.61	78	45	36	30	23	18.1	15.1	12.1	9.1	2.1	1.4	1.04	0.83				
	M	0.52	67	39	31	26	19.3	15.4	12.9	10.3	7.7	1.8	1.2	0.88	0.71				
	M	0.56	72	42	33	28	21	16.6	13.9	11.1	8.3	1.9	1.3	0.95	0.76				
30	M	0.60	77	45	36	30	22	17.8	14.9	11.9	8.9	2.0	1.4	1.0	0.82				
	F	0.67	86	50	40	33	25	19.9	16.6	13.3	9.9	2.3	1.5	1.1	0.91				
	F	0.73	93	54	43	36	27	22	18.1	14.5	10.8	2.5	1.7	1.2	0.99				
	C	0.69	88	51	41	34	26	20	17.1	13.7	10.2	2.3	1.6	1.2	0.94				
30	M	0.75	96	56	45	37	28	22	18.6	14.9	11.1	2.6	1.7	1.3	1.0				
	M	0.80	102	59	48	40	30	24	19.8	15.8	11.9	2.7	1.8	1.4	1.1				
	M	0.89	114	66	53	44	33	26	22	17.6	13.2	3.0	2.0	1.5	1.2				
	M	0.98	125	73	58	49	36	29	24	19.4	14.6	3.3	2.2	1.7	1.3				
30	C	0.87	111	65	52	43	32	26	22	17.2	12.9	3.0	2.0	1.5	1.2				
	C	0.94	120	70	56	47	35	28	23	18.6	14.0	3.2	2.1	1.6	1.3				
	M	1.00	128	74	59	50	37	30	25	19.8	14.9	3.4	2.3	1.7	1.4				
	M	1.12	143	83	67	55	42	33	28	22	16.6	3.8	2.5	1.9	1.5				
30	M	1.22	156	91	72	60	45	36	30	24	18.1	4.1	2.8	2.1	1.7				

CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
EXCELLENT	—	—



Optimum Spray Height

Spray Angle	Optimum Spray Height
65°	35"
80°	30"
110°	20"

How to order:

Specify tip number.

Example:

TJ60-8002VS – Stainless Steel with VisiFlo color-coding

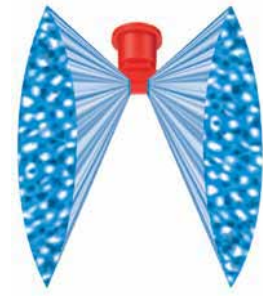
Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C).



AIR INDUCTION TURBO TWINJET FLAT SPRAY TIPS

Features

- Air induction with dual 110° flat fan patterns
- 60° between leading and trailing spray patterns
- Best suited for post emergence applications
- Pressure ranges from 20-90 PSI
- Excellent drift control with coarse to very coarse droplets
- Available in nine VisiFlo® color coded capacities - color represents total flow
- Automatic spray alignment with 114443-*CELR Quick TeeJet® cap and gasket (old part number: 25598-*NJR)



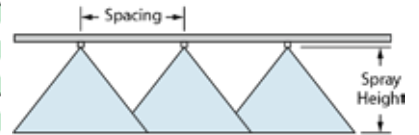
PSI	DROP SIZE	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	20"																											
				GPA								GALLONS PER 1000 SQ. FT.																			
				4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH																
20	XC	0.14	18	10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1	0.48	0.32	0.24	0.19	20	UC	0.21	27	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.71	0.48	0.36	0.29
30	VC	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23	30	XC	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35
40	C	0.20	26	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27	40	VC	0.25	32	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34
50	C	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30	50	C	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38
60	C	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33	60	C	0.31	40	23	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.1	0.70	0.53	0.42
70	C	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35	70	C	0.33	42	25	19.6	16.3	12.3	9.8	8.2	6.5	4.9	1.1	0.75	0.56	0.45
80	C	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38	80	C	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48
90	C	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41	90	C	0.38	49	28	23	18.8	14.1	11.3	9.4	7.5	5.6	1.3	0.86	0.65	0.52
20	XC	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24	20	UC	0.21	27	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.71	0.48	0.36	0.29
30	VC	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30	30	XC	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35
40	VC	0.25	32	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34	40	VC	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41
50	C	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38	50	VC	0.34	44	25	20	16.8	12.6	10.1	8.4	6.7	5.0	1.2	0.77	0.58	0.46
60	C	0.31	40	23	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.1	0.70	0.53	0.42	60	C	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50
70	C	0.33	42	25	19.6	16.3	12.3	9.8	8.2	6.5	4.9	1.1	0.75	0.56	0.45	70	C	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54
80	C	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48	80	C	0.42	54	31	25	21	15.6	12.5	10.4	8.3	6.2	1.4	0.95	0.71	0.57
90	C	0.38	49	28	23	18.8	14.1	11.3	9.4	7.5	5.6	1.3	0.86	0.65	0.52	90	C	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61
20	XC	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24	20	UC	0.21	27	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.71	0.48	0.36	0.29
30	VC	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30	30	XC	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35
40	VC	0.25	32	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34	40	VC	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41
50	C	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38	50	VC	0.34	44	25	20	16.8	12.6	10.1	8.4	6.7	5.0	1.2	0.77	0.58	0.46
60	C	0.31	40	23	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.1	0.70	0.53	0.42	60	C	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50
70	C	0.33	42	25	19.6	16.3	12.3	9.8	8.2	6.5	4.9	1.1	0.75	0.56	0.45	70	C	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54
80	C	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48	80	C	0.42	54	31	25	21	15.6	12.5	10.4	8.3	6.2	1.4	0.95	0.71	0.57
90	C	0.38	49	28	23	18.8	14.1	11.3	9.4	7.5	5.6	1.3	0.86	0.65	0.52	90	C	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61
20	XC	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24	20	UC	0.21	27	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.71	0.48	0.36	0.29
30	VC	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30	30	XC	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35
40	VC	0.25	32	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34	40	VC	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41
50	C	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38	50	VC	0.34	44	25	20	16.8	12.6	10.1	8.4	6.7	5.0	1.2	0.77	0.58	0.46
60	C	0.31	40	23	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.1	0.70	0.53	0.42	60	C	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50
70	C	0.33	42	25	19.6	16.3	12.3	9.8	8.2	6.5	4.9	1.1	0.75	0.56	0.45	70	C	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54
80	C	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48	80	C	0.42	54	31	25	21	15.6	12.5	10.4	8.3	6.2	1.4	0.95	0.71	0.57
90	C	0.38	49	28	23	18.8	14.1	11.3	9.4	7.5	5.6	1.3	0.86	0.65	0.52	90	C	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61
20	XC	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24	20	UC	0.21	27	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.71	0.48	0.36	0.29
30	VC	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30	30	XC	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35
40	VC	0.25	32	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34	40	VC	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41
50	C	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38	50	VC	0.34	44	25	20	16.8	12.6	10.1	8.4	6.7	5.0	1.2	0.77	0.58	0.46
60	C	0.31	40	23	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.1	0.70	0.53	0.42	60	C	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50
70	C	0.33	42	25	19.6	16.3	12.3	9.8	8.2	6.5	4.9	1.1	0.75	0.56	0.45	70	C	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54
80	C	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48	80	C	0.42	54	31	25	21	15.6	12.5	10.4	8.3	6.2	1.4	0.95	0.71	0.57
90	C	0.38	49	28	23	18.8	14.1	11.3	9.4	7.5	5.6	1.3	0.86	0.65	0.52	90	C	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61
20	XC	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24	20	UC	0.21	27	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.71	0.48	0.36	0.29
30	VC	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30	30	XC	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35
40	VC	0.25	32	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34	40	VC	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41
50	C	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95																			

Features

- Tapered edge flat spray pattern for uniform coverage in broadcast spraying
- VisiFlo color-coded version available in stainless steel, ceramic and polymer in 80° or 110° spray angles in selected sizes
- Available in ceramic 80° capacities 01-02 and 110° capacities 01-015
- Standard version (not color-coded) available in 15°, 25°, 40°, 50° and 65° spray angles in brass, stainless steel or hardened stainless steel
- Automatic spray alignment with 114441*-CELR Quick TeeJet® cap and gasket. (Old part number: 25612*-NYR)
- Automatic spray alignment for sizes 10 through 20 with 25610*-NYR Quick TeeJet® cap and gasket.



TIPO	PSI	DROPSIZE	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	20°										GALLONS PER 1000 SQ. FT.				
					GPA														
					4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH			
TP650050†	30		0.043	5.5	3.2	2.6	2.1	1.6	1.3	1.1	0.85	0.64	0.15	0.10	0.07	0.06			
TP800050†	35		0.047	6.0	3.5	2.8	2.3	1.7	1.4	1.2	0.93	0.70	0.16	0.11	0.08	0.06			
TP1100050†	40		0.050	6.4	3.7	3.0	2.5	1.9	1.5	1.2	0.99	0.74	0.17	0.11	0.09	0.07			
TP1100050†	50		0.056	7.2	4.2	3.3	2.8	2.1	1.7	1.4	1.1	0.83	0.19	0.13	0.10	0.08			
TP1100050†	60		0.061	7.8	4.5	3.6	3.0	2.3	1.8	1.5	1.2	0.91	0.21	0.14	0.10	0.08			
TP650067†	30		0.058	7.4	4.3	3.4	2.9	2.2	1.7	1.4	1.1	0.86	0.20	0.13	0.10	0.08			
TP800067†	35		0.063	8.1	4.7	3.7	3.1	2.3	1.9	1.6	1.2	0.94	0.21	0.14	0.11	0.09			
TP1100067†	40		0.067	8.6	5.0	4.0	3.3	2.5	2.0	1.7	1.3	0.99	0.23	0.15	0.11	0.09			
TP1100067†	50		0.075	9.6	5.6	4.5	3.7	2.8	2.2	1.9	1.5	1.1	0.26	0.17	0.13	0.10			
TP1100067†	60		0.082	10	6.1	4.9	4.1	3.0	2.4	2.0	1.6	1.2	0.28	0.19	0.14	0.11			
TP6501†	30	F	0.087	11	6.5	5.2	4.3	3.2	2.6	2.2	1.7	1.3	0.30	0.20	0.15	0.12			
TP8001	35	F	0.094	12	7.0	5.6	4.7	3.5	2.8	2.3	1.9	1.4	0.32	0.21	0.16	0.13			
TP11001	40	F	0.10	13	7.4	5.9	5.0	3.7	3.0	2.5	2.0	1.5	0.34	0.23	0.17	0.14			
TP11001	50	F	0.11	14	8.2	6.5	5.4	4.1	3.3	2.7	2.2	1.6	0.37	0.25	0.19	0.15			
TP11001	60	F	0.12	15	8.9	7.1	5.9	4.5	3.6	3.0	2.4	1.8	0.41	0.27	0.20	0.16			
TP65015†	30	F	0.13	17	9.7	7.7	6.4	4.8	3.9	3.2	2.6	1.9	0.44	0.29	0.22	0.18			
TP80015	35	F	0.14	18	10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1	0.48	0.32	0.24	0.19			
TP110015	40	F	0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20			
TP110015	50	F	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23			
TP110015	60	F	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24			
TP6502†	30	M	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23			
TP8002	35	M	0.19	24	14.1	11.3	9.4	7.1	5.6	4.7	3.8	2.8	0.65	0.43	0.32	0.26			
TP11002	40	F	0.20	26	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27			
TP11002	50	F	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30			
TP11002	60	F	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33			
TP6503†	30	M	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35			
TP8003	35	M	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38			
TP11003	40	M	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41			
TP11003	50	M	0.34	44	25	20	16.8	12.6	10.1	8.4	6.7	5.0	1.2	0.77	0.58	0.46			
TP11003	60	F	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50			
TP6504†	30	M	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48			
TP8004	35	M	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50			
TP11004	40	M	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54			
TP11004	50	M	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61			
TP11004	60	M	0.49	63	36	29	24	18.2	14.6	12.1	9.7	7.3	1.7	1.1	0.83	0.67			
TP6505†	30	C	0.43	55	32	26	21	16.0	12.8	10.6	8.5	6.4	1.5	0.97	0.73	0.58			
TP8005	35	M	0.47	60	35	28	23	17.4	14.0	11.6	9.3	7.0	1.6	1.1	0.80	0.64			
TP11005	40	M	0.50	64	37	30	25	18.6	14.9	12.4	9.9	7.4	1.7	1.1	0.85	0.68			
TP11005	50	M	0.56	72	42	33	28	21	16.6	13.9	11.1	8.3	1.9	1.3	0.95	0.76			
TP11005	60	M	0.61	78	45	36	30	23	18.1	15.1	12.1	9.1	2.1	1.4	1.0	0.83			
TP6506†	30	C	0.52	67	39	31	26	19.3	15.4	12.9	10.3	7.7	1.8	1.2	0.88	0.71			
TP8006	35	C	0.56	72	42	33	28	21	16.6	13.9	11.1	8.3	1.9	1.3	0.95	0.76			
TP11006	40	C	0.60	77	45	36	30	22	17.8	14.9	11.9	8.9	2.0	1.4	1.0	0.82			
TP11006	50	C	0.67	86	50	40	33	25	19.9	16.6	13.3	9.9	2.3	1.5	1.1	0.91			
TP11006	60	C	0.73	93	54	43	36	27	22	18.1	14.5	10.8	2.5	1.7	1.2	0.99			
TP6508†	30	C	0.69	88	51	41	34	26	20	17.1	13.7	10.2	2.3	1.6	1.2	0.94			
TP8008	35	C	0.75	96	56	45	37	28	22	18.6	14.9	11.1	2.6	1.7	1.3	1.0			
TP11008	40	C	0.80	102	59	48	40	30	24	19.8	15.8	11.9	2.7	1.8	1.4	1.1			
TP11008	50	C	0.89	114	66	53	44	33	26	22	17.6	13.2	3.0	2.0	1.5	1.2			
TP11008	60	C	0.98	125	73	58	49	36	29	24	19.4	14.6	3.3	2.2	1.7	1.3			
TP6510†	30		0.87	111	65	52	43	32	26	22	17.2	12.9	3.0	2.0	1.5	1.2			
TP8010†	35		0.94	120	70	56	47	35	28	23	18.6	14.0	3.2	2.1	1.6	1.3			
TP11010†	40		1.00	128	74	59	50	37	30	25	19.8	14.9	3.4	2.3	1.7	1.4			
TP11010†	50		1.12	143	83	67	55	42	33	28	22	16.6	3.8	2.5	1.9	1.5			
TP11010†	60		1.22	156	91	72	60	45	36	30	24	18.1	4.1	2.8	2.1	1.7			
TP6515†	30		1.30	166	97	77	64	48	39	32	26	19.3	4.4	2.9	2.2	1.8			
TP8015†	35		1.40	179	104	83	69	52	42	35	28	21	4.8	3.2	2.4	1.9			
TP11015†	40		1.50	192	111	89	74	56	45	37	30	22	5.1	3.4	2.6	2.0			
TP11015†	50		1.68	215	125	100	83	62	50	42	33	25	5.7	3.8	2.9	2.3			
TP11015†	60		1.84	236	137	109	91	68	55	46	36	27	6.3	4.2	3.1	2.5			
TP6520†	30		1.73	221	128	103	86	64	51	43	34	26	5.9	3.9	2.9	2.4			
TP8020†	35		1.87	239	139	111	93	69	56	46	37	28	6.4	4.2	3.2	2.5			
TP11020†	40		2.00	256	149	119	99	74	59	50	40	30	6.8	4.5	3.4	2.7			
TP11020†	50		2.24	287	166	133	111	83	67	55	44	33	7.6	5.1	3.8	3.0			
TP11020†	60		2.45	314	182	146	121	91	73	61	49	36	8.3	5.6	4.2	3.3			



Optimum Spray Height

Spray Angle	Optimum Spray Height
65°	35"
80°	30"
110°	20"

How to order:

Specify tip number.

Examples:

- TP8002VS – Stainless Steel with VisiFlo color-coding
- TP11002VP – Polymer with VisiFlo color-coding
- TP11002-HSS – Hardened Stainless Steel
- TP8002-SS – Stainless Steel
- TP8002 – Brass

Description

VS

VP

Brass

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for drop size classification, useful formulas and other information.

†Available in brass and/or stainless steel and/or hardened stainless steel.



TURBO FLOOD TIPS

Features

- Excellent spray distribution for uniform coverage along the boom
- Nozzle design incorporates a pre-orifice to produce larger droplets for less drift
- Large, round orifice reduces clogging
- Stainless steel or polymer with VisiFlo® color-coding band for easy size identification
- Can be used with CP25600-^{*}-NYR Quick TeeJet® cap and gasket for automatic alignment

QCT Cam Lever Coupling Adapter

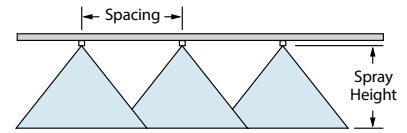
- Provides easy changeover from high capacity to lower capacity nozzles.
- Adapter fits standard 3/4" Cam lever coupling.
- Corrosion-resistant stainless steel and polypropylene construction.
- Rated up to 100 PSI (7 bar).
- Use QJT-NYB to retrofit to Quick TeeJet.



CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
—	VERY GOOD	EXCELLENT

TIPO	PSI	DROP SIZE	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	40"										20"			
					GPA										GALLONS PER 1000 SQ. FT.			
					4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH		
TF-†2 (50)	10	UC	0.20	26	7.4	5.9	5.0	3.7	3.0	2.5	2.0	1.5	0.68	0.45	0.34	0.27		
	20	XC	0.28	36	10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1	0.95	0.63	0.48	0.38		
	30	XC	0.35	45	13.0	10.4	8.7	6.5	5.2	4.3	3.5	2.6	1.2	0.79	0.60	0.48		
	40	VC	0.40	51	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	1.4	0.91	0.68	0.54		
TF-†2.5 (50)	10	UC	0.25	32	9.3	7.4	6.2	4.6	3.7	3.1	2.5	1.9	0.85	0.57	0.43	0.34		
	20	UC	0.35	45	13.0	10.4	8.7	6.5	5.2	4.3	3.5	2.6	1.2	0.79	0.60	0.48		
	30	XC	0.43	55	16.0	12.8	10.6	8.0	6.4	5.3	4.3	3.2	1.5	0.97	0.73	0.58		
TF-†3 (50)	10	UC	0.30	38	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	1.0	0.68	0.51	0.41		
	20	UC	0.42	54	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	1.4	0.95	0.71	0.57		
	30	XC	0.52	67	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	1.8	1.2	0.88	0.71		
TF-†4 (50)	10	UC	0.40	51	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	1.4	0.91	0.68	0.54		
	20	UC	0.57	73	21	16.9	14.1	10.6	8.5	7.1	5.6	4.2	1.9	1.3	0.97	0.78		
	30	XC	0.69	88	26	20	17.1	12.8	10.2	8.5	6.8	5.1	2.3	1.6	1.2	0.94		
TF-†5	10	UC	0.50	64	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	1.7	1.1	0.85	0.68		
	20	UC	0.71	91	26	21	17.6	13.2	10.5	8.8	7.0	5.3	2.4	1.6	1.2	0.97		
	30	UC	0.87	111	32	26	22	16.1	12.9	10.8	8.6	6.5	3.0	2.0	1.5	1.2		
TF-†7.5	10	UC	1.00	128	37	30	25	18.6	14.9	12.4	9.9	7.4	3.4	2.3	1.7	1.4		
	20	UC	1.06	136	39	31	26	19.7	15.7	13.1	10.5	7.9	3.6	2.4	1.8	1.4		
	30	UC	1.30	166	48	39	32	24	19.3	16.1	12.9	9.7	4.4	2.9	2.2	1.8		
TF-†10	10	UC	1.50	192	56	45	37	28	22	18.6	14.9	11.1	5.1	3.4	2.6	2.0		
	20	UC	1.00	128	37	30	25	18.6	14.9	12.4	9.9	7.4	3.4	2.3	1.7	1.4		
	30	UC	1.41	180	52	42	35	26	21	17.4	14.0	10.5	4.8	3.2	2.4	1.9		
TF-†10	30	UC	1.73	221	64	51	43	32	26	21	17.1	12.8	5.9	3.9	2.9	2.4		
	40	XC	2.00	256	74	59	50	37	30	25	19.8	14.9	6.8	4.5	3.4	2.7		

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). †Specify material.



Optimum Spray Height

Spacing	Optimum Spray Height
20"	24"
30"	30"
40"	39"

*Wide angle spray nozzle height is influenced by nozzle orientation. The critical factor is to achieve a minimum 30% overlap.

How to order:

Specify tip number.

Examples:

- TF-VS4 – Stainless Steel with VisiFlo color-coding
- TF-VP4 – Polymer with VisiFlo color-coding

Description

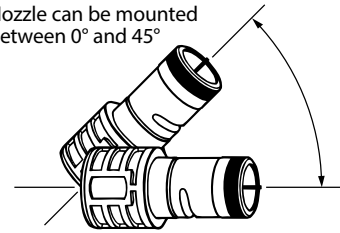
Stainless
Poly



The revolutionary Quick Turbo FloodJet nozzle combines the precision and uniformity of a flat spray nozzle with the clog-resistance and wide angle pattern of flooding nozzles. It uses an exclusive new design to increase droplet size and distribution uniformity.

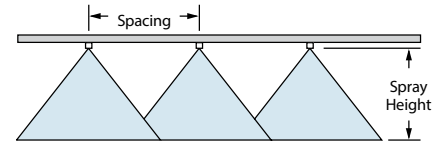


Nozzle can be mounted between 0° and 45°



Features

- Patented turbulence chamber creates a dramatic improvement in pattern uniformity
- Pre-orifice design produces larger droplets for reduced drift
- Large, round orifice reduces clogging
- 1.26" diameter tip body fits into 3/4" cam lever coupling
- Grooved side molding for automatic alignment
- Stainless steel with color-coding for easy size identification
- Available in standard sizes from 1.5 GPM up to 24.0 GPM at pressures of 10-40 PSI.



Optimum Spray Height*

40"	40"
60"	60"

*When nozzle is mounted parallel to the ground.

How to Order

Specify tip number. Example:
QCTF-VS40 - Stainless Steel with
VisiFlo® color-coding

SOIL INCORPORATED	PRE-EMERGENCE	DRIFT MANAGEMENT
EXCELLENT	EXCELLENT	EXCELLENT

Nozzle	PSI	CAPACITY ONE NOZZLE IN GPM	GPA 60" LARGE CAPACITY QUICK FLOODJET NOZZLES TYPICAL SPACING IS 60 INCHES										
			4 MPH	5 MPH	6 MPH	7 MPH	8 MPH	9 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH
QCTF-VS15	10	1.50	37	30	25	21	18.6	16.5	14.9	12.4	10.6	9.3	8.3
	20	2.12	52	42	35	30	26	23	21	17.5	15.0	13.1	11.7
	30	2.60	64	51	43	37	32	29	26	21	18.4	16.1	14.3
	40	3.00	74	59	50	42	37	33	30	25	21	18.6	16.5
QCTF-VS20	10	2.00	50	40	33	28	25	22	19.8	16.5	14.1	12.4	11.0
	20	2.83	70	56	47	40	35	31	28	23	20	17.5	15.6
	30	3.46	86	69	57	49	43	38	34	29	24	21	19.0
	40	4.00	99	79	66	57	50	44	40	33	28	25	22
QCTF-VS30	10	3.00	74	59	50	42	37	33	30	25	21	18.6	16.5
	20	4.24	105	84	70	60	52	47	42	35	30	26	23
	30	5.20	129	103	86	74	64	57	51	43	37	32	29
	40	6.00	149	119	99	85	74	66	59	50	42	37	33
QCTF-VS40	10	4.00	99	79	66	57	50	44	40	33	28	25	22
	20	5.66	140	112	93	80	70	62	56	47	40	35	31
	30	6.93	172	137	114	98	86	76	69	57	49	43	38
	40	8.00	198	158	132	113	99	88	79	66	57	50	44
QCTF-VS50	10	5.00	124	99	83	71	62	55	50	41	35	31	28
	20	7.07	175	140	117	100	87	78	70	58	50	44	39
	30	8.66	214	171	143	122	107	95	86	71	61	54	48
	40	10.00	248	198	165	141	124	110	99	83	71	62	55
QCTF-VS60	10	6.00	149	119	99	85	74	66	59	50	42	37	33
	20	8.49	210	168	140	120	105	93	84	70	60	53	47
	30	10.4	257	206	172	147	129	114	103	86	74	64	57
	40	12.0	297	238	198	170	149	132	119	99	85	74	66
QCTF-VS80	10	8.00	198	158	132	113	99	88	79	66	57	50	44
	20	11.3	280	224	186	160	140	124	112	93	80	70	62
	30	13.9	344	275	229	197	172	153	138	115	98	86	76
	40	16.0	396	317	264	226	198	176	158	132	113	99	88
QCTF-VS100	10	10.0	248	198	165	141	124	110	99	83	71	62	55
	20	14.1	349	279	233	199	174	155	140	116	100	87	78
	30	17.3	428	343	285	245	214	190	171	143	122	107	95
	40	20.0	495	396	330	283	248	220	198	165	141	124	110
QCTF-VS120	10	12.0	297	238	198	170	149	132	119	99	85	74	66
	20	17.0	421	337	281	240	210	187	168	140	120	105	94
	30	20.8	515	412	343	294	257	229	206	172	147	129	114
	40	24.0	594	475	396	339	297	264	238	198	170	149	132

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C).



Description

Flood Nozzle 15-80

Flood Nozzle 100-120

FLOODJET NOZZLES

How to Order

Specify tip number.Examples:

TK-VS5 - Stainless Steel with VisiFlo® color-coding

TK-VP3 - Polymer with VisiFlo® color-coding

(B)1/4K-5 - Brass

TK-SS5 - Stainless Steel

(B)1/8K-SS5 - Stainless Steel

QCK-SS100 - Stainless Steel with VisiFlo® color-coding



NOZZLE	PSI	CAPACITY ONE NOZZLE IN GPM	GPA \triangle 40° \triangle										
			4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH			
1/8K-50	10	0.050	—	—	—	—	—	—	—	—	—	—	—
TK-50 (100)	20	0.071	2.6	2.1	1.8	1.3	1.1	0.88	0.70	0.53	—	—	—
	30	0.087	3.2	2.6	2.2	1.6	1.1	0.86	0.65	—	—	—	—
	40	0.10	3.7	3.0	2.5	1.9	1.5	1.2	0.99	0.74	—	—	—
1/8K-75	10	0.075	2.8	2.2	1.9	1.4	1.1	0.93	0.74	0.56	—	—	—
TK-75 (100)	20	0.11	4.1	3.3	2.7	2.0	1.6	1.4	1.1	0.82	—	—	—
	30	0.13	4.8	3.9	3.2	2.4	1.9	1.6	1.3	0.97	—	—	—
	40	0.15	5.6	4.5	3.7	2.8	2.2	1.9	1.5	1.1	—	—	—
1/8K-1	10	0.10	3.7	3.0	2.5	1.9	1.5	1.2	0.99	0.74	—	—	—
TK-1 (100)	20	0.14	5.2	4.2	3.5	2.6	2.1	1.7	1.4	1.0	—	—	—
	30	0.17	6.3	5.0	4.2	3.2	2.5	2.1	1.7	1.3	—	—	—
	40	0.20	7.4	5.9	5.0	3.7	3.0	2.5	2.0	1.5	—	—	—
1/8K-1.5	10	0.15	5.6	4.5	3.7	2.8	2.2	1.9	1.5	1.1	—	—	—
TK-1.5 (50)	20	0.21	7.8	6.2	5.2	3.9	3.1	2.6	2.1	1.6	—	—	—
	30	0.26	9.7	7.7	6.4	4.8	3.9	3.2	2.6	1.9	—	—	—
	40	0.30	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	—	—	—
1/8K, 1/4K, TK]-2	10	0.20	7.4	5.9	5.0	3.7	3.0	2.5	2.0	1.5	—	—	—
TK-2 (50)	20	0.28	10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1	—	—	—
	30	0.35	13.0	10.4	8.7	6.5	5.2	4.3	3.5	2.6	—	—	—
	40	0.40	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	—	—	—
1/8K, 1/4K, TK]-2.5	10	0.25	9.3	7.4	6.2	4.6	3.7	3.1	2.5	1.9	—	—	—
TK-2.5 (50)	20	0.35	13.0	10.4	8.7	6.5	5.2	4.3	3.5	2.6	—	—	—
	30	0.43	16.0	12.8	10.6	8.0	6.4	5.3	4.3	3.2	—	—	—
	40	0.50	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	—	—	—
1/8K, 1/4K, TK]-3	10	0.30	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	—	—	—
[TK]-3 (50)	20	0.42	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	—	—	—
	30	0.52	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	—	—	—
	40	0.60	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	—	—	—
1/8K, 1/4K, TK]-4	10	0.40	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	—	—	—
TK-4 (50)	20	0.57	21	16.9	14.1	10.6	8.5	7.1	5.6	4.2	—	—	—
	30	0.69	26	20	17.1	12.8	10.2	8.5	6.8	5.1	—	—	—
	40	0.80	30	24	19.8	14.9	11.9	9.9	7.9	5.9	—	—	—
1/8K, 1/4K, TK]-5	10	0.50	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	—	—	—
[TK]-5 (50)	20	0.71	26	21	17.6	13.2	10.5	8.8	7.0	5.3	—	—	—
	30	0.87	32	26	22	16.1	12.9	10.8	8.6	6.5	—	—	—
	40	1.00	37	30	25	18.6	14.9	12.4	9.9	7.4	—	—	—
1/8K, 1/4K, TK]-7.5	10	0.75	28	22	18.6	13.9	11.1	9.3	7.4	5.6	—	—	—
TK-7.5 (50)	20	1.06	39	31	26	19.7	15.7	13.1	10.5	7.9	—	—	—
	30	1.30	48	39	32	24	19.3	16.1	12.9	9.7	—	—	—
	40	1.50	56	45	37	28	22	18.6	14.9	11.1	—	—	—
1/8K, 1/4K, TK]-10	10	1.00	37	30	25	18.6	14.9	12.4	9.9	7.4	—	—	—
TK-10 (50)	20	1.41	52	42	35	26	21	17.4	14.0	10.5	—	—	—
	30	1.73	64	51	43	32	26	21	17.1	12.8	—	—	—
	40	2.00	74	59	50	37	30	25	19.8	14.9	—	—	—
1/8K, 1/4K]-12	10	1.20	45	36	30	22	17.8	14.9	11.9	8.9	—	—	—
	20	1.70	63	50	42	32	25	21	16.8	12.6	—	—	—
	30	2.08	77	62	51	39	31	26	21	15.4	—	—	—
	40	2.40	89	71	59	45	36	30	24	17.8	—	—	—
1/8K, 1/4K]-15	10	1.50	56	45	37	28	22	18.6	14.9	11.1	—	—	—
TK-15	20	2.12	79	63	52	39	31	26	21	15.7	—	—	—
	30	2.60	97	77	64	48	39	32	26	19.3	—	—	—
	40	3.00	111	89	74	56	45	37	30	22	—	—	—
1/8K, 1/4K]-18	10	1.80	67	53	45	33	27	22	17.8	13.4	—	—	—
	20	2.55	95	76	63	47	38	32	25	19	—	—	—
	30	3.12	116	93	77	58	46	39	31	23	—	—	—
	40	3.60	134	107	89	67	53	45	36	27	—	—	—
1/8K, 1/4K]-20	10	2.00	74	59	50	37	30	25	19.8	14.9	—	—	—
TK-20	20	2.83	105	84	70	53	42	35	28	21	—	—	—
QCK-20	30	3.46	128	103	86	64	51	43	34	26	—	—	—
	40	4.00	149	119	99	74	59	50	40	30	—	—	—
1/4K-22	10	2.20	82	65	54	41	33	27	22	16.3	—	—	—
	20	3.11	115	92	77	58	46	38	31	23	—	—	—
	30	3.81	141	113	94	71	57	47	38	28	—	—	—
	40	4.40	163	131	109	82	65	54	44	33	—	—	—
1/4K-24	10	2.40	89	71	59	45	36	30	24	17.8	—	—	—
	20	3.39	126	101	84	63	50	42	34	25	—	—	—
	30	4.16	154	124	103	77	62	51	41	31	—	—	—
	40	4.80	178	143	119	89	71	59	48	36	—	—	—

NOZZLE	PSI	CAPACITY ONE NOZZLE IN GPM	GPA \triangle 60° \triangle										
			4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH			
1/4K-27	10	2.70	67	53	45	33	27	22	17.8	13.4	—	—	—
	20	3.82	95	76	63	47	38	32	25	18.9	—	—	—
	30	4.68	116	93	77	58	46	39	31	23	—	—	—
	40	5.40	134	107	89	67	53	45	36	27	—	—	—
3/8K-30	10	3.00	74	59	50	37	30	25	19.8	14.9	—	—	—
TK-30	20	4.24	105	84	70	52	42	35	28	21	—	—	—
QCK-30	30	5.20	129	103	86	64	51	43	34	26	—	—	—
	40	6.00	149	119	99	74	59	50	40	30	—	—	—
3/8K-35	10	3.50	87	69	58	43	35	29	23	17.3	—	—	—
	20	4.95	123	98	82	61	49	41	33	25	—	—	—
	30	6.06	150	120	100	75	60	50	40	30	—	—	—
	40	7.00	173	139	116	87	69	58	46	35	—	—	—
3/8K, 1/2K]-40	10	4.00	99	79	66	50	40	33	26	19.8	—	—	—
	20	5.66	140	112	93	70	56	47	37	28	—	—	—
QCK-40	30	6.93	172	137	114	86	69	57	46	34	—	—	—
	40	8.00	198	158	132	99	79	66	53	40	—	—	—
3/8K-45	10	4.50	111	89	74	56	45	37	30	22	—	—	—
	20	6.36	157	126	105	79	63	52	42	31	—	—	—
	30	7.79	193	154	129	96	77	64	51	39	—	—	—
	40	9.00	223	178	149	111	89	74	59	45	—	—	—
1/2K-50	10	5.00	124	99	83	62	50	41	33	25	—	—	—
	20	7.07	175	140	117	87	70	58	47	35	—	—	—
QCK-50	30	8.66	214	171	143	107	86	71	57	43	—	—	—
	40	10.0	248	198	165	124	99	83	66	50	—	—	—
1/2K-60	10	6.00	149	119	99	74	59	50	40	30	—	—	—
	20	8.49	210	168	140	105	84	70	56	42	—	—	—
QCK-60	30	10.4	257	206	171	129	103	86	69	51	—	—	—
	40	12.0	297	238	198	149	119	99	79	59	—	—	—
1/2K-70	10	7.00	173	139	116	87	69	58	46	35	—	—	—
	20	9.90	245	196	163	123	98	82	65	49	—	—	—
	30	12.1	300	240	200	150	120	100	80	60	—	—	—
	40	14.0	347	277	231	173	139	116	92	69	—	—	—
1/2K, 3/4K]-80	10	8.00	198	158	132	99	79	66	53	40	—	—	—
	20	11.3	280	224	186	140	112	93	75	56	—	—	—
QCK-80	30	13.9	344	275	229	172	138	115	92	69	—	—	—
	40	16.0	396	317	264	198	158	132	106	79	—	—	—
1/2K, 3/4K]-90	10	9.00	223	178	149	111	89	74	59	45	—	—	—
	20	1											

STREAMJET FERTILIZER NOZZLES

Typical Application

- Excellent for application of liquid fertilizer on bare ground or in standing crop
- 7-stream pattern is ideal for broadcast application

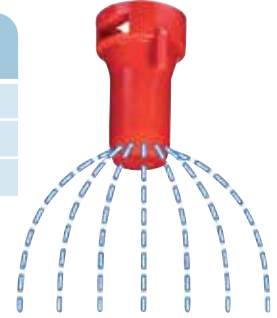
Features

- Creates seven identical fluid streams of equal velocity and capacity
- Excellent spray distribution quality

- Removable metering orifice for easy cleaning
- Offered in a variety of sizes for a wide range of application rates
- VisiFlo® color-coding for easy capacity identification
- All acetal construction for excellent chemical resistance
- Recommended operating pressure: 20-60 PSI
- Solid stream pattern minimizes leaf burn and virtually eliminates drift

Optimum Spray Height

20"	20"
30"	30"
40"	40"



How to order:

Specify nozzle number.
Example: SJ7-04-VP



50854-NYB
Extension Adapter



		CAPACITY ONE NOZZLE IN GPM	GPA										
			3 MPH	4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH
SJ7-015-VP (100)	20	0.10	9.9	7.4	5.9	5.0	3.7	3.0	2.5	2.1	1.9	1.7	1.5
	30	0.12	11.9	8.9	7.1	5.9	4.5	3.6	3.0	2.5	2.2	2.0	1.8
	40	0.15	14.9	11.1	8.9	7.4	5.6	4.5	3.7	3.2	2.8	2.5	2.2
	50	0.16	15.8	11.9	9.5	7.9	5.9	4.8	4.0	3.4	3.0	2.6	2.4
SJ7-02-VP (50)	20	0.14	13.9	10.4	8.3	6.9	5.2	4.2	3.5	3.0	2.6	2.3	2.1
	30	0.17	16.8	12.6	10.1	8.4	6.3	5.0	4.2	3.6	3.2	2.8	2.5
	40	0.20	19.8	14.9	11.9	9.9	7.4	5.9	5.0	4.2	3.7	3.3	3.0
	50	0.23	23	17.1	13.7	11.4	8.5	6.8	5.7	4.9	4.3	3.8	3.4
SJ7-03-VP (50)	20	0.22	22	16.3	13.1	10.9	8.2	6.5	5.4	4.7	4.1	3.6	3.3
	30	0.27	27	20	16.0	13.4	10.0	8.0	6.7	5.7	5.0	4.5	4.0
	40	0.30	30	22	17.8	14.9	11.1	8.9	7.4	6.4	5.6	5.0	4.5
	50	0.33	33	25	19.6	16.3	12.3	9.8	8.2	7.0	6.1	5.4	4.9
SJ7-04-VP (50)	20	0.30	30	22	17.8	14.9	11.1	8.9	7.4	6.4	5.6	5.0	4.5
	30	0.35	35	26	21	17.3	13.0	10.4	8.7	7.4	6.5	5.8	5.2
	40	0.40	40	30	24	19.8	14.9	11.9	9.9	8.5	7.4	6.6	5.9
	50	0.43	43	32	26	21	16.0	12.8	10.6	9.1	8.0	7.1	6.4
SJ7-05-VP (50)	20	0.38	38	28	23	18.8	14.1	11.3	9.4	8.1	7.1	6.3	5.6
	30	0.45	45	33	27	22	16.7	13.4	11.1	9.5	8.4	7.4	6.7
	40	0.50	50	37	30	25	18.6	14.9	12.4	10.6	9.3	8.3	7.4
	50	0.54	53	40	32	27	20	16.0	13.4	11.5	10.0	8.9	8.0
SJ7-06-VP (50)	20	0.45	45	33	27	22	16.7	13.4	11.1	9.5	8.4	7.4	6.7
	30	0.54	53	40	32	27	20	16.0	13.4	11.5	10.0	8.9	8.0
	40	0.60	59	45	36	30	22	17.8	14.9	12.7	11.1	9.9	8.9
	50	0.65	64	48	39	32	24	19.3	16.1	13.8	12.1	10.7	9.7
SJ7-08-VP	20	0.57	56	42	34	28	21	16.9	14.1	12.1	10.6	9.4	8.5
	30	0.72	71	53	43	36	27	21	17.8	15.3	13.4	11.9	10.7
	40	0.80	79	59	48	40	30	24	19.8	17.0	14.9	13.2	11.9
	50	0.87	86	65	52	43	32	26	22	18.5	16.1	14.4	12.9
SJ7-10-VP	20	0.93	92	69	55	46	35	28	23	19.7	17.3	15.3	13.8
	30	0.71	70	53	42	35	26	21	17.6	15.1	13.2	11.7	10.5
	40	0.90	89	67	53	45	33	27	22	19.1	16.7	14.9	13.4
	50	1.00	99	74	59	50	37	30	25	21	18.6	16.5	14.9
SJ7-15-VP	20	1.09	108	81	65	54	40	32	27	23	20	18.0	16.2
	30	1.16	115	86	69	57	43	34	29	25	22	19.1	17.2
	40	1.03	102	76	61	51	38	31	25	22	19.1	17.0	15.3
	50	1.29	128	96	77	64	48	38	32	27	24	21	19.2
SJ7-15-VP	20	1.50	149	111	89	74	56	45	37	32	28	25	22
	30	1.64	162	122	97	81	61	49	41	35	30	27	24
	40	1.76	174	131	105	87	65	52	44	37	33	29	26
	50	1.76	174	131	105	87	65	52	44	37	33	29	26

Note: Always double check your application rates.
Tabulations are based on spraying water at 70°F (21°C).



BOOMJET NOZZLES

Typical Application

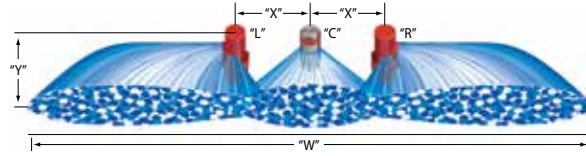
- Boomless field spray applications
- Roadside and right-of-way applications
- End row & orchard spraying
- De-icing applications
- Forestry

Features

- Unique orifice geometry produces a wide spray pattern while maintaining superior distribution across entire width
- Pre-orifice design minimizes drift
- Extra wide spray pattern - up to 18.5' using a single nozzle
- Removable polymer pre-orifice
- Acetal or stainless steel construction for excellent chemical resistance
- Recommended spray pressure range: 20-60 PSI
- NPT or BSPT (male) threads for easy installation
- Color-coding for easy capacity identification
- 10 capacity only available in VP

How to Order

Specify part number. Example:
(B)1/2XP80L(R)-VS -
VisiFlo® Stainless Steel left boom spray



CENTER NOZZLE "C"	PSI	DROP SIZE	CAPACITY THREE NOZZLES IN GPM	NOZZLE SPACING "X" = 20"																					
				SPRAY WIDTH "W" (FEET)		HEIGHT "Y" = 24"										HEIGHT "Y" = 36"									
				24" HEIGHT	36" HEIGHT	GPA FOR THREE NOZZLES					GALLONS PER 1000 SQ. FT.					GPA FOR THREE NOZZLES				GALLONS PER 1000 SQ. FT.					
		4 MPH	6 MPH	8 MPH	10 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH	4 MPH	6 MPH	8 MPH	10 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH				
(B)1/4XP10R (B)1/4XP10L	1/4TTJ08	30 UC	2.43	23.3	25.3	12.9	8.6	6.5	5.2	3.4	2.6	0.59	0.39	0.30	0.24	11.9	7.9	5.9	4.8	3.2	2.4	0.54	0.36	0.27	0.22
		40 UC	2.80	25.3	28.3	13.7	9.1	6.8	5.5	3.7	2.7	0.63	0.42	0.31	0.25	12.2	8.2	6.1	4.9	3.3	2.4	0.56	0.37	0.28	0.22
		60 UC	3.13	28.3	30.3	13.7	9.1	6.8	5.5	3.6	2.7	0.63	0.42	0.31	0.25	12.8	8.5	6.4	5.1	3.4	2.6	0.59	0.39	0.29	0.23
(B)1/4XP20R (B)1/4XP20L	1/4TTJ08	30 UC	4.19	26.3	27.3	19.7	13.1	9.9	7.9	5.3	3.9	0.90	0.60	0.45	0.36	19.0	12.7	9.5	7.6	5.1	3.8	0.87	0.58	0.43	0.35
		40 UC	4.80	30.3	31.3	19.6	13.1	9.8	7.8	5.2	3.9	0.90	0.60	0.45	0.36	19.0	12.7	9.5	7.6	5.1	3.8	0.87	0.58	0.43	0.35
		50 UC	5.39	32.3	33.3	21	13.8	10.3	8.3	5.5	4.1	0.95	0.63	0.47	0.38	20	13.4	10.0	8.0	5.3	4.0	0.92	0.61	0.46	0.37
(B)1/4XP25R (B)1/4XP25L	1/4TTJ10	30 UC	5.13	27.3	30.3	23	15.5	11.6	9.3	6.2	4.7	1.1	0.71	0.53	0.43	21	14.0	10.5	8.4	5.6	4.2	0.96	0.64	0.48	0.38
		40 UC	6.00	30.3	32.3	25	16.3	12.3	9.8	6.5	4.9	1.1	0.75	0.56	0.45	23	15.3	11.5	9.2	6.1	4.6	1.1	0.70	0.53	0.42
		50 UC	6.62	32.3	33.3	25	16.9	12.7	10.1	6.8	5.1	1.2	0.77	0.58	0.46	25	16.4	12.3	9.8	6.6	4.9	1.1	0.75	0.56	0.45
(B)1/2XP40R (B)1/2XP40L	1/4TTJ15	30 UC	8.36	29.3	32.3	35	24	17.7	14.1	9.4	7.1	1.6	1.1	0.81	0.65	32	21	16.0	12.8	8.5	6.4	1.5	0.98	0.73	0.59
		40 UC	9.50	31.3	34.3	38	25	18.8	15.0	10.0	7.5	1.7	1.1	0.86	0.69	34	23	17.1	13.7	9.1	6.9	1.6	1.0	0.78	0.63
		50 UC	10.8	33.3	35.3	40	27	20	16.1	10.7	8.0	1.8	1.2	0.92	0.74	38	25	18.9	15.1	10.1	7.6	1.7	1.2	0.87	0.69
		60 UC	11.8	35.3	38.3	41	28	21	16.5	11.0	8.3	1.9	1.3	0.95	0.76	38	25	19.1	15.3	10.2	7.6	1.7	1.2	0.87	0.70

CENTER NOZZLE "C"	PSI	DROP SIZE	CAPACITY ONE NOZZLE IN GPM	SPRAY WIDTH "W" (FEET)		HEIGHT "Y" = 24"										HEIGHT "Y" = 36"									
				24" HEIGHT	36" HEIGHT	GPA FOR ONE NOZZLE					GALLONS PER 1000 SQ. FT.					GPA FOR ONE NOZZLE					GALLONS PER 1000 SQ. FT.				
						4 MPH	6 MPH	8 MPH	10 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH	4 MPH	6 MPH	8 MPH	10 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH
(B)1/4XP10R (B)1/4XP10L	20 UC	0.71	8.5	10.0	10.3	6.9	5.2	4.1	2.8	2.1	0.47	0.32	0.24	0.19	8.8	5.9	4.4	3.5	2.3	1.8	0.40	0.27	0.20	0.16	
	30 UC	0.87	10.0	11.0	10.8	7.2	5.4	4.3	2.9	2.2	0.49	0.33	0.25	0.20	9.8	6.5	4.9	3.9	2.6	2.0	0.45	0.30	0.22	0.18	
	40 UC	1.00	11.0	12.5	11.3	7.5	5.6	4.5	3.0	2.3	0.52	0.34	0.26	0.21	9.9	6.6	5.0	4.0	2.6	2.0	0.45	0.30	0.23	0.18	
	50 UC	1.12	12.5	13.5	11.1	7.4	5.5	4.4	3.0	2.2	0.51	0.34	0.25	0.20	10.3	6.8	5.1	4.1	2.7	2.1	0.47	0.31	0.24	0.19	
(B)1/4XP20R (B)1/4XP20L	20 UC	1.42	9.0	11.0	19.5	13.0	9.8	7.8	5.2	3.9	0.89	0.60	0.45	0.36	16.0	10.7	8.0	6.4	4.3	3.2	0.73	0.49	0.37	0.29	
	30 UC	1.75	11.5	12.0	18.8	12.6	9.4	7.5	5.0	3.8	0.86	0.57	0.43	0.34	18.0	12.0	9.0	7.2	4.8	3.6	0.83	0.55	0.41	0.33	
	40 UC	2.00	13.5	14.0	18.3	12.2	9.2	7.3	4.9	3.7	0.84	0.56	0.42	0.34	17.7	11.8	8.8	7.1	4.7	3.5	0.81	0.54	0.40	0.32	
	50 UC	2.25	14.5	15.0	19.2	12.8	9.6	7.7	5.1	3.8	0.88	0.59	0.44	0.35	18.6	12.4	9.3	7.4	5.0	3.7	0.85	0.57	0.43	0.34	
(B)1/4XP25R (B)1/4XP25L	20 UC	1.74	10.5	11.0	21	13.7	10.3	8.2	5.5	4.1	0.94	0.63	0.47	0.38	19.6	13.1	9.8	7.8	5.2	3.9	0.90	0.60	0.45	0.36	
	30 UC	2.13	12.0	13.5	22	14.6	11.0	8.8	5.9	4.4	1.0	0.67	0.50	0.40	19.5	13.0	9.8	7.8	5.2	3.9	0.89	0.60	0.45	0.36	
	40 UC	2.50	13.5	14.5	23	15.3	11.5	9.2	6.1	4.6	1.0	0.70	0.52	0.42	21	14.2	10.7	8.5	5.7	4.3	0.98	0.65	0.49	0.39	
	50 UC	2.75	14.5	15.0	23	15.6	11.7	9.4	6.3	4.7	1.1	0.72	0.54	0.43	23	15.1	11.3	9.1	6.1	4.5	1.0	0.69	0.52	0.42	
(B)1/2XP40R (B)1/2XP40L	20 UC	3.00	15.0	16.0	25	16.5	12.4	9.9	6.6	5.0	1.1	0.76	0.57	0.45	23	15.5	11.6	9.3	6.2	4.6	1.1	0.71	0.53	0.43	
	30 UC	2.87	11.0	12.0	32	22	16.1	12.9	8.6	6.5	1.5	0.99	0.74	0.59	30	19.7	14.8	11.8	7.9	5.9	1.4	0.90	0.68	0.54	
	40 UC	3.53	13.0	14.5	34	22	16.8	13.4	9.0	6.7	1.5	1.0	0.77	0.62	30	20	15.1	12.1	8.0	6.0	1.4	0.92	0.69	0.55	
	50 UC	4.00	14.0	15.5	35	24	17.7	14.1	9.4	7.1	1.6	1.1	0.81	0.65	32	21	16.0	12.8	8.5	6.4	1.5	0.97	0.73	0.58	
(B)1/2XP80R (B)1/2XP80L	20 UC	4.55	15.0	16.0	38	25	18.8	15.0	10.0	7.5	1.7	1.1	0.86	0.69	35	23	17.6	14.1	9.4	7.0	1.6	1.1	0.81	0.64	
	30 UC	5.00	16.0	17.5	39	26	19.3	15.5	10.3	7.7	1.8	1.2	0.89	0.71	35	24	17.7	14.1	9.4	7.1	1.6	1.1	0.81	0.65	
	40 UC	5.60	13.0	15.5	53	36	27	21	14.2	10.7	2.4	1.6	1.2	0.98	45	30	22	17.9	11.9	8.9	2.0	1.4	1.0	0.82	
	50 UC	6.83	15.0	16.5	56	38	28	23	15.0	11.3	2.6	1.7	1.3	1.0	51	34	26	20	13.7	10.2	2.3	1.6	1.2	0.94	
(B)1/2XP80L	30 UC	8.00	16.0	17.5	62	41	31	25	16.5	12.4	2.8	1.9	1.4	1.1	57	38	28	23	15.1	11.3	2.6	1.7	1.3	1.0	
	50 UC	8.73	16.5	18.0	65	44	33	26	17.5	13.1	3.0	2.0	1.5	1.2	60	40	30	24	16.0	12.0	2.7	1.8	1.4	1.1	
		60 UC	9.60	17.5	18.5	68	45	34	27	18.1	13.6	3.1	2.1	1.6	1.2	64	43	32	26	17.1	12.8	2.9	2.0	1.5	1.2

Description

1/4XP20L or R XP Nozzle
1/4XP25L or R XP Nozzle

Description

1/2XP40L or R XP Nozzle
1/2XP80L or R XP Nozzle














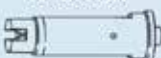
























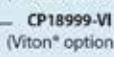









Color Code





1	2	3	4	5	6	7	8	9	10
Black	White	Red	Blue	Green	Yellow	Brown	Orange	Gray††	Violet

TEEJET QUICK CAPS

SPRAY TIPS & NOZZLES

Ordering Information

QUICK TEEJET CAPS	PART NUMBER	FOR USE WITH FLAT SPRAY TIPS 300 PSI (20 bar) MAXIMUM PRESSURE	
		QUICK TEEJET CAP & SEAT GASKET SET	
	25612- *-NYR 114441- *-CELR 25612-9-PP††	TeeJet® Flat Spray Tips (Smaller Capacities)       	
	25610- *-NYR	TeeJet Flat Spray Tips (Larger Capacities)  	
	25598- *-NYR 114443- *-CELR	     	
	98579-1-NYR†	 	
	25596- *-NYR	TeeJet Flat Spray Tips (Smaller Capacities) Tips can be positioned in choice of two spray plane directions — parallel or perpendicular to wings of Quick TeeJet cap.	
	25600- *-NYR	   	
	25608- *-NYR 114445- *-CELR 25608-9-PP††	     	
	—	     <p>Used with DC-Core Inserts and CP4916 Flow Regulators (Insert Core into Seal)</p>	
	26278-1-NYR†	    	
	114396-1-NYR†	 <p>114396-1-NYR includes gasket and O-ring (CP7717-M10.5x1.5-VI)</p>	

	QJ4676-45-1/4-NYR†	45° Quick TeeJet cap with 1/4" NPT female threaded outlet
	QJ4676-90-1/4-NYR†	90° Quick TeeJet cap with 1/4" NPT female threaded outlet
	QJ4676-1/8-NYR† QJ(B)4676-1/4-NYR†	Permits use of standard 1/8" and 1/4" nozzles. Can be used for mounting pressure gauge at the nozzle. See Data Sheet 20055 for more information. (B) = BSPT
	19843-NYR†	Provides shutoff at nozzle for quick spacing change or change in spray swath.

*Specify color code (see chart). Violet (10) only available in CP114440 and CP114442 caps.

†These Quick TeeJet caps available only in black.

††Polypropylene Quick TeeJet caps available only in gray and rated to 150 PSI. Nylon and Celcon caps not available in gray.

METERING ORIFICES

Flow Regulators are usually mounted behind cultivator shanks for the subsurface application of liquid fertilizers and soil fumigants. They are also used for above-ground streaming applications.

How to order:

Specify orifice plate number.

Example: CP4916-008



Note: Always insert Orifice Plate with side marked with number facing the outlet.

MATERIAL: Stainless Steel

Metering orifices are usually used in planter and drill manifolds. They are also used for above ground streaming applications. Order by part number and size CP4916-_____

When using metering orifices in QJ Caps, use orifice seal CP18999-EPR



Orifice Gasket

Part#

CP18999-EPR

Typical Assembly



CP1322
1/4TT Body



5053
Strainer



CP4916
Orifice Plate



CP4928
Adapter
1/2" NPT (F)
Outlet



CP1325
Cap

To determine the orifice plates you need, use the following equations:

$$\text{GPM (Per Nozzle)} = \frac{\text{GPA} \times \text{MPH} \times \text{W}}{5,940}$$

$$\text{GPA} = \frac{5,940 \times \text{GPM (Per Nozzle)}}{\text{MPH} \times \text{W}}$$

- W = Nozzle spacing (in inches) for broadcast spraying.
- = Spray width (in inches) for single nozzle, band spraying or boomless spraying.
- = Row spacing (in inches) divided by the number of nozzles per row for directed spraying.

Orifice Plug CP3942-SS



Tabulated flow rates are for spraying water into air at atmospheric pressure. If your application creates backpressure, or if spraying into a liquid, measure and calibrate to ensure proper application rates. For spraying solutions other than water, see page 125 for conversion factors.

Orifice	GPM						
	5 PSI	10 PSI	20 PSI	30 PSI	40 PSI	50 PSI	60 PSI
CP4916-008	0.003	0.004	0.006	0.007	0.008	0.009	0.010
CP4916-10	0.005	0.007	0.009	0.011	0.013	0.015	0.016
CP4916-12	0.007	0.010	0.013	0.016	0.019	0.021	0.023
CP4916-14	0.009	0.013	0.018	0.022	0.025	0.028	0.031
CP4916-15	0.010	0.015	0.021	0.025	0.029	0.032	0.036
CP4916-16	0.012	0.017	0.023	0.029	0.033	0.037	0.040
CP4916-18	0.015	0.021	0.030	0.036	0.042	0.047	0.051
CP4916-20	0.018	0.026	0.037	0.045	0.052	0.058	0.064
CP4916-22	0.022	0.031	0.043	0.053	0.061	0.068	0.075
CP4916-24	0.026	0.037	0.052	0.064	0.074	0.083	0.091
CP4916-25	0.028	0.040	0.056	0.068	0.079	0.088	0.097
CP4916-26	0.030	0.043	0.061	0.074	0.086	0.096	0.105
CP4916-27	0.032	0.046	0.064	0.079	0.091	0.102	0.111
CP4916-28	0.035	0.049	0.069	0.085	0.098	0.110	0.120
CP4916-29	0.038	0.054	0.076	0.094	0.108	0.121	0.132
CP4916-30	0.040	0.057	0.081	0.099	0.114	0.127	0.140
CP4916-31	0.043	0.062	0.087	0.107	0.123	0.138	0.151
CP4916-32	0.048	0.068	0.095	0.117	0.135	0.151	0.165
CP4916-34	0.052	0.074	0.104	0.127	0.147	0.164	0.180
CP4916-35	0.056	0.079	0.111	0.136	0.157	0.176	0.192
CP4916-37	0.061	0.086	0.122	0.149	0.172	0.192	0.211
CP4916-39	0.068	0.096	0.135	0.165	0.191	0.214	0.234
CP4916-40	0.072	0.102	0.144	0.177	0.204	0.228	0.250
CP4916-41	0.075	0.106	0.149	0.183	0.211	0.236	0.258
CP4916-43	0.082	0.116	0.163	0.200	0.231	0.258	0.283
CP4916-45	0.088	0.125	0.177	0.217	0.250	0.280	0.306
CP4916-46	0.095	0.135	0.191	0.234	0.270	0.302	0.331

Orifice	GPM						
	5 PSI	10 PSI	20 PSI	30 PSI	40 PSI	50 PSI	60 PSI
CP4916-47	0.097	0.138	0.194	0.238	0.275	0.307	0.337
CP4916-48	0.101	0.143	0.202	0.248	0.286	0.320	0.350
CP4916-49	0.104	0.148	0.209	0.255	0.295	0.330	0.361
CP4916-51	0.116	0.165	0.233	0.285	0.329	0.368	0.403
CP4916-52	0.118	0.168	0.237	0.290	0.335	0.375	0.410
CP4916-54	0.127	0.180	0.255	0.312	0.360	0.402	0.441
CP4916-55	0.133	0.189	0.267	0.326	0.377	0.421	0.462
CP4916-57	0.141	0.200	0.283	0.346	0.400	0.447	0.490
CP4916-59	0.153	0.217	0.306	0.375	0.433	0.484	0.530
CP4916-61	0.165	0.233	0.330	0.404	0.466	0.521	0.571
CP4916-63	0.174	0.246	0.347	0.425	0.491	0.549	0.601
CP4916-65	0.185	0.261	0.369	0.452	0.522	0.584	0.639
CP4916-67	0.196	0.278	0.392	0.481	0.555	0.621	0.680
CP4916-68	0.203	0.287	0.405	0.496	0.573	0.641	0.702
CP4916-70	0.216	0.306	0.433	0.530	0.612	0.684	0.750
CP4916-72	0.226	0.320	0.453	0.554	0.640	0.716	0.784
CP4916-73	0.233	0.330	0.467	0.572	0.660	0.738	0.808
CP4916-75	0.245	0.347	0.491	0.601	0.694	0.776	0.850
CP4916-78	0.272	0.385	0.544	0.667	0.770	0.861	0.943
CP4916-80	0.280	0.397	0.561	0.687	0.793	0.887	0.971
CP4916-81	0.290	0.411	0.581	0.711	0.821	0.918	1.01
CP4916-83	0.317	0.449	0.634	0.777	0.897	1.00	1.10
CP4916-86	0.332	0.470	0.664	0.813	0.939	1.05	1.15
CP4916-89	0.346	0.490	0.693	0.849	0.980	1.10	1.20
CP4916-91	0.369	0.523	0.739	0.905	1.05	1.17	1.28
CP4916-93	0.387	0.547	0.774	0.947	1.09	1.22	1.34
CP4916-95	0.404	0.572	0.808	0.990	1.14	1.28	1.40

Orifice	GPM						
	5 PSI	10 PSI	20 PSI	30 PSI	40 PSI	50 PSI	60 PSI
CP4916-98	0.442	0.625	0.884	1.08	1.25	1.40	1.53
CP4916-103	0.461	0.653	0.923	1.13	1.31	1.46	1.60
CP4916-107	0.518	0.733	1.04	1.27	1.47	1.64	1.79
CP4916-110	0.548	0.775	1.10	1.34	1.55	1.73	1.90
CP4916-115	0.605	0.855	1.21	1.48	1.71	1.91	2.09
CP4916-120	0.629	0.890	1.26	1.54	1.78	1.99	2.18
CP4916-125	0.693	0.980	1.39	1.70	1.96	2.19	2.40
CP4916-128	0.721	1.02	1.44	1.77	2.04	2.28	2.50
CP4916-132	0.774	1.10	1.55	1.90	2.19	2.45	2.68
CP4916-136	0.840	1.19	1.68	2.06	2.38	2.66	2.91
CP4916-140	0.894	1.27	1.79	2.19	2.53	2.83	3.10
CP4916-144	0.926	1.31	1.85	2.27	2.62	2.93	3.21
CP4916-147	0.953	1.35	1.91	2.33	2.70	3.01	3.30
CP4916-151	1.04	1.47	2.08	2.55	2.94	3.29	3.60
CP4916-156	1.10	1.55	2.20	2.69	3.11	3.47	3.80
CP4916-161	1.15	1.63	2.31	2.83	3.27	3.65	4.00
CP4916-166	1.21	1.72	2.43	2.97	3.43	3.84	4.20
CP4916-170	1.30	1.84	2.61	3.19	3.69	4.12	4.51
CP4916-172	1.36	1.92	2.71	3.32	3.84	4.29	4.70
CP4916-177	1.41	2.00	2.83	3.46	4.00	4.47	4.90
CP4916-182	1.47	2.08	2.95	3.61	4.17	4.66	5.10
CP4916-187	1.56	2.21	3.12	3.82	4.41	4.93	5.40
CP4916-196	1.73	2.45	3.46	4.24	4.90	5.47	6.00
CP4916-205	1.88	2.65	3.75	4.59	5.31	5.93	6.50
CP4916-218	2.11	2.98	4.21	5.16	5.96	6.66	7.30
CP4916-234	2.45	3.47	4.91	6.01	6.94	7.76	8.50
CP4916-250	2.83	4.00	5.66	6.93	8.00	8.94	9.80

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C).

TURBODROP [®] XL NOZZLE	TURBODROP [®] DUAL FAN NOZZLE	L/ACR W/SPRAYER PSI	TDXL TDCXL ASABE	TADF TACDF ASABE	MAGN. CAPACITY GPM	GALLONS PER ACRE BASED ON 20" NOZZLE SPACING																			
						5 MPH	6 MPH	7 MPH	8 MPH	9 MPH	10 MPH	11 MPH	12 MPH	13 MPH	14 MPH	15 MPH	16 MPH	17 MPH	18 MPH	20 MPH					
 (use 50 mesh)		30	C	M	0.09	5.1	4.3	3.7	3.2	2.9	2.6	2.3	2.1	2.0	1.8	1.7	1.6	1.5	1.4	1.3					
		40	C	M	0.10	5.9	4.9	4.2	3.7	3.3	3.0	2.7	2.5	2.3	2.1	2.0	1.9	1.7	1.6	1.5					
		50	M	M	0.11	6.6	5.5	4.7	4.1	3.7	3.3	3.0	2.8	2.6	2.4	2.2	2.1	2.0	1.8	1.7					
		60	M	F	0.12	7.3	6.1	5.2	4.5	4.0	3.6	3.3	3.0	2.8	2.6	2.4	2.3	2.1	2.0	1.8					
		70	M	F	0.13	7.9	6.5	5.6	4.9	4.4	3.9	3.6	3.3	3.0	2.8	2.6	2.5	2.3	2.2	2.0					
		80	M	F	0.14	8.4	7.0	6.0	5.2	4.7	4.2	3.8	3.5	3.2	3.0	2.8	2.6	2.5	2.3	2.1					
		120	F	F	0.16	9.4	7.8	6.7	5.9	5.2	4.7	4.3	3.9	3.6	3.4	3.1	2.9	2.6	2.6	2.3					
 (use 50 mesh)		30	C	M	0.13	7.7	6.4	5.5	4.8	4.3	3.9	3.5	3.2	3.0	2.8	2.6	2.4	2.3	2.1	1.9					
		40	C	M	0.15	8.9	7.4	6.4	5.8	4.9	4.5	4.0	3.7	3.4	3.2	3.0	2.8	2.6	2.5	2.2					
		50	M	M	0.17	10.0	8.3	7.1	6.2	5.5	5.0	4.5	4.1	3.8	3.6	3.3	3.1	2.9	2.8	2.5					
		60	M	M	0.18	10.9	9.1	7.8	6.8	6.1	5.5	5.0	4.5	4.2	3.9	3.6	3.4	3.2	3.0	2.7					
		70	M	M	0.20	11.8	9.8	8.4	7.4	6.5	5.9	5.4	4.9	4.5	4.2	3.9	3.7	3.5	3.3	2.9					
		80	M	F	0.21	12.6	10.5	9.0	7.9	7.0	6.3	5.7	5.2	4.8	4.5	4.2	3.9	3.7	3.5	3.1					
		120	F	F	0.22	13.4	11.1	9.5	8.3	7.4	6.7	6.1	5.6	5.1	4.8	4.5	4.2	3.9	3.7	3.3					
 (use 50 mesh)		30	C	M	0.17	10.3	8.6	7.3	6.4	5.7	5.1	4.7	4.3	4.0	3.7	3.4	3.2	3.0	2.9	2.6					
		40	C	M	0.20	11.9	9.9	8.5	7.4	6.6	5.9	5.4	4.9	4.6	4.2	4.0	3.7	3.5	3.3	3.0					
		50	M	M	0.22	13.3	11.1	9.5	8.3	7.4	6.6	6.0	5.5	5.1	4.7	4.4	4.1	3.9	3.7	3.3					
		60	M	M	0.24	14.5	12.1	10.4	9.1	8.1	7.3	6.6	6.1	5.6	5.2	4.8	4.5	4.3	4.0	3.6					
		70	M	M	0.26	15.7	13.1	11.2	9.8	8.7	7.9	7.1	6.5	6.0	5.6	5.2	4.9	4.6	4.4	3.9					
		80	M	F	0.28	16.8	14.0	12.0	10.5	9.3	8.4	7.6	7.0	6.5	6.0	5.6	5.2	4.9	4.7	4.2					
		120	F	F	0.30	17.8	14.8	12.7	11.1	9.9	8.9	8.1	7.4	6.8	6.4	5.9	5.6	5.2	4.9	4.5					
 (use 50 mesh)		30	VC	C	0.22	12.9	10.7	9.2	8.0	7.1	6.4	5.8	5.4	4.9	4.6	4.3	4.0	3.8	3.6	3.2					
		40	VC	C	0.25	14.8	12.4	10.6	9.3	8.2	7.4	6.7	6.2	5.7	5.3	4.9	4.6	4.4	4.1	3.7					
		50	C	M	0.28	16.6	13.8	11.9	10.4	9.2	8.3	7.5	6.9	6.4	5.9	5.5	5.2	4.9	4.6	4.1					
		60	M	M	0.31	18.2	15.1	13.0	11.4	10.1	9.1	8.3	7.6	7.0	6.5	6.1	5.7	5.3	5.0	4.5					
		70	M	M	0.33	19.6	16.4	14.0	12.3	10.9	9.8	8.9	8.2	7.6	7.0	6.5	6.1	5.8	5.5	4.9					
		80	M	F	0.35	21.0	17.5	15.0	13.1	11.7	10.5	9.5	8.7	8.1	7.5	7.0	6.6	6.2	5.8	5.2					
		120	F	F	0.40	23.5	19.8	16.8	14.7	13.0	11.7	10.7	9.8	9.0	8.4	7.8	7.3	6.9	6.5	5.9					
 (use 50 mesh)		30	XC	C	0.26	15.4	12.9	11.0	9.6	8.6	7.7	7.0	6.4	5.9	5.5	5.1	4.8	4.5	4.3	3.9					
		40	VC	C	0.30	17.8	14.8	12.7	11.1	9.9	8.9	8.1	7.4	6.8	6.4	5.9	5.6	5.2	4.9	4.5					
		50	C	M	0.34	19.9	16.6	14.2	12.4	11.1	10.0	9.0	8.3	7.7	7.1	6.6	6.2	5.9	5.5	5.0					
		60	C	M	0.37	21.8	18.2	15.6	13.6	12.1	10.9	9.9	9.1	8.4	7.8	7.3	6.8	6.4	6.1	5.5					
		70	M	M	0.40	23.6	19.6	16.8	14.7	13.1	11.8	10.7	9.8	9.1	8.4	7.9	7.4	6.9	6.5	5.9					
		80	M	F	0.42	25.2	21.0	18.0	15.7	14.0	12.6	11.4	10.5	9.7	9.0	8.4	7.9	7.4	7.0	6.3					
		120	M	F	0.47	28.2	23.5	20.1	17.6	15.6	14.1	12.8	11.7	10.8	10.1	9.4	8.8	8.3	7.8	7.0					
 (use 24 mesh)	 (use 50 mesh)	30	XC	C	0.35	20.6	17.1	14.7	12.9	11.4	10.3	9.3	8.6	7.9	7.3	6.9	6.4	6.0	5.7	5.1					
		40	VC	C	0.40	23.7	19.8	17.0	14.8	13.2	11.9	10.8	9.9	9.1	8.5	7.9	7.4	7.0	6.6	5.9					
		50	C	M	0.45	26.5	22.1	19.0	16.6	14.7	13.3	12.1	11.1	10.2	9.5	8.8	8.3	7.8	7.4	6.6					
		60	C	M	0.49	29.1	24.2	20.8	18.2	16.2	14.5	13.2	12.1	11.2	10.4	9.7	9.1	8.6	8.1	7.3					
		70	M	M	0.53	31.4	26.2	22.4	19.6	17.4	15.7	14.3	13.1	12.1	11.2	10.5	9.8	9.2	8.7	7.9					
		80	M	F	0.57	33.6	28.0	24.0	21.0	18.7	16.8	15.3	14.0	12.9	12.0	11.2	10.5	9.9	9.3	8.4					
		120	M	F	0.63	37.5	31.3	26.8	23.5	20.9	18.8	17.1	15.6	14.4	13.4	12.5	11.7	11.0	10.4	9.4					
 (use 24 mesh)	 (use 50 mesh)	30	XC	C	0.43	25.7	21.4	18.4	16.1	14.3	12.9	11.7	10.7	9.9	9.2	8.6	8.0	7.6	7.1	6.4					
		40	VC	C	0.50	29.7	24.8	21.2	18.6	16.5	14.9	13.5	12.4	11.4	10.6	9.9	9.3	8.7	8.3	7.4					
		50	VC	M	0.56	33.2	27.7	23.7	20.8	18.5	16.6	15.1	13.8	12.8	11.9	11.1	10.4	9.8	9.2	8.3					
		60	VC	M	0.61	36.4	30.3	26.0	22.7	20.2	18.2	16.5	15.2	14.0	13.0	12.1	11.4	10.7	10.1	9.1					
		70	C	M	0.66	39.3	32.8	28.1	24.6	21.8	19.7	17.9	16.4	15.1	14.0	13.1	12.3	11.6	10.9	9.8					
		80	C	M	0.71	42.0	35.0	30.0	26.3	23.3	21.0	19.1	17.5	16.2	15.0	14.0	13.1	12.4	11.7	10.5					
		120	M	F	0.79	47.0	39.2	33.6	29.4	26.1	23.5	21.4	19.6	18.1	16.8	15.7	14.7	13.8	13.1	11.7					
 (use 24 mesh)		30	XC	C	0.52	30.9	25.7	22.1	19.3	17.2	15.4	14.0	12.9	11.9	11.0	10.3	9.6	9.1	8.6	7.7					
		40	XC	C	0.60	35.7	29.7	25.5	22.3	19.8	17.8	16.2	14.9	13.7	12.7	11.9	11.1	10.5	9.9	8.9					
		50	XC	C	0.67	39.9	33.2	28.5	24.9	22.1	19.9	18.1	16.6	15.3	14.2	13.3	12.5	11.7	11.0	10.0					
		60	VC	C	0.74	43.7	36.4	31.2	27.3	24.3	21.8	19.8	18.2	16.8	15.6	14.6	13.6	12.8	12.1	10.9					
		70	VC	M	0.79	47.2	39.3	33.7	29.5	26.2	23.6	21.4	19.7	18.1	16.8	15.7	14.7	13.9	13.1	11.8					
		80	C	M	0.85	50.4	42.0	36.0	31.5	28.0	25.2	22.9	21.0	19.4	18.0	16.8	15.8	14.8	14.0	12.6					
		120	M	M	0.90	53.5	44.6	38.2	33.4	29.7	26.7	24.3	22.3	20.6	19.1	17.8	16.7	15.7	14.9	13.4					
 (use 24 mesh)		30	XC	C	0.69	41.0	34.2	29.3	25.6	22.8	20.5	18.6	17.1	15.8	14.6	13.7	12.8	12.1	11.4	10.2					
		40	XC	C	0.80	47.3	39.4	33.8	29.6	26.3	23.7	21.5	19.7	18.2	16.9	15.8	14.8	13.9	13.1	11.8					
		50	XC	C	0.89	52.9	44.1	37.8	33.1	29.4	26.5	24.1	22.1	20.4	18.9	17.6	16.5	15.6	14.7	13.2					
		60	XC	C	0.98	58.0	48.3	41.4	36.2	32.2	29.0	26.4	24.2	22.3	20.7	19.3	18.1	17.1	16.1	14.5					
		70	VC	M	1.05	62.6	52.2	44.7	39.1	34.8	31.3	28.5	26.1	24.1	22.4	20.9	19.6	18.4	17.4	15.7					
		80	VC	M	1.13	66.9	55.8	47.8	41.8	37.2	33.5	30.4	27.9	25.7	23.9	22.3	20.9	19.7	18.6	16.7					
		120	C	M	1.26	74.8																			

GREENLEAF NOZZLES

TurboDrop® XL-D and TurboDrop® DualFan-D

The D Version of the TurboDrop® nozzles were designed with dicamba, 2, 4-D and glyphosate in mind, where a coarser spray droplet is desirable. It is important to remember that as sprays become coarser, coverage may be compromised. Choosing the TurboDrop® Dual Fan and alternating the nozzles on the boom will help counter the potential loss of coverage by effectively spraying the target four times in one pass.

The D nozzles employ proven TurboDrop® Venturi Technology to inject air and create a larger, more uniform droplet spectrum. The pattern tips are larger in comparison to those of the standard XL and DualFan nozzles, which results in a greater pressure drop and a larger overall droplet size. D series nozzles can be converted to standard TurboDrop® nozzles by switching out the pattern tip(s) for smaller ones in order to make the spray less coarse for contact pesticides.

Pressure Range: 30-120 PSI (30-150 PSI, ceramic)

Suggested Boom Height: 18-36" (with 20" nozzle spacing)

Materials of Construction: Polyacetyl, EPDM, Ceramic (TDCXL-D/TACDF-D)



TURBODROP® D VERSION		LIQUID PRESSURE PSI	DROPLET SIZE ASABE		NOZZLE CAPACITY GPM	GALLONS PER ACRE BASED ON 20" NOZZLE SPACING															
			TDXL-D	TADF-D		5 MPH	6 MPH	7 MPH	8 MPH	9 MPH	10 MPH	11 MPH	12 MPH	13 MPH	14 MPH	15 MPH	16 MPH	17 MPH	18 MPH	20 MPH	
 (Use 50 mesh)		30	UC	UC	0.17	10.3	8.6	7.3	6.4	5.7	5.1	4.7	4.3	4.0	3.7	3.4	3.2	3.0	2.9	2.6	
		40	XC	XC	0.20	11.9	9.9	8.5	7.4	6.6	5.9	5.4	4.9	4.6	4.2	4.0	3.7	3.5	3.3	3.0	3.0
		50	XC	XC	0.22	13.3	11.1	9.5	8.3	7.4	6.6	6.0	5.5	5.1	4.7	4.4	4.1	3.9	3.7	3.3	3.3
		60	XC	XC	0.24	14.5	12.1	10.4	9.1	8.1	7.3	6.6	6.1	5.6	5.2	4.8	4.5	4.3	4.0	3.6	3.6
		70	VC	VC	0.26	15.7	13.1	11.2	9.8	8.7	7.9	7.1	6.5	6.0	5.6	5.2	4.9	4.6	4.4	3.9	3.9
		80	VC	VC	0.28	16.8	14.0	12.0	10.5	9.3	8.4	7.6	7.0	6.5	6.0	5.6	5.2	4.9	4.7	4.2	4.2
		90	VC	VC	0.30	17.8	14.8	12.7	11.1	9.9	8.9	8.1	7.4	6.8	6.4	5.9	5.6	5.2	4.9	4.5	4.5
		120			0.32	18.8	15.6	13.4	11.7	10.4	9.4	8.5	7.8	7.2	6.7	6.3	5.9	5.5	5.2	4.7	4.7
 (Use 50 mesh)		30	UC	UC	0.22	12.9	10.7	9.2	8.0	7.1	6.4	5.8	5.4	4.9	4.6	4.3	4.0	3.8	3.6	3.2	
		40	XC	XC	0.25	14.8	12.4	10.6	9.3	8.2	7.4	6.7	6.2	5.7	5.3	4.9	4.6	4.4	4.1	3.7	
		50	XC	XC	0.28	16.6	13.8	11.9	10.4	9.2	8.3	7.5	6.9	6.4	5.9	5.5	5.2	4.9	4.6	4.1	
		60	XC	XC	0.31	18.2	15.1	13.0	11.4	10.1	9.1	8.3	7.6	7.0	6.5	6.1	5.7	5.3	5.0	4.5	
		70	VC	VC	0.33	19.6	16.4	14.0	12.3	10.9	9.8	8.9	8.2	7.6	7.0	6.5	6.1	5.8	5.5	4.9	
		80	VC	VC	0.35	21.0	17.5	15.0	13.1	11.7	10.5	9.5	8.7	8.1	7.5	7.0	6.6	6.2	5.8	5.2	
		90	VC	VC	0.37	22.3	18.5	15.9	13.9	12.4	11.1	10.1	9.3	8.6	7.9	7.4	7.0	6.5	6.2	5.6	
		120			0.40	23.5	19.6	16.8	14.7	13.0	11.7	10.7	9.8	9.0	8.4	7.8	7.3	6.9	6.5	5.9	
 (Use 50 mesh)		30	UC	UC	0.26	15.4	12.9	11.0	9.6	8.6	7.7	7.0	6.4	5.9	5.5	5.1	4.8	4.5	4.3	3.9	
		40	UC	UC	0.30	17.8	14.8	12.7	11.1	9.9	8.9	8.1	7.4	6.8	6.4	5.9	5.6	5.2	4.9	4.5	
		50	XC	XC	0.34	19.9	16.6	14.2	12.4	11.1	10.0	9.0	8.3	7.7	7.1	6.6	6.2	5.9	5.5	5.0	
		60	XC	XC	0.37	21.8	18.2	15.6	13.6	12.1	10.9	9.9	9.1	8.4	7.8	7.3	6.8	6.4	6.1	5.5	
		70	XC	XC	0.40	23.6	19.6	16.8	14.7	13.1	11.8	10.7	9.8	9.1	8.4	7.9	7.4	6.9	6.5	5.9	
		80	VC	VC	0.42	25.2	21.0	18.0	15.7	14.0	12.6	11.4	10.5	9.7	9.0	8.4	7.9	7.4	7.0	6.3	
		90	VC	VC	0.45	26.7	22.3	19.1	16.7	14.8	13.4	12.1	11.1	10.3	9.5	8.9	8.3	7.9	7.4	6.7	
		120			0.47	28.2	23.5	20.1	17.6	15.6	14.1	12.8	11.7	10.8	10.1	9.4	8.8	8.3	7.8	7.0	
 (Use 24 mesh)		30	UC	UC	0.35	20.6	17.1	14.7	12.9	11.4	10.3	9.3	8.6	7.9	7.3	6.9	6.4	6.0	5.7	5.1	
		40	UC	UC	0.40	23.7	19.8	17.0	14.8	13.2	11.9	10.8	9.9	9.1	8.5	7.9	7.4	7.0	6.6	5.9	
		50	XC	XC	0.45	26.5	22.1	19.0	16.6	14.7	13.3	12.1	11.1	10.2	9.5	8.8	8.3	7.8	7.4	6.6	
		60	XC	XC	0.49	29.1	24.2	20.8	18.2	16.2	14.5	13.2	12.1	11.2	10.4	9.7	9.1	8.6	8.1	7.3	
		70	XC	XC	0.53	31.4	26.2	22.4	19.6	17.4	15.7	14.3	13.1	12.1	11.2	10.5	9.8	9.2	8.7	7.9	
		80	XC	XC	0.57	33.6	28.0	24.0	21.0	18.7	16.8	15.3	14.0	12.9	12.0	11.2	10.5	9.9	9.3	8.4	
		90	XC	VC	0.60	35.6	29.7	25.4	22.3	19.8	17.8	16.2	14.8	13.7	12.7	11.9	11.1	10.5	9.9	8.9	
		120			0.63	37.5	31.3	26.8	23.5	20.9	18.8	17.1	15.6	14.4	13.4	12.5	11.7	11.0	10.4	9.4	
 (Use 24 mesh)		30	UC	UC	0.43	25.7	21.4	18.4	16.1	14.3	12.9	11.7	10.7	9.9	9.2	8.6	8.0	7.6	7.1	6.4	
		40	UC	UC	0.50	29.7	24.8	21.2	18.6	16.5	14.9	13.5	12.4	11.4	10.6	9.9	9.3	8.7	8.3	7.4	
		50	UC	XC	0.56	33.2	27.7	23.7	20.8	18.5	16.6	15.1	13.8	12.8	11.9	11.1	10.4	9.8	9.2	8.3	
		60	UC	XC	0.61	36.4	30.3	26.0	22.7	20.2	18.2	16.5	15.2	14.0	13.0	12.1	11.4	10.7	10.1	9.1	
		70	UC	XC	0.66	39.3	32.8	28.1	24.6	21.8	19.7	17.9	16.4	15.1	14.0	13.1	12.3	11.6	10.9	9.8	
		80	XC	VC	0.71	42.0	35.0	30.0	26.3	23.3	21.0	19.1	17.5	16.2	15.0	14.0	13.1	12.4	11.7	10.5	
		90	XC ^a	VC ^a	0.75	44.6	37.1	31.8	27.9	24.8	22.3	20.3	18.6	17.1	15.9	14.9	13.9	13.1	12.4	11.1	
		120			0.79	47.0	39.2	33.6	29.4	26.1	23.5	21.4	19.6	18.1	16.8	15.7	14.7	13.8	13.1	11.7	
 (Use 24 mesh)		30	UC	UC	0.52	30.9	25.7	22.1	19.3	17.2	15.4	14.0	12.9	11.9	11.0	10.3	9.6	9.1	8.6	7.7	
		40	UC	UC	0.60	35.7	29.7	25.5	22.3	19.8	17.8	16.2	14.9	13.7	12.7	11.9	11.1	10.5	9.9	8.9	
		50	UC	UC	0.67	39.9	33.2	28.5	24.9	22.1	19.9	18.1	16.6	15.3	14.2	13.3	12.5	11.7	11.1	10.0	
		60	UC	XC	0.74	43.7	36.4	31.2	27.3	24.3	21.8	19.8	18.2	16.8	15.6	14.6	13.6	12.8	12.1	10.9	
		70	UC	XC	0.79	47.2	39.3	33.7	29.5	26.2	23.6	21.4	19.7	18.1	16.8	15.7	14.7	13.9	13.1	11.8	
		80	UC	XC	0.85	50.4	42.0	36.0	31.5	28.0	25.2	22.9	21.0	19.4	18.0	16.8	15.8	14.8	14.0	12.6	
		90	UC ^a	XC ^a	0.90	53.5	44.6	38.2	33.4	29.7	26.7	24.3	22.3	20.6	19.1	17.8	16.7	15.7	14.9	13.4	
		120			0.95	56.4	47.0	40.3	35.2	31.3	28.2	25.6	23.5	21.7	20.1	18.8	17.6	16.6	15.7	14.1	

TDXL-D

TADF-D



Low Pressure AirMix® Nozzle

The AirMix® Nozzle is a compact, two piece air injection nozzle that fits in a standard cap, and can be cleaned without tools. The AirMix® utilizes a unique air cleaning system to prevent nozzle plugging. Please target 40 PSI when selecting nozzle size, to allow for changes in speed. Higher pressures are recommended for penetrating dense canopies and for coverage critical contact chemicals.

Pressure Range: 15-90 PSI

Suggested Spray Height: 16-36" (on 20" centers)

Materials of Construction: Polyacetyl, or Polypropylene with EPDM (AMCQ)

Description

Low Pressure Nozzle

**AIRMIX®
LOW PRESSURE NOZZLE
(AM)**



- AM11001
- AM110015
- AM11002
- AM110025
- AM11003
- AM11004
- AM11005
- AM11006

**ACID RESISTANT
AIRMIX® NOZZLE
(AMCQ)**



- AMCQ110015
- AMCQ11002
- AMCQ11003
- AMCQ11004
- AMCQ11005
- AMCQ11006

**AIRMIX®
OFF CENTER NOZZLE
(AMOC)**



- AMOC02
- AMOC025
- AMOC03
- AMOC04
- AMOC05

**AIRMIX®
DUALFAN NOZZLE
(AMDF)**



- AMDF02
- AMDF025
- AMDF03
- AMDF035
- AMDF04
- AMDF045
- AMDF05
- AMDF055
- AMDF06
- AMDF07
- AMDF08
- AMDF09
- AMDF010
- AMDF012

COMPLETE NOZZLE PART # (Strainer Size)	LIQUID PRESSURE PSI	DROPLET SIZE ASABE	NOZZLE CAPACITY GPM	GALLONS PER ACRE BASED ON 20" NOZZLE SPACING										
				4	5	6	8	10	12	14	16	18	20	
				MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
AM11001  (use 50 mesh)	15	C	0.06	4.5	3.6	3.0	2.3	1.8	1.5	1.3	1.1	1.0	0.9	
	20	C	0.07	5.2	4.2	3.5	2.6	2.1	1.7	1.5	1.3	1.2	1.0	
	30	M	0.09	6.4	5.1	4.3	3.2	2.6	2.1	1.8	1.6	1.4	1.3	
	40	M	0.10	7.4	5.9	4.9	3.7	3.0	2.5	2.1	1.9	1.6	1.5	
	50	F	0.11	8.3	6.6	5.5	4.1	3.3	2.8	2.4	2.1	1.8	1.7	
	60	F	0.12	9.1	7.3	6.1	4.5	3.6	3.0	2.6	2.3	2.0	1.8	
	70	F	0.13	9.8	7.9	6.5	4.9	3.9	3.3	2.8	2.5	2.2	2.0	
AM110015  (use 50 mesh)	15	C	0.09	6.8	5.5	4.5	3.4	2.7	2.3	1.9	1.7	1.5	1.4	
	20	C	0.11	7.9	6.3	5.2	3.9	3.1	2.6	2.2	2.0	1.7	1.6	
	30	M	0.13	9.6	7.7	6.4	4.8	3.9	3.2	2.8	2.4	2.1	1.9	
	40	M	0.15	11.1	8.9	7.4	5.6	4.5	3.7	3.2	2.8	2.5	2.2	
	50	F	0.17	12.4	10.0	8.3	6.2	5.0	4.1	3.6	3.1	2.8	2.5	
	60	F	0.18	13.6	10.9	9.1	6.8	5.5	4.5	3.9	3.4	3.0	2.7	
	70	F	0.20	14.7	11.8	9.8	7.4	5.9	4.9	4.2	3.7	3.3	2.9	
AM11002  (use 50 mesh)	15	C	0.12	9.1	7.3	6.1	4.5	3.6	3.0	2.6	2.3	2.0	1.8	
	20	C	0.14	10.5	8.4	7.0	5.2	4.2	3.5	3.0	2.6	2.3	2.1	
	30	C	0.17	12.9	10.3	8.6	6.4	5.1	4.3	3.7	3.2	2.9	2.6	
	40	M	0.20	14.8	11.9	9.9	7.4	5.9	4.9	4.2	3.7	3.3	3.0	
	50	M	0.22	16.6	13.3	11.1	8.3	6.6	5.5	4.7	4.1	3.7	3.3	
	60	F	0.24	18.2	14.5	12.1	9.1	7.3	6.1	5.2	4.5	4.0	3.6	
	70	F	0.26	19.6	15.7	13.1	9.8	7.9	6.5	5.6	4.9	4.4	3.9	
AM110025  (use 50 mesh)	15	VC	0.15	11.4	9.1	7.6	5.7	4.5	3.8	3.2	2.8	2.5	2.3	
	20	C	0.18	13.1	10.5	8.7	6.6	5.2	4.4	3.7	3.3	2.9	2.6	
	30	C	0.22	16.1	12.9	10.7	8.0	6.4	5.4	4.6	4.0	3.6	3.2	
	40	C	0.25	18.5	14.8	12.4	9.3	7.4	6.2	5.3	4.6	4.1	3.7	
	50	M	0.28	20.7	16.6	13.8	10.4	8.3	6.9	5.9	5.2	4.6	4.1	
	60	M	0.31	22.7	18.2	15.1	11.4	9.1	7.6	6.5	5.7	5.0	4.5	
	70	M	0.33	24.5	19.6	16.4	12.3	9.8	8.2	7.0	6.1	5.5	4.9	
AM11003  (use 50 mesh)	15	XC	0.18	13.6	10.9	9.1	6.8	5.5	4.5	3.9	3.4	3.0	2.7	
	20	VC	0.21	15.7	12.6	10.5	7.9	6.3	5.2	4.5	3.9	3.5	3.1	
	30	VC	0.26	19.3	15.4	12.9	9.6	7.7	6.4	5.5	4.8	4.3	3.9	
	40	C	0.30	22.3	17.8	14.8	11.1	8.9	7.4	6.4	5.6	4.9	4.5	
	50	C	0.34	24.9	19.9	16.6	12.4	10.0	8.3	7.1	6.2	5.5	5.0	
	60	M	0.37	27.3	21.8	18.2	13.6	10.9	9.1	7.8	6.8	6.1	5.5	
	70	M	0.40	29.4	23.6	19.6	14.7	11.8	9.8	8.4	7.4	6.5	5.9	
AM11004  (use 24 mesh)	15	XC	0.24	18.2	14.5	12.1	9.1	7.3	6.1	5.2	4.5	4.0	3.6	
	20	VC	0.28	21.0	16.8	14.0	10.5	8.4	7.0	6.0	5.2	4.7	4.2	
	30	VC	0.35	25.7	20.6	17.1	12.9	10.3	8.6	7.3	6.4	5.7	5.1	
	40	C	0.40	29.7	23.7	19.8	14.8	11.9	9.9	8.5	7.4	6.6	5.9	
	50	C	0.45	33.2	26.5	22.1	16.6	13.3	11.1	9.5	8.3	7.4	6.6	
	60	M	0.49	36.3	29.1	24.2	18.2	14.5	12.1	10.4	9.1	8.1	7.3	
	70	M	0.53	39.3	31.4	26.2	19.6	15.7	13.1	11.2	9.8	8.7	7.9	
AM11005  (use 24 mesh)	15	XC	0.31	22.7	18.2	15.2	11.4	9.1	7.6	6.5	5.7	5.1	4.5	
	20	XC	0.35	26.3	21.0	17.5	13.1	10.5	8.8	7.5	6.6	5.8	5.3	
	30	VC	0.43	32.2	25.7	21.4	16.1	12.9	10.7	9.2	8.0	7.1	6.4	
	40	C	0.50	37.1	29.7	24.8	18.6	14.9	12.4	10.6	9.3	8.3	7.4	
	50	C	0.56	41.5	33.2	27.7	20.8	16.6	13.8	11.9	10.4	9.2	8.3	
	60	C	0.61	45.5	36.4	30.3	22.7	18.2	15.2	13.0	11.4	10.1	9.1	
	70	M	0.66	49.1	39.3	32.8	24.6	19.7	16.4	14.0	12.3	10.9	9.8	
AM11006  (use 24 mesh)	15	M	0.71	52.5	42.0	35.0	26.3	21.0	17.5	15.0	13.1	11.7	10.5	
	20	M	0.75	55.7	44.6	37.1	27.9	22.3	18.6	15.9	13.9	12.4	11.1	
	30	XC	0.37	27.3	21.8	18.2	13.6	10.9	9.1	7.8	6.8	6.1	5.5	
	40	XC	0.42	31.5	25.2	21.0	15.8	12.6	10.5	9.0	7.9	7.0	6.3	
	50	VC	0.52	38.6	30.9	25.7	19.3	15.4	12.9	11.0	9.6	8.6	7.7	
	60	C	0.60	44.6	35.7	29.7	22.3	17.8	14.9	12.7	11.1	9.9	8.9	
	70	C	0.67	49.8	39.9	33.2	24.9	19.9	16.6	14.2	12.5	11.1	10.0	
AM11006  (use 24 mesh)	80	C	0.74	54.6	43.7	36.4	27.3	21.8	18.2	15.6	13.6	12.1	10.9	
	90	M	0.79	59.0	47.2	39.3	29.5	23.6	19.7	16.8	14.7	13.1	11.8	
	90	M	0.85	63.0	50.4	42.0	31.5	25.2	21.0	18.0	15.8	14.0	12.6	
90	M	0.90	66.8	53.5	44.6	33.4	26.7	22.3	19.1	16.7	14.9	13.4		

GREENLEAF NOZZLES

TurboDrop® Variable Rate Fertilizer Nozzle

This nozzle is designed to apply liquid fertilizer at a 4-5x flow rate range to allow for varying fertilizer requirements of the target crop. It is available in a six hole streaming version (TDVRF) for use on standard sprayers, and a hose barb version (TDVRHB) for tool bars, nitrogen applicators and other dedicated fertilizer rigs.

The TurboDrop Variable Rate may be operated from 10-140 PSI, allowing up to a 5x rate change at a given speed. Additionally, the TDVRF and TDVRHB can maintain a constant GPA rate over a 5x speed change.

The TDVRF utilizes a six hole streaming tip in order to minimize potential leaf burn while maximizing fertilizer distribution, maintaining uniformity with varying spray heights. The TDVRHB utilizes a 3/8" hose barb for ease of installation of fertilizer rigs, and acts as a variable-flow metering orifice.

The TDVRF and TDVRHB are now "airless," providing a wider operating range, and eliminating the possibility of fertilizer spitting from the side. Accuracy is also improved.

Pressure Range: 10-140 PSI

Materials of Construction: Polyacetyl, stainless steel, EPDM



Description

TDVRF

TDVRHB

TDVRHB015		TDVRF015		Press.	Flow	GALLONS PER ACRE BASED ON 20" NOZZLE SPACING																			
PSI		GPM				3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	20			
10	0.123	12.2	9.1	7.3	6.1	5.2	4.6	4.1	3.7	3.3	3.0	2.8	2.6	2.4	2.3	2.1	2.0	1.8							
20	0.174	17.2	12.9	10.3	8.6	7.4	6.5	5.7	5.2	4.7	4.3	4.0	3.7	3.4	3.2	3.0	2.9	2.6							
30	0.266	26.3	19.8	15.8	13.2	11.3	9.9	8.8	7.9	7.2	6.6	6.1	5.6	5.3	4.9	4.6	4.4	4.0							
40	0.350	34.7	26.0	20.8	17.3	14.9	13.0	11.6	10.4	9.5	8.7	8.0	7.4	6.9	6.5	6.1	5.8	5.2							
50	0.391	38.7	29.0	23.2	19.4	16.6	14.5	12.9	11.6	10.6	9.7	8.9	8.3	7.7	7.3	6.8	6.5	5.8							
60	0.443	43.9	32.9	26.3	21.9	18.8	16.4	14.6	13.2	12.0	11.0	10.1	9.4	8.8	8.2	7.7	7.3	6.6							
70	0.483	47.8	35.9	28.7	23.9	20.5	17.9	15.9	14.3	13.0	12.0	11.0	10.2	9.6	9.0	8.4	8.0	7.2							
80	0.516	51.1	38.3	30.7	25.5	21.9	19.2	17.0	15.3	13.9	12.8	11.8	10.9	10.2	9.6	9.0	8.5	7.7							
100	0.566	56.0	42.0	33.6	28.0	24.0	21.0	18.7	16.8	15.3	14.0	12.9	12.0	11.2	10.5	9.9	9.3	8.4							
120	0.620	61.4	46.0	36.8	30.7	26.3	23.0	20.5	18.4	16.7	15.3	14.2	13.2	12.3	11.5	10.8	10.2	9.2							
140	0.670	66.3	49.7	39.8	33.2	28.4	24.9	22.1	19.9	18.1	16.6	15.3	14.2	13.3	12.4	11.7	11.1	9.9							

TDVRHB02		TDVRF02		Press.	Flow	GALLONS PER ACRE BASED ON 20" NOZZLE SPACING																			
PSI		GPM				3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	20			
10	0.180	17.8	13.4	10.7	8.9	7.6	6.7	5.9	5.3	4.9	4.5	4.1	3.8	3.6	3.3	3.1	3.0	2.7							
20	0.251	24.8	18.6	14.9	12.4	10.6	9.3	8.3	7.5	6.8	6.2	5.7	5.3	5.0	4.7	4.4	4.1	3.7							
30	0.384	38.0	28.5	22.8	19.0	16.3	14.3	12.7	11.4	10.4	9.5	8.8	8.1	7.6	7.1	6.7	6.3	5.7							
40	0.512	50.7	38.0	30.4	25.3	21.7	19.0	16.9	15.2	13.8	12.7	11.7	10.9	10.1	9.5	8.9	8.4	7.6							
50	0.575	56.9	42.7	34.2	28.5	24.4	21.3	19.0	17.1	15.5	14.2	13.1	12.2	11.4	10.7	10.0	9.5	8.5							
60	0.653	64.6	48.5	38.8	32.3	27.7	24.2	21.5	19.4	17.6	16.2	14.9	13.9	12.9	12.1	11.4	10.8	9.7							
70	0.696	68.9	51.7	41.3	34.5	29.5	25.8	23.0	20.7	18.8	17.2	15.9	14.8	13.8	12.9	12.2	11.5	10.3							
80	0.744	73.7	55.2	44.2	36.8	31.6	27.6	24.6	22.1	20.1	18.4	17.0	15.8	14.7	13.8	13.0	12.3	11.0							
100	0.821	81.3	61.0	48.8	40.6	34.8	30.5	27.1	24.4	22.2	20.3	18.8	17.4	16.3	15.2	14.3	13.5	12.2							
120	0.901	89.1	66.8	53.5	44.6	38.2	33.4	29.7	26.7	24.3	22.3	20.6	19.1	17.8	16.7	15.7	14.9	13.4							
140	0.972	96.2	72.2	57.7	48.1	41.2	36.1	32.1	28.9	26.2	24.1	22.2	20.6	19.2	18.0	17.0	16.0	14.4							

TDVRHB03		TDVRF03		Press.	Flow	GALLONS PER ACRE BASED ON 20" NOZZLE SPACING																			
PSI		GPM				3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	20			
10	0.230	22.8	17.1	13.7	11.4	9.8	8.5	7.6	6.8	6.2	5.7	5.3	4.9	4.6	4.3	4.0	3.8	3.4							
20	0.326	32.3	24.2	19.4	16.1	13.8	12.1	10.8	9.7	8.8	8.1	7.4	6.9	6.5	6.1	5.7	5.4	4.8							
30	0.492	48.7	36.5	29.2	24.4	20.9	18.3	16.2	14.6	13.3	12.2	11.2	10.4	9.7	9.1	8.6	8.1	7.3							
40	0.661	65.4	49.1	39.3	32.7	28.0	24.5	21.8	19.6	17.8	16.4	15.1	14.0	13.1	12.3	11.5	10.9	9.8							
50	0.739	73.2	54.9	43.9	36.6	31.4	27.4	24.4	21.9	20.0	18.3	16.9	15.7	14.6	13.7	12.9	12.2	11.0							
60	0.825	81.7	61.3	49.0	40.8	35.0	30.6	27.2	24.5	22.3	20.4	18.8	17.5	16.3	15.3	14.4	13.6	12.3							
70	0.885	87.6	65.7	52.6	43.8	37.5	32.9	29.2	26.3	23.9	21.9	20.2	18.8	17.5	16.4	15.5	14.6	13.1							
80	0.943	93.4	70.0	56.0	46.7	40.0	35.0	31.1	28.0	25.5	23.3	21.5	20.0	18.7	17.5	16.5	15.6	14.0							
100	1.054	104.3	78.3	62.6	52.2	44.7	39.1	34.8	31.3	28.5	26.1	24.1	22.4	20.9	19.6	18.4	17.4	15.7							
120	1.154	114.2	85.7	68.5	57.1	49.0	42.8	38.1	34.3	31.2	28.6	26.4	24.5	22.8	21.4	20.2	19.0	17.1							
140	1.247	123.5	92.6	74.1	61.7	52.9	46.3	41.2	37.0	33.7	30.9	28.5	26.5	24.7	23.1	21.8	20.6	18.5							

TDVRHB05		TDVRF05		Press.	Flow	GALLONS PER ACRE BASED ON 20" NOZZLE SPACING																			
PSI		GPM				3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	20			
10	0.454	44.9	33.7	27.0	22.5	19.3	16.9	15.0	13.5	12.3	11.2	10.4	9.6	9.0	8.4	7.9	7.5	6.7							
20	0.642	63.6	47.7	38.1	31.8	27.2	23.8	21.2	19.1	17.3	15.9	14.7	13.6	12.7	11.9	11.2	10.6	9.5							
30	0.758	75.0	56.3	45.0	37.5	32.2	28.1	25.0	22.5	20.5	18.8	17.3	16.1	15.0	14.1	13.2	12.5	11.3							
40	0.930	92.1	69.1	55.2	46.0	39.5	34.5	30.7	27.6	25.1	23.0	21.2	19.7	18.4	17.3	16.2	15.3	13.8							
50	1.039	102.9	77.1	61.7	51.4	44.1	38.6	34.3	30.9	28.1	25.7	23.7	22.0	20.6	19.3	18.2	17.1	15.4							
60	1.091	108.0	81.0	64.8	54.0	46.3	40.5	36.0	32.4	29.5	27.0	24.9	23.1	21.6	20.3	19.1	18.0	16.2							
70	1.269	125.6	94.2	75.4	62.8	53.8	47.1	41.9	37.7	34.3	31.4	29.0	26.9	25.1	23.6	22.2	20.9	18.8							
80	1.368	135.4	101.6	81.3	67.7	58.0	50.8	45.1	40.6	36.9	33.9	31.3	29.0	27.1	25.4	23.9	22.6	20.3							
100	1.530	151.5	113.6	90.9	75.7	64.9	56.8	50.5	45.4	41.3	37.9	35.0	32.5	30.3	28.4	26.7	25.2	22.7							
120	1.676	165.9	124.4	99.6	83.0	71.1	62.2	55.3	49.8	45.3	41.5	38.3	35.6	33.2	31.1	29.3	27.7	24.9							
140	1.810	179.2	134.4	107.5	89.6	76.8	67.2	59.7	53.8	48.9	44.8	41.4	38.4	35.8	33.6	31.6	29.9	26.9							

BOOM BUSTER & OTHER BOOMLESS NOZZLES

Boom Buster Spray Nozzles

- All nozzles machined from solid Stainless Steel with replaceable industrial grade nylon diffusers.
- Tests have shown that this nylon will outlast Stainless Steel.
- Extra wide spray pattern for excellent pattern and distribution.
- All models spray chemicals and fertilizers and have pipe threads.

Model
125
140
187
265
375

Standard Nozzle Application Chart Gallons Per Acre (water used for all calculations)

	PSI	GPM	DIST. IN FEET	EFF. DIST.	NOZZLE ANGLE	SPEED IN MILES PER HOUR									
						2	3	4	5	6	7	8	9	10	
MODEL 125 1/4" Standard Pipe Thread	30	1.7	17	15.5	LEVEL	27	18	14	11	9	8	7	6	5	
	40	2	17	15.5		32	21	16	13	11	9	8	7	6	
MODEL 140 1/4" Standard Pipe Thread	30	2.0	18	16.5	LEVEL	30	20	15	12	10	8.5	7.5	6.7	6	
	40	2.4	18	16.5	LEVEL	36	24	18	14	12	10	9	8	7	
	50	2.7	18	16.5	LEVEL	41	27	20	16	14	12	10	9	8	
MODEL 187 3/8" Standard Pipe Thread	30	3.6	20	18.5	LEVEL	48	32	24	19	16	14	12	11	9.6	
	40	4.3	20	18.5	LEVEL	58	38	29	23	19	16	14	13	12	
	50	4.8	20	18.5	LEVEL	64	43	32	26	21	18	16	14	13	
MODEL 265 1/2" Standard Pipe Thread	30	6.8	21	19.5	LEVEL	86	58	43	35	29	28.5	22	19	17	
	40	8.0	21	19.5	LEVEL	102	68	51	41	34	29	25	23	20	
	50	8.8	21	19.5	LEVEL	112	75	56	45	37	32	28	25	22	
MODEL 375 3/4" Standard Pipe Thread	30	14.4	23	21.5	LEVEL	166	111	83	66	55	47	41	37	33	
	40	16.7	23	21.5	LEVEL	193	128	96	77	64	55	48	43	38	
	50	18.8	23	21.5	LEVEL	216	144	108	87	72	62	54	48	43	



SPRAY TIPS & NOZZLES

Hypro XT Series The XT introduces boomless spray technology, enabling spray to be targeted into places that conventional booms and other tips cannot reach. XT delivers a uniform spray pattern over a distance of up to 20 feet. Ideal for weed control over pastureland. The smallest size, the XT010, is especially useful for applications made using ATV sprayers. Available in SS and Poly Nozzle.



BROADCAST and TURF Applications		Application Rate (GPA) at MPH														US Gal/1000 sq.ft. at MPH					Overall Swath (ft) @ 40PSI
Thread*	XT model	PSI	US GPM	4	5	6	7	8	10	12	14	16	18	20	2	3	4	5			
1/4" MNPT	XT010	30	0.9	9.3	7.4	6.2	5.3	4.6	3.7	3.1	2.7	2.3	2.1	1.9	0.43	0.28	0.21	0.17	12		
		40	1.0	10.3	8.3	6.9	5.9	5.2	4.1	3.4	2.9	2.6	2.3	2.1	0.47	0.32	0.24	0.19			
		50	1.1	11.3	9.1	7.6	6.5	5.7	4.5	3.8	3.2	2.8	2.5	2.3	0.52	0.35	0.26	0.21			
		60	1.2	12.4	9.9	8.3	7.1	6.2	5.0	4.1	3.5	3.1	2.8	2.5	0.57	0.38	0.28	0.23			
1/4" MNPT*	XT020 FC-XT020	30	1.7	12.4	9.9	8.3	7.1	6.2	5.0	4.1	3.5	3.1	2.8	2.5	0.57	0.38	0.28	0.23	17		
		40	2.0	14.6	11.6	9.7	8.3	7.3	5.8	4.9	4.2	3.6	3.2	2.9	0.67	0.45	0.33	0.27			
		50	2.2	16.0	12.8	10.7	9.2	8.0	6.4	5.3	4.6	4.0	3.6	3.2	0.74	0.49	0.37	0.29			
		60	2.4	17.5	14.0	11.6	10.0	8.7	7.0	5.8	5.0	4.4	3.9	3.5	0.80	0.53	0.40	0.32			
1/4" MNPT*	XT024 FC-XT024	30	2.1	14.4	11.6	9.6	8.3	7.2	5.8	4.8	4.1	3.6	3.2	2.9	0.66	0.44	0.33	0.27	18		
		40	2.4	16.5	13.2	11.0	9.4	8.3	6.6	5.5	4.7	4.1	3.7	3.3	0.76	0.51	0.38	0.30			
		50	2.7	18.6	14.9	12.4	10.6	9.3	7.4	6.2	5.3	4.6	4.1	3.7	0.85	0.57	0.43	0.34			
		60	2.9	19.9	16.0	13.3	11.4	10.0	8.0	6.6	5.7	5.0	4.4	4.0	0.92	0.61	0.46	0.37			
3/8" MNPT*	XT043 FC-XT043	30	3.7	25	20	17.0	14.5	12.7	10.2	8.5	7.3	6.4	5.7	5.1	1.2	0.78	0.58	0.47	18		
		40	4.3	30	24	19.7	16.9	14.8	11.8	9.9	8.4	7.4	6.6	5.9	1.4	0.90	0.68	0.54			
		50	4.8	33	26	22	18.9	16.5	13.2	11.0	9.4	8.3	7.3	6.6	1.5	1.0	0.76	0.61			
		60	5.3	36	29	24	21	18.2	14.6	12.1	10.4	9.1	8.1	7.3	1.7	1.1	0.84	0.67			
1/2" MNPT	XT080	30	6.9	50	40	33	29	25	20	16.7	14.4	12.6	11.2	10.0	2.3	1.5	1.2	0.92	17		
		40	8.0	58	47	39	33	29	23	19.4	16.6	14.6	12.9	11.6	2.7	1.8	1.3	1.1			
		50	8.9	65	52	43	37	32	26	22	18.5	16.2	14.4	13.0	3.0	2.0	1.5	1.2			
		60	9.8	71	57	48	41	36	29	24	20	17.8	15.9	14.3	3.3	2.2	1.6	1.3			
3/4" MNPT	XT167	30	14.5	100	80	66	57	50	40	33	28	25	22	20	4.6	3.1	2.3	1.8	18		
		40	16.7	115	92	77	66	57	46	38	33	29	26	23	5.3	3.5	2.6	2.1			
		50	18.7	129	103	86	73	64	51	43	37	32	29	26	5.9	3.9	3.0	2.4			
		60	20.5	141	113	94	81	70	56	47	40	35	31	28	6.5	4.3	3.2	2.6			
3/4" MNPT	XT215	30	18.6	115	92	77	66	58	46	38	33	29	26	23	5.3	3.5	2.6	2.1	20		
		40	21.5	133	106	89	76	67	53	44	38	33	30	27	6.1	4.1	3.1	2.4			
		50	24.0	149	119	99	85	74	59	50	42	37	33	30	6.8	4.5	3.4	2.7			
		60	26.3	163	130	108	93	81	65	54	46	41	36	33	7.5	5.0	3.7	3.0			

Note: Application rates are based on overall swath widths listed at 48" height. Refer to operating instructions if using a different swath.
* Thread sizes applicable to standard models with threaded stainless steel body only.

Spraying Systems Boomless Nozzles

The 5880 boomless nozzle combines two off-center tips and three TeeJet nozzles for an overall wide swath flat spray. The 5880 also has a 1/4" pressure gauge port. Available in sizes from 06-40.



Part#
5880-3/4-2TOC

Swivel Boomless Spray Nozzles

Large capacity off-center type 4629 single swivel nozzles for use as tractor mounted boomless nozzles. Also used for roadside spraying. Available in sizes from 10 to size 300.



Part#
4629-3/4-TOC

HYPRO ULTRA LO-DRIFT

Fast Cap "ULD" Ultra Lo-Drift Dual Air Eduction

This is an excellent drift management spray tip that won't compromise spray quality. Fast Cap Ultra-Lo-Drift FC-ULD with dual air eduction technology creates significant opportunity to increase spraying days without changing tips or spraying practices. The spray tip number is printed on the cap for easy identification.



Part#

FC-ULD120-(*)

*Represents number(s) which indicate color

Tip Size	Droplet Size 120°	Pressure (PSI)	Flow Rate (GPM)	Gallons per Acre 20 inch nozzle spacing								GAL/1000 ft ² 20 inch nozzle spacing			
				4	5	6	8	10	12	15	20	2	3	4	5
015	UC	15	0.09	6.7	5.3	4.5	3.3	2.7	2.2	1.8	1.3	0.31	0.20	0.15	0.12
	UC	20	0.11	8.2	6.5	5.4	4.1	3.3	2.7	2.2	1.6	0.38	0.25	0.19	0.15
	XC	30	0.13	9.7	7.7	6.4	4.8	3.9	3.2	2.6	1.9	0.44	0.30	0.22	0.18
	VC	40	0.15	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20
	VC	50	0.17	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23
	C	60	0.18	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.25
	C	70	0.20	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27
	C	80	0.21	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.72	0.48	0.36	0.29
	M	90	0.23	17.1	13.7	11.4	8.5	6.8	5.7	4.6	3.4	0.78	0.52	0.39	0.31
	M	100	0.24	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.55	0.41	0.33
	M	115	0.25	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34
02	UC	15	0.12	8.9	7.1	5.9	4.5	3.6	3.0	2.4	1.8	0.41	0.27	0.20	0.16
	UC	20	0.14	10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1	0.48	0.32	0.24	0.19
	XC	30	0.17	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23
	VC	40	0.20	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27
	C	50	0.22	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.38	0.30
	C	60	0.24	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.55	0.41	0.33
	C	70	0.26	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.89	0.59	0.44	0.35
	M	80	0.28	20.8	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.64	0.48	0.38
	M	90	0.30	22.3	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.02	0.68	0.51	0.41
	M	100	0.32	23.8	19.0	15.8	11.9	9.5	7.9	6.3	4.8	1.09	0.73	0.55	0.44
	M	115	0.34	25.2	20.2	16.8	12.6	10.1	8.4	6.7	5.0	1.15	0.77	0.58	0.46
025	UC	15	0.15	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20
	UC	20	0.18	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.25
	XC	30	0.22	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.38	0.30
	C	40	0.25	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34
	C	50	0.28	20.8	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.64	0.48	0.38
	C	60	0.31	23.0	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.06	0.70	0.53	0.42
	M	70	0.33	24.5	19.6	16.3	12.3	9.8	8.2	6.5	4.9	1.13	0.75	0.56	0.45
	M	80	0.35	26.0	20.8	17.3	13.0	10.4	8.7	6.9	5.2	1.19	0.80	0.60	0.48
	M	90	0.38	28.2	22.6	18.8	14.1	11.3	9.4	7.5	5.6	1.30	0.86	0.65	0.52
	M	100	0.40	29.7	23.8	19.8	14.9	11.9	9.9	7.9	5.9	1.36	0.91	0.68	0.55
	M	115	0.42	31.2	24.9	20.8	15.6	12.5	10.4	8.3	6.2	1.43	0.95	0.72	0.57
03	UC	15	0.18	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.25
	UC	20	0.21	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.72	0.48	0.36	0.29
	XC	30	0.26	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.89	0.59	0.44	0.35
	C	40	0.30	22.3	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.02	0.68	0.51	0.41
	C	50	0.34	25.2	20.2	16.8	12.6	10.1	8.4	6.7	5.0	1.16	0.77	0.58	0.46
	C	60	0.37	27.5	22.0	18.3	13.7	11.0	9.2	7.3	5.5	1.26	0.84	0.63	0.50
	M	70	0.40	29.7	23.8	19.8	14.9	11.9	9.9	7.9	5.9	1.36	0.91	0.68	0.55
	M	80	0.42	31.2	24.9	20.8	15.6	12.5	10.4	8.3	6.2	1.43	0.95	0.72	0.57
	M	90	0.45	33.4	26.7	22.3	16.7	13.4	11.1	8.9	6.7	1.53	1.02	0.77	0.61
	M	100	0.47	34.9	27.9	23.3	17.4	14.0	11.6	9.3	7.0	1.60	1.07	0.80	0.64
	M	115	0.51	37.9	30.3	25.2	18.9	15.1	12.6	10.1	7.6	1.74	1.16	0.87	0.70
04	UC	15	0.24	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.55	0.41	0.33
	UC	20	0.28	20.8	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.64	0.48	0.38
	UC	30	0.35	26.0	20.8	17.3	13.0	10.4	8.7	6.9	5.2	1.19	0.80	0.60	0.48
	VC	40	0.40	29.7	23.8	19.8	14.9	11.9	9.9	7.9	5.9	1.36	0.91	0.68	0.55
	VC	50	0.45	33.4	26.7	22.3	16.7	13.4	11.1	8.9	6.7	1.53	1.02	0.77	0.61
	VC	60	0.49	36.4	29.1	24.3	18.2	14.6	12.1	9.7	7.3	1.67	1.11	0.84	0.67
	VC	70	0.53	39.4	31.5	26.2	19.7	15.7	13.1	10.5	7.9	1.81	1.20	0.90	0.72
	VC	80	0.57	42.3	33.9	28.2	21.2	16.9	14.1	11.3	8.5	1.94	1.30	0.97	0.78
	VC	90	0.60	44.6	35.6	29.7	22.3	17.8	14.9	11.9	8.9	2.05	1.36	1.02	0.82
	C	100	0.63	46.8	37.4	31.2	23.4	18.7	15.6	12.5	9.4	2.15	1.43	1.07	0.86
	C	115	0.68	50.5	40.4	33.7	25.2	20.2	16.8	13.5	10.1	2.32	1.55	1.16	0.93
05	UC	15	0.31	23.0	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.08	0.70	0.53	0.42
	UC	20	0.35	26.0	20.8	17.3	13.0	10.4	8.7	6.9	5.2	1.19	0.80	0.60	0.48
	UC	30	0.43	31.9	25.5	21.3	16.0	12.8	10.6	8.5	6.4	1.47	0.98	0.73	0.59
	XC	40	0.50	37.1	29.7	24.8	18.6	14.9	12.4	9.9	7.4	1.71	1.14	0.85	0.68
	XC	50	0.56	41.6	33.3	27.7	20.8	16.6	13.9	11.1	8.3	1.91	1.27	0.95	0.76
	VC	60	0.61	45.3	36.2	30.2	22.6	18.1	15.1	12.1	9.1	2.08	1.39	1.04	0.83
	VC	70	0.66	49.0	39.2	32.7	24.5	19.6	16.3	13.1	9.8	2.25	1.50	1.13	0.90
	VC	80	0.71	52.7	42.2	35.1	26.4	21.1	17.6	14.1	10.5	2.42	1.61	1.21	0.97
	VC	90	0.75	55.7	44.6	37.1	27.8	22.3	18.6	14.9	11.1	2.56	1.71	1.28	1.02
	C	100	0.79	58.7	46.9	39.1	29.3	23.5	19.6	15.6	11.7	2.69	1.80	1.35	1.08
	C	115	0.85	63.1	50.5	42.1	31.6	25.2	21.0	16.8	12.6	2.90	1.93	1.45	1.16
06	UC	15	0.37	27.5	22.0	18.3	13.7	11.0	9.2	7.3	5.5	1.26	0.84	0.63	0.50
	UC	20	0.42	31.2	24.9	20.8	15.6	12.5	10.4	8.3	6.2	1.43	0.95	0.72	0.57
	UC	30	0.52	38.6	30.9	25.7	19.3	15.4	12.9	10.3	7.7	1.77	1.18	0.89	0.71
	XC	40	0.60	44.6	35.6	29.7	22.3	17.8	14.9	11.9	8.9	2.05	1.36	1.02	0.82
	XC	50	0.67	49.7	39.8	33.2	24.9	19.9	16.6	13.3	9.9	2.28	1.52	1.14	0.91
	VC	60	0.73	54.2	43.4	36.1	27.1	21.7	18.1	14.5	10.8	2.49	1.66	1.24	1.00
	C	70	0.79	58.7	46.9	39.1	29.3	23.5	19.6	15.6	11.7	2.69	1.80	1.35	1.08
	C	80	0.85	63.1	50.5	42.1	31.6	25.2	21.0	16.8	12.6	2.90	1.93	1.45	1.16
	C	90	0.90	66.8	53.5	44.6	33.4	26.7	22.3	17.8	13.4	3.07	2.05	1.53	1.23
	C	100	0.95	70.5	56.4	47.0	35.3	28.2	23.5	18.8	14.1	3.24	2.16	1.62	1.30
	M	115	1.02	75.7	60.6	50.5	37.9	30.3	25.2	20.2	15.1	3.48	2.32	1.74	1.39
08	UC	15	0.49	36.4	29.1	24.3	18.2	14.6	12.1	9.7	7.3	1.67	1.11	0.84	0.67
	UC</														

HYPRO GUARDIANAIR NOZZLES

Hypro Guardian Air Spray Tips

The Hypro GuardianAIR is the only spray tip with a pattern and droplet size scientifically designed to maximize coverage and productivity at spray rates around 10 GPA. This technology was originally developed by Hypro for the Syngenta Amistar nozzle and has been proven on millions of acres around the world.



Part#
FC-GA110(*)

*Represents number(s) which indicate color

Tip Size	Droplet Size 110°	Pressure (PSI)	Flow Rate (GPM)	Gallons per Acre 20 inch nozzle spacing								GAL/1000 ^{ft}			
				4	5	6	8	10	12	15	20	2	3	4	5
015	UC	15	0.09	6.7	5.3	4.5	3.3	2.7	2.2	1.8	1.3	0.51	0.20	0.15	0.12
	UC	20	0.11	8.2	6.5	5.4	4.1	3.3	2.7	2.2	1.6	0.58	0.25	0.19	0.15
	XC	30	0.13	9.7	7.7	6.4	4.8	3.9	3.2	2.6	1.9	0.44	0.30	0.22	0.18
	VC	40	0.15	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20
	C	50	0.17	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23
	C	60	0.18	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.25
	M	70	0.20	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27
	M	80	0.21	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.72	0.48	0.36	0.29
	M	90	0.23	17.1	13.7	11.4	8.5	6.8	5.7	4.6	3.4	0.78	0.52	0.39	0.31
	M	100	0.24	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.55	0.41	0.33
M	115	0.25	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34	
02	UC	15	0.12	8.9	7.1	5.9	4.5	3.6	3.0	2.4	1.8	0.41	0.27	0.20	0.16
	UC	20	0.14	10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1	0.48	0.32	0.24	0.19
	XC	30	0.17	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23
	VC	40	0.20	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27
	M	50	0.22	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.38	0.30
	M	60	0.24	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.55	0.41	0.33
	M	70	0.26	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.89	0.59	0.44	0.35
	M	80	0.28	20.8	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.64	0.48	0.38
	M	90	0.30	22.3	17.9	14.9	11.1	8.9	7.4	5.9	4.5	1.02	0.68	0.51	0.41
	M	100	0.32	23.8	19.0	15.8	11.9	9.5	7.9	6.3	4.8	1.09	0.73	0.55	0.44
M	115	0.34	25.2	20.2	16.8	12.6	10.1	8.4	6.7	5.0	1.16	0.77	0.58	0.46	
025	UC	15	0.15	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20
	UC	20	0.18	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.25
	XC	30	0.22	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.38	0.30
	VC	40	0.25	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34
	M	50	0.28	20.8	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.64	0.48	0.38
	M	60	0.31	23.0	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.06	0.70	0.53	0.42
	M	70	0.33	24.5	19.6	16.3	12.3	9.8	8.2	6.5	4.9	1.13	0.75	0.56	0.45
	M	80	0.35	26.0	20.8	17.3	13.0	10.4	8.7	6.9	5.2	1.19	0.80	0.60	0.48
	M	90	0.38	28.2	22.6	18.8	14.1	11.3	9.4	7.5	5.6	1.30	0.86	0.65	0.52
	M	100	0.40	29.7	23.8	19.8	14.9	11.9	9.9	7.9	5.9	1.36	0.91	0.68	0.55
M	115	0.42	31.2	24.9	20.8	15.6	12.5	10.4	8.3	6.2	1.43	0.95	0.72	0.57	
03	UC	15	0.18	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.25
	UC	20	0.21	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.72	0.48	0.36	0.29
	XC	30	0.26	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.89	0.59	0.44	0.35
	VC	40	0.30	22.3	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.02	0.68	0.51	0.41
	C	50	0.34	25.2	20.2	16.8	12.6	10.1	8.4	6.7	5.0	1.16	0.77	0.58	0.46
	C	60	0.37	27.5	22.0	18.3	13.7	11.0	9.2	7.3	5.5	1.26	0.84	0.63	0.51
	C	70	0.40	29.7	23.8	19.8	14.9	11.9	9.9	7.9	5.9	1.36	0.91	0.68	0.55
	M	80	0.42	31.2	24.9	20.8	15.6	12.5	10.4	8.3	6.2	1.43	0.95	0.72	0.57
	M	90	0.45	33.4	26.7	22.3	16.7	13.4	11.1	8.9	6.7	1.53	1.02	0.77	0.61
	M	100	0.47	34.9	27.9	23.3	17.4	14.0	11.6	9.3	7.0	1.60	1.07	0.80	0.64
M	115	0.51	37.9	30.3	25.2	18.9	15.1	12.6	10.1	7.6	1.74	1.16	0.87	0.70	
035	UC	15	0.21	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.72	0.48	0.36	0.29
	UC	20	0.25	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34
	XC	30	0.30	22.3	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.02	0.68	0.51	0.41
	VC	40	0.35	26.0	20.8	17.3	13.0	10.4	8.7	6.9	5.2	1.19	0.80	0.60	0.48
	C	50	0.39	29.0	23.2	19.3	14.5	11.6	9.7	7.7	5.8	1.33	0.89	0.66	0.53
	C	60	0.43	31.9	25.5	21.3	16.0	12.8	10.6	8.5	6.4	1.47	0.98	0.73	0.59
	C	70	0.46	34.2	27.3	22.8	17.1	13.7	11.4	9.1	6.8	1.57	1.05	0.78	0.63
	M	80	0.49	36.4	29.1	24.3	18.2	14.6	12.1	9.7	7.3	1.67	1.11	0.84	0.67
	M	90	0.53	39.4	31.5	26.2	19.7	15.7	13.1	10.5	7.9	1.81	1.20	0.90	0.72
	M	100	0.55	40.8	32.7	27.2	20.4	16.3	13.6	10.9	8.2	1.88	1.25	0.94	0.75
M	115	0.59	43.8	35.0	29.2	21.9	17.5	14.6	11.7	8.8	2.01	1.34	1.01	0.80	
04	UC	15	0.24	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.55	0.41	0.33
	UC	20	0.28	20.8	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.64	0.48	0.38
	XC	30	0.35	26.0	20.8	17.3	13.0	10.4	8.7	6.9	5.2	1.19	0.80	0.60	0.48
	VC	40	0.40	29.7	23.8	19.8	14.9	11.9	9.9	7.9	5.9	1.36	0.91	0.68	0.55
	C	50	0.45	33.4	26.7	22.3	16.7	13.4	11.1	8.9	6.7	1.53	1.02	0.77	0.61
	C	60	0.49	36.4	29.1	24.3	18.2	14.6	12.1	9.7	7.3	1.67	1.11	0.84	0.67
	M	70	0.53	39.4	31.5	26.2	19.7	15.7	13.1	10.5	7.9	1.81	1.20	0.90	0.72
	M	80	0.57	42.3	33.9	28.2	21.2	16.9	14.1	11.3	8.5	1.94	1.30	0.97	0.78
	M	90	0.60	44.6	35.6	29.7	22.3	17.8	14.9	11.9	8.9	2.05	1.36	1.02	0.82
	M	100	0.63	46.8	37.4	31.2	23.4	18.7	15.6	12.5	9.4	2.15	1.43	1.07	0.86
M	115	0.68	50.5	40.4	33.7	25.2	20.2	16.8	13.5	10.1	2.32	1.55	1.16	0.93	
05	UC	15	0.31	23.0	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.06	0.70	0.53	0.42
	UC	20	0.35	26.0	20.8	17.3	13.0	10.4	8.7	6.9	5.2	1.19	0.80	0.60	0.48
	XC	30	0.43	31.9	25.5	21.3	16.0	12.8	10.6	8.5	6.4	1.47	0.98	0.73	0.59
	VC	40	0.50	37.1	29.7	24.8	18.6	14.9	12.4	9.9	7.4	1.71	1.14	0.85	0.68
	C	50	0.56	41.6	33.3	27.7	20.8	16.6	13.9	11.1	8.3	1.91	1.27	0.95	0.76
	C	60	0.61	45.3	36.2	30.2	22.6	18.1	15.1	12.1	9.1	2.08	1.39	1.04	0.83
	C	70	0.66	49.0	39.2	32.7	24.5	19.6	16.3	13.1	9.8	2.25	1.50	1.13	0.90
	M	80	0.71	52.7	42.2	35.1	26.4	21.1	17.6	14.1	10.5	2.42	1.61	1.21	0.97
	M	90	0.75	55.7	44.6	37.1	27.9	22.3	18.6	14.9	11.1	2.56	1.71	1.28	1.02
	M	100	0.79	58.7	46.9	39.1	29.3	23.5	19.6	15.6	11.7	2.69	1.80	1.35	1.08
M	115	0.85	63.1	50.5	42.1	31.6	25.2	21.0	16.8	12.6	2.90	1.93	1.45	1.16	

Features	
Common Use	Plant Health
Pattern	Tapered Flat Fan
Technology	Air Eduction
Material	Polyacetal
Spray Angle	110°
Pressure Range	15-115 PSI
Configuration	Tips, FastCap

Application Selection Guide	
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HYPRO 3-D NOZZLES

SPRAY TIPS & NOZZLES

Hypro - 3-D Nozzles

Designed in partnership with Syngenta using wind tunnel research and more than 10 years of agronomic field trials. Proven to deliver up to a 10% increase in pre-emerge weed control compared to a conventional flat fan (Syngenta UK Trials - 0.6 l/ha Liberator (diflufenican+ flufenacet) + 4 l/ha Defy (Prosulfacarb) applied November 2015). Creates the optimum droplet size for coverage, fewer droplets bounce off or drift away.



Nozzle Size	Droplet Size	Pressure (PSI)	Flow (GPM)	Speed (MPH) - 20 inch nozzle spacing											
				Gallons per Acre											
				5.0	7.5	10.0	12.5	15.0	17.5	20.0	22.5	25.0	27.5	30.0	
015	C	10*	0.08	4.5	3.0	2.2	1.8	1.5	1.3	1.1	1.0	0.9	0.8	0.7	
	M	15*	0.09	5.5	3.6	2.7	2.2	1.8	1.6	1.4	1.2	1.1	1.0	0.9	
	M	20	0.11	6.3	4.2	3.2	2.5	2.1	1.8	1.6	1.4	1.3	1.1	1.1	
	F	30	0.13	7.7	5.1	3.9	3.1	2.6	2.2	1.9	1.7	1.5	1.4	1.3	
	F	40	0.15	8.9	5.9	4.5	3.6	3.0	2.5	2.2	2.0	1.8	1.6	1.5	
	F	50	0.17	10.0	6.6	5.0	4.0	3.3	2.8	2.5	2.2	2.0	1.8	1.7	
	F	60	0.18	10.9	7.3	5.5	4.4	3.6	3.1	2.7	2.4	2.2	2.0	1.8	
	F	70	0.20	11.8	7.9	5.9	4.7	3.9	3.4	2.9	2.6	2.4	2.1	2.0	
	F	90	0.23	13.4	8.9	6.7	5.3	4.5	3.8	3.3	3.0	2.7	2.4	2.2	
02	M	10*	0.10	5.9	4.0	3.0	2.4	2.0	1.7	1.5	1.3	1.2	1.1	1.0	
	M	15*	0.12	7.3	4.8	3.6	2.9	2.4	2.1	1.8	1.6	1.5	1.3	1.2	
	M	20	0.14	8.4	5.6	4.2	3.4	2.8	2.4	2.1	1.9	1.7	1.5	1.4	
	M	30	0.17	10.3	6.9	5.1	4.1	3.4	2.9	2.6	2.3	2.1	1.9	1.7	
	F	40	0.20	11.9	7.9	5.9	4.8	4.0	3.4	3.0	2.6	2.4	2.2	2.0	
	F	50	0.22	13.3	8.9	6.6	5.3	4.4	3.8	3.3	3.0	2.7	2.4	2.2	
	F	60	0.24	14.5	9.7	7.3	5.8	4.8	4.2	3.6	3.2	2.9	2.6	2.4	
	F	70	0.26	15.7	10.5	7.9	6.3	5.2	4.5	3.9	3.5	3.1	2.9	2.6	
	F	90	0.30	17.8	11.9	8.9	7.1	5.9	5.1	4.5	4.0	3.6	3.2	3.0	
025	C	10*	0.13	7.4	5.0	3.7	3.0	2.5	2.1	1.9	1.7	1.5	1.4	1.2	
	M	15*	0.15	9.1	6.1	4.5	3.6	3.0	2.6	2.3	2.0	1.8	1.7	1.5	
	M	20	0.18	10.5	7.0	5.3	4.2	3.5	3.0	2.6	2.3	2.1	1.9	1.8	
	M	30	0.22	12.9	8.6	6.4	5.1	4.3	3.7	3.2	2.9	2.6	2.3	2.1	
	M	40	0.25	14.9	9.9	7.4	5.9	5.0	4.2	3.7	3.3	3.0	2.7	2.5	
	F	50	0.28	16.6	11.1	8.3	6.6	5.5	4.7	4.2	3.7	3.3	3.0	2.8	
	F	60	0.31	18.2	12.1	9.1	7.3	6.1	5.2	4.5	4.0	3.6	3.3	3.0	
	F	70	0.33	19.6	13.1	9.8	7.9	6.5	5.6	4.9	4.4	3.9	3.6	3.3	
	F	90	0.38	22.3	14.9	11.1	8.9	7.4	6.4	5.6	5.0	4.5	4.1	3.7	
03	VC	10*	0.15	8.9	5.9	4.5	3.6	3.0	2.5	2.2	2.0	1.8	1.6	1.5	
	C	15*	0.18	10.9	7.3	5.5	4.4	3.6	3.1	2.7	2.4	2.2	2.0	1.8	
	M	20	0.21	12.6	8.4	6.3	5.0	4.2	3.6	3.2	2.8	2.5	2.3	2.1	
	M	30	0.26	15.4	10.3	7.7	6.2	5.1	4.4	3.9	3.4	3.1	2.8	2.6	
	M	40	0.30	17.8	11.9	8.9	7.1	5.9	5.1	4.5	4.0	3.6	3.2	3.0	
	M	50	0.34	19.9	13.3	10.0	8.0	6.6	5.7	5.0	4.4	4.0	3.6	3.3	
	F	60	0.37	21.8	14.5	10.9	8.7	7.3	6.2	5.5	4.8	4.4	4.0	3.6	
	F	70	0.40	23.6	15.7	11.8	9.4	7.9	6.7	5.9	5.2	4.7	4.3	3.9	
	F	90	0.45	25.2	16.8	12.6	10.1	8.4	7.2	6.3	5.6	5.0	4.6	4.2	
35	VC	10*	0.18	10.4	6.9	5.2	4.2	3.5	3.0	2.6	2.3	2.1	1.9	1.7	
	C	15*	0.21	12.7	8.5	6.4	5.1	4.2	3.6	3.2	2.8	2.5	2.3	2.1	
	C	20	0.25	14.7	9.8	7.4	5.9	4.9	4.2	3.7	3.3	2.9	2.7	2.5	
	M	30	0.30	18.0	12.0	9.0	7.2	6.0	5.1	4.5	4.0	3.6	3.3	3.0	
	M	40	0.35	20.8	13.9	10.4	8.3	6.9	5.9	5.2	4.6	4.2	3.8	3.5	
	M	50	0.39	23.2	15.5	11.6	9.3	7.7	6.6	5.8	5.2	4.6	4.2	3.9	
	M	60	0.43	25.5	17.0	12.7	10.2	8.5	7.3	6.4	5.7	5.1	4.6	4.2	
	M	70	0.46	27.5	18.3	13.8	11.0	9.2	7.9	6.9	6.1	5.5	5.0	4.6	
	F	90	0.53	29.4	19.6	14.7	11.8	9.8	8.4	7.4	6.5	5.9	5.3	4.9	
04	XC	10*	0.20	11.9	7.9	5.9	4.8	4.0	3.4	3.0	2.6	2.4	2.2	2.0	
	VC	15*	0.24	14.5	9.7	7.3	5.8	4.8	4.2	3.6	3.2	2.9	2.6	2.4	
	C	20	0.28	16.8	11.2	8.4	6.7	5.6	4.8	4.2	3.7	3.4	3.1	2.8	
	M	30	0.35	20.6	13.7	10.3	8.2	6.9	5.9	5.1	4.6	4.1	3.7	3.4	
	M	40	0.40	23.8	15.8	11.9	9.5	7.9	6.8	5.9	5.3	4.8	4.3	4.0	
	M	50	0.45	26.6	17.7	13.3	10.6	8.9	7.6	6.6	5.9	5.3	4.8	4.4	
	M	60	0.49	29.1	19.4	14.5	11.6	9.7	8.3	7.3	6.5	5.8	5.3	4.8	
	M	70	0.53	-	21.0	15.7	12.6	10.5	9.0	7.9	7.0	6.3	5.7	5.2	
	F	90	0.60	-	22.4	16.8	13.4	11.2	9.6	8.4	7.5	6.7	6.1	5.6	
05	XC	10*	0.25	14.9	9.9	7.4	5.9	5.0	4.2	3.7	3.3	3.0	2.7	2.5	
	VC	15*	0.31	18.2	12.1	9.1	7.3	6.1	5.2	4.5	4.0	3.6	3.3	3.0	
	C	20	0.35	21.0	14.0	10.5	8.4	7.0	6.0	5.3	4.7	4.2	3.8	3.5	
	C	30	0.43	25.7	17.1	12.9	10.3	8.6	7.3	6.4	5.7	5.1	4.7	4.3	
	M	40	0.50	29.7	19.8	14.9	11.9	9.9	8.5	7.4	6.6	5.9	5.4	5.0	
	M	50	0.56	-	22.1	16.6	13.3	11.1	9.5	8.3	7.4	6.6	6.0	5.5	
	M	60	0.61	-	24.2	18.2	14.5	12.1	10.4	9.1	8.1	7.3	6.6	6.1	
	M	70	0.66	-	26.2	19.6	15.7	13.1	11.2	9.8	8.7	7.9	7.1	6.5	
	M	90	0.75	-	28.0	21.0	16.8	14.0	12.0	10.5	9.3	8.4	7.6	7.0	
06	XC	10*	0.30	17.8	11.9	8.9	7.1	5.9	5.1	4.5	4.0	3.6	3.2	3.0	
	VC	15*	0.37	21.8	14.5	10.9	8.7	7.3	6.2	5.5	4.8	4.4	4.0	3.6	
	C	20	0.42	25.2	16.8	12.6	10.1	8.4	7.2	6.3	5.6	5.0	4.6	4.2	
	C	30	0.52	-	20.6	15.4	12.3	10.3	8.8	7.7	6.9	6.2	5.6	5.1	
	C	40	0.60	-	23.8	17.8	14.3	11.9	10.2	8.9	7.9	7.1	6.5	5.9	
	M	50	0.67	-	26.6	19.9	15.9	13.3	11.4	10.0	8.9	8.0	7.2	6.6	
	M	60	0.73	-	29.1	21.8	17.5	14.5	12.5	10.9	9.7	8.7	7.9	7.3	
	M	70	0.79	-	-	23.6	18.9	15.7	13.5	11.8	10.5	9.4	8.6	7.9	
	M	90	0.90	-	-	25.2	20.2	16.8	14.4	12.6	11.2	10.1	9.2	8.4	
08	XC	10*	0.40	23.8	15.8	11.9	9.5	7.9	6.8	5.9	5.3	4.8	4.3	4.0	
	VC	15*	0.49	29.1	19.4	14.5	11.6	9.7	8.3	7.3	6.5	5.8	5.3	4.8	
	VC	20	0.57	-	22.4	16.8	13.4	11.2	9.6	8.4	7.5	6.7	6.1	5.6	
	C	30	0.69	-	27.4	20.6	16.5	13.7	11.8	10.3	9.1	8.2	7.5	6.9	
	C	40	0.80	-	-	23.8	19.0	15.8	13.6	11.9	10.6	9.5	8.6	7.9	
	M	50	0.89	-	-	26.6	21.3	17.7	15.2	13.3	11.8	10.6	9.7	8.9	
	M	60	0.98	-	-	29.1	23.3	19.4	16.6	14.5	12.9	11.6	10.6	9.7	
	M	70	1.06	-	-	-	25.1	21.0	18.0	15.7	14.0	12.6	11.4	10.5	
	M	90	1.13	-	-	-	26.9	22.4	19.2	16.8	14.9	13.4	12.2	11.2	

Part#
FC-3D100-(*)

* Represents number(s) which indicate color and Nozzle Size.

Features	
Common Use	Weed control, plant health
Pattern	Alternating Tapered Flat Fans
Technology	Advanced Tapered Flat Fan
Material	Polyacetal
Spray Angle	100°
Pressure Range	10-90 PSI (0.7-6 BAR)
Configuration	Tips, SnapLock

Optimum Boom Height	
15" [35cm] Spacing	15-25" [35-60 cm]
20" [50cm] Spacing	20-30" [50-75 cm]

Replacement Tip Strainer	
TS01-100	100# strainer for size 015-035
TS01-50	50# strainer for size 04-08

Droplet size based on ASABE S572.1 standard.
*For pressures lower than 15 PSI, nozzle spray angle may be reduced and will require a boom height of 30in to maintain spray distribution.

Hypro - Guardian Nozzles

Guardian spray tips are ready to attack from every angle. Ideal for insecticide and fungicide applications, the Guardian's unique 20° inclined spray pattern allows users to adjust the spray rearward, forward or as a twin spray to best suit the application target.



SPRAY TIPS & NOZZLES

Tip Size	Droplet Size 120°	Pressure (PSI)	Flow Rate (GPM)	Gallons per Acre 20 inch nozzle spacing								GAL/1000 ^{ft}			
				MPH								20 inch nozzle spacing			
				4	5	6	8	10	12	15	20	2	3	4	5
01	C	15	0.06	4.5	3.6	3.0	2.2	1.8	1.5	1.2	0.9	0.20	0.14	0.10	0.08
	C	20	0.07	5.2	4.2	3.5	2.6	2.1	1.7	1.4	1.0	0.24	0.16	0.12	0.10
	C	30	0.09	6.7	5.3	4.5	3.3	2.7	2.2	1.8	1.3	0.31	0.20	0.15	0.12
	M	40	0.10	8.2	5.9	5.0	3.7	3.0	2.5	2.0	1.5	0.34	0.23	0.17	0.14
	M	50	0.11	8.2	6.5	5.4	4.1	3.3	2.7	2.2	1.6	0.38	0.25	0.19	0.15
	M	60	0.12	8.9	7.1	5.9	4.5	3.6	3.0	2.4	1.8	0.41	0.27	0.20	0.16
	M	70	0.13	9.7	7.7	6.4	4.8	3.9	3.2	2.6	1.9	0.44	0.30	0.22	0.18
	M	80	0.14	10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1	0.48	0.32	0.24	0.19
	M	90	0.15	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20
	M	100	0.16	11.9	9.5	7.9	5.9	4.8	4.0	3.2	2.4	0.55	0.36	0.27	0.22
015	C	15	0.09	6.7	5.3	4.5	3.3	2.7	2.2	1.8	1.3	0.31	0.20	0.15	0.12
	C	20	0.11	8.2	6.5	5.4	4.1	3.3	2.7	2.2	1.6	0.38	0.25	0.19	0.15
	C	30	0.13	9.7	7.7	6.4	4.8	3.9	3.2	2.6	1.9	0.44	0.30	0.22	0.18
	M	40	0.15	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20
	M	50	0.17	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23
	M	60	0.18	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.25
	M	70	0.20	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27
	M	80	0.21	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.72	0.48	0.36	0.29
	M	90	0.23	17.1	13.7	11.4	8.5	6.8	5.7	4.6	3.4	0.78	0.52	0.39	0.31
	M	100	0.24	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.55	0.41	0.33
02	VC	15	0.12	8.9	7.1	5.9	4.5	3.6	3.0	2.4	1.8	0.41	0.27	0.20	0.16
	C	20	0.14	10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1	0.48	0.32	0.24	0.19
	C	30	0.17	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23
	C	40	0.20	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27
	M	50	0.22	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.38	0.30
	M	60	0.24	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.55	0.41	0.33
	M	70	0.26	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.89	0.59	0.44	0.35
	M	80	0.28	20.8	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.96	0.64	0.48	0.38
	M	90	0.30	22.3	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.02	0.68	0.51	0.41
	M	100	0.32	23.8	19.0	15.8	11.9	9.5	7.9	6.3	4.8	1.09	0.73	0.55	0.44
023	VC	15	0.15	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20
	C	20	0.18	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.25
	C	30	0.22	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.38	0.30
	C	40	0.25	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34
	M	50	0.28	20.8	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.64	0.48	0.38
	M	60	0.31	23.0	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.06	0.70	0.53	0.42
	M	70	0.33	24.5	19.6	16.3	12.3	9.8	8.2	6.5	4.9	1.13	0.75	0.56	0.45
	M	80	0.35	26.0	20.8	17.3	13.0	10.4	8.7	6.9	5.2	1.19	0.80	0.60	0.48
	M	90	0.38	28.2	22.6	18.8	14.1	11.3	9.4	7.5	5.6	1.30	0.86	0.65	0.52
	M	100	0.40	29.7	23.8	19.8	14.9	11.9	9.9	7.9	5.9	1.36	0.91	0.68	0.55
03	VC	15	0.18	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.25
	C	20	0.21	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.72	0.48	0.36	0.29
	C	30	0.26	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.89	0.59	0.44	0.35
	C	40	0.30	22.3	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.02	0.68	0.51	0.41
	C	50	0.34	25.2	20.2	16.8	12.6	10.1	8.4	6.7	5.0	1.16	0.77	0.58	0.46
	M	60	0.37	27.5	22.0	18.3	13.7	11.0	9.2	7.3	5.5	1.26	0.84	0.63	0.50
	M	70	0.40	29.7	23.8	19.8	14.9	11.9	9.9	7.9	5.9	1.36	0.91	0.68	0.55
	M	80	0.42	31.2	24.9	20.8	15.6	12.5	10.4	8.3	6.2	1.43	0.95	0.72	0.57
	M	90	0.45	33.4	26.7	22.3	16.7	13.4	11.1	8.9	6.7	1.53	1.02	0.77	0.61
	M	100	0.47	34.9	27.9	23.3	17.4	14.0	11.6	9.3	7.0	1.60	1.07	0.80	0.64
04	VC	15	0.24	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.55	0.41	0.33
	C	20	0.28	20.8	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.64	0.48	0.38
	C	30	0.35	26.0	20.8	17.3	13.0	10.4	8.7	6.9	5.2	1.19	0.80	0.60	0.48
	C	40	0.40	29.7	23.8	19.8	14.9	11.9	9.9	7.9	5.9	1.36	0.91	0.68	0.55
	C	50	0.45	33.4	26.7	22.3	16.7	13.4	11.1	8.9	6.7	1.53	1.02	0.77	0.61
	M	60	0.49	36.4	29.1	24.3	18.2	14.6	12.1	9.7	7.3	1.67	1.11	0.84	0.67
	M	70	0.53	39.4	31.5	26.2	19.7	15.7	13.1	10.5	7.9	1.81	1.20	0.90	0.72
	M	80	0.57	42.3	33.9	28.2	21.2	16.9	14.1	11.3	8.5	1.94	1.30	0.97	0.78
	M	90	0.60	44.6	35.6	29.7	22.3	17.8	14.9	11.9	8.9	2.05	1.36	1.02	0.82
	M	100	0.63	46.8	37.4	31.2	23.4	18.7	15.6	12.5	9.4	2.15	1.43	1.07	0.86
05	VC	15	0.31	23.0	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.06	0.70	0.53	0.42
	C	20	0.35	26.0	20.8	17.3	13.0	10.4	8.7	6.9	5.2	1.19	0.80	0.60	0.48
	C	30	0.43	31.9	25.5	21.3	16.0	12.8	10.6	8.5	6.4	1.47	0.98	0.73	0.59
	C	40	0.50	37.1	29.7	24.8	18.6	14.9	12.4	9.9	7.4	1.71	1.14	0.85	0.68
	M	50	0.56	41.6	33.3	27.7	20.8	16.6	13.9	11.1	8.3	1.91	1.27	0.95	0.76
	M	60	0.61	45.3	36.2	30.2	22.6	18.1	15.1	12.1	9.1	2.08	1.39	1.04	0.83
	M	70	0.66	49.0	39.2	32.7	24.5	19.6	16.3	13.1	9.8	2.25	1.50	1.13	0.90
	M	80	0.71	52.7	42.2	35.1	26.4	21.1	17.6	14.1	10.5	2.42	1.61	1.21	0.97
	M	90	0.75	55.7	44.6	37.1	27.8	22.3	18.6	14.9	11.1	2.56	1.71	1.28	1.02
	M	100	0.79	58.7	46.9	39.1	29.3	23.5	19.6	15.6	11.7	2.69	1.80	1.35	1.08
06	VC	15	0.37	27.5	22.0	18.3	13.7	11.0	9.2	7.3	5.5	1.26	0.84	0.63	0.50
	C	20	0.42	31.2	24.9	20.8	15.6	12.5	10.4	8.3	6.2	1.43	0.95	0.72	0.57
	C	30	0.52	38.6	30.9	25.7	19.3	15.4	12.9	10.3	7.7	1.77	1.18	0.89	0.71
	C	40	0.60	44.6	35.6	29.7	22.3	17.8	14.9	11.9	8.9	2.05	1.36	1.02	0.82
	M	50	0.67	49.7	39.8	33.2	24.9	19.9	16.6	13.3	9.9	2.28	1.52	1.14	0.91
	M	60	0.73	54.2	43.4	36.1	27.1	21.7	18.1	14.5	10.8	2.49	1.66	1.24	1.00
	M	70	0.79	58.7	46.9	39.1	29.3	23.5	19.6	15.6	11.7	2.69	1.80	1.35	1.08
	M	80	0.85	63.1	50.5	42.1	31.6	25.2	21.0	16.8	12.6	2.90	1.93	1.45	1.16
	M	90	0.90	66.8	53.5	44.6	33.4	26.7	22.3	17.8	13.4	3.07	2.05	1.53	1.23
	M	100	0.95	70.5	56.4	47.0	35.3	28.2							

HYPRO GUARDIAN AIR TWIN NOZZLES

Hypro - Guardian Air Twin Tips - 110° Spray Pattern

Guardian AIR Twin™ spray tips are the best choice for high coverage application where on-target spray delivery is important. They are ideal for low crops with complex canopies, such as vegetables, where thorough coverage of the target and protection of the surroundings are of high importance.

- High-coverage forward and rear facing fans help penetrate complex canopies
- Engineered to provide better coverage with more drops per gallon compared to other air-induced sprays
- Easy-to-install, patent-pending locking ring and o-ring seal design
- FastCap® complete includes tip, cap, gasket and integrated strainers



Part#
GAT110-(*)

*Represents number(s) which indicate color

Tip Size	Droplet Size 110°	Pressure (PSI)	Flow Rate (GPM)	Gallons per Acre 20 inch nozzle spacing										GAL/1000 ft ²				
				MPH										20 inch nozzle spacing				
				4	5	6	8	10	12	15	20	2	3	4	5			
02	C	30	0.17	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23			
	M	40	0.20	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27			
	M	50	0.22	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.38	0.30			
	M	60	0.24	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.55	0.41	0.33			
	M	70	0.26	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.89	0.59	0.44	0.35			
	M	80	0.28	20.8	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.64	0.48	0.38			
	M	90	0.30	22.3	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.02	0.68	0.51	0.41			
025	F	100	0.32	23.8	19.0	15.8	11.9	9.5	7.9	6.3	4.8	1.09	0.73	0.55	0.44			
	F	115	0.34	25.2	20.2	16.8	12.6	10.1	8.4	6.7	5.0	1.16	0.77	0.58	0.46			
	VC	30	0.22	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.38	0.30			
	C	40	0.25	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34			
	M	50	0.28	20.8	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.64	0.48	0.38			
	M	60	0.31	23.0	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.06	0.70	0.53	0.42			
	M	70	0.33	24.5	19.6	16.3	12.3	9.8	8.2	6.5	4.9	1.13	0.75	0.56	0.45			
03	M	80	0.35	26.0	20.8	17.3	13.0	10.4	8.7	6.9	5.2	1.19	0.80	0.60	0.48			
	M	90	0.38	28.2	22.6	18.8	14.1	11.3	9.4	7.5	5.6	1.30	0.86	0.65	0.52			
	M	100	0.40	29.7	23.8	19.8	14.9	11.9	9.9	7.9	5.9	1.36	0.91	0.68	0.55			
	M	115	0.42	31.2	24.9	20.8	15.6	12.5	10.4	8.3	6.2	1.43	0.95	0.72	0.57			
	VC	30	0.26	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.89	0.59	0.44	0.35			
	C	40	0.30	22.3	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.02	0.68	0.51	0.41			
	M	50	0.34	25.2	20.2	16.8	12.6	10.1	8.4	6.7	5.0	1.16	0.77	0.58	0.46			
04	M	60	0.37	27.5	22.0	18.3	13.7	11.0	9.2	7.3	5.5	1.26	0.84	0.63	0.50			
	M	70	0.40	29.7	23.8	19.8	14.9	11.9	9.9	7.9	5.9	1.36	0.91	0.68	0.55			
	M	80	0.42	31.2	24.9	20.8	15.6	12.5	10.4	8.3	6.2	1.43	0.95	0.72	0.57			
	M	90	0.45	33.4	26.7	22.3	16.7	13.4	11.1	8.9	6.7	1.53	1.02	0.77	0.61			
	M	100	0.47	34.9	27.9	23.3	17.4	14.0	11.6	9.3	7.0	1.60	1.07	0.80	0.64			
	M	115	0.51	37.9	30.3	25.2	18.9	15.1	12.6	10.1	7.6	1.74	1.16	0.87	0.70			
	VC	30	0.35	26.0	20.8	17.3	13.0	10.4	8.7	6.9	5.2	1.19	0.80	0.60	0.48			
05	M	40	0.40	29.7	23.8	19.8	14.9	11.9	9.9	7.9	5.9	1.36	0.91	0.68	0.55			
	M	50	0.45	33.4	26.7	22.3	16.7	13.4	11.1	8.9	6.7	1.53	1.02	0.77	0.61			
	M	60	0.49	36.4	29.1	24.3	18.2	14.6	12.1	9.7	7.3	1.67	1.11	0.84	0.67			
	M	70	0.53	39.4	31.5	26.2	19.7	15.7	13.1	10.5	7.9	1.81	1.20	0.90	0.72			
	M	80	0.57	42.3	33.9	28.2	21.2	16.9	14.1	11.3	8.5	1.94	1.30	0.97	0.78			
	M	90	0.60	44.6	35.6	29.7	22.3	17.8	14.9	11.9	8.9	2.05	1.36	1.02	0.82			
	M	100	0.63	46.8	37.4	31.2	23.4	18.7	15.6	12.5	9.4	2.15	1.43	1.07	0.86			
06	M	115	0.68	50.5	40.4	33.7	25.2	20.2	16.8	13.5	10.1	2.32	1.55	1.16	0.93			
	VC	30	0.43	31.9	25.5	21.3	16.0	12.8	10.6	8.5	6.4	1.47	0.98	0.73	0.59			
	C	40	0.50	37.1	29.7	24.8	18.6	14.9	12.4	9.9	7.4	1.71	1.14	0.85	0.68			
	M	50	0.56	41.6	33.3	27.7	20.8	16.6	13.9	11.1	8.3	1.91	1.27	0.95	0.76			
	M	60	0.61	45.3	36.2	30.2	22.6	18.1	15.1	12.1	9.1	2.08	1.39	1.04	0.83			
	M	70	0.66	49.0	39.2	32.7	24.5	19.6	16.3	13.1	9.8	2.25	1.50	1.13	0.90			
	M	80	0.71	52.7	42.2	35.1	26.4	21.1	17.6	14.1	10.5	2.42	1.61	1.21	0.97			
08	M	90	0.75	55.7	44.6	37.1	27.8	22.3	18.6	14.9	11.1	2.56	1.71	1.28	1.02			
	M	100	0.79	58.7	46.9	39.1	29.3	23.5	19.6	15.6	11.7	2.69	1.80	1.35	1.08			
	M	115	0.85	63.1	50.5	42.1	31.6	25.2	21.0	16.8	12.6	2.90	1.93	1.45	1.16			
	VC	30	0.52	38.6	30.9	25.7	19.3	15.4	12.9	10.3	7.7	1.77	1.18	0.89	0.71			
	C	40	0.60	44.6	35.6	29.7	22.3	17.8	14.9	11.9	8.9	2.05	1.36	1.02	0.82			
	M	50	0.67	49.7	39.8	33.2	24.9	19.9	16.6	13.3	9.9	2.28	1.52	1.14	0.91			
	M	60	0.73	54.2	43.4	36.1	27.1	21.7	18.1	14.5	10.8	2.49	1.66	1.24	1.00			
08	M	70	0.79	58.7	46.9	39.1	29.3	23.5	19.6	15.6	11.7	2.69	1.80	1.35	1.08			
	M	80	0.85	63.1	50.5	42.1	31.6	25.2	21.0	16.8	12.6	2.90	1.93	1.45	1.16			
	M	90	0.90	66.8	53.5	44.6	33.4	26.7	22.3	17.8	13.4	3.07	2.05	1.53	1.23			
	M	100	0.95	70.5	56.4	47.0	35.3	28.2	23.5	18.8	14.1	3.24	2.16	1.62	1.30			
	M	115	1.02	75.7	60.6	50.5	37.9	30.3	25.2	20.2	15.1	3.48	2.32	1.74	1.39			
	VC	30	0.69	51.2	41.0	34.2	25.6	20.5	17.1	13.7	10.2	2.35	1.57	1.18	0.94			
	C	40	0.80	59.4	47.5	39.6	29.7	23.8	19.8	15.8	11.9	2.73	1.82	1.36	1.09			
08	M	50	0.89	66.1	52.9	44.1	33.0	26.4	22.0	17.6	13.2	3.03	2.02	1.52	1.21			
	M	60	0.98	72.8	58.2	48.5	36.4	29.1	24.3	19.4	14.6	3.34	2.23	1.67	1.34			
	M	70	1.06	78.7	63.0	52.5	39.4	31.5	26.2	21.0	15.7	3.61	2.41	1.81	1.45			
	M	80	1.13	83.9	67.1	55.9	42.0	33.6	28.0	22.4	16.8	3.85	2.57	1.93	1.54			
	M	90	1.20	89.1	71.3	59.4	44.6	35.6	29.7	23.8	17.8	4.09	2.73	2.05	1.64			
	M	100	1.26	93.6	74.8	62.4	46.8	37.4	31.2	24.9	18.7	4.30	2.86	2.15	1.72			
	M	115	1.36	101	80.8	67.3	50.5	40.4	33.7	26.9	20.2	4.64	3.09	2.32	1.86			

Features	
Common Use	Plant Health
Pattern	Tapered Flat Fan
Technology	Air Eduction
Material	Polycetal
Spray Angle	110°
Pressure Range	30-115 PSI
Configuration	FastCap Complete
Application Selection Guide	
Foliar Contact	Excellent
Foliar Systemic	Excellent
Soil Applied	-
Drift Control	Very Good
Part Numbers	
FastCaps 110°	
GAT110-02	
GAT110-025	
GAT110-03	
GAT110-04	
GAT110-05	
GAT110-06	
GAT110-08	
Replacement Tip Strainer	
TS02-50	50 mesh strainer for all sizes



Hypro - Hi-Flow 140°

This tip series is the best way to outfit a sprayer to achieve wide angle coverage plus drift control.

- Ideal for pre-emerge application of fertilizers
- Excellent for high volume coverage or high speed applications
- 140° pattern ensures unmatched uniformity across the spray boom and throughout the entire pressure range (20-80 psi)
- Wide spray angle allows for lower spray height to reduce drift or wide nozzle spacing to match existing equipment
- Droplets under 100 microns are controlled to minimize fertilizer burn or pre-emerge drift



Part#
HF140-(*)

*Represents number(s) which indicate color

Tip Size	Droplet Size	Pressure (PSI)	Flow Rate (GPM)	Gallons per Acre 20 inch nozzle spacing								GAL/1000ft ²			
				MPH								20 inch nozzle spacing			
				4	5	6	8	10	12	15	20	2	3	4	5
08	UC	20	0.57	42.3	33.9	28.2	21.2	16.9	14.1	11.3	8.5	1.94	1.30	0.97	0.78
	UC	30	0.69	51.2	41.0	34.2	25.6	20.5	17.1	13.7	10.2	2.35	1.57	1.18	0.94
	UC	40	0.80	59.4	47.5	39.6	29.7	23.8	19.8	15.8	11.9	2.73	1.82	1.36	1.09
	UC	50	0.89	66.1	52.9	44.1	33.0	26.4	22.0	17.6	13.2	3.03	2.02	1.52	1.21
	XC	60	0.98	72.8	58.2	48.5	36.4	29.1	24.3	19.4	14.6	3.34	2.23	1.67	1.34
	XC	70	1.06	78.7	63.0	52.5	39.4	31.5	26.2	21.0	15.7	3.61	2.41	1.81	1.45
	XC	80	1.13	83.9	67.1	55.9	42.0	33.6	28.0	22.4	16.8	3.85	2.57	1.93	1.54
	10	UC	20	0.71	52.7	42.2	35.1	26.4	21.1	17.6	14.1	10.5	2.42	1.61	1.21
UC		30	0.87	64.6	51.7	43.1	32.3	25.8	21.5	17.2	12.9	2.97	1.98	1.48	1.19
UC		40	1.00	74.3	59.4	49.5	37.1	29.7	24.8	19.8	14.9	3.41	2.27	1.71	1.36
UC		50	1.12	83.2	66.5	55.4	41.6	33.3	27.7	22.2	16.6	3.82	2.55	1.91	1.53
XC		60	1.22	90.6	72.5	60.4	45.3	36.2	30.2	24.2	18.1	4.16	2.77	2.08	1.66
XC		70	1.32	98.0	78.4	65.3	49.0	39.2	32.7	26.1	19.6	4.50	3.00	2.25	1.80
XC		80	1.41	105	83.8	69.8	52.3	41.9	34.9	27.9	20.9	4.81	3.21	2.40	1.92
15		UC	20	1.06	78.7	63.0	52.5	39.4	31.5	26.2	21.0	15.7	3.61	2.41	1.81
	UC	30	1.30	96.5	77.2	64.4	48.3	38.6	32.2	25.7	19.3	4.43	2.96	2.22	1.77
	UC	40	1.50	111	89.1	74.3	55.7	44.6	37.1	29.7	22.3	5.12	3.41	2.56	2.05
	UC	50	1.68	125	99.8	83.2	62.4	49.9	41.6	33.3	24.9	5.73	3.82	2.86	2.29
	XC	60	1.84	137	109	91.1	68.3	54.6	45.5	36.4	27.3	6.27	4.18	3.14	2.51
	XC	70	1.98	147	118	98.0	73.5	58.8	49.0	39.2	29.4	6.75	4.50	3.38	2.70
	XC	80	2.12	157	126	105	78.7	63.0	52.5	42.0	31.5	7.23	4.82	3.61	2.89
	20	UC	20	1.41	105	83.8	69.8	52.3	41.9	34.9	27.9	20.9	4.81	3.21	2.40
UC		30	1.73	128	103	85.6	64.2	51.4	42.8	34.3	25.7	5.90	3.93	2.95	2.36
UC		40	2.00	149	119	99.0	74.3	59.4	49.5	39.6	29.7	6.82	4.55	3.41	2.73
UC		50	2.24	166	133	111	83.2	66.5	55.4	44.4	33.3	7.64	5.09	3.82	3.06
XC		60	2.45	182	146	121	91.0	72.8	60.6	48.5	36.4	8.35	5.57	4.18	3.34
XC		70	2.65	197	157	131	98.4	78.7	65.6	52.5	39.4	9.04	6.02	4.52	3.61
XC		80	2.83	210	168	140	105	84.1	70.0	56.0	42.0	9.65	6.43	4.83	3.86
30		UC	20	2.12	157	126	105	78.7	63.0	52.5	42.0	31.5	7.23	4.82	3.61
	UC	30	2.60	193	154	129	96.5	77.2	64.4	51.5	38.6	8.87	5.91	4.43	3.55
	UC	40	3.00	223	178	149	111	89.1	74.3	59.4	44.6	10.2	6.82	5.12	4.09
	UC	50	3.35	249	199	166	124	99.5	82.9	66.3	49.7	11.4	7.62	5.71	4.57
	XC	60	3.67	272	218	182	136	109	90.8	72.7	54.5	12.5	8.34	6.26	5.01
	XC	70	3.97	295	236	197	147	118	98.3	78.6	59.0	13.5	9.03	6.77	5.42
	XC	80	4.24	315	252	210	157	126	105	84.0	63.0	14.5	9.64	7.23	5.78
	40	UC	20	2.83	210	168	140	105	84.1	70.0	56.0	42.0	9.65	6.43	4.83
UC		30	3.46	257	206	171	128	103	85.6	68.5	51.4	11.8	7.87	5.90	4.72
UC		40	4.00	297	238	198	149	119	99.0	79.2	59.4	13.6	9.09	6.82	5.46
UC		50	4.47	332	266	221	166	133	111	88.5	66.4	15.2	10.2	7.62	6.10
XC		60	4.90	364	291	243	182	146	121	97.0	72.8	16.7	11.1	8.35	6.68
XC		70	5.29	393	314	262	196	157	131	105	78.6	18.0	12.0	9.02	7.22
XC		80	5.66	420	336	280	210	168	140	112	84.1	19.3	12.9	9.65	7.72
50		UC	20	3.54	263	210	175	131	105	87.6	70.1	52.6	12.1	8.05	6.04
	UC	30	4.33	322	257	214	161	129	107	85.7	64.3	14.8	9.84	7.38	5.91
	UC	40	5.00	371	297	248	186	149	124	99.0	74.3	17.1	11.4	8.53	6.82
	UC	50	5.59	415	332	277	208	166	138	111	83.0	19.1	12.7	9.53	7.62
	XC	60	6.12	454	364	303	227	182	151	121	90.9	20.9	13.9	10.4	8.35
	XC	70	6.61	491	393	327	245	196	164	131	98.2	22.5	15.0	11.3	9.02
	XC	80	7.07	525	420	350	262	210	175	140	105	24.1	16.1	12.1	9.64
	60	UC	20	4.24	315	252	210	157	126	105	84.0	63.0	14.5	9.64	7.23
UC		30	5.20	386	309	257	193	154	129	103	77.2	17.7	11.8	8.87	7.09
UC		40	6.00	446	356	297	223	178	149	119	89.1	20.5	13.6	10.2	8.18
UC		50	6.71	498	399	332	249	199	166	133	99.6	22.9	15.3	11.4	9.15
XC		60	7.35	546	437	364	273	218	182	146	109	25.1	16.7	12.5	10.0
XC		70	7.94	590	472	393	295	236	197	157	118	27.1	18.1	13.5	10.8
XC		80	8.49	630	504	420	315	252	210	168	126	29.0	19.3	14.5	11.6



HYPRO STREAM SPRAY TIPS

Hypro - ESI Six Stream Ceramic Tip

The Albus® ESI six stream tip is ideal for applying fertilizer into solid seeded crops. It creates six individual streams that distribute the fertilizer on the soil while getting less on the crop. The ceramic metering orifice and unique low pressure distribution chamber keep the streams stable to reduce atomization and prevent leaf burn and scorching. Spacing and spray height is similar to 110° broadcast tips.



Part#

FC-ESI110-(*)

*Represents number(s) which indicate color

Tip Size	Pressure (PSI)	Flow Rate (GPM)	Gallons per Acre 20 inch nozzle spacing								GAL/1000'				
			MPH								20 inch nozzle spacing				
			4	5	6	8	10	12	15	20	2	3	4	5	
015	15	0.09	6.7	5.3	4.5	3.3	2.7	2.2	1.8	1.3	0.31	0.20	0.15	0.12	
	20	0.11	8.2	6.5	5.4	4.1	3.3	2.7	2.2	1.6	0.38	0.25	0.19	0.15	
	30	0.13	9.7	7.7	6.4	4.8	3.9	3.2	2.6	1.9	0.44	0.30	0.22	0.18	
	40	0.15	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20	
	50	0.17	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23	
60	0.18	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.25		
02	15	0.12	8.9	7.1	5.9	4.5	3.6	3.0	2.4	1.8	0.41	0.27	0.20	0.16	
	20	0.14	10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1	0.48	0.32	0.24	0.19	
	30	0.17	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23	
	40	0.20	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27	
	50	0.22	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.38	0.30	
60	0.24	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.55	0.41	0.33		
025	15	0.15	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20	
	20	0.18	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.25	
	30	0.22	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.38	0.30	
	40	0.25	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34	
	50	0.28	20.8	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.64	0.48	0.38	
60	0.31	23.0	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.06	0.70	0.53	0.42		
03	15	0.18	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.25	
	20	0.21	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.72	0.48	0.36	0.29	
	30	0.26	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.89	0.59	0.44	0.35	
	40	0.30	22.3	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.02	0.68	0.51	0.41	
	50	0.34	25.2	20.2	16.8	12.6	10.1	8.4	6.7	5.0	1.16	0.77	0.58	0.46	
60	0.37	27.5	22.0	18.3	13.7	11.0	9.2	7.3	5.5	1.26	0.84	0.63	0.50		
04	15	0.24	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.55	0.41	0.33	
	20	0.28	20.8	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.64	0.48	0.38	
	30	0.35	26.0	20.8	17.3	13.0	10.4	8.7	6.9	5.2	1.19	0.80	0.60	0.48	
	40	0.40	29.7	23.8	19.8	14.9	11.9	9.9	7.9	5.9	1.36	0.91	0.68	0.55	
	50	0.45	33.4	26.7	22.3	16.7	13.4	11.1	8.9	6.7	1.53	1.02	0.77	0.61	
60	0.49	36.4	29.1	24.3	18.2	14.6	12.1	9.7	7.3	1.67	1.11	0.84	0.67		
05	15	0.31	23.0	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.06	0.70	0.53	0.42	
	20	0.35	26.0	20.8	17.3	13.0	10.4	8.7	6.9	5.2	1.19	0.80	0.60	0.48	
	30	0.43	31.9	25.5	21.3	16.0	12.8	10.6	8.5	6.4	1.47	0.98	0.73	0.59	
	40	0.50	37.1	29.7	24.8	18.6	14.9	12.4	9.9	7.4	1.71	1.14	0.85	0.68	
	50	0.56	41.6	33.3	27.7	20.8	16.6	13.9	11.1	8.3	1.91	1.27	0.95	0.75	
60	0.61	45.3	36.2	30.2	22.6	18.1	15.1	12.1	9.1	2.08	1.39	1.04	0.83		
06	15	0.37	27.5	22.0	18.3	13.7	11.0	9.2	7.3	5.5	1.26	0.84	0.63	0.50	
	20	0.42	31.2	24.9	20.8	15.6	12.5	10.4	8.3	6.2	1.43	0.95	0.72	0.57	
	30	0.52	38.6	30.9	25.7	19.3	15.4	12.9	10.3	7.7	1.77	1.18	0.89	0.71	
	40	0.60	44.6	35.6	29.7	22.3	17.8	14.9	11.9	8.9	2.06	1.36	1.02	0.82	
	50	0.67	49.7	39.8	33.2	24.9	19.9	16.6	13.3	9.9	2.28	1.52	1.14	0.91	
60	0.73	54.2	43.4	36.1	27.1	21.7	18.1	14.5	10.8	2.49	1.66	1.24	1.00		
08	15	0.49	36.4	29.1	24.3	18.2	14.6	12.1	9.7	7.3	1.67	1.11	0.84	0.67	
	20	0.57	42.3	33.9	28.2	21.2	16.9	14.1	11.3	8.5	1.94	1.30	0.97	0.78	
	30	0.69	51.2	41.0	34.2	25.6	20.5	17.1	13.7	10.2	2.35	1.57	1.18	0.94	
	40	0.80	59.4	47.5	39.6	29.7	23.8	19.8	15.8	11.9	2.73	1.82	1.36	1.09	
	50	0.89	66.1	52.9	44.1	33.0	26.4	22.0	17.6	13.2	3.03	2.02	1.52	1.21	
60	0.98	72.8	58.2	48.5	36.4	29.1	24.3	19.4	14.6	3.34	2.23	1.67	1.34		
10	15	0.61	45.3	36.2	30.2	22.6	18.1	15.1	12.1	9.1	2.08	1.39	1.04	0.83	
	20	0.71	52.7	42.2	35.1	26.4	21.1	17.6	14.1	10.5	2.42	1.61	1.21	0.97	
	30	0.87	64.6	51.7	43.1	32.3	25.8	21.5	17.2	12.9	2.97	1.98	1.48	1.19	
	40	1.00	74.3	59.4	49.5	37.1	29.7	24.8	19.8	14.9	3.41	2.27	1.71	1.36	
	50	1.12	83.2	66.5	55.4	41.6	33.3	27.7	22.2	16.6	3.82	2.55	1.91	1.53	
60	1.22	90.6	72.5	60.4	45.3	36.2	30.2	24.2	18.1	4.16	2.77	2.08	1.66		
15	15	0.92	68.3	54.6	45.5	34.2	27.3	22.8	18.2	13.7	3.14	2.09	1.57	1.25	
	20	1.06	78.7	63.0	52.5	39.4	31.5	26.2	21.0	15.7	3.61	2.41	1.81	1.45	
	30	1.30	96.5	77.2	64.4	48.3	38.6	32.2	25.7	19.3	4.43	2.96	2.22	1.77	
	40	1.50	111	89.1	74.3	55.7	44.6	37.1	29.7	22.3	5.12	3.41	2.56	2.05	
	50	1.68	125	99.8	83.2	62.4	49.9	41.6	33.3	24.9	5.73	3.82	2.86	2.29	
60	1.84	137	109	91.1	68.3	54.6	45.5	36.4	27.3	6.27	4.18	3.14	2.51		
20	15	1.22	90.6	72.5	60.4	45.3	36.2	30.2	24.2	18.1	4.16	2.77	2.08	1.66	
	20	1.41	105	83.8	69.8	52.3	41.9	34.9	27.9	20.9	4.81	3.21	2.40	1.92	
	30	1.73	128	103	85.6	64.2	51.4	42.8	34.3	25.7	5.90	3.93	2.95	2.36	
	40	2.00	149	119	99.0	74.3	59.4	49.5	39.6	29.7	6.82	4.55	3.41	2.73	
	50	2.24	166	133	111	83.2	66.5	55.4	44.4	33.3	7.64	5.09	3.82	3.06	
60	2.45	182	146	121	91.0	72.8	60.6	48.5	36.4	8.35	5.57	4.18	3.34		

Features	
Common Use	Fertilizer
Pattern	Streams
Technology	Pre-Orifice
Material	Ceramic
Spray Angle	110° Equivalent
Pressure Range	15-60 PSI
Configuration	Tip, FastCap
Application Selection Guide	
Foliar Contact	-
Foliar Systemic	-
Soil Applied	Excellent
Drift Control	Excellent
Part Numbers	
Tips 110°	FastCaps 110°
ESI-110015	FC-ESI-110015
ESI-11002	FC-ESI-11002
ESI-110025	FC-ESI-110025
ESI-11003	FC-ESI-11003
ESI-11004	FC-ESI-11004
ESI-11005	FC-ESI-11005
ESI-11006	FC-ESI-11006
-	FC-ESI-11008
-	FC-ESI-11010
-	FC-ESI-11015
-	FC-ESI-11020P
Replacement Cap Gasket	
22W11MF64	Flat seal (sizes 015-06)
65-BS205	O-ring (sizes 08-15)



Hypro's SPRAY IT App

Get the right spray nozzle by chemical brand, then size it for your application.

1. Select Nozzle by Chemical or Application
2. Choose Chemical Company & Chemical Name
3. The Recommended Nozzle is Shown on the Results Screen



CP-65-TS Turbo Combo Nozzle

The CP-65-TS Turbo Combo Nozzle assembly with quick disconnect. You can adjust droplet size and rates with this easy to use nozzle. You can select rates equivalent to flat fan sizes from 3 to 10 with a flood style nozzle. For an operating range from 25 to 60 PSI, the nozzle provides flow rates from 0.17 to 1.35 gallons per minute. A wide selectable range in droplet size allows flexibility to select droplet sizes to minimize spray drift near sensitive areas, yet allows selection of droplet sizes for coverage sensitive crop production products.

30" Spacing - Gallons Per Acre

Orifice	PSI	Nozzle GPM	6MPH	8MPH	10MPH	12MPH	14MPH	16MPH	18MPH
#3	30	.26	8.6	6.4	5.1	4.3	3.7	3.2	2.9
	40	.3	9.9	7.4	5.9	5.0	4.2	3.7	3.3
	50	.34	11.1	8.3	6.6	5.5	4.7	4.2	3.7
#4	30	.35	11.6	8.7	6.9	5.8	5.0	4.3	3.9
	40	.4	13.2	9.9	7.9	6.6	5.7	5.0	4.4
	50	.45	14.9	11.1	8.9	7.4	6.4	5.6	5.0
#5	30	.43	14.3	10.7	8.6	7.1	6.1	5.4	4.8
	40	.5	16.5	12.4	9.9	8.3	7.1	6.2	5.5
	50	.56	18.5	13.8	11.1	9.2	7.9	6.9	6.2
#6	30	.52	17.2	12.9	10.3	8.6	7.4	6.4	5.7
	40	.6	19.8	14.9	11.9	9.9	8.5	7.4	6.6
	50	.67	22.1	16.6	13.3	11.1	9.5	8.3	7.4
#8	30	.69	22.9	17.2	13.7	11.4	9.8	8.6	7.6
	40	.8	26.4	19.8	15.8	13.2	11.3	9.9	8.8
	50	.89	29.5	22.1	17.7	14.8	12.7	11.1	9.8
#10	30	.87	28.6	21.4	17.2	14.3	12.3	10.7	9.5
	40	1	33.0	24.8	19.8	16.5	14.1	12.4	11.0
	50	1.12	36.9	27.7	22.1	18.5	15.8	13.8	12.3



Part#
CP65TS

CP Quick Coupling Elbow Cam Lock These handy couplings let you change your nozzle angle.

Part#	Description
CP81C	45° Cam Lock El
CP81P	45° Elbow ¾" NPT
CP81-P1	45° Elbow 1" NPT

Part#	Description
CP80C	90° Cam Lock El
CP80P	90° Elbow ¾" NPT
CP80-P1	90° Elbow 1" NPT

CP® Floater TURBO

CP Turbo Nozzles for floater or sprayers generate consistent large droplets with few driftable fines through a wide range of pressures. They are available in both low and regular volume versions for floaters and with six orifices for sprayers. They are also available in the CP Floater Combo in both volumes.

Part#	Type
CP59LS	Low Volume
CP59HV	High Volume



CP® TURBO Combo

CP Combos incorporate selectable nozzles and check valves in one unit and combine with three way, turbo or carousel nozzles.

Part#	Type
CP109LS	Low
CP109HV	High



Poly Filter Screen for Cam Locks

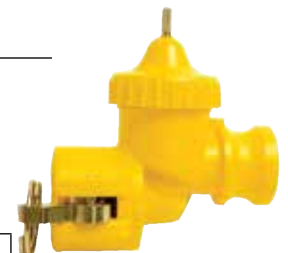
Part#	Description
CP-49	50 Mesh Screen



Floater Check Valves

Tired of leaking checks? Try these!

Part#	Description
CP110P	¾" NPT Floater Check Valve
CP110C	10C Cam Lock Check Valve





COMBO-JET® DRIFT REDUCTION SPRAY TIPS & ACCESSORIES

U.S. Patent No. 10,603,681

FINER SPRAY **5 Series of Spray Tips for a Sliding Scale of Droplet Size** **BEST DRIFT REDUCTION**

The preferred spray tips for PWM spray systems

The Combo-Jet® Spray Tip Advantage

Less plugging, as the path of flow always gets larger

40% longer strainer that snaps & seals into place

SR / MR / DR / UR 50% 75% 90% 90%+ Drift Reduction Series

Cap color always matches flow rate

Super long-lasting stainless steel spray tip

The most versatile spray tips for Pulse Width Modulation Systems (e.g. Capstan Pinpoint®, EVO®, Case AIM Command®, John Deere ExactApply®, IntelliSpray®, Raven Hawkeye®, & more)

Spray tip & cap are held together as one piece

Easy-to-read label (MR110-06 = MR Series, 110° tip, 0.6 US GPM flow rate)

Best educational spray tip charts to select the best spray tips

Combo-Jet tips use a modern pre-orifice & closed chamber design that produces significantly less drift, creating solid mass droplets, for maximum spray velocity and more meaningful spray.

Easy & thorough spray tip cleaning

SR, MR, DR & UR Series

To clean stainless tip Pull strainer (with pre-orifice) up and out

To clean plastic pre-orifice Push strainer sideways to release from pre-orifice

ER Series Push strainer sideways to remove

To use/replace strainer Push strainer down to snap in strainer

Without needing consistent air induction for drift reduction, Combo-Jet spray tips are the preferred tip for Pulse Width Modulation (PWM) spraying systems.

COMBO-JET® ER, SR, MR, DR, & UR Spray Tips - What is the difference?

The sliding scale of droplet size means at any flow rate, you have multiple options to match your desired spray.

FINER SPRAY **5 Series of Spray Tips for a Sliding Scale of Droplet Size** **NEW** **BEST DRIFT REDUCTION**

Comparison Criteria	ER Series Extended Range	SR Series Small Reduction	MR Series Mid-Range Reduction	DR Series Drift Reduction	UR Series Drift Reduction
Spray Tip Design	Conventional Flat Fan	Pre-orifice Drift Reduction	Pre-orifice Drift Reduction	Pre-orifice Drift Reduction	Dual Chamber Drift Red.
Spray Quality @40PSI	Medium	Coarse	Extremely Coarse	Extremely Coarse	Ultra-Coarse
Droplet Size ¹ @40PSI	Smallest (246µ VMD ¹)	Medium (371µ VMD ¹)	Large (474µ VMD ¹)	Very Large (529µ VMD ¹)	Ultra Coarse
% <141µ ² % <600µ ³	20% of volume < 141µ 94% of volume <600µ	8% of volume < 141µ 89% of volume <600µ	4% of volume < 141µ 74% of volume <600µ	2% of volume < 141µ 64% of volume <600µ	UR spray tips are specialty spray tips, designed for certain chemical applications that require exceptional drift reduction. They are not to be replaced with other spray tip series that are not approved to be on the chemical label. Always follow up-to-date label information. Refer to chemical application label for maximum pressures, speeds and application information.
Drift Potential	Most likely to drift	Lower drift potential	Major reduction in drift	Very low drift potential	
Coverage	Best	Excellent	Very good	Good	

¹Based on an XX110-06 nozzle @ 40 psi (2.75 BAR)
²Droplets smaller than 141µ are more likely to drift. 141µ is used as a standard for estimating driftable fines.
³Droplets smaller than 600µ provide better coverage. Droplets > 600µ consume more spray volume, reducing overall coverage.

More information available at www.wilger.net

Combo-Jet® 80° Spray Tips

For full-detailed application information, visit www.wilger.net.
 Premium viton options available: change part# to XXXX-VXXX
 e.g. [Standard] 40280-015 // [viton] 40280-V015. See note* for viton upcharge.

Disclaimer: These charts are published for comparative purposes to demonstrate the differences in the series of Combo-Jet® spray tips. Data used to populate this chart is extrapolated from third party testing data from a controlled conditions test with water as the testing solution. Actual spray applications with active chemical ingredients may change the spray dynamics and spray tip performance specifications. Wilger is not liable for any misuse or misrepresentation of this information, leading to (but not limited to) incorrect spray application, crop damage, or any other harm. (Not limited to human, livestock or environmental). Always verify these charts with the most recent charts found on the www.wilger.net, and ALWAYS follow chemical label nozzle requirements.

SPRAY TIPS & NOZZLES

Tip Cap Size	Flow Rate USGPM	PSI	Application Rate - US Gallons/Acre @ 20"							Spray Classification, VMD (in µ); %<141µ (% Driftable Fines); %<600µ (% of Small Droplets)								Spray Tip, Part #					
			Sprayer Speed - Miles/Hour							ER 80° Series		SR 80° Series		MR 80° Series		DR 80° Series		Description	Part #				
			5	7.5	10	12.5	15	17.5	20	Cat	VMD <141 <600	Cat	VMD <141 <600	Cat	VMD <141 <600	Cat	VMD <141 <600						
005	0.043	30	2.6	1.7	1.3				F 149	41%	100%			M 236	17%	100%	C 276	11%	100%	ER80-005	40270-005		
	0.050	40	3.0	2.0	1.5				F 137	55%	100%			F 201	26%	100%	M 230	19%	100%	-	-		
	0.056	50	3.3	2.2	1.7				F 128	63%	100%			F 178	33%	100%	F 200	25%	100%	MR80-005	40290-005		
	0.061	60	3.6	2.4	1.8				F 121	68%	100%			F 161	39%	100%	F 178	31%	100%	DR80-005	40280-005		
0067	0.058	30	3.4	2.3	1.7				F 180	35%	100%			F 211	24%	100%	C 308	9%	100%	ER80-067	40270-007		
	0.067	40	4.0	2.6	2.0				F 153	45%	100%			F 182	33%	100%	M 267	13%	100%	-	-		
	0.075	50	4.4	3.0	2.2				F 141	52%	100%			F 162	40%	100%	M 239	17%	100%	MR80-067	40290-007		
	0.082	60	4.9	3.2	2.4				F 131	58%	100%			F 148	46%	100%	M 218	20%	100%	DR80-067	40280-007		
01	0.09	30	5.1	3.4	2.6	2.1	1.7	1.5	1.3	F 156	41%	100%	M 233	21%	97%	M 218	23%	97%	C 312	10%	94%	ER80-01	40270-01
	0.10	40	5.9	4.0	3.0	2.4	2.0	1.7	1.5	F 143	49%	100%	F 199	29%	97%	F 191	30%	97%	C 274	14%	96%	SR80-01	40288-01
	0.11	50	6.6	4.4	3.3	2.7	2.2	1.9	1.7	F 134	56%	100%	F 176	36%	98%	F 173	36%	97%	M 248	17%	98%	MR80-01	40290-01
	0.12	60	7.3	4.8	3.6	2.9	2.4	2.1	1.8	F 128	62%	100%	F 159	41%	98%	F 159	40%	97%	M 229	19%	99%	DR80-01	40280-01
015	0.13	30	7.7	5.1	3.9	3.1	2.6	2.2	1.9	F 180	29%	100%	M 262	16%	95%	C 323	10%	94%	VC 418	4%	87%	ER80-015	40270-015
	0.15	40	8.9	5.9	4.5	3.6	3.0	2.5	2.2	F 167	34%	100%	M 230	22%	96%	C 283	14%	96%	C 380	6%	90%	SR80-015	40288-015
	0.17	50	10.0	6.6	5.0	4.0	3.3	2.8	2.5	F 158	39%	100%	F 207	26%	97%	M 256	17%	97%	C 353	7%	92%	MR80-015	40290-015
	0.18	60	10.9	7.3	5.5	4.4	3.6	3.1	2.7	F 151	42%	100%	F 191	30%	97%	M 236	20%	98%	C 332	8%	94%	DR80-015	40280-015
02	0.17	30	10.3	6.9	5.1	4.1	3.4	2.9	2.6	F 170	34%	100%	M 257	16%	95%	C 326	8%	94%	XC 454	3%	80%	ER80-02	40270-02
	0.20	40	11.9	7.9	5.9	4.8	4.0	3.4	3.0	F 161	38%	100%	M 233	20%	96%	C 298	11%	94%	VC 419	4%	84%	SR80-02	40288-02
	0.22	50	13.3	8.9	6.6	5.3	4.4	3.8	3.3	F 155	42%	100%	M 216	24%	97%	C 277	14%	95%	VC 394	5%	87%	MR80-02	40290-02
	0.24	60	14.5	9.7	7.3	5.8	4.8	4.2	3.6	F 150	45%	100%	F 203	27%	98%	M 262	16%	95%	C 375	6%	88%	DR80-02	40280-02
025	0.22	30	12.9	8.6	6.4	5.1	4.3	3.7	3.2	F 209	23%	100%	C 296	11%	93%	VC 425	5%	81%	XC 460	3%	77%	ER80-025	40270-025
	0.25	40	14.9	9.9	7.4	5.9	5.0	4.2	3.7	F 194	28%	100%	C 268	15%	94%	C 382	6%	85%	VC 430	4%	81%	SR80-025	40288-025
	0.28	50	16.6	11.1	8.3	6.6	5.5	4.7	4.2	F 182	31%	100%	M 248	18%	95%	C 353	8%	87%	VC 408	5%	83%	MR80-025	40290-025
	0.31	60	18.2	12.1	9.1	7.3	6.1	5.2	4.5	F 174	34%	100%	M 233	20%	96%	C 330	9%	89%	C 391	6%	85%	DR80-025	40280-025
03	0.26	30	15.4	10.3	7.7	6.2	5.1	4.4	3.9	F 228	23%	99%	C 344	9%	89%	VC 432	5%	81%	XC 481	3%	72%	ER80-03	40270-03
	0.30	40	17.8	11.9	8.9	7.1	5.9	5.1	4.5	F 215	26%	99%	C 309	12%	91%	C 390	7%	85%	VC 447	4%	77%	SR80-03	40288-03
	0.34	50	19.9	13.3	10.0	8.0	6.6	5.7	5.0	F 205	29%	99%	C 285	15%	92%	C 360	8%	88%	VC 422	5%	80%	MR80-03	40290-03
	0.37	60	21.8	14.5	10.9	8.7	7.3	6.2	5.5	F 197	32%	99%	M 266	17%	93%	C 337	9%	89%	C 403	6%	83%	DR80-03	40280-03
04	0.35	30	20.6	13.7	10.3	8.2	6.9	5.9	5.1	M 230	21%	99%	C 344	7%	87%	VC 420	5%	80%	XC 543	2%	62%	ER80-04	40270-04
	0.40	40	23.8	15.8	11.9	9.5	7.9	6.8	5.9	M 216	24%	99%	C 310	10%	89%	C 385	7%	84%	XC 507	3%	68%	SR80-04	40288-04
	0.45	50	26.6	17.7	13.3	10.6	8.9	7.6	6.6	F 206	26%	99%	C 286	12%	91%	C 360	9%	86%	XC 480	4%	72%	MR80-04	40290-04
	0.49	60	29.1	19.4	14.5	11.6	9.7	8.3	7.3	F 198	28%	99%	M 267	14%	92%	C 341	10%	88%	XC 460	4%	75%	DR80-04	40280-04
05	0.43	30	25.7	17.1	12.9	10.3	8.6	7.3	6.4	M 267	16%	95%	C 381	7%	83%	XC 504	3%	68%	XC 574	2%	56%	ER80-05	40270-05
	0.50	40	29.7	19.8	14.9	11.9	9.9	8.5	7.4	M 248	20%	95%	C 342	10%	86%	VC 466	4%	73%	XC 538	2%	62%	SR80-05	40288-05
	0.56	50	33.2	22.1	16.6	13.3	11.1	9.5	8.3	M 235	22%	95%	C 314	12%	87%	VC 438	5%	77%	XC 512	3%	67%	MR80-05	40290-05
	0.61	60	36.4	24.2	18.2	14.5	12.1	10.4	9.1	M 224	25%	95%	C 293	14%	89%	VC 417	6%	79%	XC 492	3%	70%	DR80-05	40280-05
06	0.52	30	30.9	20.6	15.4	12.3	10.3	8.8	7.7	C 296	17%	91%	VC 420	5%	81%	XC 526	2%	64%	XC 596	1%	51%	ER80-06	40270-06
	0.60	40	35.6	23.8	17.8	14.3	11.9	10.2	8.9	C 279	20%	91%	C 390	7%	84%	XC 492	3%	70%	XC 564	2%	57%	SR80-06	40288-06
	0.67	50	39.8	26.6	19.9	15.9	13.3	11.4	10.0	C 267	22%	90%	C 368	8%	86%	VC 468	4%	73%	XC 540	2%	61%	MR80-06	40290-06
	0.73	60	43.6	29.1	21.8	17.5	14.5	12.5	10.9	M 257	24%	90%	C 351	9%	88%	VC 448	5%	76%	XC 521	3%	64%	DR80-06	40280-06
08	0.69	30	41.2	27.4	20.6	16.5	13.7	11.8	10.3	C 317	17%	90%	UC 490	8%	59%	UC 540	6%	63%	UC 619	3%	52%	ER80-08	40270-08
	0.80	40	47.5	31.7	23.8	19.0	15.8	13.6	11.9	M 286	21%	93%	XC 449	9%	66%	UC 500	8%	69%	UC 585	4%	58%	SR80-08	40288-08
	0.89	50	53.1	35.4	26.6	21.3	17.7	15.2	13.3	M 264	23%	94%	XC 417	10%	71%	XC 470	9%	73%	UC 559	5%	62%	MR80-08	40290-08
	0.98	60	58.2	38.8	29.1	23.3	19.4	16.6	14.5	F 247	26%	95%	XC 390	11%	74%	XC 448	10%	76%	UC 539	5%	65%	DR80-08	40280-08
10	0.87	30	51.4	34.3	25.7	20.6	17.1	14.7	12.9	XC 405	12%	82%	UC 512	7%	55%	UC 546	5%	62%	UC 611	4%	52%	ER80-10	40270-10
	1.00	40	59.4	39.6	29.7	23.8	19.8	17.0	14.9	C 371	14%	84%	XC 472	8%	63%	UC 513	6%	67%	UC 582	5%	57%	SR80-10	40288-10
	1.12	50	66.4	44.3	33.2	26.6	22.1	19.0	16.6	C 346	16%	86%	XC 441	9%	67%	UC 489	7%	70%	UC 561	6%	60%	MR80-10	40290-10
	1.22	60	72.7	48.5	36.4	29.1	24.2	20.8	18.2	M 328	18%	87%	XC 415	10%	71%	XC 470	8%	72%	XC 544	6%	63%	DR80-10	40280-10
125	1.08	30	64.3	42.9	32.2	25.7																	



COMBO-JET® & Radiallock Caps, Accessories & Adapters

Combo-Jet® & Square-Lug Outlet Adapters

Adapters are available to convert a square-lug nozzle outlet (e.g. Teejet, Hypro, Arag, etc.) to Combo-Jet® Outlets, or vice versa.
 40204-00 Sq Lug (Teejet/Hypro/etc) to Combo-Jet Adapter, Lock-ring style .
 40202-00 Hardi to Combo-Jet Adapter, Snap-on style

40204-00
SQ LUG
To CJ
-TWISTLOCK-

40203-00
CJ TO
SQ LUG
-TURN-

40202-00
HARDI
To CJ
-SNAP-



Self-aligning TWISTLOCK adapter



COMBO-JET® Nozzle Bodies & Accessories

For Nozzle Body Brochure, visit www.wilger.net



1" One-Way 3/8" Inlet

Part#
41375-00



1" Two-Way 3/8" Inlet

Part#
41338-00



Thru Body Manual On/Off

Part#
41110-00



End Body Manual On/Off

Part#
41111-00

EXAMPLES



5-Way Manual On/Off Turret

Part#
41515-00



Boom End Flush Valve

Part#	Description
25175-VO	SST (1¼" NPT Compatible)
25176-VO	1" Female NPT



CONCORD NITROBAR & CHAFER 15" STREAMBAR CHART



Nitro Streambar

Convert your sprayer into a nitrogen applicator with Nitro-Bars. By adapting your sprayer with the Nitro-Bars, you have the control of applying nitrogen at the optimum time for increased yields.

Part#

NITROBAR (Nitro Streambar) 20"



Nitrobar Orifice Adapters

Part#	Description
1040753	Orange Orifice Adapter
1040740	Red Orifice Adapter
1040741	Blue Orifice Adapter
1040742	Yellow Orifice Adapter
1040743	Green Orifice Adapter

Chafar 15" Multi-Rate Streambar Chart

OFFICE CODE	GALL/MIN WATER	PRESSURE P.S.I	GAL/MIN FERT	SPEED IN M.P.H							
				6	8	10	12	14	16	18	20
GALLONS PER ACRE											
1	0.26	15	0.23	15.2	11.4	9.1	7.6	6.5	5.7	5.1	4.6
	0.30	20	0.27	17.6	13.2	10.6	8.8	7.5	6.6	5.9	5.3
	0.34	25	0.30	19.7	14.8	11.8	9.8	8.4	7.4	6.6	5.9
	0.37	30	0.33	21.5	16.2	12.9	10.8	9.2	8.1	7.2	6.5
	0.40	35	0.35	23.3	17.5	14.0	11.6	10.0	8.7	7.8	7.0
	0.43	40	0.38	24.9	18.7	14.9	12.4	10.7	9.3	8.3	7.5
	0.45	45	0.40	26.4	19.8	15.8	13.2	11.3	9.9	8.8	7.9
	0.48	50	0.42	27.8	20.9	16.7	13.9	11.9	10.4	9.3	8.3
	0.50	55	0.44	29.2	21.9	17.5	14.6	12.5	10.9	9.7	8.8
	2	0.42	15	0.37	24.7	18.5	14.8	12.4	10.6	9.3	8.2
0.45		20	0.40	26.4	19.8	15.8	13.2	11.3	9.9	8.8	7.9
0.48		25	0.42	28.0	21.0	16.8	14.0	12.0	10.5	9.3	8.4
0.51		30	0.45	29.5	22.1	17.7	14.8	12.7	11.1	9.8	8.9
0.53		35	0.47	31.0	23.2	18.6	15.5	13.3	11.6	10.3	9.3
0.55		40	0.49	32.3	24.3	19.4	16.2	13.9	12.1	10.8	9.7
0.58		45	0.51	33.7	25.2	20.2	16.8	14.4	12.6	11.2	10.1
0.60		50	0.53	34.9	26.2	21.0	17.5	15.0	13.1	11.6	10.5
0.62		55	0.55	36.2	27.1	21.7	18.1	15.5	13.6	12.1	10.8
3		0.61	15	0.54	35.4	26.5	21.2	17.7	15.2	13.3	11.8
	0.65	20	0.57	37.8	28.4	22.7	18.9	16.2	14.2	12.6	11.3
	0.69	25	0.61	40.1	30.1	24.1	20.1	17.2	15.0	13.4	12.0
	0.72	30	0.64	42.3	31.7	25.4	21.1	18.1	15.9	14.1	12.7
	0.76	35	0.67	44.4	33.3	26.6	22.2	19.0	16.6	14.8	13.3
	0.79	40	0.70	46.3	34.7	27.8	23.2	19.9	17.4	15.4	13.9
	0.83	45	0.73	48.2	36.2	28.9	24.1	20.7	18.1	16.1	14.5
	0.86	50	0.76	50.0	37.5	30.0	25.0	21.4	18.8	16.7	15.0
	0.89	55	0.78	51.8	38.8	31.1	25.9	22.2	19.4	17.3	15.5
	4	0.82	15	0.73	48.1	36.1	28.8	24.0	20.6	18.0	16.0
0.88		20	0.78	51.4	38.5	30.8	25.7	22.0	19.3	17.1	15.4
0.93		25	0.83	54.5	40.9	32.7	27.3	23.4	20.4	18.2	16.4
0.98		30	0.87	57.5	43.1	34.5	28.7	24.6	21.5	19.2	17.2
1.03		35	0.91	60.3	45.2	36.2	30.1	25.8	22.6	20.1	18.1
1.08		40	0.95	62.9	47.2	37.8	31.5	27.0	23.6	21.0	18.9
1.12		45	0.99	65.5	49.1	39.3	32.8	28.1	24.6	21.8	19.7
1.16		50	1.03	68.0	51.0	40.8	34.0	29.1	25.5	22.7	20.4
1.20		55	1.07	70.4	52.8	42.2	35.2	30.2	26.4	23.5	21.1
5		1.04	15	0.92	60.8	45.6	36.5	30.4	26.0	22.8	20.3
	1.11	20	0.98	65.0	48.7	39.0	32.5	27.8	24.4	21.7	19.5
	1.18	25	1.04	68.9	51.7	41.3	34.4	29.5	25.8	23.0	20.7
	1.24	30	1.10	72.6	54.5	43.6	36.3	31.1	27.2	24.2	21.8
	1.30	35	1.15	76.2	57.1	45.7	38.1	32.6	28.6	25.4	22.9
	1.36	40	1.21	79.6	59.7	47.7	39.8	34.1	29.8	26.5	23.9
	1.42	45	1.25	82.8	62.1	49.7	41.4	35.5	31.1	27.6	24.8
	1.47	50	1.30	85.9	64.4	51.6	43.0	36.8	32.2	28.6	25.8
	1.52	55	1.35	88.9	66.7	53.4	44.5	38.1	33.4	29.6	26.7
	6	1.74	15	1.54	101.5	76.1	60.9	50.7	43.5	38.1	33.8
1.86		20	1.64	108.5	81.4	65.1	54.3	46.5	40.7	36.2	32.6
1.97		25	1.74	115.1	86.3	69.1	57.5	49.3	43.2	38.4	34.5
2.08		30	1.84	121.3	91.0	72.8	60.7	52.0	45.5	40.4	36.4
2.18		35	1.93	127.2	95.4	76.3	63.6	54.5	47.7	42.4	38.2
2.28		40	2.01	132.9	99.7	79.7	66.4	57.0	49.8	44.3	39.9
2.37		45	2.10	138.3	103.7	83.0	69.2	59.3	51.9	46.1	41.5
2.46		50	2.17	143.5	107.7	86.1	71.8	61.5	53.8	47.8	43.1
2.54		55	2.25	148.6	111.4	89.1	74.3	63.7	55.7	49.5	44.6

Charts based on fertilizer with 1.28 SG. Flow rate of fertilizer is as a guide only and compensation may need to be made to rate controllers to achieve exact rates.

CHAFER 20" MULTI-RATE STREAMBAR

Rate Adjustment Slide Bar



Part#	Size
CHAFER-15MR	15"
CHAFER-20MR	20"

OFFICE CODE	GALL/ MIN WATER	PRESSURE P.S.I	GAL/ MIN FERT	SPEED IN M.P.H							
				6	8	10	12	14	16	18	20
GALLONS PER ACRE											
1	0.26	15	0.23	11.4	8.6	6.9	5.7	4.9	4.3	3.8	3.4
	0.30	20	0.27	13.2	9.9	7.9	6.6	5.7	4.9	4.4	4.0
	0.34	25	0.30	14.8	11.1	8.9	7.4	6.3	5.5	4.9	4.4
	0.37	30	0.33	16.2	12.1	9.7	8.1	6.9	6.1	5.4	4.8
	0.40	35	0.35	17.5	13.1	10.5	8.7	7.5	6.5	5.8	5.2
	0.43	40	0.38	18.7	14.0	11.2	9.3	8.0	7.0	6.2	5.6
	0.45	45	0.40	19.8	14.8	11.9	9.9	8.5	7.4	6.6	5.9
	0.48	50	0.42	20.9	15.6	12.5	10.4	8.9	7.8	7.0	6.3
0.50	55	0.44	21.9	16.4	13.1	10.9	9.4	8.2	7.3	6.6	
2	0.42	15	0.37	18.5	13.9	11.1	9.3	7.9	6.9	6.2	5.6
	0.45	20	0.40	19.8	14.9	11.9	9.9	8.5	7.4	6.6	5.9
	0.48	25	0.42	21.0	15.8	12.6	10.5	9.0	7.9	7.0	6.3
	0.51	30	0.45	22.1	16.6	13.3	11.1	9.5	8.3	7.4	6.6
	0.53	35	0.47	23.2	17.4	13.9	11.6	10.0	8.7	7.7	7.0
	0.55	40	0.49	24.3	18.2	14.6	12.1	10.4	9.1	8.1	7.3
	0.58	45	0.51	25.2	18.9	15.1	12.6	10.8	9.5	8.4	7.6
	0.60	50	0.53	26.2	19.7	15.7	13.1	11.2	9.8	8.7	7.9
0.62	55	0.55	27.1	20.3	16.3	13.6	11.6	10.2	9.0	8.1	
3	0.61	15	0.54	26.5	19.9	15.9	13.3	11.4	10.0	8.8	8.0
	0.65	20	0.57	28.4	21.3	17.0	14.2	12.2	10.6	9.5	8.5
	0.69	25	0.61	30.1	22.6	18.1	15.0	12.9	11.3	10.0	9.0
	0.72	30	0.64	31.7	23.8	19.0	15.9	13.6	11.9	10.6	9.5
	0.76	35	0.67	33.3	25.0	20.0	16.6	14.3	12.5	11.1	10.0
	0.79	40	0.70	34.7	26.1	20.8	17.4	14.9	13.0	11.6	10.4
	0.83	45	0.73	36.2	27.1	21.7	18.1	15.5	13.6	12.1	10.9
	0.86	50	0.76	37.5	28.1	22.5	18.8	16.1	14.1	12.5	11.3
0.89	55	0.78	38.8	29.1	23.3	19.4	16.6	14.6	12.9	11.7	
4	0.82	15	0.73	36.1	27.0	21.6	18.0	15.5	13.5	12.0	10.8
	0.88	20	0.78	38.5	28.9	23.1	19.3	16.5	14.5	12.8	11.6
	0.93	25	0.83	40.9	30.7	24.5	20.4	17.5	15.3	13.6	12.3
	0.98	30	0.87	43.1	32.3	25.9	21.5	18.5	16.2	14.4	12.9
	1.03	35	0.91	45.2	33.9	27.1	22.6	19.4	17.0	15.1	13.6
	1.08	40	0.95	47.2	35.4	28.3	23.6	20.2	17.7	15.7	14.2
	1.12	45	0.99	49.1	36.9	29.5	24.6	21.1	18.4	16.4	14.7
	1.16	50	1.03	51.0	38.2	30.6	25.5	21.9	19.1	17.0	15.3
1.20	55	1.07	52.8	39.6	31.7	26.4	22.6	19.8	17.6	15.8	
5	1.04	15	0.92	45.6	34.2	27.3	22.8	19.5	17.1	15.2	13.7
	1.11	20	0.98	48.7	36.5	29.2	24.4	20.9	18.3	16.2	14.6
	1.18	25	1.04	51.7	38.8	31.0	25.8	22.1	19.4	17.2	15.5
	1.24	30	1.10	54.5	40.9	32.7	27.2	23.3	20.4	18.2	16.3
	1.30	35	1.15	57.1	42.8	34.3	28.6	24.5	21.4	19.0	17.1
	1.36	40	1.21	59.7	44.8	35.8	29.8	25.6	22.4	19.9	17.9
	1.42	45	1.25	62.1	46.6	37.3	31.1	26.6	23.3	20.7	18.6
	1.47	50	1.30	64.4	48.3	38.7	32.2	27.6	24.2	21.5	19.3
1.52	55	1.35	66.7	50.0	40.0	33.4	28.6	25.0	22.2	20.0	
6	1.74	15	1.54	76.1	57.1	45.7	38.1	32.6	28.5	25.4	22.8
	1.86	20	1.64	81.4	61.0	48.8	40.7	34.9	30.5	27.1	24.4
	1.97	25	1.74	86.3	64.7	51.8	43.2	37.0	32.4	28.8	25.9
	2.08	30	1.84	91.0	68.2	54.6	45.5	39.0	34.1	30.3	27.3
	2.18	35	1.93	95.4	71.6	57.3	47.7	40.9	35.8	31.8	28.6
	2.28	40	2.01	99.7	74.8	59.8	49.8	42.7	37.4	33.2	29.9
	2.37	45	2.10	103.7	77.8	62.2	51.9	44.5	38.9	34.6	31.1
	2.46	50	2.17	107.7	80.7	64.6	53.8	46.1	40.4	35.9	32.3
2.54	55	2.25	111.4	83.6	66.9	55.7	47.8	41.8	37.1	33.4	

CHARTS BASED ON FERTILISER WITH 1.28 SG * FLOW RATE OF FERTILISER IS AS A GUIDE ONLY AND COMPENSATION MAY NEED TO BE MADE TO RATE CONTROLLERS TO ACHIEVE EXACT RATES

DRY TEEJET NOZZLE BODIES

Boom Quick Nozzle Body 90°

Part#	Hose ID
18635-111-406-NYB	3/8"
18638-111-540-NYB	1/2"
18719-111-785-NYB	3/4"



Boom Quick Nozzle Body Tee

Part#	Hose ID
18636-112-406-NYB	3/8"
18639-112-540-NYB	1/2"
18720-112-785-NYB	3/4"



Boom Quick Nozzle Body Cross

Part#	Hose ID
18637-113-406-NYB	3/8"
18640-113-540-NYB	1/2"
18721-113-785-NYB	3/4"



Boom Quick Nozzle Body 90°

Part#	Hose ID
19349-211-406-NYB	3/8"
19349-211-540-NYB	1/2"
19349-211-785-NYB	3/4"



Boom Quick Nozzle Body Tee

Part#	Hose ID
19350-212-406-NYB	3/8"
19350-212-540-NYB	1/2"
19350-212-785-NYB	3/4"



Boom Quick Nozzle Body Cross

Part#	Hose ID
19351-213-406-NYB	3/8"
19351-213-540-NYB	1/2"
19351-213-785-NYB	3/4"



Boom Quick Nozzle Body 90°

Part#	Hose ID
22251-311-375-NYB	3/8"
22251-311-500-NYB	1/2"
22251-311-750-NYB	3/4"



Boom Quick Nozzle Body Tee

Part#	Hose ID
22252-312-375-NYB	3/8"
22252-312-500-NYB	1/2"
22252-312-750-NYB	3/4"



Boom Quick Triple Nozzle Body

Part#	Hose ID
24230A-1-785-NYB	3/4" Hose Tee
24231A-NYB	1/4" MPT
24216A-1-NYB	1" Wet Boom
24216A-3/4-NYB	3/4" Wet Boom



3 Spray Position Nozzle Body 90° Elbow

Part#	Hose ID
QJ363C-500-1-NYB	1/2"
QJ363C-750-1-NYB	3/4"
QJ363C-1000-1-NYB	1"



3 Spray Position Nozzle Body Tee

Part#	Hose ID
QJ363C-500-2-NYB	1/2"
QJ363C-750-2-NYB	3/4"
QJ363C-1000-2-NYB	1"



4 Spray Position Nozzle Body 90° Elbow

Part#	Hose ID
QJ364C-500-1-NYB	1/2"
QJ364C-750-1-NYB	3/4"
QJ364C-1000-1-NYB	1"



4 Spray Position Nozzle Body Tee

Part#	Hose ID
QJ364C-500-2-NYB	1/2"
QJ364C-750-2-NYB	3/4"
QJ364C-1000-2-NYB	1"



5 Spray Position Nozzle Body 90° Elbow

Part#	Hose ID
QJ365C-500-1-NYB	1/2"
QJ365C-750-1-NYB	3/4"
QJ365C-1000-1-NYB	1"



5 Spray Position Nozzle Body Tee

Part#	Hose ID
QJ365C-500-2-NYB	1/2"
QJ365C-750-2-NYB	3/4"
QJ365C-1000-2-NYB	1"



TeeJet Adapter with Chem Saver

- Inlet-1/4" MPT
- Outlet-Quick 10 PSI Opens Check Valve
- 300 PSI Maximum

Part#
QJ8360-NYB



TeeJet Adapter with Chem Saver

- Inlet-1/16" female nozzle thread
- Outlet-Quick TeeJet
- 10 PSI opens check valve
- 300 PSI Maximum

Part#
QJT8360-NYB



ChemSaver End Cap

Part#	PSI
21950-2NYB	2
21950-10NYB	10



ChemSaver Diaphragm

Part#	Type
CP21953-EPR	EPDM
CP21953-VI	Viton



E-ChemSaver® Electric Solenoid Shutoff

- 150 PSI max. pressure at min. voltage (12V)
- 0.6 GPM (2.27 l/min) at 5 PSI (0.34 bar) pressure drop and 0.8 GPM (3.0 l/min) at 10 PSI (0.7 bar) pressure drop
- Use with most diaphragm check valve equipped TeeJet nozzle bodies
- 1/4 second response time
- 58480 Mini-DIN power cable available



Part#	Description
55295-1-12-05	E-Chemsaver Shutoff
98552-05	Cable

John Deere Retrofit Seal

Adapts to any Quick TeeJet wet boom nozzle body with the standard 3/8" diameter inlet to the larger 11/16" diameter John Deere high capacity wet boom.

- Low cost alternative to replace high flow nozzle bodies on the John Deere sprayers
- Viton® seals
- Retrofit gasket for large hole booms

Part#
CP 98488-VI



TeeJet Adapter

- Inlet-1/16" female nozzle thread
- Outlet-Quick TeeJet

Part#
QJT-NYB



TeeJet Adapter

- Inlet-1/4" MPT
- Outlet-Quick TeeJet
- 300 PSI Maximum

Part#
QJ1/4TT-NYB



TeeJet Adapter

- Inlet-1/4" MPT
- Outlet-Quick TeeJet 45°

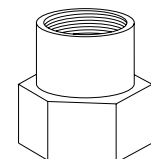
Part#
22674-1/4-NYB



Adapter

- Inlet-1/4" FPT
- Outlet 1/16" female nozzle thread

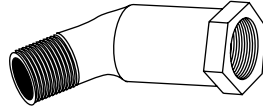
Part#
4676-NYB-1/4



TEEJET NOZZLE BODIES & ADAPTERS

Adapter

- Inlet-1/4" MPT
- Outlet-1/4" FPT 45°



Part#
37549-1

Adapter

- Inlet-1/4" MPT
- Outlet 11/16" male nozzle thread



Part#
CP8028-NYB
CP1322
CP1322-SS

Adapter

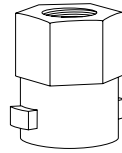
- Inlet-1/4" FPT
- Outlet 11/16" male nozzle thread



Part#
CP12094-NYB

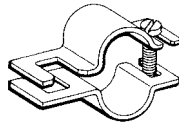
TeeJet Adapter

- Inlet-1/4" FPT
- Outlet-Quick TeeJet
- 300 PSI Maximum

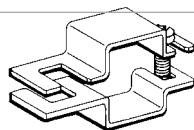


Part#
QJ1/4T-NYB

QuickJet Clamps



Part#	Pipe Size
QJ111-1/2	1/2"
QJ111-3/4	3/4"
QJ111-1	1"
QJ111-11/4	1 1/4"



Part#	Pipe Size
QJ111SQ-3/4	3/4"
QJ111SQ-1	1"
QJ111SQ-11/4	1 1/4"
QJ111SQ-11/2	1 1/2"

Single Nozzle Body for Wet Boom

Part#	Clamp on
QJ17560A-1-NYB	1" Pipe
QJ17560A-1/2-NYB	1/2" Pipe
QJ17560A-3/4-NYB	3/4" Pipe



Part#	Clamp on
QJ22187-1-NYB	1" Pipe
QJ22187-1/2-NYB	1/2" Pipe
QJ22187-3/4-NYB	3/4" Pipe



Part#	Clamp on
QJ363C-1-NYB	1" Pipe
QJ363C-3/4-NYB	3/4" Pipe
QJ363F-1-NYB	3+1" Outlets



Part#	Clamp on
QJ364C-3/4-NYB	3/4" Pipe
QJ364C-1-NYB	1" Pipe
QJ364F-1-NYB	4+1" Outlets



Part#	Clamp on
QJ365C-3/4-NYB	3/4" Pipe
QJ365C-1-NYB	1" Pipe

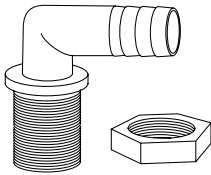


Part#	Clamp on
QJ7421-1-NYB	1" Pipe
QJ7421-3/4-NYB	3/4" Pipe



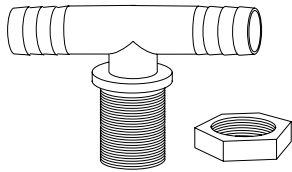
3/8" Wet Boom O-Ring for TeeJet Nozzle Body Stems

Part#
CP7717-2/110-BU



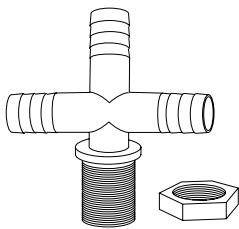
90° Elbow with Nut

Part#	Hose ID
NTL38	3/8"
NTL12	1/2"
NTL34	3/4"
12201	1"



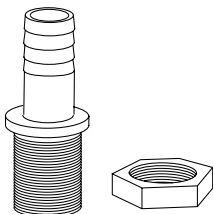
Tee with Nut

Part#	Hose ID
NTT38	3/8"
NTT12	1/2"
NTT34	3/4"
12202	1"



Cross with Nut

Part#	Hose ID
T38C	3/8"
T12C	1/2"
T34C	3/4"



Body with Nut

Part#	Hose ID
38D	3/8"
3812D	1/2"



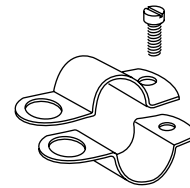
TeeJet Nozzle Caps

Polypropylene nozzle caps thread into nozzle body to allow installation of hose barb adapters.

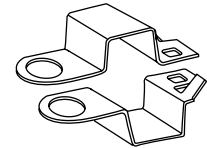
Part#	Description
CP8027-NYB	STANDARD CAP
CP18032A-NYB	WINGED CAP
CP1325	BRASS CAP
CP1325-SS	STAINLESS STEEL CAP

Boom Clamps

Part#	Pipe Size
AA111-1/2	1/2"
AA111-3/4	3/4"
AA111-1	1"



Part#	Square Tubing Size
AA111SQ-1	1" OD
AA111SQ-11/4	1 1/4" OD



Nozzle Body Adapters

1/4" Nozzle body adapter threads into manifold to allow installation of hose barb adapters.

Part#	Size
NB-1612	1/2" NPT x NZT
CP8028-NYB	11/16" M x 1/4" MPT



Female Nozzle Body Adapter

Part#	Size
CP12094-NYB	1/4" FPT x Nozzle Thread



QJT Adapter

Can be attached to hose drops for use with Quick TeeJet caps.

Part#
QJ1/4T-NYB



TEEJET ADAPTERS & ACCESSORIES

Nozzle Drops

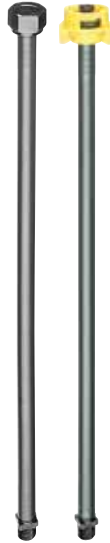
Hose drops connect to nozzle bodies to drop the spray area further down into the crop area. Available with standard and quick teejet nozzle bodies in 15" and 24" length.

Standard Nozzle

Part#	Thread
21354-15-NYB	15"
21354-24-NYB	24"

Quick Jet Cap

Part#	Thread
QJ21353-6-15-NYB	15"
QJ21353-6-24-NYB	24"



Swivel Nozzle Bodies

Swivel nozzle bodies are primarily for use with tips employed for row crop spraying. A locknut holds swivel nozzle bodies in place at selected spray projection angle so they are not affected by jarring and vibration.



Part#	Description
8600-1/4T-NYB	SINGLE
8600-2-1/4T-NYB	DOUBLE

Quick TeeJet Swivel Nozzle Bodies

QJ8600 swivel Quick TeeJet nozzle body assemblies provide the same spray tip adjustability of a standard TeeJet threaded swivel plus the quick change and self features of the Quick TeeJet System.



Part#	Description
QJ8600-1/4NYB	SINGLE
QJ8600-2-1/4NYB	DOUBLE

Rapid Stop Nozzle Body Adapter

- Extended inlet tube for wet boom nozzle bodies raises inlet tube height to evacuate trapped air from spray boom.
- Can significantly reduce the shut off and turn on time of spray tips for more precise application.
- Easily installed into a wide range of TeeJet wet boom nozzle bodies.
- Stainless steel construction for strength and excellent chemical resistance.



Part#	Wet Boom Size
CP98583-1-3/4-SS	3/4" Pipe
CP98583-1-1-SS	1" Pipe
CP98583-3-1-SS	1" Pipe

Part#	Fits TeeJet Nozzle Body
CP98583-1-3/4-SS	QJ360C, QJ380, QJ380F, QJS
CP98583-1-1-SS	
CP98583-3-1-SS	QJ360F

Banjo Manifold

Banjo's eight way manifold is commonly used on planters and sprayers.

- Polypropylene construction
- 1/4" Pressure gauge port
- 3/4" Inlet
- Eight 1/2" Outlets
- Rated at 100 psi



Part#
TM075/050

Hose Barb Adapters

Part#	Size
K8414	1/4"
K8438	3/8"
K8412	1/2"

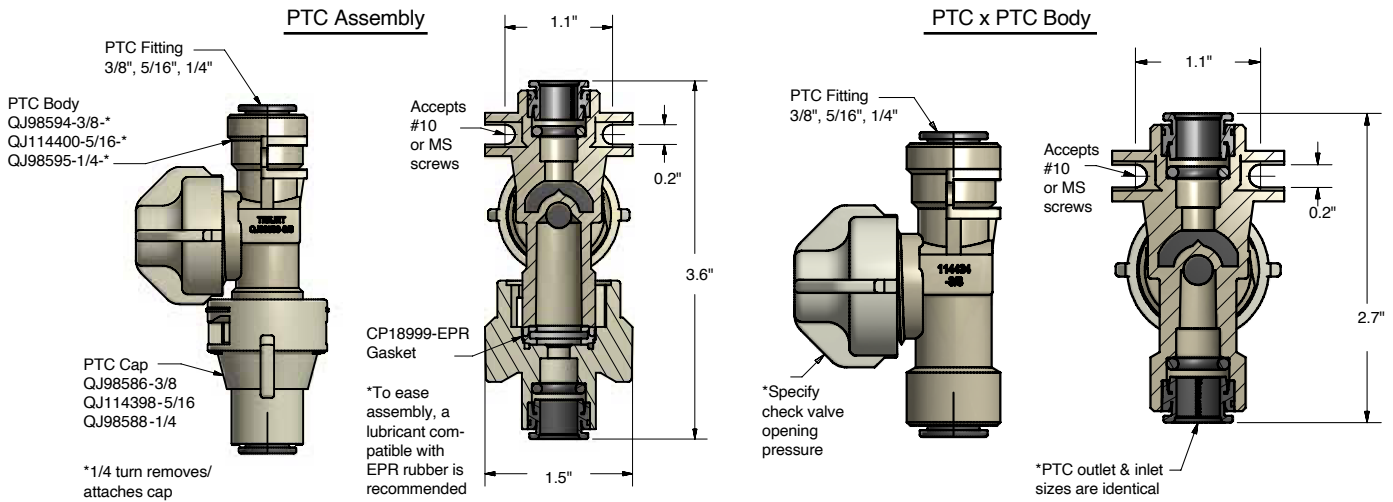


Push to Connect Fittings

Quick Teejet push to connect nozzle bodies and fittings are designed to greatly improve the speed and ease of assembling systems utilizing small diameter, semi-rigid tubing. These bodies are ideal for liquid fertilizer application systems on planters and fertilizer toolbars. By eliminating threaded fittings and other components, plumbing system complexity is reduced and reliability is improved.

Features and Benefits

- Allows flow shutoff to occur further downstream for improved fertilizer savings
- Compact, inline design for mounting in a variety of locations
- Maximum pressure rating of 100 PSI
- Integrated mounting lugs for easy installation using #10 or M5 screws or cable ties
- Available for both 1/4" and 3/8" tubing sizes
- Rugged nylon construction for reliability and excellent chemical resistance
- For use with linear, low-density, polyethylene tubing
- Flow rate of 2.25 GPM at 5 PSI pressure drop, 3.18 GPM at 10 PSI pressure drop
- Choice of body, cap or body and cap combination
- Orifice plate can be easily installed between body and cap for precise flow regulation



HOW TO ORDER			
PART NUMBER	DESCRIPTION	OPENING PSI	TUBING OD
QJ98595-1/4-2	PTC ASSEMBLY	2 PSI CHECK	1/4" OD TUBING
QJ98595-1/4-5	PTC ASSEMBLY	5 PSI CHECK	1/4" OD TUBING
QJ98595-1/4-10	PTC ASSEMBLY	10 PSI CHECK	1/4" OD TUBING
QJ114401-5/16-2	PTC ASSEMBLY	2 PSI CHECK	5/16" OD TUBING
QJ114401-5/16-5	PTC ASSEMBLY	5 PSI CHECK	5/16" OD TUBING
QJ114401-5/16-10	PTC ASSEMBLY	10 PSI CHECK	5/16" OD TUBING
QJ98594-3/8-2	PTC ASSEMBLY	2 PSI CHECK	3/8" OD TUBING
QJ98594-3/8-5	PTC ASSEMBLY	5 PSI CHECK	3/8" OD TUBING
QJ98594-3/8-10	PTC ASSEMBLY	10 PSI CHECK	3/8" OD TUBING
QJ98592-1/4-2	PTC BODY	2 PSI CHECK	1/4" OD TUBING
QJ98592-1/4-5	PTC BODY	5 PSI CHECK	1/4" OD TUBING
QJ98592-1/4-10	PTC BODY	10 PSI CHECK	1/4" OD TUBING
QJ114400-5/16-2	PTC BODY	2 PSI CHECK	5/16" OD TUBING
QJ114400-5/16-5	PTC BODY	5 PSI CHECK	5/16" OD TUBING
QJ114400-5/16-10	PTC BODY	10 PSI CHECK	5/16" OD TUBING
QJ98590-3/8-2	PTC BODY	2 PSI CHECK	3/8" OD TUBING
QJ98590-3/8-5	PTC BODY	5 PSI CHECK	3/8" OD TUBING
QJ98590-3/8-10	PTC BODY	10 PSI CHECK	3/8" OD TUBING
QJ98588-1/4	PTC QJ CAP	N/A	1/4" OD TUBING
QJ114398-5/16	PTC QJ CAP	N/A	5/16" OD TUBING
QJ98586-3/8	PTC QJ CAP	N/A	3/8" OD TUBING
CP18999-EPR	CAP GASKET	N/A	N/A
CP18999-VI	CAP GASKET (VITON)	N/A	N/A
QJ114430-1/4-2	PTC x PTC BODY	2 PSI CHECK	1/4" OD TUBING
QJ114430-1/4-5	PTC x PTC BODY	5 PSI CHECK	1/4" OD TUBING
QJ114430-1/4-10	PTC x PTC BODY	10 PSI CHECK	1/4" OD TUBING
QJ114432-5/16-2	PTC x PTC BODY	2 PSI CHECK	5/16" OD TUBING
QJ114432-5/16-5	PTC x PTC BODY	5 PSI CHECK	5/16" OD TUBING
QJ114432-5/16-10	PTC x PTC BODY	10 PSI CHECK	5/16" OD TUBING
QJ114434-3/8-2	PTC x PTC BODY	2 PSI CHECK	3/8" OD TUBING
QJ114434-3/8-5	PTC x PTC BODY	5 PSI CHECK	3/8" OD TUBING
QJ114434-3/8-10	PTC x PTC BODY	10 PSI CHECK	3/8" OD TUBING

- 100 PSI MAX pressure rating based on use with linear low density polyethylene tubing
- PTC assemblies include: PTC body, PTC QJ cap, & Cap gasket
- PTC caps use gasket P/N: CP18999-EPR

Tubing Recommendations

- Ensure outside of tube is free from score marks and deburred before inserting into fitting
- Plastic tube: polyethylene, nylon, and polyurethane
- Soft metal tube: brass, copper, mild steel

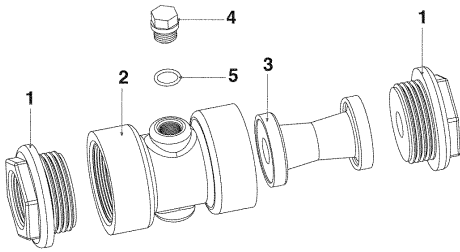
NOZZLE STOP VALVES



Banjo Poly Air Actuated Shutoff Valves

Part#	Description	Max PSI	Pipe Size	Pressure Differ.
PV075	3/4" x 3/4" Poly Pinch Valve	70	3/4"	15 to 20 PSI
PV075V	3/4" FKM (viton type) Poly Pinch Valve	70	3/4"	15 to 20 PSI
PV100	1" x 1" Poly Pinch Valve	70	1"	15 to 20 PSI
PV100V	1" x 1" FKM (viton type) Pinch Valve	70	1"	15 to 20 PSI
PV100-075	1" x 3/4" Poly Pinch Valve	70	1" x 3/4"	15 to 20 PSI
PV100-075V	1" x 3/4" FKM (viton type) Pinch Valve	70	1" x 3/4"	15 to 20 PSI
PV100-075B	1" x 3/4" Poly Pinch Valve Female Coupler	70	1" x 3/4"	15 to 20 PSI
PV100-075BV	1" FPT x 3/4" Female Coupler FKM (viton type) Poly Pinch Valve	70	1" x 3/4"	15 to 20 PSI

Attention: The polypropylene air actuated valve is a normally open valve, and has a maximum liquid pressure of 70 P.S.I. The pressure differential (pressure it takes to close valve) of the valve is 15 to 20 P.S.I.



Replacement Parts – PV075-PV100-075

Item	Part#	Description
1	PV07256	1" End Plate for Pinch Valve
1	PV07257	3/4" End Plate for Pinch Valve
2	PV10254	Poly Pinch Valve Body
3	PV10265	EPDM Rubber Bladder Seal
4	12723	1/4" Drain Plug
5	12724	O-Ring for Drain Plug EPDM

Banjo Nozzle Pipe Adapters

Banjo Nozzle Adapters eliminate the need for threading pipe or welding stainless steel pipe.

- Quick and easy assembly
- 350° orientation
- Double O-Ring Seals
- EPDM Seals Standard, Viton Optional
- Made from glass reinforced polypropylene
- Stainless steel hardware
- Maximum operating pressure 150psi

Part#	Description
M100PA	1" Flanged Pipe Adapter
M100PAT	1" Flanged Pipe Ad. Tee
M100PLG	1" Flanged Adapter Plug
WR25261	1" Poly Pipe



Exclusive Individual Column Flow Indicators with o-ring seal and clip lock connectors for leak free operation

- Customize units for exact needs
- When operating, balls hover at about the same level, depending on flow rate
- A ball lower than the others indicates plugged tip
- Convenient for service or repair no more replacing the entire body
- Each indicator column supplies up to three nozzle tips



20460-02



20460-03



20460-04



Part#	Description
20460-01	Body Only
20460-02	Ball Retainer
20460-03	O-Ring
20460-04	U-Clip
20460-05	1/2" SS-Ball
20460-06	Maroon Glass Ball
20460-07	Red Celcon Ball
20460-08	Green Poly Ball
20460-09	Black Ball
20460-10	7/16" SS-Ball
20460-14	Neon Pink Ball
20460-15	O-Ring Viton

Part#	Description
20460-00	Flow Indicator Assembly and Parts Includes body, Ball Retainer, O-Ring Seal, 2 lock U-Clips and Black, Green Red and Stainless Steel Balls



Hose Shanks

Part#	Description
20500	1/4" Straight
20501	3/8" Straight
20502	1/2" Straight
20503	3/4" Straight
20504	1" Straight
20511	3/8" 90° Elbow
20512	1/2" 90° Elbow
20513	3/4" 90° Elbow
20514	5/8" 90° Elbow

Part#	Description
20516	1/4" 90° Push-In Tube O-Ring Seal
20518	1/4" NPT Street Elbow
20519	1/4" NPT F Threaded Outlet
20520	Female ORS x Male ORS 90° End Cap
20521	ORS Cap
20522	ORS Male x ORS Male x ORS FE Tee
20523	ORS Male x ORS Blind x 3/8" FE Isolator Tee
20525	ORS Male x ORS Male x 1" NPT FE Tee



Customize Your Visual Flow Monitor System

- Get the exact number of flow monitors for spraying or fertilizer applications by simply claspung single columns or sets of 4 Flow Monitors together with stainless steel clips and Viton O-rings
- Ports are standard NPT - Use barbs or convenient push connect fittings for simple installation
- A ball higher than the others indicates hoses or fittings supplied by that specific flow monitor are broken or have a leak
- Most parts are interchangeable with other brands



VisaGage for Use with Sprayers

Part#	Description
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SMSS1	Single Flow Monitor Assembly - Spray type includes single body, 3/8" NPT female inlet and outlet, (5) 1/2" diameter balls, end cap, Viton O-rings and stainless steel retainer clips
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SMSS4	Set of Four Flow Monitor Assembly - Spray type includes 4 bodies, 1/2" NPT female inlet, 3/8" NPT female outlet, (20) 1/2" diameter balls, end cap, Viton O-rings and stainless steel retainer clips
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VisaGage for Use with Flow Dividers or Squeeze Tube Pumps

Part#	Description
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SMFD1	Single Flow Monitor Assembly-Flow Divider Type includes single flow divider monitor body, 3/8" NPT female inlet and outlet, (5) 1/2" diameter balls, end cap, Viton O-rings and stainless steel retainer clips
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SMFD4	Set of Four Flow Monitor Assembly,- Flow Divider type includes 4 bodies, 3/8" NPT female inlet and outlet, (20) 1/2" diameter balls, end cap, Viton O-rings and stainless steel retainer clips
--------------	--



VisaGauge Orifice Selector

- Turn your VisaGauge II into a self-contained orifice changing system
- Select from one of the 4 orifice settings on the two discs provided
- No more getting wet from fertilizers or chemicals when changing orifices
- Adjustment is quick, no need to travel to each row unit and work with plumbing near the ground

Part#	Description
-------	-------------

SMPT-OSA1	Single orifice selector kit
------------------	-----------------------------

SMPT-OSA4	Set of 4 orifice selector kit
------------------	-------------------------------



VisaGage for Use with NH3

Now you can monitor NH₃ (anhydrous ammonia) application flow directly from the cab of your tractor. No more second-guessing if a delivery line is plugged! The VisaGage NH₃ Flow Monitor and Blockage System helps you identify which row is being under-applied before yields are diminished. Our patented system shows you both low-flow and no-flow problems in real time so you can correct it immediately saving you valuable time and money.



Part#	Description
-------	-------------

SMFD2-NH3	Flow Monitor Assembly NH3, Set of 2
------------------	-------------------------------------

SMFD4-NH3	Flow Monitor Assembly NH3, Set of 4
------------------	-------------------------------------

Liquid Blockage Monitor System

Detects Low Flow and Blocked Lines

- Know immediately if an outlet is plugged, thus causing possible variations in your application rates
- See a visual display and hear an audible alarm on the control panel from your tractor cab
- Can be used with cloudy or dark liquids and NH₃
- Available in 3 options: standard wired control panel, iPad wireless, or Android wireless system



Premium System (Wireless)

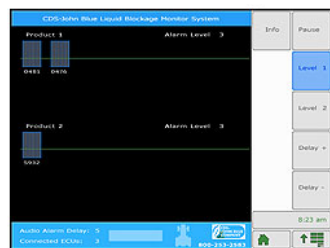
The LBMS App is free and available from either the Apple App store or the Android Google Play Store.

Part#	Description
BMi-08	Premium 8 Row Kit Includes: iPad ram mounting bracket, Input harness, 28ft. extension harness, Wireless sensor kit, Standard sensor kit, Two terminator plugs
BMPT-001	4-Row Sensor Expansion Kit for adding to BMi-08 - Includes: Standard sensor, Tee harness, Magnet balls and hardware



Standard Control Panel (Wired)

Part#	Description
BM-08AP	Applicator 8 Row Kit Includes: Control panel with mount bracket, Input harness, 28ft. extension harness, Tee harness, 2 standard sensor kits, 2 terminator plugs
BM-08PL	Planter 8 Row Kit Includes: Control panel mounting bracket, Input harness, 28ft. extension harness, Tee harness, 2 standard sensor kits, 2 terminator plugs, 2 15ft. extension harnesses
BMPT-001	4-Row Sensor Expansion Kit for adding to BM-08AP and BM-08PL - includes: Standard sensor, Tee harness, Magnet balls and hardware



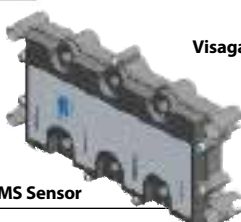
ISOBUS System

The CDS-John Blue ISOBUS Liquid Blockage Monitor System is an automatic warning system that lets the operator know when the ball (and flow) in an individual row has dropped below a selected level in a CDS-John Blue Visage II flow monitor. The system also gives real-time ball level updates for each row as it is running using a properly equipped ISOBUS compatible VT (virtual terminal) display.

ISOBUS Program Display



Job Computer



LBMS Sensor

Visage II



Part#	Description
BM-08ISO	Universal Input Harness
BM-08ISO-JD	John Deere Splice Harness

Miscellaneous Components

Part#	Description
SMPT-0009	Ball Storage Unit holds up to 40 balls. Lid can be locked
SMPT-0014	Tee for sprayer style to make 8 unit system with gauge port
SMPT-0021	7/16" stainless steel ball for use with high flow rates
SMPT-0034	Orifice plate o-ring Use with CP4916 orifice plates



PRESSURE GAUGES

Standard Dry Gauge

This standard gauge with brass internals is typically used on sprayers where brass is compatible with chemicals being sprayed. 2½" Dial ¼" MPT lower



Part#	Range
1005-30#	30#
1005-60#	60#
1005-100	100#
1005-160	160#
1005-300	300#
1005-400#	400#

Ammonia Gauge

Although this is an ammonia gauge, it is often used on sprayers because of its stainless steel construction. 2½" Dial ¼" MPT lower



Part#	Range
WO160	60#
WO162	150#
WO164	400#

Ammonia Gauge-4" Dial

This ammonia gauge with 4" dial is easy to read stainless steel construction. 4" Dial ¼" MPT lower



Part#	Range
WO160-4	0-60#
WO162-4	0-150#
WO164-4	0-400#

Liquid Filled Gauge

A liquid filled gauge resists needle bouncing. This gauge has brass internals, 2½" dial and a ¼" MPT lower connection.



Part#	Range
GG60	60#
GG100	100#
GG400	400#

Stainless Liquid Filled Gauge

All the features of the liquid filled gauge with a stainless steel tube. 2½" or 4" dial ¼" lower connection.



Part#	Dial	Range
WGGSS60	2½"	60#
WGGSS60-4	4"	60#
WGGSS100	2½"	100#
WGGSS100-4	4"	100#
WGGSS160-4	4"	100#
WGGSS400	2½"	400#

Blumhardt Gauge with Stabilizer

Stabilizer prevents liquid from reaching gauge. Also prevents bouncing needle.



Part#	Range
20-803-G6000	60#
20-803-G1000	100#

Gauge Isolator

Isolates fluid from gauge for protection.



Part#
23800A-1/4

Hypro Gauge Dampener

Part#
B301AB



Hypro High Pressure Gauge

Part#
9910-550545
9910-1880290

Micro-Tubing

Agri-Inject's innovative Micro-Tube® System allows you apply precisely the right amount of liquid in precisely the right place. It's ideal for use on wheat drills, planters, cultivators and tillage equipment. Precise placement is key in today's farming. With the Micro-Tube® System from Agri-Inject®, you can accurately place precise amounts of fertilizer and crop protection products into the furrow or soil during tilling, planting or cultivating.

Key Benefits

- **Microtube Uniformity and Accuracy** – Pumps a uniform stream of fluid through a network of precision tubing to deliver exact amounts at exactly the right place.
- **Patented engineering** – Our manifold system is unlike any other in evenly dispersing and applying liquid throughout the tube system.
- **No drift** – Fluid is placed directly into the furrow or soil to reduce and eliminate drift.
- **Increased Safety** – No nozzles or orifices to adjust or unclog, reducing exposure to products.
- **Versatile** – System adjusts to liquids of various viscosities – and can even apply more than one product at once.
- **Custom Configuration** – Each system is tailored for the individual implement. Just provide the specifics of your equipment and needs and we'll custom design a system for your needs.
- **Ease of Use** – Just fill the supply tanks, start the system and begin planting, cultivating or tilling.

OZ/MIN/ROW

Tube Color	Tubing Size	15 PSI	20 PSI	25 PSI	30 PSI
BLACK	.156 x .035	0.07	0.14	0.20	0.30
GREEN	.156 x .050	0.17	0.40	0.70	1.10
YELLOW	.156 x .060	1.00	1.50	2.00	2.50
NAVY BLUE	.156 x .080	2.00	3.40	4.90	5.40
BROWN	.156 x .088	3.70	5.40	7.10	8.80
BLUE	.250 x .100	7.40	8.80	12.80	16.90
GREEN	.250 x .110	13.50	17.70	22.00	25.40
TAN	.250 x .125	16.90	22.00	26.40	30.40
ORANGE	.250 x .150	27.00	32.10	37.20	43.90
YELLOW	.250 x .170	37.20	47.30	57.50	67.60
BLACK	.250 x .187	60.80	71.00	84.50	101.40



SPRAY GUNS



John Bean 785 Spray Gun

- 800 PSI, 48 GPM
- Heavy duty tall tree gun
- Adjustable from fine spray mist to a solid stream by a simple twist of the wrist

Part#	Descriptions
5253228	785 Gun

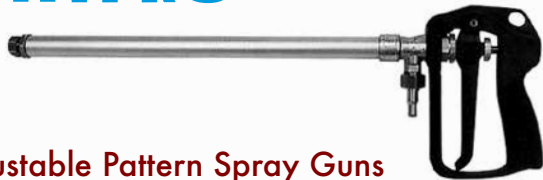


Adjustable Pattern Spray Guns

The adjustable spray pattern guns are ideal for chemical spraying, wash down and other applications where adjusting between stream and cone spray patterns up to 1200 PSI and 30 GPM are needed.

- Max. PSI: 1200
- 1/2" MNPT
- Adjust pattern from stream to cone

Part#	Length	GPM
3381-0010	17"	25
3381-0011	22"	30



Adjustable Pattern Spray Guns

The 3381-0043 and 3381-0043L adjustable pattern spray gun offers a universal solution to managing property boundaries, pest control and many other applications where adjusting between stream and cone spray patterns up to 600 PSI and 4.5 GPM is needed.



Part#	Length
3381-43	7-1/4"
3381-43L	22"



Hamilton Super-Jet Trigger Gun

The Super-Jet Trigger gun provides a pattern from hollow cone to straight stream. Shut off at the nozzle allows dripless operation for making this gun ideal for use with popular burnout chemicals. The gun is most popular with ATV operators and estate sprayers. With a length of 22", a locking handle and a pressure rating of 800PSI, it can handle all of your spraying needs.

Part#
1700-02-022
1700-00-500 (Repair Kit)

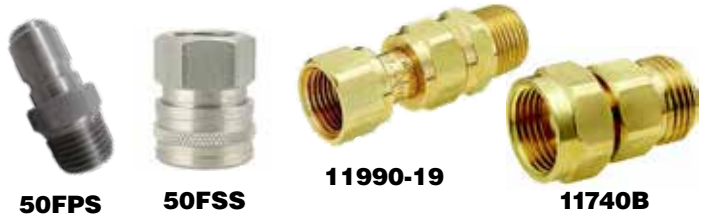
JD9C Spray Gun

The JD9C is a heavy duty spray gun adjustable from fine fog to long distance, or stream. The JD9C has a convenient trigger lock for continuous spraying and comes with a choice of 7 different interchangeable spray nozzles and tips.



- Drip-Free shut-off
- Convenient trigger lock for continuous spraying.
- Maximum 1000 psi.
- Adjustable from fine fog to long distance pencil stream.
- Weight: 3 lbs.
- Most greenhouse growers choose the small nozzle.

Part#	Descriptions
38500	JD9C Gun



Foster Stainless Steel Quick Couplings

Part#	Description
50MPS	1/2" Male Thread - Plug
50FPS	1/2" Female Thread - Plug
50FSS	1/2" Female Thread - Socket

Brass Swivel

Part#	Description
11740B	M GHT x F GHT
11740B-GHX34	3/4" MPT x F GHT
11990-19	1/2" MPT x FPT



Lawn Spray Gun

- Maximum operating pressure of 200 PSI
- Made of Nylon with Viton® O-rings and stainless steel springs.
- Interchangeable nozzle tips are color-coded for easy identification of nozzle tip size.
- Nozzle tips provide a 45° full cone “shower-head” spray pattern.
- Trigger lock for continuous spraying.
- Options available: hose shank swivel for inlet connection and extension wand and adapters for low-volume and spot spraying.

Part#	Descriptions
25660	Lawn Gun



TriggerJet Spray Guns

This gun is lightweight, designed for use with a backpack, canister or other low-pressure sprayers. The TriggerJet is made of molded polypropylene for excellent chemical resistance and durability.

- 3/8" Hose barb inlet
- Trigger lock permits locking gun in an open position for continuous flow
- Max operating pressure of 100 PSI
- Approximate max hose O.D: 1/2"
- Polypropylene strainer located inside handle to prevent tip clogging



Part#	Description
50800-15-PP-406	15" Poly Extension Spray Gun
50800-21-AL-406	21" Aluminum Spray Gun



Aluminum Spray Gun

- 24" Aluminum spray gun is a natural for spot spraying, livestock, fence rows and trees.
- Adjustable from hollow cone to stream
- 3/4" GHT standard

Part#	Size
AA2-AL45	24"



TriggerJet Spray Gun

- Maximum pressure rating is 150 PSI
- Adjustable ConeJet Spray tip
- Trigger lock permits locking gun in an open position for continuous flow
- Accepts all standard spray tips and strainers

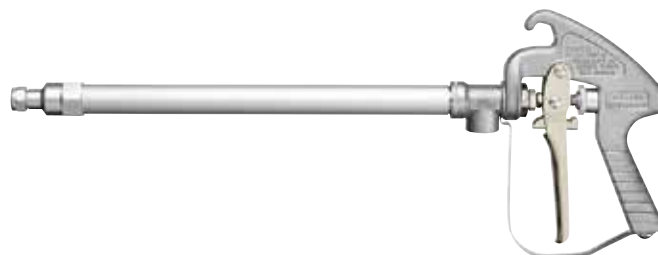
Part#	Description
22670-PP-15-1/4	15" Spray Gun
22670-PP-24-1/4	24" Spray Gun
CP22673-PP	Replacement Elbow
5500-PPB-X8-VI	Replacement Adj Nozzle

Spraying Systems Aluminum Spray Gun

Quality designed and built for heavy duty service. Stem extends through extension to valve seat located directly behind orifice disc for drip free shutoff and instant operating response. Convenient trigger lock for continuous spraying.

- Up to 800PSI pressure range
- Up to 22"

Part#	Description
AA43LA-AL6	13" Length 200 PSI
AA43LA-AL10	13" Length 200 PSI
AA43HA-AL6	13" Length 800 PSI
AA43L-AL6	22" Length 200 PSI
AA43H-AL6	22" Length 800 PSI



CALIBRATION CONTAINERS & FOAM MARKER



Measuring Pitcher

Use these calibration containers to check for worn out tips.

Part#	Size
FJ100	32 oz.
FJ200	64 oz.
FJ400	128 oz.



LM1400

- 14 gallon poly tank
- Aproximately 2.5-4.75 hours of marking
- 16" tall, 34" x 16.5"
- Thomas air compressor and Shurflo pump
- Max amperage draw: 15 amps

Includes: 200ft of tubing, 25ft harness, switchbox and two premium foam mixing chambers

\$1,257.60

- Call for More Sizes and Options Available -



Foam Marker Parts

Part#	Description
CH200NO	Boot for 2" Hose
916EA	Boot for 1 1/4" Hose
929EA	Cloth Bags
SJ000	Green Poly Bags

GPI Calibration Container

This 5 gallon Calibration Container is ideal for calibrating herbicide meters. It is molded from polyethylene for durability. Lightweight and easy to use, it is calibrated at the factory.



Part#
116000-1

Foam Concentrate

- Built in softener
- 100-1 concentrate
- Long lasting foam
- Economical
- Works great in cold or hot weather



TUFF TRAX Foam Concentrate is a superior foam marker, a unique blend of ingredients for producing thick, long-lasting foam. TUFF TRAX has been formulated to work over a wide range of water hardness, mineral content and impurities.

Tuff Trax is not approved in California or intended to be used in California with a pesticide product or pesticide spray mixture, and cannot be used as a spray adjuvant.

Product Benefits:

- Produces thick, long-lasting foam
- Works with a wide range of water conditions in agriculture, commercial and industrial use
- This easy-to-use product ensures accurate spray application and eliminates unnecessary field skips

Part#	Description
TUFF TRAX	1 Gallon

Skymate has a convenient jackknife design allowing more precise wind speed and temperature measurements. The users hand is distant from the wind impeller and temperature sensor resulting in undisturbed air flow. Skymate is water resistant and has a high-visibility case.

FEATURES	WM10	WM20	WM30
WIND SPEED	X	X	X
MAX WIND SPEED	X	X	X
AVG WIND SPEED	X	X	X
TEMPERATURE		X	X
WIND CHILL		X	X
RELATIVE HUMIDITY			X
DEW POINT			X



Simple and compact, the Kestrel 1000 Handheld Wind Meter fits right in the palm of your hand and weighs a mere 2.29 ounces (65 grams). It's also extremely durable and completely waterproof, allowing you to measure wind speeds even in the harshest weather conditions. The Kestrel 1000 can easily be switched between mph, km/h, ft/min, m/s, knots and Beaufort. A hard slide-on protective case, lanyard, and lithium battery are included.

ENVIRONMENTAL MEASUREMENTS

- Current Wind Speed
- Maximum Wind Gust
- Average Wind Speed

Part#

KESTREL-1000



The Kestrel 2000 Hand Held Weather Meter is a perfect companion of any outdoor enthusiast that relies on knows either wind speed, temperature, or both! Capable of measuring the air temperature, the waterproof Kestrel 2000 can also measure the temperature of water or snow. Simply dip the meter in water or snow for 30 seconds to know just how cold it is before jumping in. A hard slide-on case, lanyard, and battery are included and the Kestrel 2000's backlight allows you to check the measurements even in the darkness.

ENVIRONMENTAL MEASUREMENTS

- Current Wind Speed
- Maximum Wind Gust
- Average Wind Speed
- Temperature (Air, Water, & Snow)
- Wind Chill

Part#

KESTREL-2000



AVAILABLE DATA

1. Wind Speed (Average)
2. Wind Speed (Lull)
3. Wind Speed (Gust)
4. Wind Direction
5. Temperature (Dry Bulb Temperature)
6. Wet Bulb Temperature
7. Delta-T
8. Atmospheric Pressure
9. Humidity
10. Dew Point
11. Wind Chill
12. Heat Index
13. Feels Like
14. Air Density



WeatherFlow



WeatherFlow Weather Meter

Use the WeatherFlow WEATHERmeter and your smartphone to capture accurate location-specific weather conditions and report the data instantly to farm managers. Make sure weather conditions comply with regulations before spraying.



Part#

WFANO-02

- SPRAY DRIFT MONITORING
- IRRIGATION MANAGEMENT
- .CSV DATA EXPORT
- ADD TANK MIX & SPRAY NOTES
- FREE MOBILE APP



WEATHERmeter



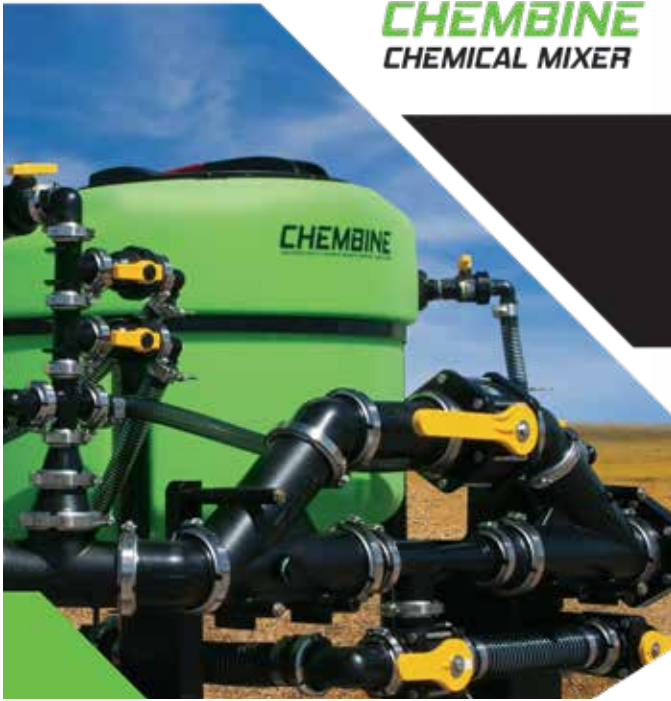
Hand Held Wind Meter

This direct reading hand held wind meter will give you instant readings. Hold meter at eye level, back of unit to wind. White ball in tube indicates wind speed. Meter has two scales for maximum accuracy and easy reading.



Part#

89001D



CHEMBINE CHEMICAL MIXER

SAVING TIME & EFFORT!



Shown with Expansion Kit: Adds 3 x 1" tote lines and a 1" magnetic banjo flow meter

Part#	Description
26003-83	75 Gallon Tank 2" Plumbing
26002-42	75 Gallon Tank 3" Plumbing

- More Information and Videos at fairbankequipment.com -

PLUMBING
Available in two sizes:
New 2 inch and 3 Inch.

KNIFE BLOCK
Design provides a more efficiently shaped cut requiring less effort, faster & more complete drainage/rinsing as well as easier removal of the jugs.

CHEMBINE Chemical Mixer

This new product by Free Form Plastics, with several Patent Pending designs, is a cutting-edge way of mixing and blending chemicals for your agricultural needs. The CHEMBINE incorporates all the features of a typical chemical mixer plus adds some user-friendly features while dramatically improving many areas. Visit this product on our website to see videos and more information.

Features:

- 2 x Agitator Jets
- 4 x Vertical Ribs
- 1 x Rotary Rinse Nozzle
- 1 x 2" Tote Connection
- Knife Block
- Secure Hinged Lid
- Frame legs drilled for mounting

Banjo Manifold Inductor Assembly

Draws wettable powders from inductor tank for chemical mixing. Installed after pump, suction completely empties inductor tank. This system keeps tank free of chemicals and can be installed with inductor tanks upon request.



HV200

MHV220A

Part#	Description
MIS220HBA	2" Manifold Inductor System
MIS300A	3" Manifold Inductor System
HV200	2" MPT Venturi
MHV200	2" Manifold Venturi w/1-1/2" port
MHV220A	2" Full Port Manifold Venturi

Fairbank Equipment Chemical Inductor

Quickly mix wet or dry chemicals and deliver them to your sprayer tank without the chemicals ever touching your pump with this inductor tank system.

The Fairbank Equipment Chemical Inductor Systems are already assembled with 2" or 3" plumbing. Simply place the chemical inductor tank on the pressure side of your transfer pump between the pump and the sprayer tank so that the venturi can create suction. Most popular sizes are 15, 30, or 60 gallon tanks with sturdy iron stands and Banjo manifold plumbing. Choose to add the patented Chem-Blade which opens, empties, and rinses pesticide containers with speed and efficiency.



- Call for More Sizes and Options Available -

Part#	Description
FB-INDUCTOR-15-MAN-2	15 Gallon Tank 2" Manifold Fittings
FB-INDUCTOR-15-MAN-3-BLADE	15 Gallon Tank 3" Manifold Fittings w/Chem-Blade
FB-INDUCTOR-30-MAN-2	30 Gallons Tank 2" Manifold Fittings
FB-INDUCTOR-30-MAN-2-BLADE	30 Gallon Tank 2" Manifold Fittings w/Chem-Blade
FB-INDUCTOR-30-MAN-3	30 Gallons Tank 3" Manifold Fittings
FB-INDUCTOR-30-MAN-3-BLADE	30 Gallon Tank 3" Manifold Fittings w/Chem-Blade
FB-INDUCTOR-60-MAN-3	60 Gallon Tank 3" Manifold Fittings
FB-INDUCTOR-60-MAN-3-BLADE	60 Gallon Tank 3" Manifold Fittings w/Chem-Blade

Jet Rinse Triple Rinsing Nozzle

Rinsing nozzle makes triple rinsing easy. Simply attach it to a garden or nurse tank hose. Its sharp point will puncture the side or bottom of plastic or metal containers.

- Made in the USA
- Overall length 10"



Part#
JR24

Penberthy Eductors

Penberthy Tank Mixing eductors offer increased agitation of liquids in tanks to reduce settling. They are molded in one piece for strength.



Part#	Size
TME-34	3/4" Poly
TME112	1 1/2" Poly
TME200	2"



DC-Seed Treater

Pricing includes 15 gallon cone bottom tank with relief valve and plumbing.

Description

12 Volt Pump
(110 volt option available)



Chem-Blade



No more need to open jugs and bags by hand or with your pocket knife. Simply press them on to the chem-blade inside of your inductor tank to empty your container fast and safely! Finish the process by supplying water pressure to quickly but thoroughly rinse the container.

- Reduce skin/chemical contact
- No waste of costly chemicals
- Fits in any 16" lid tank



LB601

AMMONIA

More from Your NH₃ Applications

Raven has raised NH₃ application technology to new levels of performance by adding AccuFlow HP™ (high performance) to its AccuFlow™ line. The new Patent Pending AccuFlow HP system is uniquely designed with unrivaled capacity, the kind you need to run at higher speeds and colder temperatures than ever before. Pared with your Raven control system, AccuFlow and AccuFlow HP super cooling NH₃ technology gives you superior accuracy and control over your applications for higher yields, less waste and lower input costs. It's that simple. **Dual cooler units available for high rates**



AccuFlow

- Six-section NH₃ control with Raven's AccuBoom and Switch Pro automatic on-off and VRA section control technology for maximum savings, efficiency and performance.
- Your choice of valve options to match your farming needs and budget.
- Two-valve option for maximum precision and performance- one valve opens/closes the system and the other controls the flow rate. Ideal for variable rate applications.
- Single fast-valve option for a lower cost alternative with trusted savings and precision.
- Convenient cooler disassembly for easier cleaning and maintenance, long life, and superior performance and reliability.
- NH₃ monitoring options in gallons or pounds per acre for your preference/situation
- Space-saver plumbing kits for both the two-valve and fast-valve systems for added convenience when space is limited.

AccuFlow HP Plus (High Performance)

- Industry-first variable speed pump for incredible efficiency, tractor power savings of up to 10 horsepower, and less wear and tear on your system.
- Advanced system design for running at faster application speeds and colder temperatures, and delivering faster, industry-leading ROI!
- Nearly double the system capacity for taming the heaviest, most demanding situations.
- Super cooler technology for maintaining the right temperature for more precise NH₃ metering and application.

SCS450

The SCS450 monitor provides a variety of data including volume left in tank, total area worked, total volume applied, field area, field volume, vehicle speed, distance traveled, area worked per hour, and gallons per minute. Optional GPS compatibility. Set your application rate and the SCS450 automatically maintains that rate throughout your entire job regardless of changes in speed or terrain.

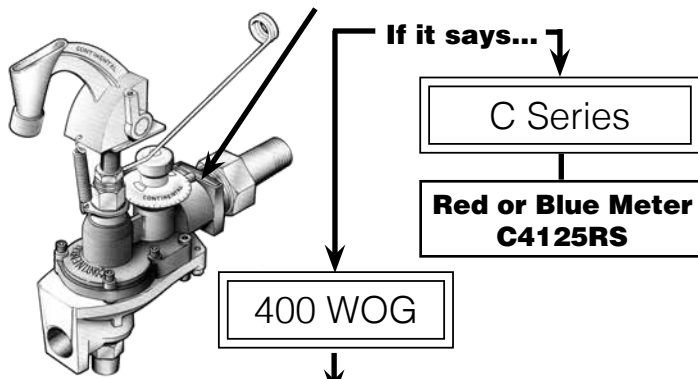
The Accu-Flow 30gpm Two Valve System is the ultimate in accurate application of NH₃!

METER MATIC REPAIR KIT & HYDRAULIC AMMONIA VALVES

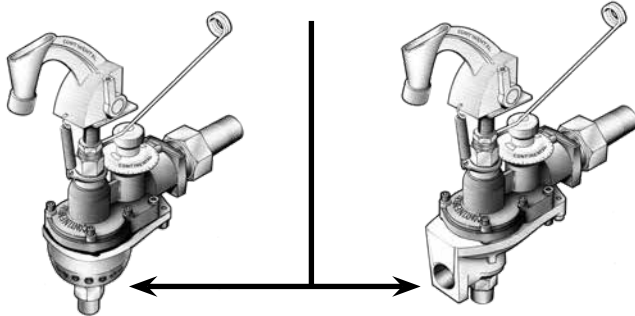
VALVES

Which Repair Kit Do I Need?

Check this rectangle on your meter.

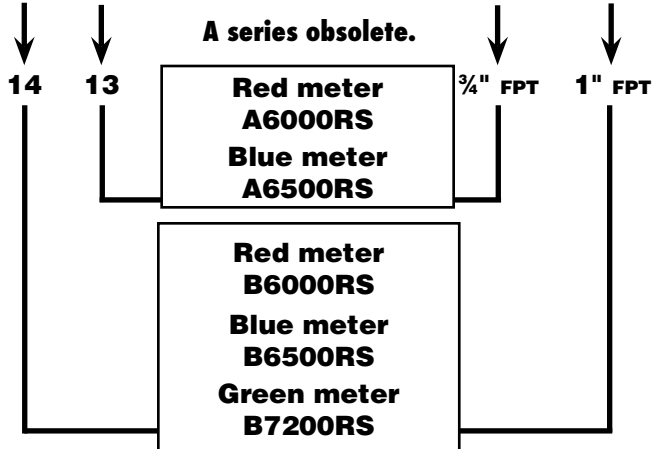


Which outlet style is like yours?

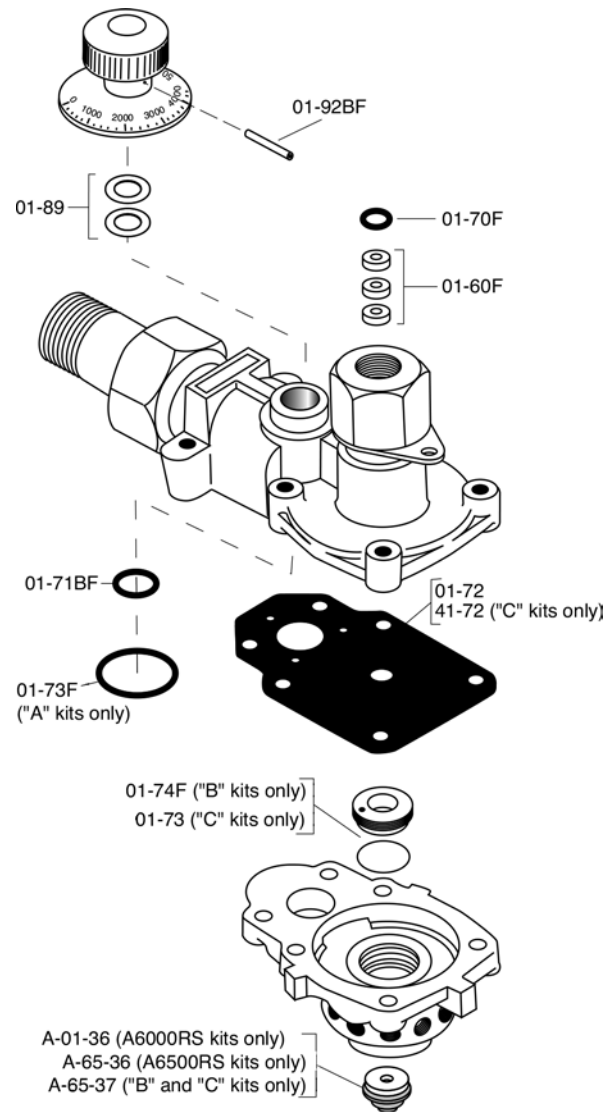


How many holes?

What size outlet?



What Is In A Repair Kit.



Continental R9590 Hydraulic Shut Off

R9590 Hydraulic in-line rotary actuator is designed to be mounted in front of any NH₃ metering device. Uses standard 1/4" ports for easy integrating into hydraulic system. The R9590 uses a rotor actuated ball valve insuring a long and maintenance free life.



Part#	Description
R9590	1" Valve
R9590B	1 1/4" Valve
R9590RK	Repair Kit

Continental R6572 Hydraulic Actuator

R6572 Hydraulic rotary actuator is designed to be mounted on top of any A,B or C series meter matic. Features standard 1/4" ports, indicator flag and corrosion resistant stainless steel rotor.

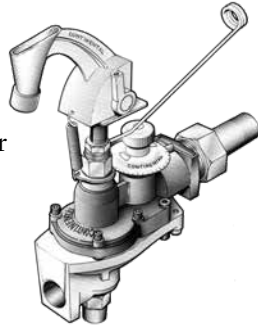


Part#	Size
R6572	Actuator
R6572RK	Repair Kit

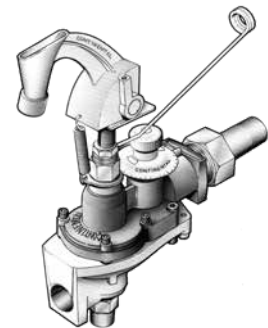
NOTICE: See the manufacturers recommendation for installation

C2503-RPR
Red Meter

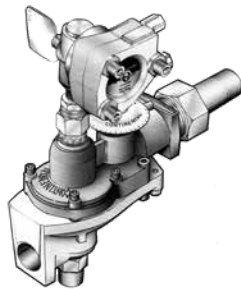
- 2500# of Nitrogen per hour at 100# tank pressure
- 1" female outlet
- Rope pull on / off

**C4103-RPR**
Blue Meter

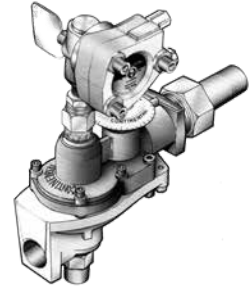
- 250-4100# of Nitrogen per hour at 100# tank pressure
- 1" female outlet
- Rope pull on / off

**C2503-6572**
Red Meter

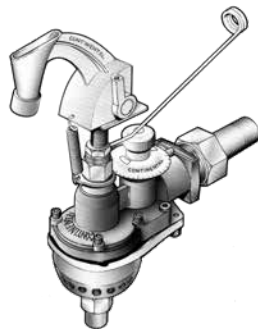
- 2500# of Nitrogen per hour at 100# tank pressure
- 1" female outlet
- Hydraulic Actuator on / off

**C4103-6572**
Blue Meter

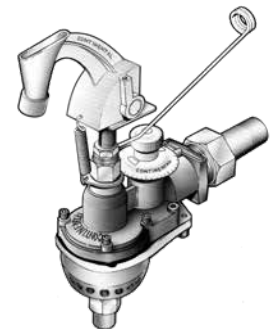
- 250-4100# of Nitrogen per hour at 100# tank pressure
- 1" female outlet
- Hydraulic Actuator on / off

**C2500-RPR**
Red Meter

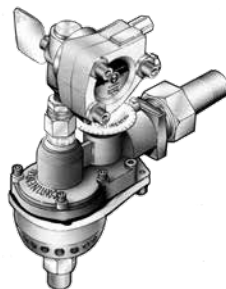
- 2500# of Nitrogen per hour at 100# tank pressure
- (14) 1/8" female outlets
- Rope pull on / off

**C4100-RPR**
Blue Meter

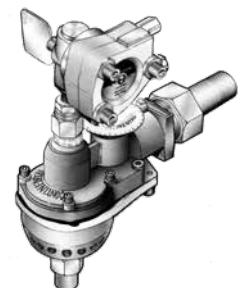
- 250-4100# of Nitrogen per hour at 100# tank pressure
- (14) 1/8" female outlets
- Rope pull on / off

**C2500-6572**
Red Meter

- 2500# of Nitrogen per hour at 100# tank pressure
- (14) 1/8" female outlets
- Hydraulic Actuator on / off

**C4100-6572**
Blue Meter

- 250-4100# of Nitrogen per hour at 100# tank pressure
- (14) 1/8" female outlets
- Hydraulic Actuator on / off



The "C" series meters offer improved accuracy, greater ability to interchange components, and easier means of setting. Critical metering parts are computer designed and machined to improve accuracy of NH₃ application. With only two exceptions, all components are interchangeable between the C-2500 and C-4100 series meters.

CONTINENTAL METER MATIC

- Maximum flow capacity of 6500# Nitrogen per hour at 100# tank pressure
- Rotary Hydraulic Actuator
- Single dial setting - Calibrated in lbs. N per hour
- Easy seal gasket type inlet union
- Universal mounting bracket (Adaptable to most meter stands)
- Heat treated, durable, light weight aluminum body
- Big, low resistance, in-line strainer
- Unique, straight-bore flow. Virtually no restriction
- Many years of virtually maintenance free service life
- Full one year warranty on materials and workmanship
- 1/4" MPT inlet

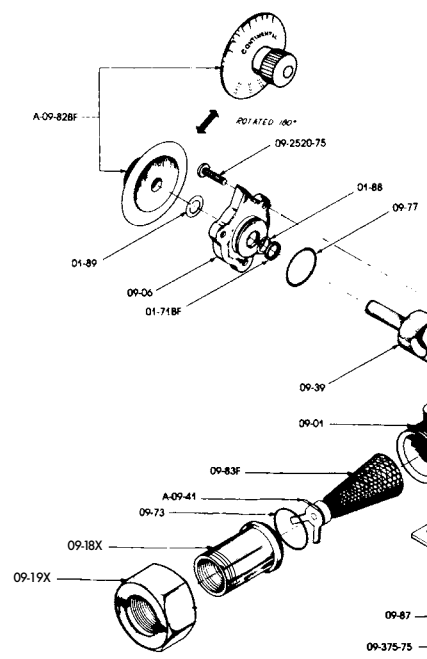
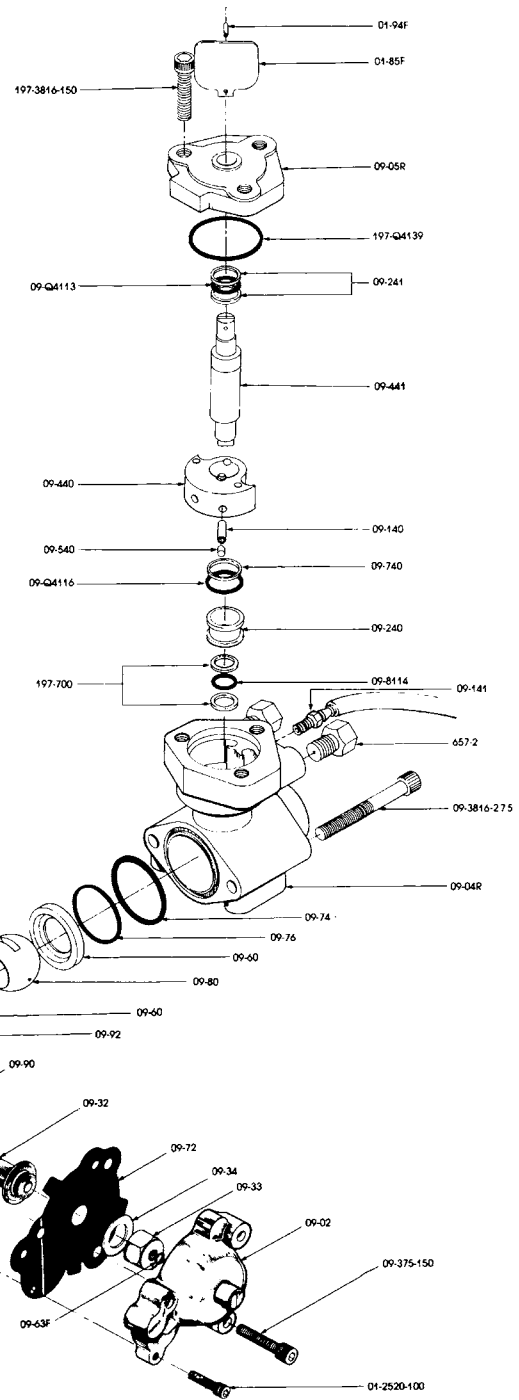


Part#

B-9500

REPAIR KITS

Part#	Description
B9500RS	Meter Only
R9590RK	Hyd. Shutoff Only





John Blue Impellicone Manifold

The John Blue Impellicone is a flow divider designed for Anhydrous Ammonia (NH₃). It distributes NH₃ to multiple rows across an applicator with accuracy and flexibility. The John Blue Impellicone can be used for all NH₃ applications at normal rates, while also offering the flexibility to plug unused outlets without sacrificing accuracy.

Part#	Outlets	Size
IP-0600	6	1/4"
IP-1300	13	1/4"
IP-1800	18	1/4"



John Blue Impellicone Splitter

Part#	Outlets	Size
IPS-2-4	4	1"
IPS-2-6	6	1"



John Blue Manifold Mount

Part#
113989



Squibb EquiFlow Variable Orifice Manifold

The EquiFlow has tremendous flexibility. There are only two models. The A1804 has 21 outlets and the A1805 has 16 outlets. Each model can be plugged down to a fewer number of ports as long as the plugging is reasonably symmetrical the performance is not affected. Because the control ports are actually long slots, a high back pressure can be set relative to tank pressure REGARDLESS of whether you are distributing 75 or 250lbs of NH₃ per acre. If more than one Equa-Flow is needed on your toolbar, simply add an EquaFlow 2 or 3 way splitter and adjust each manifold to the same setting so the back pressures are equal.

Part#	Outlets	Size
111665	16	1/4"
111670	21	1/4"
111660	3-Way	1/4"

CONTINENTAL A-MVD MANIFOLDS

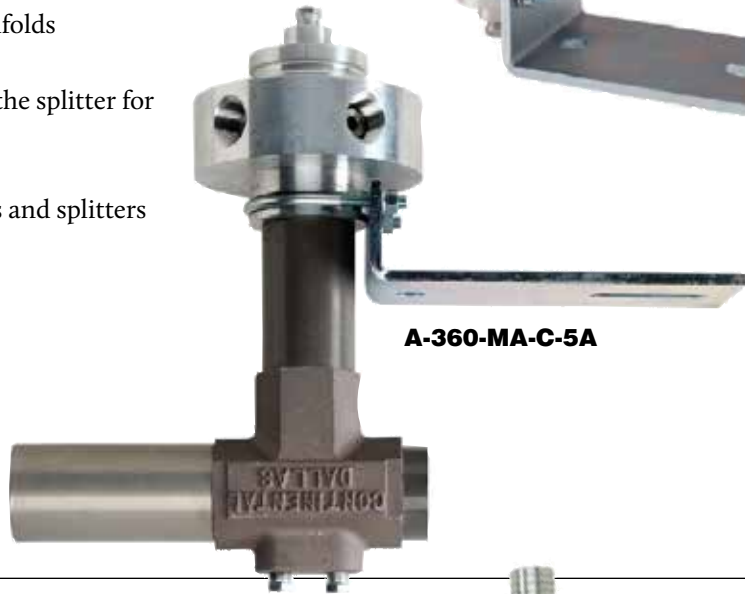
A-360

This manifold system is a complete turnkey design that includes splitters and manifolds made to your exact application needs. With accuracies as close as three percent to your target rate you can rest easy. The patented step down injector technology mixes and accelerates the ammonia into an upper chamber, the tee, and the lower manifold chamber. These key features mix the vapor and liquid so each outlet gets an equal amount of both to get an even distribution of the ammonia. Each manifold is custom built to your needs, no plugging necessary. If you need the best in ammonia distribution look no further. Try the new A-360 manifold system, you won't be disappointed.

- Manifold outlets available from 3-16 outlets
- Includes mounting hardware
- Includes stainless steel hose barbs on manifolds
- Can be mounted upside down
- Interchangeable stainless steel orifices on the splitter for different rates
- As close as 1 to 3 percent of target rate
- Pressure gauge port included on manifolds and splitters
- Splitter outlets available from 3-10 outlets



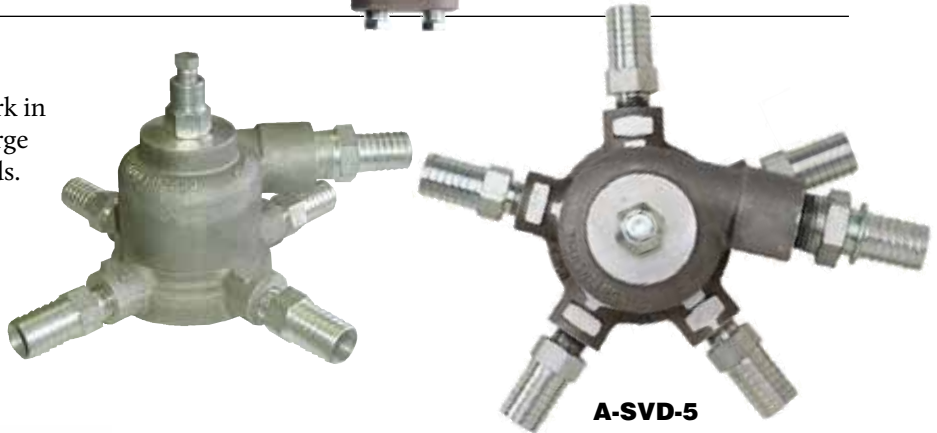
A-360-MA-C-6A



A-360-MA-C-5A

A-SVD Flow Divider

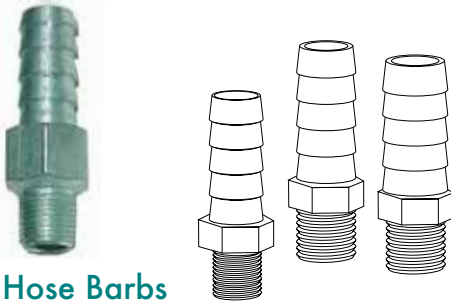
This flow divider is designed to work in conjunction with the A-MVD on large tool bars requiring 3,4 or 5 manifolds. Please specify number of outlets when ordering.



A-SVD-5

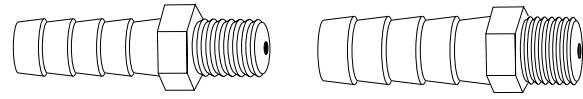


Part#	Outlet Size	Outlets	Material
A6006B	1/4"	14	Cast Iron



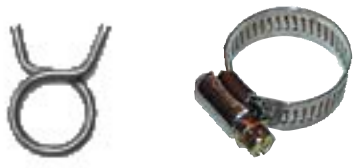
Steel Hose Barbs

Part#	NPT	Hose Barb
A6132	1/8"	3/8"
A94A	1/4"	3/8"
A1412S	1/4"	1/2"



Steel Orificed Hose Barbs

Part#	NPT	Hose Barb	Orifice
A6132-2	1/8"	3/8"	#2
A1132-2	1/4"	3/8"	#2

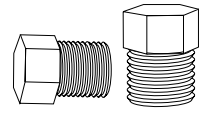


Clamps

Part#	EVA Size	Type
A10	3/8"	Pinch
MH6	3/8" and 1/2"	Worm

Steel Plugs

Part#	NPT
18PS	1/8"
14PS	1/4"



Squibb Roto-Seal Hose End Swivel

Protects your Hose and Valves

The Rotoseal increases freedom of movement to make attaching or disconnecting hose end valves easier. It also prevents twisting of the hose.

- Double sealed radial ball bearings
- Full flow
- 400 PSI working pressure
- 5 year warranty
- TFE pressure core seal

Part#	Size	Rep. Kit
AL109	1"	109-22
AL111	1 1/4"	111-22



Quick Acting Valves

Part#
A7708L (1")
AL361 (1 1/4")

Minimum Bleed Valve

Part#
A7797 (1")
AL362A (1/4")

Quick Jaw Valve

Part#
AL363 (1")
AL366S (1/4")



A7505AP

RegO Globe Valves

RegO has a reputation for quality unmatched in the industry. All valves have a 1/4" plugged opening for hydrostat relief valve or bleeder valve.

Part#	Size	Rep. Kit
A7505AP	3/4"	A7505-50
A7507AP	1"	A7507-50
A7509BP	1 1/4"	A7509-50
A7511AP	1 1/2"	A7511-50
A7513AP	2"	A7513-50
A7517AP	3"	A7515-50



AL310P

Squibb Globe Valves

Squibb Valves have a self-aligning seat disc that rides against stainless steel bearings.

Part#	Size	Rep. Kit
AL308P	3/4"	308-0022
AL310P	1"	310-0022
AL312P	1 1/4"	312-0022
AL314P	1 1/2"	314-0022
AL316P	2"	316-0022
AL320P	3"	320-0022



A331P

Part#	Size	Material	Rep. Kit
A331	1 1/4" FNPT x 1 1/4" FNPT	Ductile Iron	330-22



A1350

Continental Globe NH3 Valve

Maximum flow efficiency makes the MAX-Flow valves ideal for use on nurse tank and field storage tanks. Features stainless steel stem and nylon seat in swivel poppet retainer.

Part#	Size	Rep. Kit
A1350	1"	A2212RK
A2525H	1 1/4"	A24RK
A2550	1 1/2"	A25RK
A2700	2"	A26RK



A7514AP

RegO Valves

RegO has a reputation for quality unmatched in the industry. All valves have a 1/4" plugged opening for hydrostat relief valve or bleeder valve.

Size	Angle	Rep. Kit
3/4"	A7506AP	A7505-50
1"	A7508AP	A7507-50
1 1/4"	A7510BP	A7509-50
1 1/2"	A7512AP	A7511-50
2"	A7514AP	A7513-50
3"	A7518AP	A7515-50



AL317P

Squibb Valves

Squibb Valves have a self-aligning seat disc that rides against stainless steel bearings.

Size	Angle	Rep. Kit
3/4"	AL308P	308-0022
1"	AL311P	310-0022
1 1/4"	AL313P	312-0022
1 1/2"	AL315P	314-0022
2"	AL317P	316-0022
3"	AL321P	320-0022



A1527

End	Size	Material	Rep. Kit
A1525	1 1/4" FNPT x 1 3/4" Female Acme	Ductile Iron	330-22
A1527	1 1/4" FNPT x 2 1/4" Female Acme	Ductile Iron	330-22
A1529	1 1/2" FNPT x 2 1/4" Female Acme	Aluminum	333-22



A1250

Continental NH3 Valve

Maximum flow efficiency makes the MAX-Flow valves ideal for use on nurse tank and field storage tanks. Features stainless steel stem and nylon seat in swivel poppet retainer.

Size	Angle	Rep. Kit
3/4"	A1275	A2212RK
1"	A1250	A2212RK
1 1/4"	A2425	A24RK
1 1/2"	A2450	A25RK
2"	A2600	A26RK

EMERGENCY VALVES



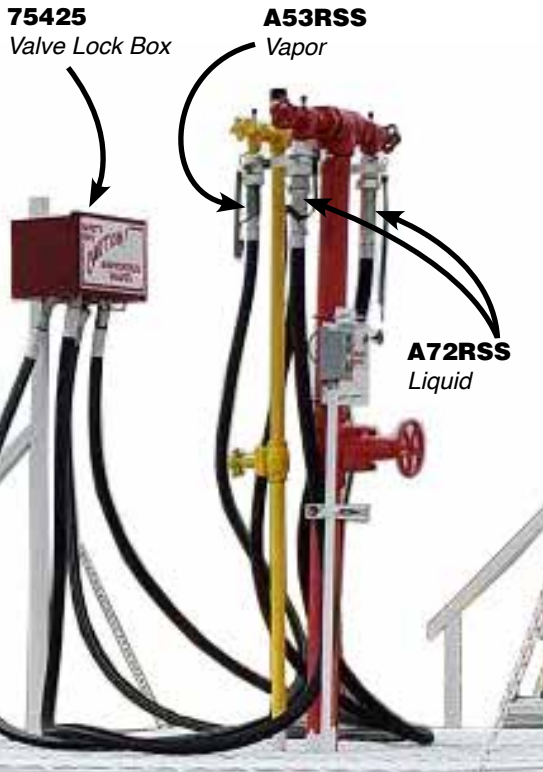
RegO ESV Valve

Part#	Description
A6010	1¼" ESV Valve
A6016	2" ESV Valve
A6024	3" ESV Valve
6016TFA	Plunger Assembly

Continental Emergency Shutdown Valve

The A-JJ2L two inch swing valve and the A-JJ2V 1¼" shutoff valve meet the American National Standards ANSI K61-1 and the Compressed Gas Association CGA-G-2.1 requiring all stationary storage installations to have an emergency shutoff valve to be shutdown in case of an emergency from any direction, maximizing the opportunity for a quick and safe shutdown.

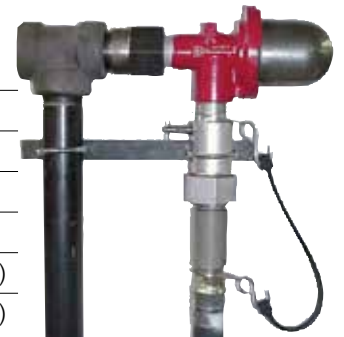
Part#	Description
A-JJ2L	2" FPT in/out ESV External
A-JJ-2L-RK	Valve Kit
A-JJ2V	1¼" FTP in/out ESV External Includes 25' Cable
A-JJ-2V-RK	Valve Kit



A-RSS, protects your riser from accidental pull-aways by incorporating a shear device that breaks when someone accidentally drives away while the filler hoses are still attached to the anhydrous ammonia tank. Not one failure has ever been reported since its introduction.

ARSS Safety Coupling

Part#	Description
A53RSS	1"
A72RSS	1¼"
53RSS	Shear Only 1"
72RSS	Shear Only 1¼"
RSS-2127	O-Ring for 53RSS (2 needed)
RSS-N70224	O-Ring for 72RSS (2 needed)

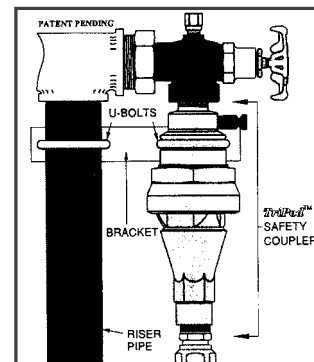


Squibb-Taylor Tripod Safety Coupling

Squibb TriPod Safety Coupling prevents damage to riser piping and the nurse tank hose or valves.

Part#	Description
113056	1" 77gpm Vapor Coupler
113059	1¼" TP-7 1000 126gpm

113056



VAPOR/LIQUID VALVES

Liquid/Vapor Valves



Rego
A8016DP



Squibb
A525P
(Old #: A1590KP)



Continental
A1201

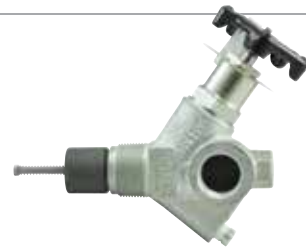


Continental
A1204E (1')
A1204-Acme

Liquid Withdrawal Valves



Rego
A8017DP



Squibb
A521P
(Old #: A1598P)



Squibb
A520R
(Old #: A1597R)



Cont.
B1206E

Metal Valve Lock Box



Part#	SIZE
70174S	2" Valves
70175S	3" Valves

Metal Valve Lock Box

75425 18"x 10½"



RegO Nurse Tank Valve

Part#	Size
A8012D	1½" x 1¼"



Continental Nurse Tank Valve

Part#	Size
A1507F	1½" x 1¼"



Squibb Taylor Nurse Tank Valve

Part#	Size
A480N-60	1½" x 1¼"



Plastic Locking Valve Caps

Valve locking caps prevent tampering with tank valves by unauthorized personnel.



Part#	Description
VAL2	¾" to 2" Valves
VAL3	3" Valves

VALVES & REPAIR KITS



A1625



A215L



A1406G

Part#	Out	Tank Inlet
A1406F	1 1/4"	1 1/4"
A1406G	1 1/4"	1 1/2"
A1507F	1 1/4"	1 1/2"
A1507G	1 1/2"	1 1/2"
A1507GA	2 1/4"	1 1/2"

Special Continental Valves

A1625 Compact 1/4" Globe Valve

A215L High Flow 1/4" Valve with acme couplings



A8020D

RegO Valves

Part#	Size
A7550P (no excess flow)	3/4"
A7550PX	3/4"
A8020D	1 1/4" x 1"
A8012D	1 1/2" x 1 1/4"

Squibb RiserValves

Part#	Size
AR491NP-70	2" x 1" fpt
AR492NP-70	2" x 1 1/4" fpt
AR493NP-95	2" x 1 1/4" fpt

Repair Kits

Rego

Valves	Description	Kit#
A7505AP	3/4" Globe Valve	A7505-50
A7507AP	1" Globe Valve	A7507-50
A7508AP	1" Angle Valve	A7507-50
A7509BP	1 1/4" Globe Valve	A7509-50
A7510BP	1 1/4" Angle Valve	A7509-50
A7511AP	1 1/2" Globe Valve	A7511-50
A7512AP	1 1/2" Angle Valve	A7511-50
A7513AP	2" Globe Valve	A7513-50
A7514AP	2" Angle Valve	A7513-50
A7517AP	3" Globe Valve	A7515-50
A7518AP	3" Angle Valve	A7515-50
A8016DP	Nurse Tank Fill	A8016B-50
A8017DP	Nurse Tank Liquid Withdrawl	A8016B-50
A8018DP	Nurse Tank Combination	A8016B-50
A7707L	1" Quick Acting Globe	A7707-50
A7708L	1" Quick Acting Angle	A7707-50
A7797	1" Angle Minimum Bleed	A7797-50
A7797A	1" Angle Minimum Bleed	A7797-50

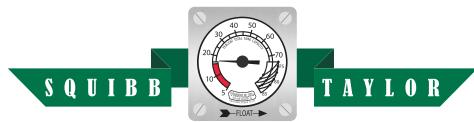
Continental

A1275	3/4" Angle Valve	A2212RK
A1375	3/4" Globe Valve	A2212RK
A1250	1" Angle Valve	A2212RK
A1350	1" Angle Valve	A2212RK
A2525	1 1/4" Globe Valve (Pre 1994)	A24RK
A2525-H	1 1/4" Globe Valve (Post 1994)	A25HRK
A2550	1 1/2" Globe Valve	A2550-H-RK
A2700	2" Globe Valve	A26RK

Valves	Description	Kit#
A1201	Nurse Tank Fill	A2212RK
A1204E	Nurse Tank Angle Liquid	A2212RK
A1206E	Nurse Tank Liquid Withdrawl	A2212RK
A1406F	Nurse Tank Liquid Withdrawl	A-25H-RK
A1406G	Nurse Tank Liquid Withdrawl	A-25H-RK
A1507F	Nurse Tank Liquid Withdrawl	A-25H-RK
A1507G	Nurse Tank Liquid Withdrawl	A-25H-RK
A1507GA	Nurse Tank Liquid Withdrawl	A-25H-RK

Squibb

AL308P	3/4" Globe Valve	308-0022
AL310P	1" Globe Valve	310-0022
AL311P	1" Angle Valve	310-0022
AL312P	1 1/4" Globe Valve	312-0022
AL313P	1 1/4" Angle Valve	312-0022
AL314P	1 1/2" Globe Valve	314-0022
AL316P	2" Globe Valve	316-0022
AL317P	2" Angle Valve	316-0022
AL320P	3" Globe Valve	320-0022
AL321P	3" Angle Valve	320-0022
A525P/A1590KP	Nurse Tank Fill Valve	310-0022
A522P/A1592KP	Nurse Tank Combination	310-0022 & 1105-0022 (FILL)
A520R/A1597KP	Nurse Tank Liquid Withdrawl	310-0022
A521P/A1598KP	Nurse Tank Liquid Withdrawl	310-0022
AL477EP	1 1/4" x 1" Riser Valve	310-0022
AL343P	1" Minimum Bleed Valve	342-0022
AL345P	1" Quick Acting Valve	344-0022
AL479R	1 1/2" x 1 1/4" Riser valve	480-0022



BREAKAWAY COUPLINGS

IB125 - 1 1/4" In-Line Breakaway Coupling



IB125

Features:

- Highest Flowing Breakaway Coupler On The Market.
- No Replacement Date.
- Internal Parts Have Tested Well With NH3 Additives.
- Ideal For Tandem Tanks Or Toolbars.
- Safe & Easy Installation — Mounts Between Two Hoses.
- Simple To Connect & Disconnect In The Field: No Tools Required.

IB125 - Riser Installation



VALVES



4500-6M

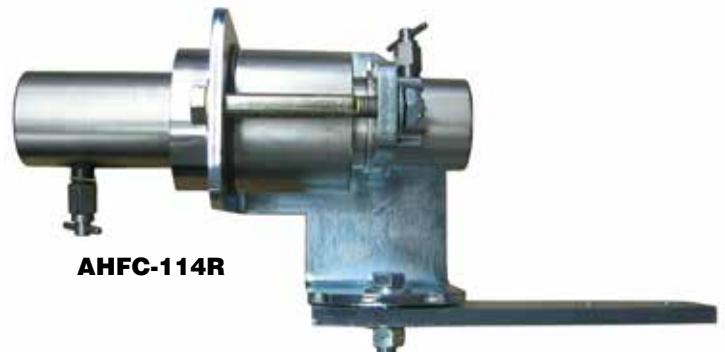
1" & 1 1/4" Pioneer Breakaway Couplings

Pioneer Breakaway Couplers are U.L. approved for anhydrous ammonia in accordance with OSHA Regulations. Poppet type valves assure positive shut-off. Manufacturer suggests removal after three years.

Part#	Description
4500-6	1" FPT Coupling
4500-6M	1 1/4" Male Acme
4500-7	1 1/4" Coupling

Repair for 1" Pioneer

Part#	Description
2-222	O-Ring
62-J-28	Back up Ring



AHFC-114R



Continental Tool Bar Coupler Breakaway

Continental's High Flow Coupling has no replacement date and two bleeder valves. It has a stainless steel expansion sleeve and HC Aluminum Guide for rust free service.

Part#	Size
AHFC-114R	1 1/4"

ACME ADAPTERS



Male Acme Threads X Male Acme Thread Adapters

Acme	Acme	Squibb	Continental
1 $\frac{3}{4}$ "	1 $\frac{3}{4}$ "	A2005S	A520
2 $\frac{1}{4}$ "	2 $\frac{1}{4}$ "	A2007S	
3 $\frac{1}{4}$ "	3 $\frac{1}{4}$ "	ME277S	



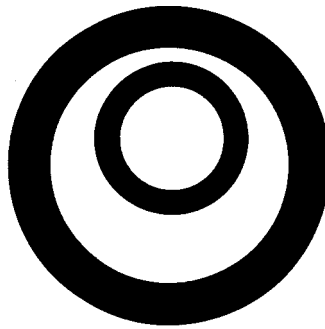
1 $\frac{3}{4}$ Acme Parking Plugs

Rego	Continental
A5764W	A524WB

Acme Gaskets and O-Rings

Size	Gasket
1 $\frac{3}{4}$ "	MSW-2
2 $\frac{1}{4}$ "	MSW-5
3 $\frac{1}{4}$ "	MSW-6

Size	O-Ring
1 $\frac{3}{4}$ "	216SEL
2 $\frac{1}{4}$ "	223SEL
3 $\frac{1}{4}$ "	231SEL



Acme Dust Caps

Part#	Size
22-63F	1 $\frac{3}{4}$ " Plastic, no Chain
2263-FC	1 $\frac{3}{4}$ " Plastic with Chain
3174-93	1 $\frac{3}{4}$ " Yellow Cap & Chain
A529C	1 $\frac{3}{4}$ " Steel with Chain
A535C	2 $\frac{1}{4}$ " Steel with Chain
A3194-90	3 $\frac{1}{4}$ " Steel with Chain



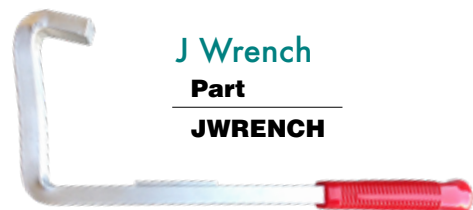
Plastic Acme Dust Plug

Size	Rego
1 $\frac{3}{4}$ "	C5765N
2 $\frac{1}{4}$ "	C5767N
3 $\frac{1}{4}$ "	ME181-1



Acme Spanner Wrench

Rego
3195-50



J Wrench

Part
JWRENCH



B522B

Female Threads X Female Thread

Part#	Pipe	Acme
B522	3/4"	1 3/4"
B522B	1"	1 3/4"



ST2004S

Acme X Acme Reducing Coupling

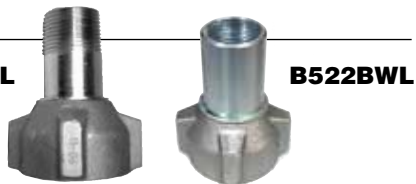
Male	Female	Part#
2 1/4"	1 3/4"	ST2004S



A5776

Acme X Acme Reducing Coupling

Male	Female	Part#
1 3/4"	3 1/4"	A5776
1 3/4"	2 1/4"	A582



B521BWL

B522BWL

1 3/4 Acme Coupling With Lug Handle

Part#	Pipe
B521BWL	1" MPT
B522BWL	1" FPT



B521B

Female Acme Threads X Male Pipe Thread

Pipe	Acme	Rego	Continental
3/4"	1 3/4"	A3175	B521
1"	1 3/4"	A3175A	B521B
1 1/4"	2 1/4"	A3185	A527
2"	3 1/4"	A3195	A551



A7575L3

Female Acme Threads X Male Pipe Thread Extended Safety Coupling

Acme	Pipe	Rego	Continental
1 3/4"	3/4"	A7575L3	A571
1 3/4"	1"	A7575L4	A577B
1 3/4"	1 1/4"		A577C
2 1/4"	1 1/4"		A577D
2 1/2"	1 1/2"		A577G



A577CLC

Locking Safety Coupling

Part#	Acme	Pipe
A577CLC	1 3/4"	1 1/4"

Male Acme Threads X Male Pipe Thread Adapters



Pipe	Acme	Rego	Continental
1"	1 3/4"	A5765E	A524B
1 1/4"	1 3/4"	A5765F	A524C
1 1/4"	2 1/4"	A5767F	A532
1 1/2"	2 1/4"		A533G
2"	3 1/4"	A5769H	A540
3"	3 1/4"	A5769K	A542



A2031 1"
Relief Valve Adaptor
Inlet: 1" MNPT
Outlet: 1" FNPT
Relief Outlet: 1/4" FNPT

Male Acme Threads X Female Pipe Thread Adapters



Pipe	Acme	Rego	Continental
1"	1 3/4"	A5764E	A525B
2"	3 1/4"	A5768H	A544



A2032 1 1/4"
Relief Valve Adaptor
Inlet: 1-1/4" MNPT
Outlet: 1-1/4" FNPT
Relief Outlet: 1/4" FNPT

RELIEF VALVES

1/4" Bleeder Valves

Used in valves and tanks.

Part#	Description
TSS3169	1/4" Bleeder Valve-T Handle
A410	1/4" Bleeder Valve with 12" Tube
A411	1/4" Bleeder Valve
A411-HB	1/4" Bleeder Valve w/Hose Barb
A1911SQ	1/4" Bleeder Valve with Knob



A411



A411-HB

Hydrostatic Relief Valves

Hydrostatic relief valves should be installed in piping whenever liquid may be trapped between shut-off valves. Hydrostatats include cap.

Size	Setting	Rego
1/4"	350	SS8001J
1/4"	450	SS8001U
1/2"	400	SS8002L
1/2"	400	SS8022L
1/2"	450	SS8002U
1/2"	450	SS8022U



SS8001J



SS8002L

8001-54	Cap For	SS8001
8002-54	Cap For	SS8002

Relief Valve Caps

For Hydrostats

Valve#	Dust Cap#
A400	400DC
A1327	A1325CAP
SS8001	8001-54
SS8022	8002-54

For Vapor Relief Valves

Valve#	Dust Cap#
A402VA	A402NDC
A1301A	P145
AA3130UA250	3131-54
AA3135UA250	AA3135-40PR
A1310A	A1310-12
A417A	A417DC

Nurse Tank Relief Valves

3/4" Relief valves are designed for use on nurse tanks and small applicator tanks.

Size	Setting	Rego
3/4"	250	AA3130UA250

Part#	Description
3131-54	Plastic Protective Cap
P145	Rubber Protective Cap w/ Ring



AA3130UA250

Storage Tank Relief Valves

Primarily for use on stationary storage tanks.

Size	Setting	Rego
1 1/4"	250	AA3135 UA250
1 1/4"	265	AA3135 UA265
2 1/2"	250	A3149G

Part#	Description
A417DC	Cap for A417A
AA3135-40PR	Cap for Rego AA3135UA250



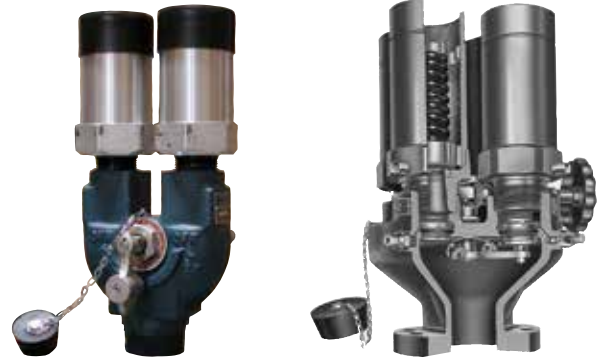
AA3135



A3149G

RegO Relief Valve Manifolds

The duoport and multiport® are designed for installation in NH₃ storage tanks. They offer continuous, uninterrupted service and provide greater safety. One relief valve may be removed and inspected at a time without the need to evacuate the container.



Start to Discharge Setting PSIG	Container Connection	Manifold Part Number	Relief Valves Included			Flow Capacity SCFM Air**	
			Quantity	Valve Part#	Inlet M. NPT	UL	
250	2" M. NPT	AA8542UA250	2	AA3135MUA250	1¼"	(1)5865	ASME
		AA8563G	3	AA3135MUA250	1¼"	(2)11,400	--
	A8563G	A3149MG		2½"	(2)18,500	***	
	3"-300#*	A8564G	4	A3149MG		(3)27,750	
		AA8573G	3	AA3135MUA250	1¼"	(2)11,400	--
		A8573G		A3149MG	2½"	(2)18,500	***
Aa574G		4	A3149MG		(3)27,750		



RegO Manifold

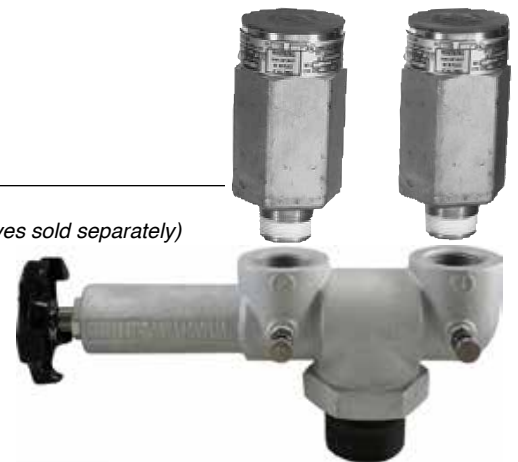
- NH₃ Application
- Start to discharge setting 250 PSIG
- 2" M-NPTF container connection

Part#	Description
AA8533MA250	Rego Manifold

(Relief valves sold separately)

Relief Valve Manifold

The A1416 relief valve manifold is used on large NH₃ tanks to allow removal of a relief valve for inspection or replacement without the need of evacuating the tank. Adequate relief protection is provided by the remaining relief valve in the manifold. Bleeder valves relieve vapor pressure under each relief valve after closing the manifold port, and each port can be closed separately, meeting code requirements. Soft seats allow bubble tight closure of each port.



Part#	Description
A1416	Squibb Manifold
A-462	Continental Manifold
A462-RK	Repair Kit

(Stem Packing-for Squibb 1415-7)

INTERNAL RELIEF VALVES



REGO

RegO 2" & 3" Internal Relief Valves

2" & 3" full internal relief valve is used in transport trucks.

Part#	Size	CFM
A8434G	2"	3,700
A8436G	3"	10,210



Fisher Internal Relief Valves

Intended for transport trucks hauling ammonia, these relief valves are of all steel construction for maximum resistance to rust and corrosion.

Part#	Size	CFM
H722-250	2"	3,345
H732-265	3"	9,280

Relief Valve Caps

A402NDC 3/4" Rubber

A417DC 1 1/4" Plastic

P145 3/4" Rubber

1301-3000 3/4" Plastic

1310-12 1 1/4" Plastic

A402NDC is for 3/4" Continental Relief Valves

A417DC is for 1 1/4" Continental Relief Valves

P145 is for all 3/4" Relief Valves and also can be used as Dust Cover for 1 3/4" Acme

1301-3000 is for 3/4" Squibb Valves

1310-12 is for 1 1/4" Squibb Valves



Unikap Cover

An inexpensive expandable relief cover that fits virtually all popular sizes



Part#	Size
85A	3/4" Thru 1 1/4"



Fisher 2" Internal Relief Valves

This 2" internal relief valve is used in storage tanks. The valve is constructed of steel for anhydrous ammonia use.

Sometimes used with a reducing flange to replace the old "ACF" flanged relief valves.

Part#	SCFM
H5112-250	11,403



RegO Excess Flow Valves

Designed for liquid or vapor use for filling, withdrawal and vapor equalizing in container or line applications. They are intended for long lines or branch piping where tank mounted excess flow valves are inadequate.

Part#	Connection
A3272G	3/4"
A3282C	1 1/4"
A3292C	2"



RegO Excess Flow Valves

These excess flow valves are designed for container installations for mounting in threaded full or half couplings. They may be used for filling, withdrawal or vapor equalizing applications. The exceptionally low pressure drop makes them ideal for pump suction lines. If a riser pipe to the vapor space is used with these valves, the minimum inside diameter of the riser pipe must be at least two times the thread size in order not to restrict the flow to the side ports.

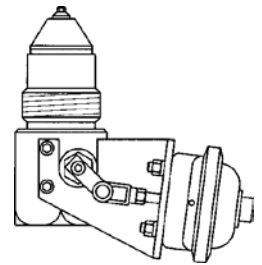
Part#	Coupling	Size
A7537P4	Half	2"
A7537P4F	Full	2"
A7539V6	Half	3"



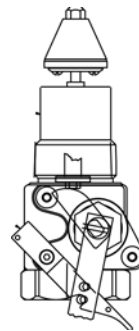
RegO Internal Valves

Designed for liquid withdrawal, vapor transfer or vapor equalization of transports and stationary storage tanks. The valve incorporates a built in excess flow valve and may be operated manually by cable or pneumatically. Closing flow shown is for half coupling. Closing flow for full coupling could be as low as one half this amount. Please call for specific closing rates.

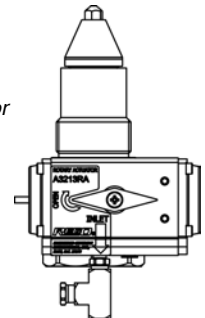
Part#	Closing Flow	Size
A3212R250	225gpm	2"
A3213R300	270gpm	3"
A3213R400	360gpm	3"



Thermal latch kit
A3213TL



Pneumatic Actuator
A3213PA



Rotary Actuator
A3213RA

BASE ENGINEERING INC.
FUEL TRANSFER AUTOMATION

**BULK PLANT & TRANSPORT
EMERGENCY STOP**

*"pricing depends on options
call for complete details"*



LDS100A



ASKF

ASKF FIXED LOCATION

Our combination wireless and fixed location E-Stop / emergency shutdown systems were developed to eliminate costly hard wiring of multiple fixed location emergency stop switches. Any number of wireless remote E-Stop switches can be installed within the plant facility and communicate with one receiver/controller unit.

These systems will work in conjunction with existing, hard-wired, manual E-Stop switches and plant safety controls. Operator worn E-Stop remotes can also be added to these systems.

LDS PASSIVE LEAK DETECTION

Designed specifically for propane, anhydrous ammonia and butane transports, BASE's Transport Leak Detection system keeps you and your load safe. DCE certified to comply with all US DOT and Canadian Transport Canada regulations for 'Passive Shut Off'. These systems continually monitor the off-loading process looking for a rapid change in discharge pressure. These systems detect a separated hose or failed connection and close the tank internal valve within 1/2 second.

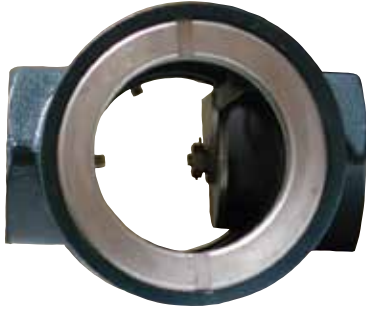
EXCESS FLOW & BACK CHECK VALVES

Heavy Duty Swing Check with Flow Indicator

This back check valve is designed to provide required back flow protection for the unloading riser in the bulk plant's transfer area. It is designed specifically for pipeline installation and is suitable for LP-Gas and Anhydrous Ammonia service. Product flow moves the swing check to the open position, when flow stops the spring loaded swing check closes.



Part#	Size	Liquid Capacity at 10 PSIG Drop GPM
A7616	2" F-NPT	640-GPM
A7624	3" F-NPT	1,173-GPM



RegO Flow Check Valve

The RegO Flow Check Valve has a sight glass to allow viewing of the product flow. It also incorporates a back check valve that permits product to flow only in one direction.

Part#	Size
A7794	2"
A7796	3"



Squibb Flow Indicators

Taylor Flow Indicators are installed in liquid pipelines to give visual indication of flow direction or the absence of flow. Capable of showing flow in both directions, the indicator mounts in a standard tee fitting.

Part#	Item#	Pipe Size	Includes
5520-2	130050	2"	5305 Adapter (2" MNPT)
5520-2-1/2	130055	2½"	5305 Adapter (2" MNPT)
5520-3	130060	3"	5305 Adapter (2" MNPT)



RegO Back Check Valves

Designed to provide protection of a container opening when desired flow is always into the vessel. May be used in line applications where flow must be limited to one direction.

Part#	Size
A3146	¾"
A3176	1¼"
A3186	2"
A3196	3"



A1705-45



111340

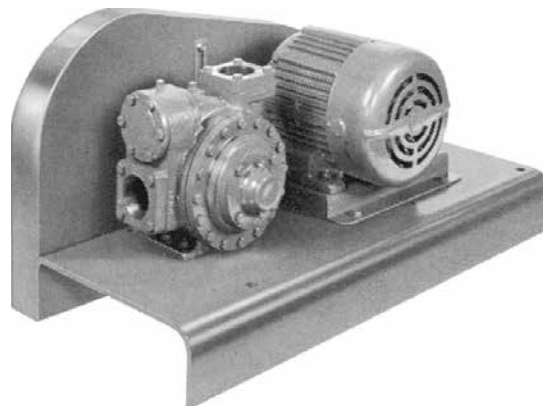
Squibb Excess Flow Valves

Part#	Size	Approx. Closing Flow GPM
A1705-45	1¼"	45
111340	1¼"	50
111361	2"	95
111365	3"	225

Blackmer 2" & 3" Pumps

Blackmer 2" and 3" pumps are ideal for use at an anhydrous ammonia storage plant. They offer dependable service and have extended life duravanes for peak performance. These pumps have 2" threaded inlet and outlet flanges for easy installation and removal from piping systems. Blackmer LGLD3E Pumps are typically used at a storage facility mounted on a base with an electric motor.

All 2" & 3" pumps have an internal safety relief valve, and a replaceable casing liner and end discs for easy rebuilding of the pumping chamber if ever necessary.



Model#	Pump Speed	GPM at 50PSI Differential	GPM at 100PSI Differential	Max Differential Pressure	Motor HP
LGLD2E-103	660	67	57	150	5hp
	520	50	41		
	420	40	30		
LGLD3E-103	660	133	112	150	10hp
	520	108	84		
	420	80	60		

Pump Only: LGLD3E, LGLD2E

Mult-Purpose Ammonia Pump for Bulk Plants & Terminals-3" Pump

Based on Blackmer's industry standard LGLD3 transfer pump, the LGL3021 replaces competitive pumps without changing piping connections or motor drives. Whether filling an LPG bobtail or transport – the LGL3021 can do it faster and more efficiently than competitive models

FEATURES

- Designed for high differential pressure of 150 PSI
- Sliding vane, positive displacement design for consistent performance
- Designed to bolt in place of competitive pumps without changing piping or motor drives
- Cavitation suppression liner
- Replaceable liner and discs
- Ductile iron construction
- Factory ISO-9001 certified

APPLICATIONS

- Bulk plant service
- Multiple Cylinder filling
- Vaporizers
- Bobtail and transport loading & off-loading
- U.L. listed for use on propane, butane, butane/propane mixes and anhydrous ammonia



LGL3021

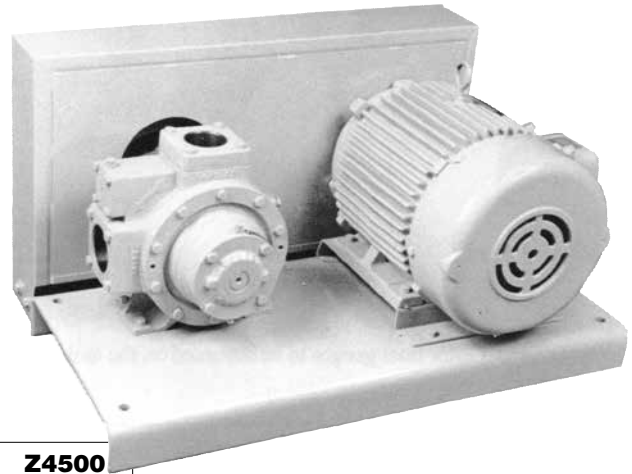
Max Speed	GPM(L/min)	HP(kW)	Max Differential Pressure	Recommended Bypass Valve Setting	Relief Valve Setting	Max Working Pressure
800RPM	112(424)	12.1(9.0)	150PSI	125PSI	150PSI	350PSI

Corken Coro-Vane Pumps

Only Corken Coro-Vane pumps have heavy duty roller bearings for longer service life. The bearings are interchangeable in all sizes of Coro-Vane pumps.

All parts, including the hydraulically self-adjusting blades, are easily accessible for inspection or replacement without disturbing the piping.

Models 521 and 1021 have built-in internal relief valve for added safety. Flanges of ductile iron save money by eliminating pipe unions and also simplify installation. Steel slip on welding flanges also available.



OPERATING SPECIFICATIONS

Model#	521	1021	Z2000	Z3500	Z4500
RPM Range	420-950	420-950	420-780	420-800	420-800
Temperature Range	-25°F to 225°F				
Max Working Pressure PSIG	350	350	350	350	350
Max Differential Pressue PSID	125	125	125	125	125
Max Driver Size HP	10	20	10	20	25
Flow Range GPM	30-85	65-195	41-76	52-197	52-197

FLANGE OPTIONS

Model#		Standard	No Cost Option	Extra Cost Option
521	Inlet	2½" NPT	2" NPT	2", 2½" Weld Flange
	Outlet	2" NPT	1½", 2½" NPT	1½", 2", 2½" Weld Flange
1021	Inlet	3" NPT	4" NPT	3", 4" Weld Flange
	Outlet	3" NPT	4" NPT	3", 4" Weld Flange
Z2000	Inlet	2" NPT	--	--
	Outlet	2" NPT	--	--
Z3500	Inlet	3" NPT	4" NPT	3", 4" Weld Flange
	Outlet	3" NPT Elongated	--	3" Weld Flange Elongated
Z4500	Inlet	4" Class 300 RF flange	4" NPT	
	Outlet	3" Class 300 RF flange	--	



ZV200

Corken ZV200 Bypass Valve

1¼" valve for use on 2" pumps, 2" valve for use on 3" and 4" pumps.



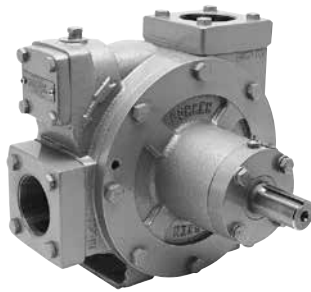
T166

T166 Bypass Valve

Bypass valve protects the pump when outlet flow is restricted. Available in 1¼" and 1½".

Z-Model Sliding Vane Pumps

The Z-Series Coro-Vane® pumps offer a six blade design with blade drivers and a patented needle roller thrust bearing rated for 4,000 lbs. The needle roller thrust bearings protects the pump against dynamic impact loads imposed on the pump by the drive system. Premature failures due to axial thrust loads are minimized on truck applications. With O-ring construction throughout, they are rated for 400 psi (28.6 bar) working pressure. Since the Z-models sliding vane pumps are used primarily in LPG (propane & butane) and agricultural ammonia applications, the non-adjustable internal relief valve is pre-set at the factory and does not require adjustments in the field.



Z2000 2" Pump

The 2" Z2000 pump was designed for stationary storage tank applications. The Z2000 stationary pump has the same locked rotor design used in the Corken Z-Series truck pumps to ensure long pump life and excellent performance. With higher flow rates than other three-inch pumps, the Z2000 retrofits Corken's and other competitive pumps with little or no change in piping.

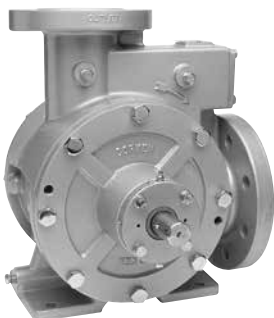


Z3500 3" NH3 Pump

The Z3500 NH₃ pump was designed for stationary ammonia plant applications. The Z3500 stationary pump has the same locked rotor design used in the Corken Z-Series truck pumps to ensure long pump life and excellent performance. With higher flow rates than other three-inch pumps, the Z3500 retrofits Corken's and other competitive pumps with little or no change in piping. If you want to fill your nurse tanks quickly, the Z3500 is the one!

Z3500 pump only

Z3500-101 pump mounted on base-ready to accept motor



Z4500 4" Stationary Pump

The Z4500 is a 4" stationary pump designed for transport loading and multiple bobtail loading applications. If you have two or more bulkheads to load bobtails and transports and would like to shorten your fill times, then the Z4500 is the stationary pump for you. The Z4500 can fill two 3,000 gallon bobtails in 20 minutes or less at typical operating RPMs.

Z4500 pump only

Z4500-101 pump mounted on base-ready to accept motor

Z4500-103-30 pump mounted on base with 30HP 3ph 1,750 Motor

Corken Compressors

- Compressors recover valuable residual vapors in tanks that pumps are unable to capture.
- Non-lubricated cylinder and piston design permits Corken compressors to operate without lubrication of any kind in the compression cylinders. Since no oil is consumed in the compression process, oil cannot contaminate the product.
- Spring loaded TFE piston rod seals compensate for wear and temperature variations. The seals minimize gas leaking into the crankcase.
- Crankshafts have integral, balanced counterweights for smoother operation.
- Oversized roller bearings on the crankshaft absorb radial and thrust loads, and they can be easily adjusted from an external position.



Compressor Model Number	RPM	Motor Horse Power	Capacity		Piping Size*		Minimum Hose Size	
			GPM	CFM	Liquid	Vapor	Liquid	Vapor
290/291	390	3	44	8	1½"	1"	1¼"	1"
	695	4	77	14	2"	1¼"	1½"	1¼"
	780	7.5	88	16	2½"	1¼"	1½"	1¼"
490/491	325	5	77	14	2"	1¼"	1½"	1¼"
	446	7.5	110	20	3"	1¼"	1½"	1¼"
	603	10	148	27	3"	1¼"	1½"	1¼"
	730	15	198	32	3"	1¼"	2" x Two	2"



† Capacity will vary depending upon length of piping and hoses.
 * Use next larger pipe size if piping is complex or over 100' in length.

Blackmer Compressors



To select a compressor that best fits your application requirements, use the charts shown. The data provided is based on approximate delivery rates when handling propane or anhydrous ammonia. Actual capacities will depend upon line restrictions, size and length of piping. Horsepower requirements for both liquid transfer and vapor recovery applications are based on moderate climatic conditions.

Engineering Specifications

	Compressor Model				
	LB081	LB161 LB162	LB361 LB362	LB601 LB602	LB942 LB943
Bore - Inches (mm)	3.0 ¹ (76.2)	3.0 ² (76.2)	4.0 ³ (101.6)	4.625 ¹ (117.4)	4.625 ¹ (117.4)
Stroke - Inches (mm)	2.5 (63.5)	2.5 (63.5)	3.0 (76.2)	4.0 (101.6)	4.0 (101.6)
Piston Displacement CFM (m ³ /h) @ 100 rpm	1.0 (1.7)	2.0 (3.4)	4.3 (7.3)	7.7 (13.1)	14.9 (25.38)
@ 825 rpm	8.2 (14.0)	16.5 (28.0)	35.5 (60.3)	63.5 (107.9)	123 (209)
Compressor Speed					
Minimum rpm	350	350	350	350	350
Maximum rpm	825	825	825	825	825
Maximum Working Pressure - psia (Bar)	350 (24.13)	350 (24.13)	350 (24.13)	350 (24.13)	350 (24.13)
Maximum Brake Horsepower (kw)	5 (4)	7.5 (6)	15 (11)	40 (30)	50 (37)
Max. Discharge Temperature - °F (°C)	350 (177)	350 (177)	350 (177)	350 (177)	350 (177)
Max. Compression Ratio ⁴					
Continuous Duty ⁵	5	5	5	5	5
Intermittent Duty ⁵	9	9	9	9	9

- 1 One single-acting cylinder
- 2 Two single-acting cylinders
- 3 Two double-acting cylinders
- 4 Compression Ratio defined as absolute discharge pressure divided by absolute inlet pressure.
- 5 Compression Ratios are limited by discharge temperature. High compression ratios can create excessive heat, i.e., over 350°F (177°C). The duty cycle must provide for adequate cooling time between periods of operation to prevent excessive operating temperature.



LB601



LB361LU

Use 30W Oil Only



2 1/2" Dial Ammonia Gauges

Part#	Range
W0160	0-60#
W0162	0-150#
W0164	0-400#
33830B	Plastic Lens Only



2 1/2" Liquid Filled Gauges

All stainless steel case and internals

Part#	Range
WGGSS60	0-60#
WGGSS100	0-100#
WGGSS400	0-400#



4" Dial Ammonia Gauges

Part#	Range
W0160-4	0-60#
W0162-4	0-150#
W0164-4	0-400#

4" Dial Liquid Filled Gauges

Part#	Range
WGGSS60-4	0-60#
WGGSS100-4	0-100#
WGGSS400-4	0-400#

Compressor Pressure Gauge

Stainless steel case liquid filled pressure gauges mount on the compressor head to monitor suction and discharge pressures. 0-400psi range with 2 1/2" dial and 1/4" center back connection.

Part#
CP1063



Storage Container Thermometer

For all sizes of storage or transport tanks-1/2" MPT

Part#	Size
1750-114	4" Stem
1750-115	6" Stem



Backmount Liquid Filled Gauge

Part#	Description
K9EU	Glycerin filled - 2 1/2", 160 PSI for Spray Coupe

STORAGE GAUGES

Squibb Taylor Master Float Gauges

Both the 4607A and 4607B float gauges feature a 10" hermetically sealed dial face. Standard gauges mount on side or end of tank

4607A Standard construction gauge recommended for tanks up to 72" in diameter. Mounts directly to a 5305 2" four bolt adapter

4607B Heavy duty gauge for any size storage tank. Mounts to a 5331 2½" eight bolt adapter with spirotalic gasket

Part#	Tank Diameter	Model	Opening Size
ME2434A	72"	4607A	2"
ME2434B	72"	4607B	2½"
ME2839A	84"	4607A	2"
ME2839B	84"	4607B	2½"
ME3245B	96"	4607B	2½"
ME3650A	104"	4607B	2½"
ME3862A	130"	4607B	2½"

REPLACEMENT DIAL:

130087 for "A" series gauges

130035 for "B" series gauges - 2 bracket

130090 for "B" series gauges - 3 bracket

REPLACEMENT ADAPTERS:

5305 2" four bolt

5331 2½" eight bolt

REPLACEMENT SPIROTALIC GASKET:

130040



130035
Replacement dial

Squibb Gauge Adapters

These adapters permit Taylor float gauges to be mounted on the tank. They are of steel construction.



5305

5318

5331

Part#	Tank Connection	Bolts	Style of Gauge
5305	2" MNPT	4	Senior, Visible "4" Senior, or Master 4102A
5318	2½" MNPT	4	Senior, Visible "4" Senior, or Master 4102A
5331	2½" MNPT	8	Master 4102B



Marshall ACCU-MAX Stationary Float Gauge

Measure liquid levels within horizontal DOT and Stationary ASME Tanks with fluid capacities above 2,300 gallons. Suitable for use in bobtail, transport, railcar and bulk storage applications.

Part#	Tank Diameter	Model	Opening Size	Bolts
ME940-180	104-108"	Accu Max	2½"	8
ME930-72	72"	Accu Max	2½"	8
ME930-79	79"	Accu Max	2½"	8
ME930-82	82"	Accu Max	2½"	8

Rotary Gauge

Rotary Gauges can be used on stationary or mobile containers. Gauges are installed in 1" container openings.

All gauges have stem and dip tubes with an extra large inside diameter. This assures that the correct liquid level can be obtained quickly.

Part#	Description
A9093	1" Rego Rotary Gauge
J31L-3/108	1" Rotary Gauge
REPLACEMENT PACKING	T10956 & T10957
REPLACEMENT CAP	T10971
P324	NH3 Dial Only



Nurse Tank Replacement Dials

Should a dial be broken or a larger dial face is desired, replacement dials can be supplied for all Taylor float gauges. The Visible 2" dial assembly is easily installed on either "Junior" or "Senior" gauges without removing the float gauge from the tank.

2208 NH3 Dials with Tabs

Part#	Description
5002S00002	Senior Dial
5004S00040	Junior Dial
3180-S18-002	Senior Dial Kit
3181-S18-040	Junior Dial Kit



5002S00002



3180-S18-002

2088CV Dial without Tabs

Direct Reading Drop-In Above Ground NH3 Dial for the Old Style Taylor Jr. & Sr. Heads.

Part#	Description
130018	NH3 Dial; Guide Hole @93%
130029	NH3 Dial; Guide Hole @ 5%



130018



130029

Visible 4" Dial Replacement

Includes Dial, Bezel, 2 Bezel Screws, Mounting Bracket, & 2 Mounting Screws.

Part#	Description
130025	Old "T" Style NH3 Dial
130086	New "R" Style NH3 Dial



130025



130086

Visible 8" Dial Replacement

2 Bracket Heads

Part#	Description
130030	Labeled NH3 Only Dial - Fits Old Style Model A & B Master Gauges
130035	Labeled NH3/LP Dial - Fits Old Style Model A & B Master Gauges

3 Bracket Heads

Part#	Description
130092	Labeled NH3 Only Dial - Fits New Style Model B Master Gauges
130090	Labeled NH3/LP Dial - Fits New Style Model B Master Gauges



**130030
130092**

**130035
130090**

FLOAT GAUGE

Squibb Float Gauges

Top Mount	Tank Diameter
AA194A	36"
AA214A	40"
AA240A	46"

45° Mount	Tank Diameter
AC194A	36"
AC214B	40"
AC240A	46"

End Mount	Tank Diameter
AD120E	36"
AD140A	40"
AD150A	46"



Rochester Float Gauges

Large Dial

Top Mount	Tank Diameter
A6280	40"

End Center	Tank Diameter
A6283-1-41	40"



A6280

A6480-00012

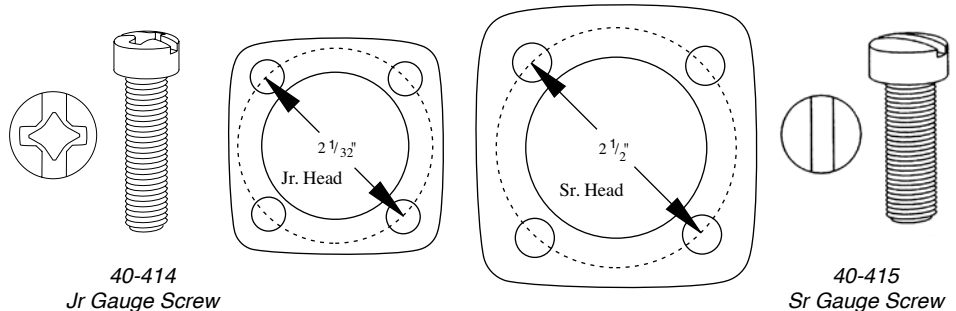
Rochester Stainless Steel N-Serve Float Gauges

Top Mount	Tank Diameter
A6480-00012	46"
A6480-00013	41"

Float Gauge Parts

- 15-7** Junior Gasket
- 15-4** Senior Gasket

- 40-414** Junior Gauge Screw
- 40-415** Senior Gauge Screw



40-414
Jr Gauge Screw

40-415
Sr Gauge Screw



EVA Applicator Tubing

High quality blue tinted applicator hose is manufactured from the highest quality EVA for maximum service life 3/8" available in orange and black for maximum UV protection.

Part#	Size	Roll
V1151-500	3/8" blue	500ft
ORV1151-500	3/8" orange	500ft
EVA-3/8-BLACK	3/8" black	500ft
12SEVA	1/2"	500ft
34SEVA	3/4"	200ft
58SEVA	5/8"	250ft
1SEVA	1"	200ft



Braided EVA Applicator Tubing

This EVA hose is reinforced with a cloth braid for added durability.

Part#	Size	Roll
38BEVA	3/8"	300ft
12BEVA	1/2"	300ft
34BEVA	3/4"	200ft
1BEVA	1"	200ft

LOW PRESSURE USE ONLY



(Full Roll Price Discounts are Available)

Braided EPDM Rubber Ammonia Hose

Many people are switching to this braided rubber ammonia hose for longer service life. Black in color.

Part#	Size	Roll
SH38EPDM	3/8"	500ft
SH12EPDM	1/2"	500ft
SH34EPDM	3/4"	300ft
SH1EPDM	1"	200ft



Hose Inserts

Part#	NPT	Hose Barb
A6132	1/8"	3/8"
A94A	1/4"	3/8"
A1412S	1/4"	1/2"

Also Available in Stainless Steel

AMMONIA HOSE

Nylon Reinforced Anhydrous Ammonia Hose

Double braided anhydrous hose is great for nurse tank and applicator hoses. The 3/4", 1", 1 1/4" and 2" sizes are available in manufactured assemblies only. 5 year removal.



*Other sizes and lengths available

Part#	Size
N2000-1x2	1" x 2 FT
N2000-1x3	1" x 3 FT
N2000-1x4	1" x 4 FT
N2000-1x5	1" x 5 FT
N2000-1x6	1" x 6 FT
N2000-1x8	1" x 8 FT
N2000-1x10	1" x 10 FT
N2000-1x12	1" x 12 FT
N2000-1x14	1" x 14 FT
N2000-1x15	1" x 15 FT
N2000-1x16	1" x 16 FT
N2000-1x20	1" x 20 FT
N2000-1x24	1" x 24 FT
N2000-114x3	1 1/4" x 3 FT
N2000-114x5	1 1/4" x 5 FT
N2000-114x6	1 1/4" x 6 FT
N2000-114x8	1 1/4" x 8 FT
N2000-114x12	1 1/4" x 12 FT
N2000-114x14	1 1/4" x 14 FT
N2000-114x15	1 1/4" x 15 FT
N2000-114x16	1 1/4" x 16 FT
N2000-114x18	1 1/4" x 18 FT
N2000-114x20	1 1/4" x 20 FT
N2000-112x12	1 1/2" x 12 FT
N2000-112x14	1 1/2" x 14 FT
N2000-112x16	1 1/2" x 16 FT



Hose Clamps

Part#	EVA Size	Type
A10	3/8"	Pinch
MH6	3/8" and 1/2"	Worm

N2595 Stainless Steel Braided Reinforced Anhydrous Ammonia Hose

Abrasion resistant hose for the transfer of anhydrous ammonia. To be used on agricultural applications with nurse tanks and in riser applications.



TEMPERATURE RANGE:

- -40°F to +180°F
- -40°C to +82°C

BURST PRESSURE:

- Minimum 5:1

MATERIAL TUBE:

- Extruded and smooth proprietary chlorobutyl (CIIR) compound
- Specifically designed to resist anhydrous ammonia

REINFORCEMENTS:

- One or more braids of high tensile stainless steel with one textile braid (no textile on 3 inch ID)

MATERIAL COVER:

- Black abrasion and weather resistant neoprene
- Cover is pin pricked, which promotes better dissipation of the anhydrous ammonia and assists in resisting cover blisters

Part#	Size
N2595-1x2	1" x 2 FT
N2595-1x3	1" x 3 FT
N2595-1x4	1" x 4 FT
N2595-1x5	1" x 5 FT
N2595-1x6	1" x 6 FT
N2595-1x8	1" x 8 FT
N2595-1x10	1" x 10 FT
N2595-1x12	1" x 12 FT
N2595-1x14	1" x 14 FT
N2595-1x15	1" x 15 FT
N2595-1x16	1" x 16 FT
N2595-1x18	1" x 18 FT
N2595-1x20	1" x 20 FT
N2595-1x24	1" x 24 FT

*other sizes and lengths available

Forged Steel Extra Heavy Duty Fittings For High Pressure Ammonia Service



Pipe Size	90° Elbow	90° Street Elbow	45° Elbow	Tee	Coupling	Plug	Union
1/4"	14X90EHD	14X90SEHD	14X45EHD	14THD	14CFS	14PHD	14UFS
3/8"	38X90EHD	38X90SEHD	38X45EHD	38THD	38CFS	38PHD	38UFS
1/2"	12X90EHD	12X90SEHD	12X45EHD	12THD	12CFS	12PHD	12UFS
3/4"	34X90EHD	34X90SEHD	34X45EHD	34THD	34CFS	34PHD	34UFS
1"	1X90EHD	1X90SEHD	1X45EHD	1THD	1CFS	1PHD	1UFS
1 1/4"	114X90EHD	114X90SEHD	114X45EHD	114THD	114CFS	114PHD	114UFS
1 1/2"	112X90EHD	112X90SEHD	112X45EHD	112THD	112CFS	112PHD	112UFS
2"	2X90EHD	2X90SEHD	2X45EHD	2THD	2CFS	2PHD	2UFS
3"	3X90EHD		3X45EHD	3THD	3CFS	3PHD	3UFS

Forged Steel Hex Bushings

FNPT Size	MNPT Size								
	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	3"
1/8"	14X18BHD	38X18BHD	12X18BHD	34X18BHD					
1/4"		38X14BHD	12X14BHD	34X14BHD	1X14BHD	114X14BHD			
3/8"			12X38BHD	34X38BHD	1X38BHD	114X38BHD			
1/2"				34X12BHD	1X12BHD	114X12BHD	112X12BHD	2X12BHD	3X12BHD
3/4"					1X34BHD	114X34BHD	112X34BHD	2X34BHD	3X34BHD
1"						114X1BHD	112X1BHD	2X1BHD	3X1BHD
1 1/4"							112X114BHD	2X114BHD	3X114BHD
1 1/2"								2X112BHD	3X112BHD
2"									3X2BHD



Extra Heavy Duty Pipe Nipples



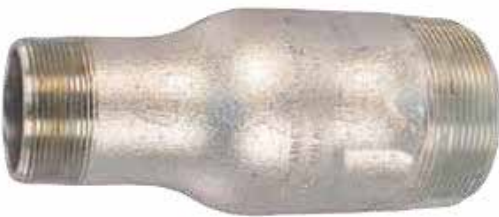
Nipple Length	Pipe Size MNPT									
	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	3"
CLOSE	18XCND	14XCND	38XCND	12XCND	34XCND	1XCND	114XCND	112XCND	2XCND	3XCND
SHORT	18XSNHD	14XSNHD	38XSNHD	12XSNHD	34XSNHD	1XSNHD	114XSNHD	112XSNHD	2XSNHD	3XSNHD
2"	18X2NHD	14X2NHD	38X2NHD	12X2NHD	34X2NHD	1X2NHD	114X2NHD	112X2NHD		
3"	18X3NHD	14X3NHD	38X3NHD	12X3NHD	34X3NHD	1X3NHD	114X3NHD	112X3NHD	2X3NHD	3X3NHD
4"	18X4NHD	14X4NHD	38X4NHD	12X4NHD	34X4NHD	1X4NHD	114X4NHD	112X4NHD	2X4NHD	3X4NHD
5"	18X5NHD	14X5NHD	38X5NHD	12X5NHD	34X5NHD	1X5NHD	114X5NHD	112X5NHD	2X5NHD	3X5NHD
6"	18X6NHD	14X6NHD	38X6NHD	12X6NHD	34X6NHD	1X6NHD	114X6NHD	112X6NHD	2X6NHD	3X6NHD
8"	18X8NHD	14X8NHD	38X8NHD	12X8NHD	34X8NHD	1X8NHD	114X8NHD	112X8NHD	2X8NHD	3X8NHD
10"	18X10NHD	14X10NHD	38X10NHD	12X10NHD	34X10NHD	1X10NHD	114X10NHD	112X10NHD	2X10NHD	3X10NHD
12"	18X12NHD	14X12NHD	38X12NHD	12X12NHD	34X12NHD	1X12NHD	114X12NHD	112X12NHD	2X12NHD	3X12NHD

*Call for Other Sizes

PIPE FITTINGS & ACCESSORIES

Forged Steel Reducer Couplings

Pipe Size FPT	FPT Size						
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	3"
1/4"	12X14RHD	34X14RHD					
1/2"		34X12RHD	1X12RHD				
3/4"			1X34RHD	114X34RHD			
1"				114X1RHD	112X1RHD	2X1RHD	
1 1/4"					112X114RHD	2X114RHD	
1 1/2"						2X112RHD	
2"							3X2RHD



Extra Heavy Swage Nipples

Part#	Size
1X34SWNHD	1" X 3/4"
114X1SWNHD	1 1/4" X 1"
112X114SWN	1 1/2" X 1 1/4"
2X1SWNHD	2" X 1"
2X114SWNHD	2" X 1 1/4"
2X112SWNHD	2" X 1 1/2"
3X2SWNHD	3" X 2"
3X212SWNHD	3" X 2 1/2"



ME650S

Ductile Iron In Line Strainer

High pressure in line strainer is perfect for protecting pumps.

Part#	Size
ME650S	1/2"
ME651S	3/4"
ME652S	1"
ME653S	1 1/4"
ME654S	1 1/2"
ME655S	2"
ME656S	3"



Jomar Teflon Pipe Sealant

Jomar thread sealant with teflon is ideal for all your plumbing projects. Available in 1/4 pint cans.

Part#
400-002



PLS#2 John Crane Pipe Sealant

John Crane Pipe Sealant is ideal for those tough plumbing projects.

Part#
1#-NO.2
4#-NO.2



Rectorseal Pipe Sealant

This pipe thread sealant is a non-setting, multi-purpose compound which contains PTFE, plus synthetic fibers to create a stronger seal.

Part#	Size
#5-14	1/4 pt.
#5-12	1/2 pt.
#5-1	1 pt.
23631	T Plus 2 Sealant



Leak Detector Solution for Ammonia

This low temperature leak detector solution is ideal for checking leaks in ammonia piping systems.

Part#	Description
LD1	8 oz.
LD2	1 Gallon
16B0	8 Pint
16BTL	16oz. Trigger Bottle Only



Teflon Thread Tape

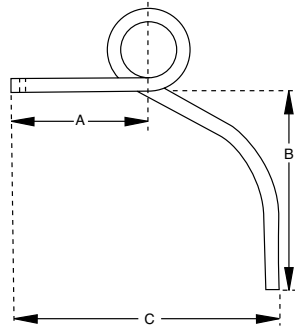
- Premium thread tape is thick and easy to use
- Permits easy disassembly even after many years
- Yellow in color

Part#	Description	Size
ATY004	260" Roll	1/2"
ATY005	260" Roll	3/4"
ATY006	260" Roll	1"

SHANKS

One-Hole Shanks

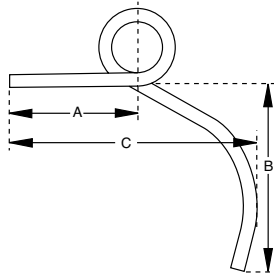
1/4" Square coil shank. Mounting hole is 11/16". This shank requires knife side-plate brackets.



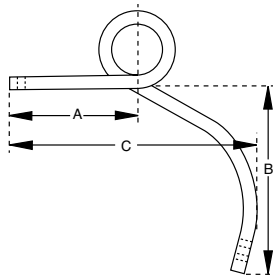
Part#	A	B	C
KSC90	11 3/4"	16"	21 3/4"
KSC94	13 1/2"	14 1/4"	24"
KSC97	13 1/2"	18 1/2"	23 1/2"

Universal Stubby Spring Shanks

1/4" "stubby" square coil shank has no mounting holes. This shank requires knife side-plate brackets.



Part#	A	B	C
KSC92	12"	17 3/4"	23"
KSC93	12"	16"	23 1/4"



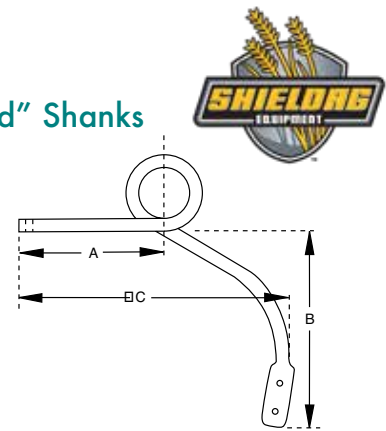
Three-Hole Front Mount Shanks

1/4" Square coil shank. Top mounting hole is 11/16". 1/2" holes spaced at 1 1/4" allows direct mounting of front mount knife. This shank does not require knife side-plate brackets.

Part#	A	B	C
KSC91	13 1/2"	20"	24 3/4"

Three-Hole "Footed" Shanks

1/4" Square coil shank. Top mounting hole is 13/16". 17/32" holes spaced at 2 3/4" allow side mount knife to be bolted directly to foot without use of knife side-plate brackets.



Part#	A	B	C
KSC95	13"	20"	25 1/4"
KSC96	11 1/4"	20"	23 1/4"

Blue Jet Shank

1" x 2" side bolt shank

Part#

KSC-1295



DMI Shank

1" x 2" side bolt shank

Part#

KSC-1298

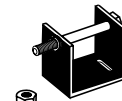
Twisted Shanks



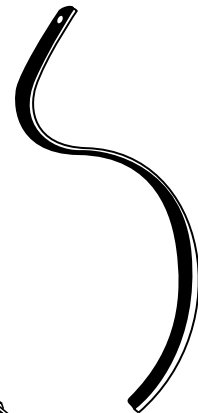
WS
Sabre
Shank



WK
Sabre
Knife



WC-BL
Clamp
for Backup



BL-1
Back Up
Leaf

Part#

BL-1

WS

WK

WC-BL



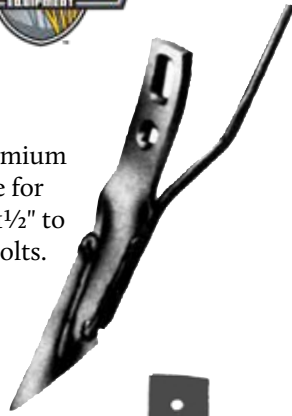
Wiese Knife For Field Cultivators

Thin Profile

Available Hardsurfaced and with CI-6 Chromium Carbide Insert Thin profile anhydrous knife for field cultivators 7/16" or 3/8" punchings on 1 1/2" to 2 1/4" centers. Use 1 3/4" length #3 plow head bolts.

Part#

DT4W/CI-6



Super Sealer Knife

Front swept Super Sealer knife with Chrome insert and 3/8" tube.

Part#

A50SS104X



Chisel Plow Knives

Part#	Description
C34AN	3/4" Chisel Plow Knife
C34AN-1/2	3/4" Chisel with 1/2" Tubre



Front Swept Knives

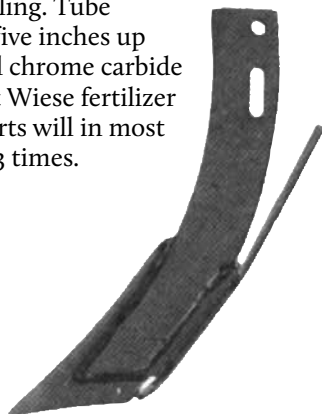
For side mount (Clamp On) Applicator Shanks

Knives with universal punching to fit most side mount (clamp-on) applicator shanks. Knives available with one-hole and slot or two-hole and slot. To fit Blue Jet, John Blue, Clark, M&W, DMI and most others. Tubed for either hot or cold systems.

"X-series knives" have forged tube protectors, to prolong tube life, and foot, to improve sealing. Tube protectors channel extends five inches up the back of the knife. Several chrome carbide inserts are available for most Wiese fertilizer knives. Chrome carbide inserts will in most cases increase knife life 2 to 3 times.

Part#

A50SKW/CI-10



Part#

A50SKDT-3/8



Wiese Knives for Chisel Plows



Chisel Plow Knife for Applying NH3

The 2" width at the top icovers the shanks, with ribs that fit on the sides to eliminate twisting. Over-all length only 12". Hole punching 1/2", 2 1/4" - 2 1/2" center to center.

Part#

CP-65



Thin Profile Chisel Plow Knife

1/2" punching on 2 1/4" centers. CI-4 Chromium Insert Use #3 plow head bolt 1/2" x 2 1/2" hex head bolts.

Part#

CP-70w/CI-4

AMMONIA KNIVES & SHIELD AG ARMS

Fairbank Ammonia Knife

The Fairbank Equipment knife features a chromium carbide insert and tube protector. Unique open end tube with diverter allows excellent flow without plugging. A high quality knife at an economical price!



Part#	Description
OS2532	Knife
OS2532BT	with Sealer

Beaver Tail Sealers

These forged beaver tail sealers are 3" x 3". Install 3" to 4" above tube outlet and angle slightly downward for efficient sealing.



Part#
ASW75

Wiese Back Sweep Knife

Thin, curved, short knife designed for applying in beds. 3/8" x 2" shank size. Chrome insert for extended wear.



Part#
A50VT1009

MAG-50 Knife with Sealer

This heavy duty knife includes a sealer for better performance in a variety of soil conditions.



Part#	Description
MAG-50	Universal Knife
MAG-50BTS	with Sealer

Deep Furrow Knives

These deep furrow knives are ideal for sub-soiling and aeration. They work efficiently in any kind of soil and pull up to 15% easier than standard ammonia knives.



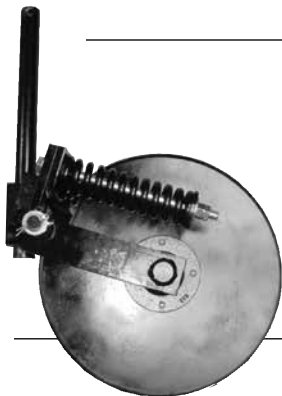
Part#	Description
DF-1	Knife

HI-PRO Mole Knife

Hi-Pro Manufacturing is the maker of the Original Mole Knife, featuring an amazing mixture of sub-soiling, aeration, longer wear, and outstanding sealing.



Part#	Desc.
33 MOLE	Original Mole
B33M-38	Mini Mole 3/8"



20" Coulter Arm

- 4" Vertical Travel
- Up to 800# down pressure
- Heavy Duty 1 3/4" diameter mounting bar

- Equipped with 20" diameter smooth blade
- Uses common N633 hub and spindle
- Fluted, Crucible and notched blades available
- Bar mounts available for any size tool bar

Part#
KSC-466360



20" Liquid Coulter Arm

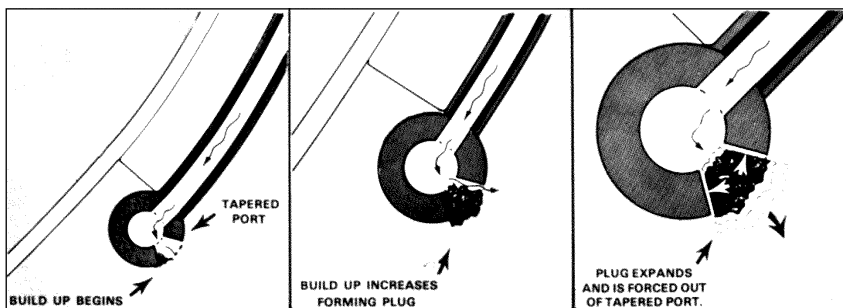
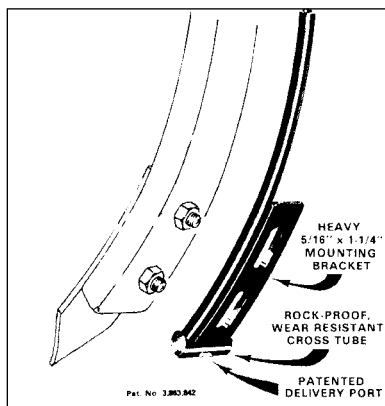
- Shown with K-5S chrome liquid knife
- Fluted, crucible and notched blades available
- 4" Vertical Travel
- Equipped with 20" diameter smooth blade
- Up to 800# down pressure
- Heavy duty 1 3/4" diameter mounting bar
- Uses common N633 hub and spindle
- Bar mounts available for any size toolbar

Part#	Description
KSC531002	Coulter Assy.
K5SBSST	Knife
20PL	20" Smooth disc
20FL	20" Fluted disc
20FLC	20" Crucible Fluted Coulter



Ray-Mac Tubes

Self cleaning port for continuous flow



Part#	Description
CP1-3/8	Chisel Tube 3/8"
FC1-3/8	Field Cultivator Tube 3/8"

Inline Chisel

plow pipe and bracket. Punched to fit behind standard chisel shanks.



Part#
TB-79

Offset Chisel

plow pipe and bracket to fit original chisel plow spikes. Universally punched for chisel shanks.



Part#
HPB-1

Offset Cultivator Pipe



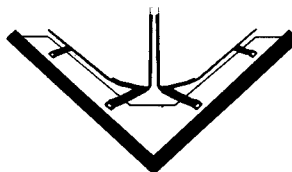
Part#
FPB-1

Replacement Ammonia Tube

Part#	Description
WRT	Wiese 3/8" Tube drilled and pinched 12" length
TB-2/O	Shield 3/8" Tube open end straight

NH3 Sweep Tube

Includes one sweep tube strap for attachment.



Sweep Tubes for 5', 5 1/2', and 6' Sweeps

Formed with attaching brackets. Three outlet holes for each side of blade. Install under sweep blades, using existing holes. (May require extra length bolts, not included.)

Part#
5ST
6ST

Combination Liquid and NH3 tubes also available.

SAFETY & WATER CONTAINERS



P&H

Part#	Description
76410P	Top Mount 5 Gal.
76411	Side Mount 5 Gal.



P&H

Part#	Description
75649	Safety Container <i>(Gloves and goggles not included)</i>

P&H Parts

Part#	Description
55945	Lid, Screw on Style
58SCV	Clear Hose 5/8"
55558	Lid, Push on (Old Style)
75851	Band & Spring Kit



55945



55558



75851

TRIARC Parts

Part#	Description
063-71901	Trinity Water Tank Nut w/Spring
063-10014	Trinity Water Tank Wing Screw



The CHEMWASH Emergency Wash Kit has a large 7.15 Gallon reservoir. Comes complete with spigot, breakaway hose, all fittings, powder coated steel mounting cradle and dust cover for glove/goggle compartment.

Polywest

Part#	Description
MHCW/Y	Chem Wash.



AG Systems

Part#	Description
AG-40	Top Mount 5 Gal.

AG Systems Parts

Part#	Description
AG-1	Lid, Screw On
A1234	Straight Barb
EL1234	90° Hose Barb
34X116SCV	Clear Hose



AG Systems Safety Container

Part#	Description
AG-41	Safety Container

(Gloves and goggles sold separately)



Goggles

Part#	Description
552	Non-Vented NH3 goggles
552F	Non-Vented Fogless NH3
551	Indirectly Vented Goggles
2260	Fog Free Smoked Goggles
22521	Indirectly Vented Large Goggles
5300400	Indirectly Vented Goggles for Glasses
18629	Goggles with Face Shield



MSA Respirator

Part#	Description
808076	Comfo II Respirator
492790	Cartridge (2 Required)



MSA Gas Mask

Part#	Description
10028998	Gas Mask
10059903	Cannister
D2056734	Case with MSA



Edmont Willson Rainsuit

Part#	Desc.
65-200L	Large
65-200XL	XL
65-200XXL	XXL



7712R
7714R



3414
3414-XL

Ammonia Gloves

Anhydrous gloves are heavy duty lined gloves. Available in 12" or 14" lengths.

Part#	Description
7712R	12" Length
7714R	14" Length
3414	NH3 Neoprene
3414-XL	XL NH3 Neoprene

SAFETY DECALS

Decal Sets by State

STATE	PART#
Kansas	FB-DECAL-PKG-KS
Nebraska	FB-DECAL-PKG-NE
Oklahoma	FB-DECAL-PKG-OK
Colorado	FB-DECAL-PKG-CO

Custom Decal's Available,
Fax Your Request for a Quote.

Your Company Name
Emergency Phone Number

EMERGENCY FIRST AID
SHOULD LOADED OR VAPORS OF THIS PRODUCT COME IN CONTACT WITH EYES OR SKIN:

1. RUSH AFFECTED AREA THOROUGHLY WITH WATER FOR 15 MINUTES.
2. REMOVE IMMEDIATELY ANY CONTAMINATED CLOTHING.
3. DO NOT USE HOT WATER OR SOAP ON AFFECTED AREA.

CAUTION
ANHYDROUS AMMONIA (Under Pressure)
READ CAREFULLY

1. KEEP AWAY FROM HOT SURFACES. THIS IS A SAFETY HAZARD AND SHOULD NOT BE TOUCHED BY CHILDREN.
2. STAND UP WHEN BEING WORKED AROUND EQUIPMENT.
3. WEAR GOGGLES AND RUBBER GLOVES WHEN TRANSPORTING PRODUCT AND "BLEEDING" HOLES.
4. NEVER USE YOUR HANDS AS A HOSE END.
5. BLEED HOLES END VALVES BEFORE STARTING TO OPERATE.
7. DO NOT OPERATE EQUIPMENT UNTIL YOU ARE CERTAIN YOU KNOW HOW TO USE IT.
8. DO NOT POINT CHILDREN NEAR THE EQUIPMENT.
9. STAY CLEAR OF ALL MOVING PARTS.
10. DO NOT ATTEMPT ANY REPAIRS OF THIS EQUIPMENT. CONTACT YOUR LOCAL SERVICE CENTER IMMEDIATELY.
11. DO NOT OPERATE THIS EQUIPMENT UNTIL YOU ARE CERTAIN YOU KNOW HOW TO USE IT.

Requirements Per Nurse Tank By State				
Part No.	Kansas	Nebraska	Oklahoma	Colorado
WFAD	1	1	1	1
NH3S-R	2	2	2	2
NH3C-R	2	2	2	2
SLD	2	2	2	2
SVD	1	1	1	1
IH-2	2		2	2
1005-NH3	4	4	4	4
25MPH	1		1	
FAWD	2	2	2	2
WYG	1	1	1	1
2FS	1	1	1	
V-00		1	1	

ANHYDROUS AMMONIA

ANHYDROUS AMMONIA



+ FIRST AID + WATER

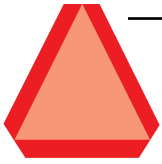
LIQUID

VAPOR

INHALATION HAZARD

MAXIMUM PULLING SPEED 25 M.P.H.
Pulling Vehicle Responsibly

WEAR YOUR GOGGLES



Also available in steel, part no. #2 Steel



NFPA-704-3-NH3 Storage Plant Decal

APPLICATION INSTRUCTIONS

1. Connect the hose to the applicator tank.
2. Turn the applicator tank on.
3. Spray the applicator tank.
4. Turn the applicator tank off.

PREVENTION INSTRUCTIONS

1. Do not use applicator tank in areas where children play.
2. Do not use applicator tank in areas where children play.
3. Do not use applicator tank in areas where children play.
4. Do not use applicator tank in areas where children play.

SAFETY INSTRUCTIONS FOR OPERATOR

1. Do not use applicator tank in areas where children play.
2. Do not use applicator tank in areas where children play.
3. Do not use applicator tank in areas where children play.
4. Do not use applicator tank in areas where children play.

FIRST AID INSTRUCTIONS

IF INHALED: Move to fresh air. If breathing is difficult, call 911. If symptoms persist, call 911.

IF ON SKIN: Wash with soap and water. If symptoms persist, call 911.

IF IN EYES: Flush with water for 15 minutes. If symptoms persist, call 911.

IF SWALLOWED: Call 911. Do not induce vomiting.

IF ON CLOTHING: Remove contaminated clothing and wash separately.

IF ON SURFACES: Wash with soap and water. If symptoms persist, call 911.

IF ON EARTH: Call 911. Do not touch.

IF ON WATER: Call 911. Do not touch.

IF ON FOOD: Call 911. Do not touch.

IF ON PLANTS: Call 911. Do not touch.

IF ON ANIMALS: Call 911. Do not touch.

IF ON CHILDREN: Call 911. Do not touch.

IF ON PETS: Call 911. Do not touch.

IF ON FISH: Call 911. Do not touch.

IF ON BIRDS: Call 911. Do not touch.

IF ON INSECTS: Call 911. Do not touch.

IF ON SOIL: Call 911. Do not touch.

IF ON ROCKS: Call 911. Do not touch.

IF ON METALS: Call 911. Do not touch.

IF ON GLASS: Call 911. Do not touch.

IF ON CERAMIC: Call 911. Do not touch.

IF ON PLASTIC: Call 911. Do not touch.

IF ON WOOD: Call 911. Do not touch.

IF ON CARPET: Call 911. Do not touch.

IF ON FLOOR: Call 911. Do not touch.

IF ON WALL: Call 911. Do not touch.

IF ON CEILING: Call 911. Do not touch.

IF ON LIGHT: Call 911. Do not touch.

IF ON SOUND: Call 911. Do not touch.

IF ON TASTE: Call 911. Do not touch.

IF ON SMELL: Call 911. Do not touch.

IF ON TOUCH: Call 911. Do not touch.

IF ON HEARING: Call 911. Do not touch.

IF ON VISION: Call 911. Do not touch.

IF ON FEELING: Call 911. Do not touch.

IF ON THINKING: Call 911. Do not touch.

IF ON EMOTION: Call 911. Do not touch.

IF ON BEHAVIOR: Call 911. Do not touch.

IF ON ATTITUDE: Call 911. Do not touch.

IF ON CHARACTER: Call 911. Do not touch.

IF ON PERSONALITY: Call 911. Do not touch.

IF ON IDENTITY: Call 911. Do not touch.

IF ON REPUTATION: Call 911. Do not touch.

IF ON CREDIT: Call 911. Do not touch.

IF ON WEALTH: Call 911. Do not touch.

IF ON POWER: Call 911. Do not touch.

IF ON INFLUENCE: Call 911. Do not touch.

IF ON AUTHORITY: Call 911. Do not touch.

IF ON RESPECT: Call 911. Do not touch.

IF ON ADMIRATION: Call 911. Do not touch.

IF ON APPRECIATION: Call 911. Do not touch.

IF ON GRATITUDE: Call 911. Do not touch.

IF ON LOVE: Call 911. Do not touch.

IF ON AFFECTION: Call 911. Do not touch.

IF ON TENDerness: Call 911. Do not touch.

IF ON COMPASSION: Call 911. Do not touch.

IF ON MERCY: Call 911. Do not touch.

IF ON KINDNESS: Call 911. Do not touch.

IF ON GENTLENESS: Call 911. Do not touch.

IF ON PATIENCE: Call 911. Do not touch.

IF ON SELF-CONTROL: Call 911. Do not touch.

IF ON MODERATION: Call 911. Do not touch.

IF ON TEMPERANCE: Call 911. Do not touch.

IF ON RESTRAINT: Call 911. Do not touch.

IF ON DISCIPLINE: Call 911. Do not touch.

IF ON ORDER: Call 911. Do not touch.

IF ON CLEANLINESS: Call 911. Do not touch.

IF ON NEATNESS: Call 911. Do not touch.

IF ON ORGANIZATION: Call 911. Do not touch.

IF ON SYSTEMATICS: Call 911. Do not touch.

IF ON LOGIC: Call 911. Do not touch.

IF ON REASON: Call 911. Do not touch.

IF ON WISDOM: Call 911. Do not touch.

IF ON KNOWLEDGE: Call 911. Do not touch.

IF ON UNDERSTANDING: Call 911. Do not touch.

IF ON INTELLIGENCE: Call 911. Do not touch.

IF ON ABILITY: Call 911. Do not touch.

IF ON SKILL: Call 911. Do not touch.

IF ON TALENT: Call 911. Do not touch.

IF ON CAPABILITY: Call 911. Do not touch.

IF ON POTENTIAL: Call 911. Do not touch.

IF ON POSSIBILITY: Call 911. Do not touch.

IF ON OPPORTUNITY: Call 911. Do not touch.

IF ON CHANCE: Call 911. Do not touch.

IF ON FORTUNE: Call 911. Do not touch.

IF ON LUCK: Call 911. Do not touch.

IF ON PROSPERITY: Call 911. Do not touch.

IF ON WEALTH: Call 911. Do not touch.

IF ON RICHES: Call 911. Do not touch.

IF ON ABUNDANCE: Call 911. Do not touch.

IF ON EXCESS: Call 911. Do not touch.

IF ON OVERFLOW: Call 911. Do not touch.

IF ON SURPLUS: Call 911. Do not touch.

IF ON RESERVE: Call 911. Do not touch.

IF ON STOCK: Call 911. Do not touch.

IF ON RESOURCES: Call 911. Do not touch.

IF ON SUPPLIES: Call 911. Do not touch.

IF ON MATERIALS: Call 911. Do not touch.

IF ON EQUIPMENT: Call 911. Do not touch.

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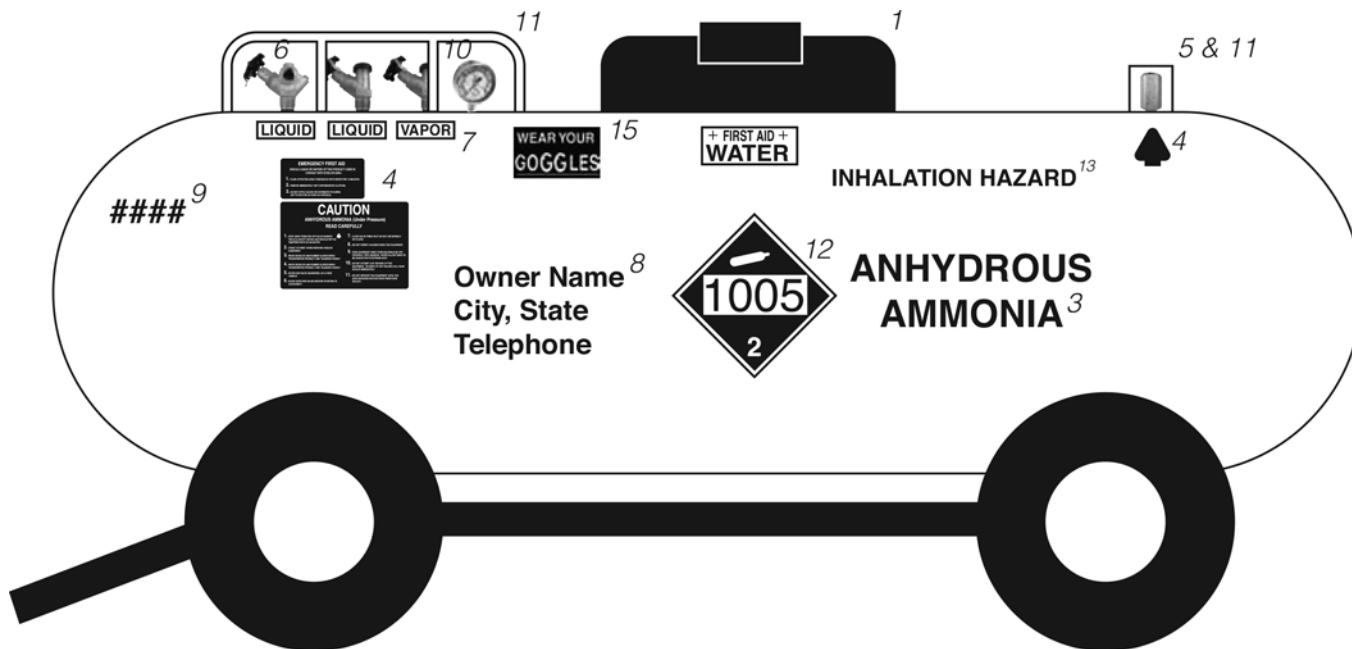
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IF ON APPLIANCES:



TANK FRONT



TANK BACK



1. Safety Water Container & Decal (5 gallons, fresh & clean)
2. Anhydrous Ammonia-Curved 4" Letters Front and Rear
3. Anhydrous Ammonia-Straight 4" Letters on Both Sides
4. Warning First Aid Decal with Relief Valve Arrow
5. Safety Relief Valve with Protective Cap
6. Vapor and Liquid Valves
7. Vapor and Liquid Markings (labeled or color coded)
8. Owner Identification (Minimum 2" letters)

9. Tank Identification Number
10. Pressure Gauge (must be operational)
11. Roll Bar and Relief Valve Guard
12. 1005 DOT Placard on all Four Sides
13. Inhalation Hazard Decal (minimum 2")
14. Max Speed 25MPH Decal
15. Wear Your Goggles Decal

SCHUCK HITCHES

Schuck Cushion Hitches are your first stop for all of your towing equipment needs. Our powder coated cushion hitches are the superior choice over other standard receiver hitches like the Reese Hitch. We can handle all of your towing accessories from trailer hitches, truck hitches, trailer hitch cover and even marine towing, motorcycle trailer hitches and tractor hitches. You will find increased performance, reduced wear on your vehicle and reduced driver fatigue.

Schuck Cushion Hitches are engineered to absorb minor or major tongue thrust shocks from towing loads off road or on the highway. The innovative design of each hitch contains injection-molded urethane cushions to absorb end thrust shock and high density polyethylene bearings to increase tongue loads. There is no metal-to-metal contact, which translates into a smoother and quieter ride. This unique design is built for years of service, and is virtually maintenance-free.



Model 740

- Fits standard 2" receiver
- Includes pin and keeper
- 2½" drop from center of the receiver tube to the top of the hitch tongue



Model 750

The model 750 hitch has a bolt-on swivel hitch with mounting bolts and stiffening braces that are included. It fits 10 ½" - 12" on center bolt pattern. The swivel tongue extends 7" beyond the TOW position and swivels 60° laterally or 12" left to right. The swivel tongue saves time and effort with every hook-up.



Model 750-RT

- Fits standard 2" receiver
- Includes pin and keeper
- Check these dimensions! The center of the receiver tube to the top of hitch tongue is a 5 ½" drop. Swivel tongue extends 7" beyond the TOW position and swivels 60° laterally (or 12" left to right)
- Swivel tongue saves time and effort with every hook-up.

Note: For tongue height, we recommend 16" to 18" off the ground. Measure from the center of your receiver tube to the ground and subtract the 5-1/2" drop.



Model 750-RT-R

- Fits standard 2" receiver
- Can be made with 2.5 shank.
- Includes pin and keeper
- Less hitch height drop! The center of the receiver tube to the top of hitch tongue is a 3½" drop. It's ideal for ½, ¾ and 1 ton pickup trucks or tow vehicles where a 2" higher hitch is required.
- Swivel tongue extends 7" beyond the TOW position and swivels 60° laterally (or 12" left to right).

Note: For tongue height, we recommend 16" to 18" off the ground. Measure from the center of your receiver tube to the ground and subtract the 3-1/2" drop.

Schuck

Replacement Parts



500231

5/8" Pull Pin 3.5" Long with Chain



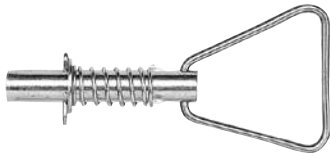
018917

TW Crank Assembly



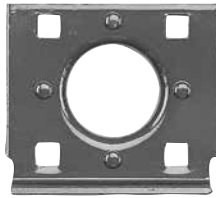
015904

Swivel Retaining Ring



018400

1/2" Plunger Assembly



015909

"L" Bend Swivel Bracket

If you want a jack you can rely on, choose Bulldog's line of screw jacks. With easy cranking 8 turns per inch, they have proven reliability for long term use at rated loads.



TJB-2001-B



TJP-2002-B



TJD7000S

Part#	Lift Capacity	Handle	Mounting
TJB-2001-B	2,000	Topwind	Ring
TJP-2002-B	2,000	Topwind	Tube
SWS151DS	2,000	Sidewind	Ring
TWS171DS	5,000	Sidewind	Ring
TWL178DTSF	5,000	Topwind	Tube
TJD7000S	7,000	Sidewind	(not included)

TJD7000S Weld on Tubing Options

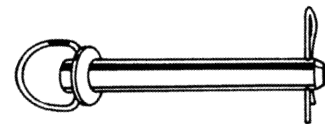
Part#	Description
500238	2 1/2" Female
500239	2 1/2" Male

Hope Haven Hitch Pins

Double H Hitch pins provide an excellent quality hitch pin at a reasonable cost. Black hitch pin with red plastic covered handle.



Part#	Size
H58	5/8" x 6"
H34	3/4" x 6"
H78	7/8" x 6"
H100	1" x 6"
H125	1 1/4" x 6"



Wilson Hitch Pins

Wilson Mfg hitch pins are a high quality yet economical hitch pin. Silver in color.

Part#	Size
RP588	5/8" x 6"
RP348	3/4" x 6"
RP788	7/8" x 6"



Safety Chains

Part#
800242



Hairpin Clip

Part#
#9 Clip



62017 White Silicone Super White Tank Paint

You will not believe the gloss on this silicone SuperWhite Tank Paint. Although it is a few bucks more, it is worth it to have better looking tanks that do not require painting for a long time. Available in one gallon cans (four gallons to a case), in five gallon buckets and in aerosol cans. Use Mineral Spirits to thin.



11017 White Tank Enamel

Are you ready for a white tank enamel that has a high gloss and lasts a long time? Klinger's white tank enamel is specially formulated to cover in one easy coat. You will definitely need to have your sunglasses handy after you use this paint! Use Mineral Spirits to thin. Available in one gallon cans, (four gallons to a case) in five gallon buckets and aerosol cans.



130-TA Aluminum Tank Paint

Klinger's aluminum tank paint is long lasting and covers better than a blanket! If you have used other aluminum paint that is runny and watered down, quit wasting your time and make the switch to Klinger's. Use Mineral Spirits to thin. Available in one gallon cans (four gallons to a case) or in five gallon buckets



14022

Fast Dry Gray Primer has a recoat (drying) time of 30 minutes, brush, roll or spray. Available in gallons or 5 gallon. Use Xylol Thinner.

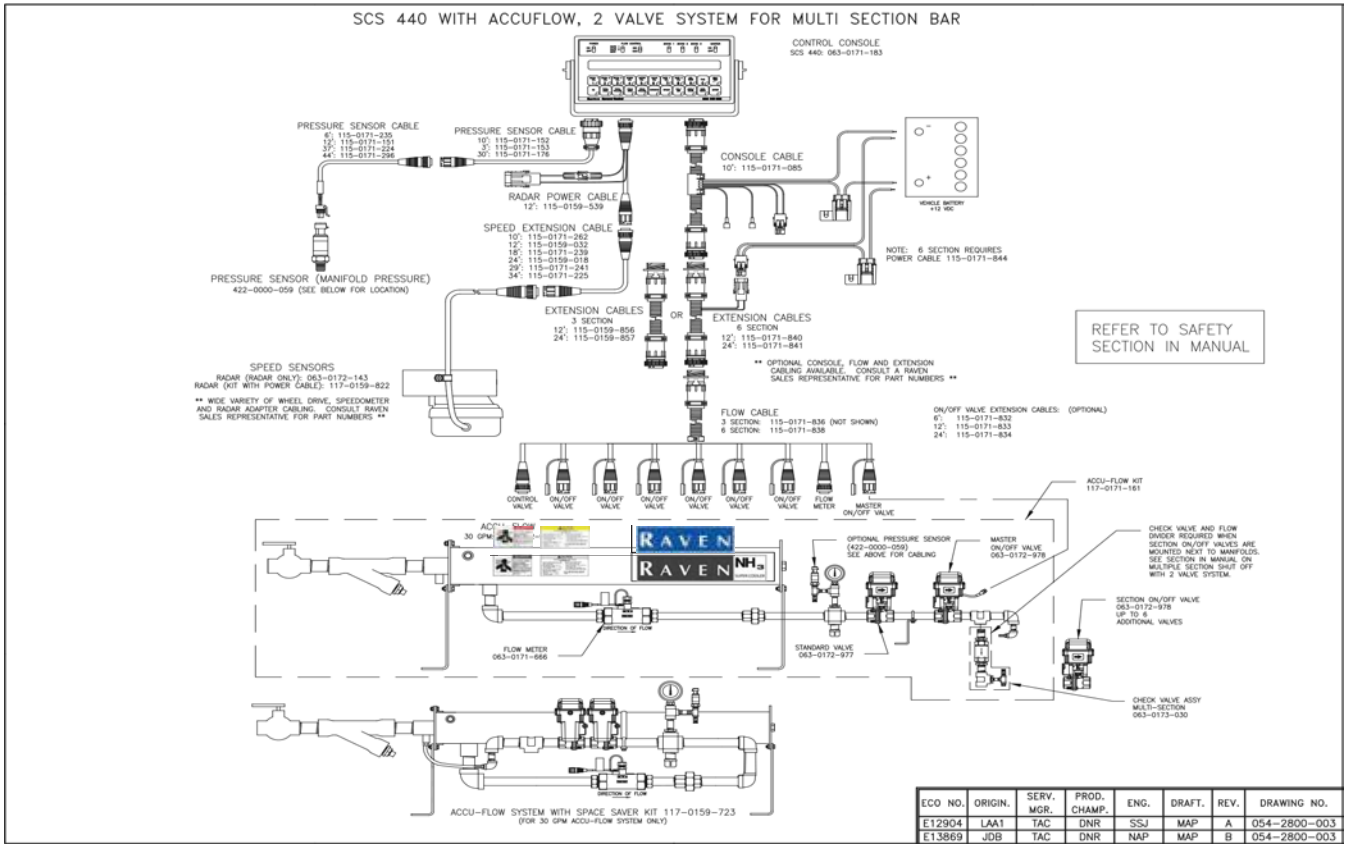
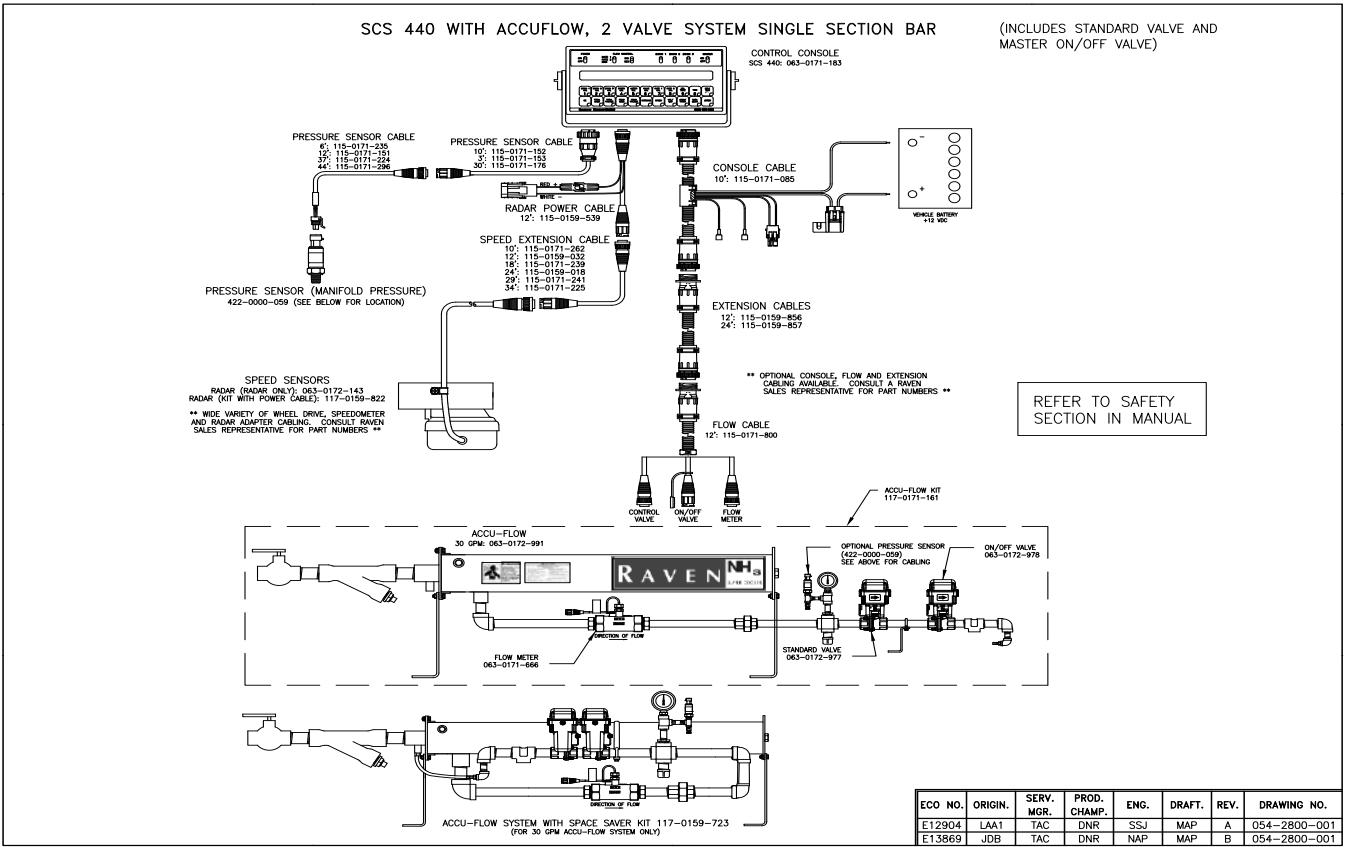
12520

Gray Primer has an 8-12 hour recoat time brush, spray or roll. Use mineral spirits as a thinner.

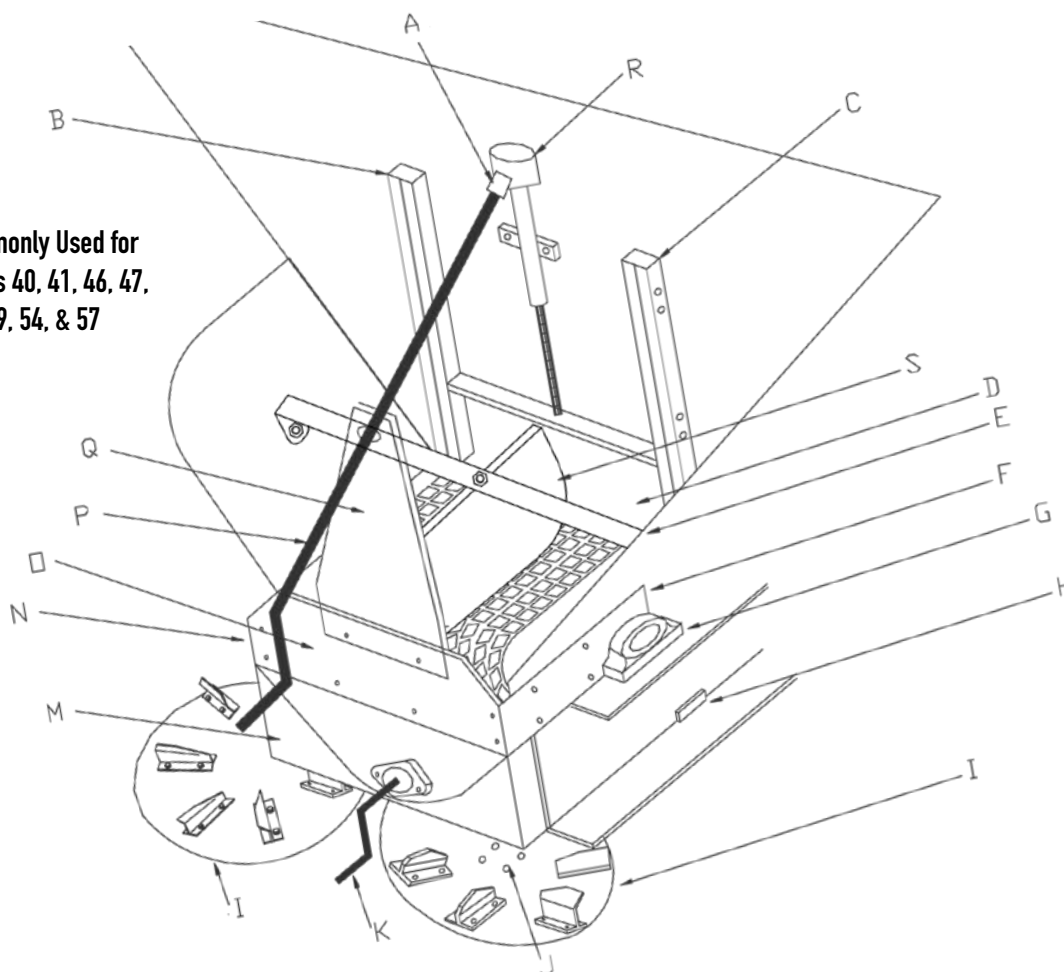
Thinners

Mineral Spirits Thinner is used in the majority of Klinger Paints. Xylol Thinner is used to thin the fast dry primer.



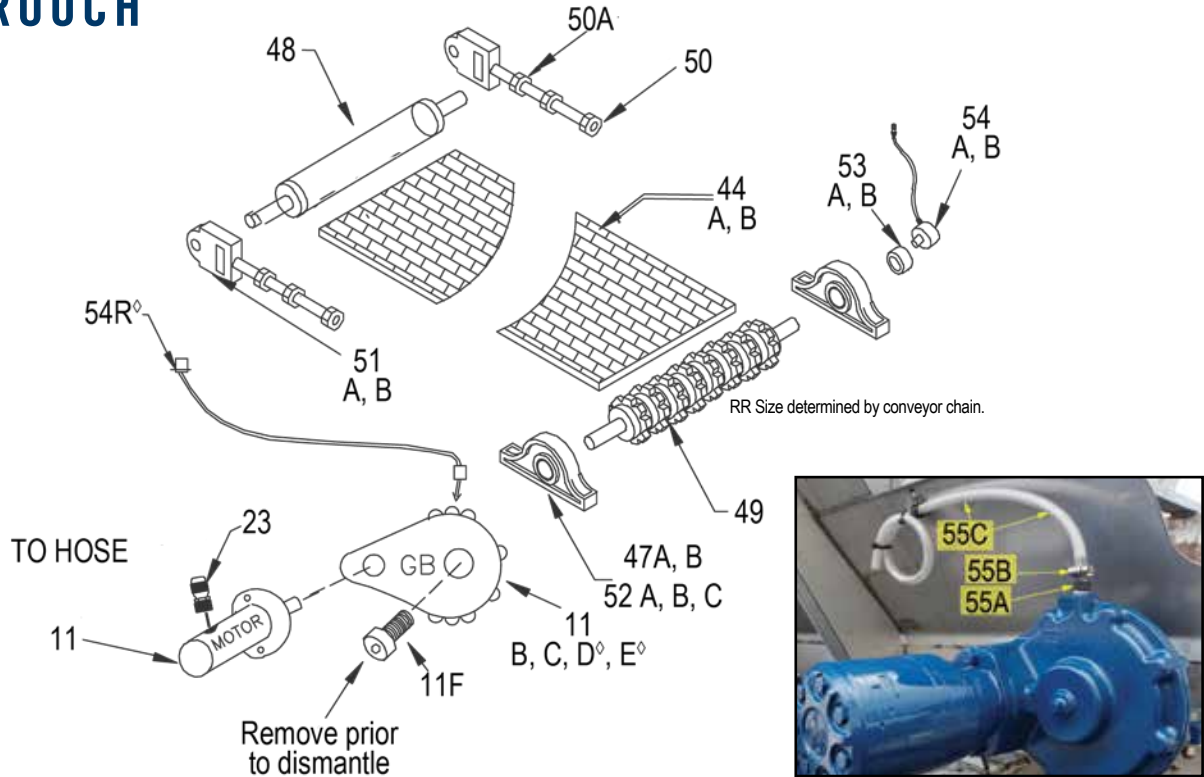


Commonly Used for
Models 40, 41, 46, 47,
49, 54, & 57



Rear Parts for Chain Conveyor or Belt-Over-Chain Conveyor

Ref No.	16"	24"	24" BOC	Part No.	Description	Ref No.	16"	24"	24" BOC	Part No.	Description
A	1	1	1	JA-BB100002801A00 JA-SSBB100002801A	Gate Handle Universal Extension, MS Gate Handle Universal Extension, SS	M	1	-	-	NC-025008AAA	Chute Assy w/ Coupling, 16"
B	1	1	1	NC-025010ALH	Gate Slide, LH	M	-	1	1	NC-025008AO	Chute Assy w/ Coupling, 24"
C	1	1	1	NC-025010ARH	Gate Slide, RH	M1	1	1	1	CN-0*5008AWA	Chute Coupling w/ Grease Fitting, * 1 = Mild, 2= Stainless Steel
D	1	-	-	NC-025010B	Metering Gate, 16"	N	1	1		NC-025008KLH	Chute, Side Bracket, LH
D	-	1	-	NC-025010C	Metering Gate, 24"	N	-	-	1	NC-025008BRLH	Chute, Side Bracket, LH, BOC
D	-	-	1	NC-025010AM	Metering Gate, 24" BOC	O	1	-	-	NC-025008A	Chute Bearing Bracket, 16"
E	-	-	-	"Conveyor w/ controller, 16 & 24" on page		O	-	1	-	NC-025008B	Chute Bearing Bracket, 24"
F	1	1	-	NC-025008KRH	Chute Side Bracket, RH	O	-	-	1	NC-025008BQ	Chute Bearing Bracket, BOC
F	-	-	1	NC-025008BRRH	Chute, Side Bracket, RH, BOC	P	1	1	1	NC-025010T	Gate Handle Extension
G	2	-	-	BR-PB112	Pillow Block Bearing, 1 1/2"	P	1	1	1	NC-025010AL	Gate Handle Extension, Model 47 NC Spreadit
G	-	2	-	BR-PB200	Pillow Block Bearing, 2"	Q	1	1	1	NC-025011A	Gate Handle Extension Bracket
G	-	-	2	BR-PB200HD	Pillow Block Bearing, 2", HD	R	1	1	1	JA-620198	Gate Jack w/ Stubs,SS
H	1	1	1	SM-N147	Chute, Scale, Weld On	S	1	1	1	NC-025008CF	Chute Divider & Brace Assy Model 54 Only
I, J	-	-	-	"Spinner Dishes & Blades" on page							
K	1	1	1	NC-0*5008AP	Chute Screw w/ Bearing * 1 = Mild, 2= Stainless Steel						


Rear Parts for All Hydraulic with Controller, All Spreader Models

Ref No	16"	24"	Part No.	Description	Ref No	16"	24"	Part No.	Description
11	1	1	HM-RE10 HM-RE10E	Hydraulic Motor, Parker, RE 10 Hydraulic Motor, Eaton, RE 10	48 and 49				See Roller Parts page <?>
11	1	1	HM-RE14 HM-RE14E	Hydraulic Motor, Parker, RE14 Hydraulic Motor, Eaton, RE14	50	2	2	NC-025005Q	Take Up Screw, 5/8" x 12"
11	1	1	HM-RE18 HM-RE18E	Hydraulic Motor, Parker, RE18 Hydraulic Motor, Eaton, RE18	50A	2	2	BN-SSAHN58	Take Up Screw Nut, 5/8"
11	1	1	HM-RE24 HM-RE24E	Hydraulic Motor, Parker, RE24 Hydraulic Motor, Eaton, RE24	51A	2	2	BR-TU112IMP**	Take Up Bearing, 1 1/2"
11B	1	-	GB-301095S	Gear Box, 1 1/2" LH, No Sensor	51B	2	2	BR-TU100IMP**	Take Up Bearing, 1"
11C	1	1	GB-301075S	Gear Box, 2" LH, No Sensor	52A	4	4	BN-SSHH122	Hex Head Bolt, 1/2" x 2"
11D [◇]	1	1	GB-301098S	Gear Box, 1 1/2" LH, Sensor [◇]	52B	4	4	BN-SSHN12	Hex Nut, 1/2"
11E [◇]	1	1	GB-301091S	Gear Box, 2" LH, Sensor [◇]	52C	16	16	BN-SSFW12	Flat Washer, 1/2"
11F	1	1	BN-AHSH5161	Allen Head Screw, 5/16" x 1" (2" Shaft)	53A	1	1	NC-015005DNP	Rear Roller Adapter, 2" LH Slot Sensor
23	2	2	HH-848FSO1210	Fitting, Hydraulic, 3/4 JIC x 5/8" O Ring	53B	1	1	NC-015005DVP	Rear Roller Adapter, 1 1/2" LH Slot Sensor
44A	1	-	CA-BCW16	Conveyor Chain, 16" Straight	54A	1	1	RA-0630171443	Raven Slot Sensor, 25' Cable, NC Std
44A	1	-	CA-CBCW16	Conveyor Chain, 16" Clinched	54B	1	1	MD-1200009 MD-1200009A	Dickey John 360 Slot Sensor, 25' Cable 360 Slot Sensor Adapter Cable
44B	-	1	CA-BC24	Conveyor Chain, 24" Straight	54R [◇]	1	1	MD-1605004KIT	MidTech Rate Sensor & Cable
44B	-	1	CA-BCHD24	Conveyor Chain, HD 24" Straight, Reinforced	Ref No. 54R [◇] Kit Includes			MD-4505114	Sensor Cable
44B	-	1	CA-CBCW24	Conveyor Chain, 24" Clinched				MD-1605000	Rate Sensor
47A	2	1	BR-PB112**	Pillow Block Bearing, 1 1/2"				MD-5005007	MT Rate Sensor U-Cup Seal
47B	2	2	BR-PB200**	Pillow Block Bearing 2"				MD-6010000	Clamp, Loop, 304 SST
47B	2	2	BR-PB200HD	Heavy Duty Pillow Block Bearing, 2"	55A	1	1	TP-HB038	Hose Barb, 3/8"
					55B	1	1	CL-0600	Clamp, 3/8" Stainless Steel
					55C	1	1	HO-CT38BPVC	Hose, 3 Feet Needed

[◇] Ref 11D, 11E Gear Box Sensor requires MD-1605004KIT. (Ref No. 54R)

** Offered in Stainless Steel.

** Heavy Duty Bearings available but are not interchangeable. Bearings require specific shaft height.

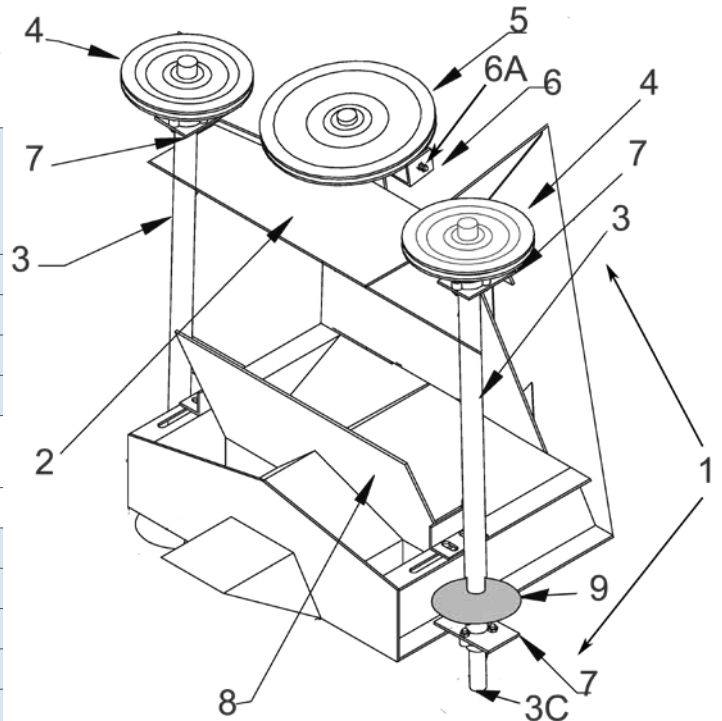
CHUTE ASSEMBLY MODEL 48 NC SERIES



BREAKDOWNS

Chute Assembly, Model 48

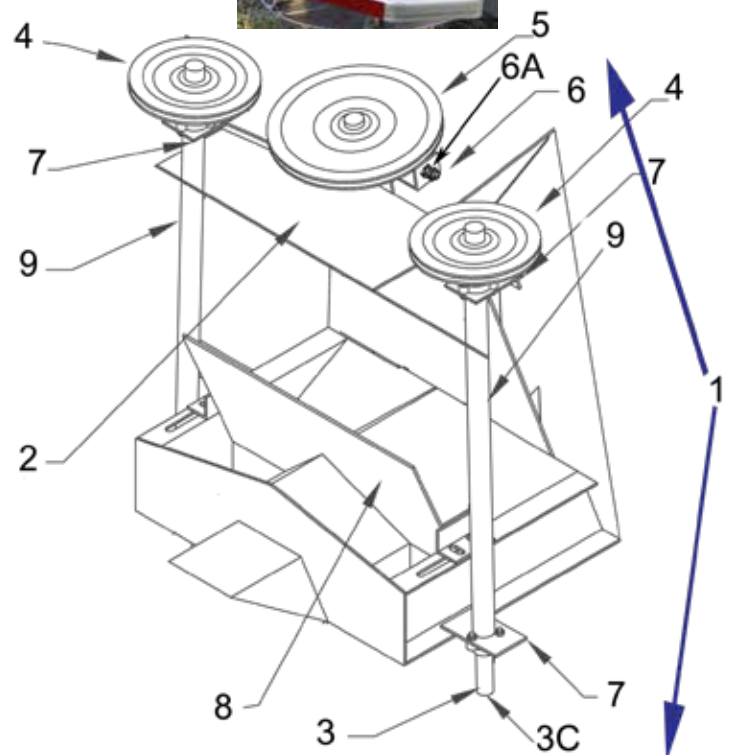
Ref No	Qty	Part No.	Description
1	1	NC-025008AM NC-025008BZ	Chute Assembly, Dual Spinners Chute Assembly, Single Spinner Both Assemblies Include: Ref 2,3,6,7,8,9 (pulleys not included)
2	1	NC-025079H	Upper Bearing Mounting Plate
3A	2	NC-015092P	Spinner Shafts
3B	2	PP-PVC100	PVC for Spinner Shafts
3C	1	KE-14112	Key, 1/4" x 1 1/2"
4	2	PU-DB965010**	Pulley, Single Groove 6", 1" Bore 540 RPM or 1000 RPM
5	1	PU-BV110801**	Idler Pulley, 6 1/2" x 5/8" Bore
6	1	NC-025077H	Belt Guide Assembly
6A	1	NC-025008CD	Belt Tension Adjustment, 3/8 Rod
7	4	BR-3BF100	Flange Bearing 1", 3 Bolt
8	1	NC-025008AA	Chute Material Deflector
9	2	SE-013713593	Clipper Oil Seal, 1 3/8"
		BT-BB122	Belt for Dual Spinners, 540
		BT-BB116	Belt for Dual Spinners, 1000
		BT-BB111	Belt for Single Spinners



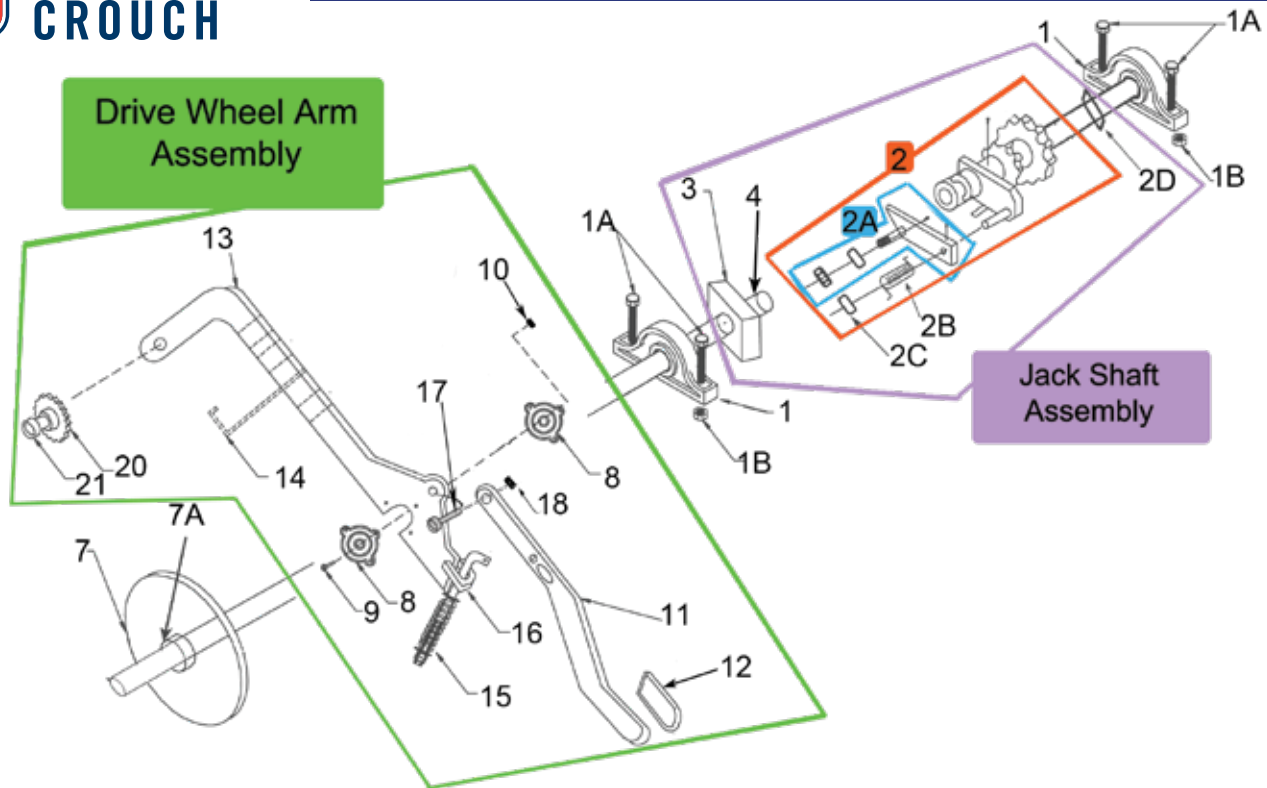
Picture Shows
Model NC5000
Chute Assembly with
Stainless Enclosures

Chute Assembly with Stainless Enclosures Model 48

Ref No	Qty	Part No.	Description
1	1	NC-025008AMSS	Chute Assembly Parts: Includes Ref 2,3,6,7,8,9 Pulleys not included
2	1	NC-025079T	Upper Bearing Mounting Plate
3	2	NC-015092P	Spinner Shafts
3C	1	KE-14112	Key, 1/4" x 1 1/2"
4	2	PUDB96501**	Pulley, Single Groove 6" x 1" Bore Not in Assembly
5	1	PU-BV110801**	Idler Pulley, 6 1/2" x 5/8" Bore Not in Assembly
6	1	NC-025077H	Belt Guide
6A	1	NC-025008CD	Belt Tension Adjustment, 3/8 Rod
7	4	BR-SS3BF100 BR-3BF100	3 Bolt Flange Bearing, 1" SS 3 Bolt Flange Bearing, 1"
8	1	NC-025008AA	Chute Material Deflector
9*	2	NC-025079S	Spinner Shaft Enclosures w/o Bearings
		BT-BB122	Belt for Dual Spinners, 540
		BT-BB116	Belt for Dual Spinners, 1000
		BT-BB111	Belt for Single Spinners



**NC uses solid pulleys. Riveted pulleys not recommended.



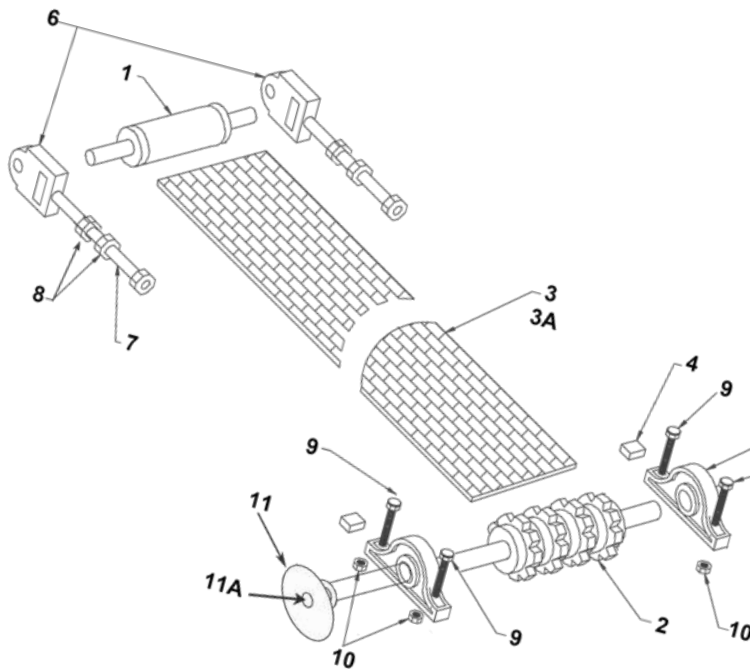
Ref.	Qty	Part No.	Description
1	1	BR-PB100IMP	Pillow Block Bearing, 1"
1A	4	BN-SSHH38112	Bolt, 3/8" x 1 1/2"
1B	4	BN-SSLN38	Lock Nut, 3/8"
	1	NC-015081F	Jack Shaft Assembly Regular or Wide Track Includes Ref 2A,2B,2C,2D,3,4
	1	NC-015081G	Jack Shaft Assembly Narrow Track Includes Ref 2A,2B,2C,2D,3,4
2	1	NC-015081H	NC Series Cluster Assembly Includes Ref 2A,2B,2C
2A	1	NC-015081A	Engage Finger Assembly w/ Roller Bushing & Grease Fitting
2B	1	SR-9287K97M	1/2" Torsion Spring, Modified Cut & Bent
2C	1	CL-500M	1/2" Set Collar Modified 1/8" Hole
2D	1	NC-015092D	Bushing, MS, 1 1/4" x 1/4" Wide
3	1	NC-015081A	NC Series Ratchet
4	1	NC-015092A	Ground Drive Jack Shaft, Narrow
4	1	NC-015092M	Ground Drive Jack Shaft, 72" Wide
7	1	SP-50B54X100	Sprocket, 54 Tooth
7A	1	KE-14112	Key

Note:

- Assemblies are commonly ordered parts grouped together. These parts often need to be replaced simultaneously.
- Even though the jack shaft is show within all colored boxes, it is only purchased individually (ref 4) or through the Jack Shaft Assembly
- Pillow Block Bearing is not included in any assembly.

Ref.	Qty	Part No.	Description
All Parts Within Green box	1	NC-015080AC	Drive Wheel Arm Assembly NC1500 & NC2000 Includes Ref 8-21
	1	NC-015080AB	Drive Wheel Arm Assembly NC5000 Includes Ref 8-21
	1	NC-015080AS	Drive Wheel Arm Assembly NC6000, NC8000 Includes Ref 8-21
8	2	BR-3BF100	3 Bolt Flange Bearing, 1"
9	3	BN-SSHH516134	SS, Bolt, 5/16" x 1 3/4"
10	3	BN-SSLN516	SS, Lock Nut, 5/15"
11	1	NC-025080Q	Handle Drive
12	1	FP-250HANDLECOVER	Handle Cover
13	1	NC-015080P	Drive Wheel Arm (NC1500, NC2000)
13	1	NC-015080A	Drive Wheel Arm (NC5000)
13	1	NC-015080AR	Drive Wheel Arm (NC6000, NC8000)
14	1	NC-025080V	Chain Support
15	1	NC-025080AJ	Engagement Arm Spring Tension Bolt
16	1	PM-015080F	Drive Wheel Arm Spring Plate
17	1	BN-SSHH342	SS, Bolt, 3/4" x 2"
18	1	BN-SSLN34	SS, Lock Nut, 3/4"
20	1	SP-50B17X58	Sprocket, 17 Tooth x 5/8" Bore
21	1	BN-HH582UNF	Bolt, 5/8" x 2"

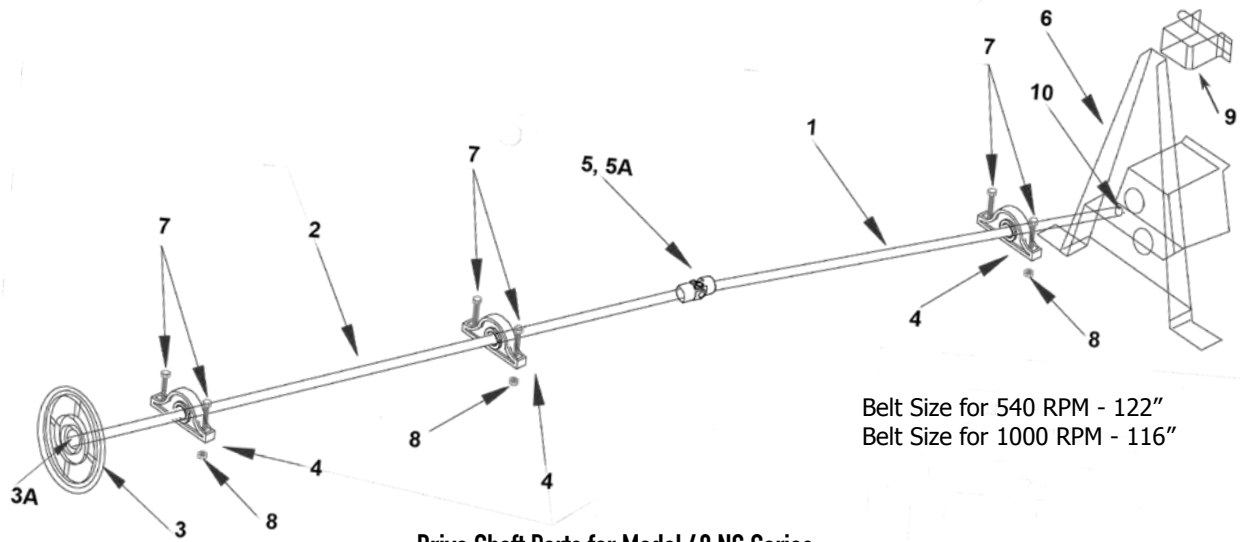
Conveyor Parts for Model 48 NC Series



Ref No.	Qty	Part No.	Description
1	1	CN-015005AB	Front Roller, 1" x 12, No Spkt
2	1	CN-015005AC	Rear Roller, 1" x 14 1/2", 4 Spkt
-	1	PM-025005CT	Rear Roller Cover Plate
3		CA-BC07	Bed Chain, 7" x 14' NC1500, NC 2000
3		CA-BC07	Bed Chain 7"x 16", NC5000
3		CA-BC07	Bed Chain, 7"x 20' NC6000, NC8000
3A	-	CA-SP07	Splice Pin, 7"
4	2	KE-516112	Bearing Stops, 5/16" x 1 1/2"
5	2	BR-PB100IMP	Bearing 1", Pillow Block
6	2	BR-TU100IMP	Bearing 1", Take Up
7	2	NC-025005Q	Screw, Take Up
8	4	BN-SSAHN58	Acme Nut, SS, 5/8"
9	4	BN-SSHH38112	Bolt, 3/8" x 1 1/2"
10	4	BN-SSLN38	Lock Nut, 3/8"
11	1	SP-205030X2050400	Transmission Sprocket, 40 & 30, 1" Bore
11A	1	KE-SK042112	Key, 5/16" x 1/4"

Model 48 NC Series Commonly Ordered Parts

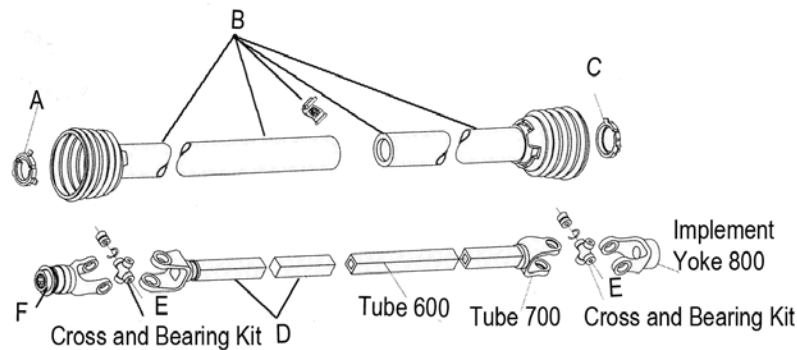
Part No.	Description	Part No.	Description	Part No.	Description
NC-025077K	Belt Guard Assembly	CA-HL50SS	Offset Link, 50, SS	Spinner Dishes and Blades	
NC-025010L	Gate Handle	CA-RCA2050XSS	Roller Chain, A2050, SS	NC-025006NRH	Spinner Dish Assy, SS, 10 Ga Dish & Blades, RH
SM-GS148	Gate Scale	CA-CLA2050SS	Connector Link, A2050, SS	NC-025006NLH	Spinner Dish, Assy, SS, 10 Ga Dish & Blades, LH
NC-025010AF	Gate Bracket Assy w/ Brackets & Gate	NC-015006H	Spinner Hubs, 1", Belt, NC Series	NC-025006MLH	Spinner Dish Assy, SS, 10 Gauge Dish & Blades, Single Spinner
NC-025010KLH	Gate Slide, Left Side	NC-025022M	Baffle Plate Assembly (NC Series)	NC-025006CRH	Spinner Dish Only, SS, 10 Ga, RH
NC-025010KRH	Gate Slide, Right Side	NC-025022K	Bumper, Regular Track	NC-025006CLH	Spinner Dish Only, SS, 10 Ga, LH
UJ-3930103930	Std Universal for Drive Shaft, 1"R x 1"R	NC-025022J	Bumper, Narrow Track	NC-025007KRH	Spinner Blade, SS, 10 Ga, RH
UJ-3930101230	Std Universal for Drive Shaft, 1"R x 1 1/4"R, 5/16	NC-025032I	Chain Guard	NC-025007KLH	Spinner Blade, SS, 10 Ga, LH
MS-WOODROLLER	2" x 3 1/2", Wood Tension Block	NC-025032D	Chain Guard, Narrow Track	BN-SSHH51634	Bolt, SS, 5/16" x 3/4", 2 per Blade Needed
NC-025010S	Wing Nut, Stainless	MS-4590	Slow Moving Vehicle Placard	BN-SSHN516	Nut, SS, 5/16", 2 per Blade Needed
BN-SSCB38412	Carriage Bolt, SS 3/8" x 4 1/2"	TR-92X96FIT	Tarp for NC5000		
BN-SSLN38	Locknut, 3/8" -16 UNC SS	TR-92X120FIT	Tarp for NC6000 or NC8000		
BN-SSFW12	Flat Washer, 1/2", SS	MS-BUNGEECORD	Bungee Cord for Tarp		
SP-50B54X100	Sprocket, 54 Tooth 1" Bore	NC-025082H	Inverted "V" Assy, NC5000		
CA-RC50SS	Roller Chain, 10' Roll, 50, SS	NC-025082I	Inverted "V" Assy, NC6000 & NC8000		
CA-CL50SS	Connector Link, 50, SS				



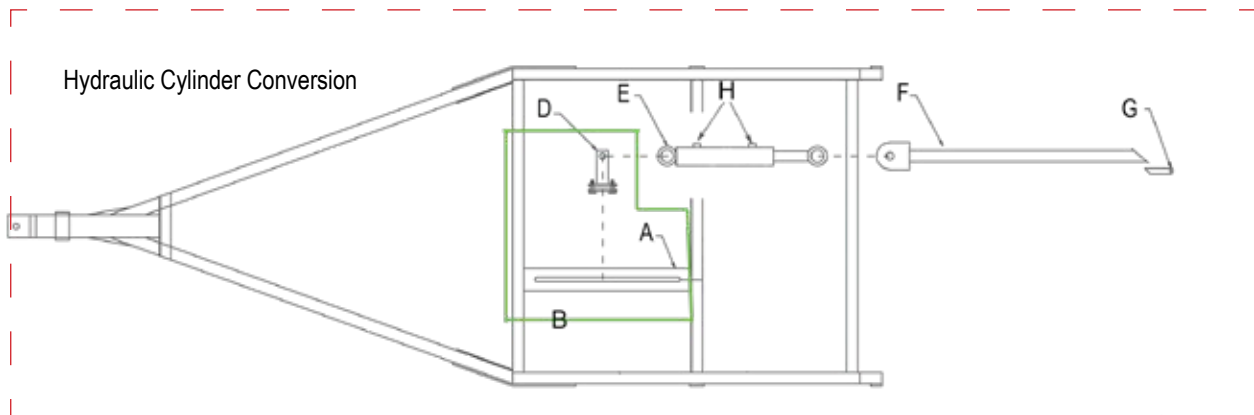
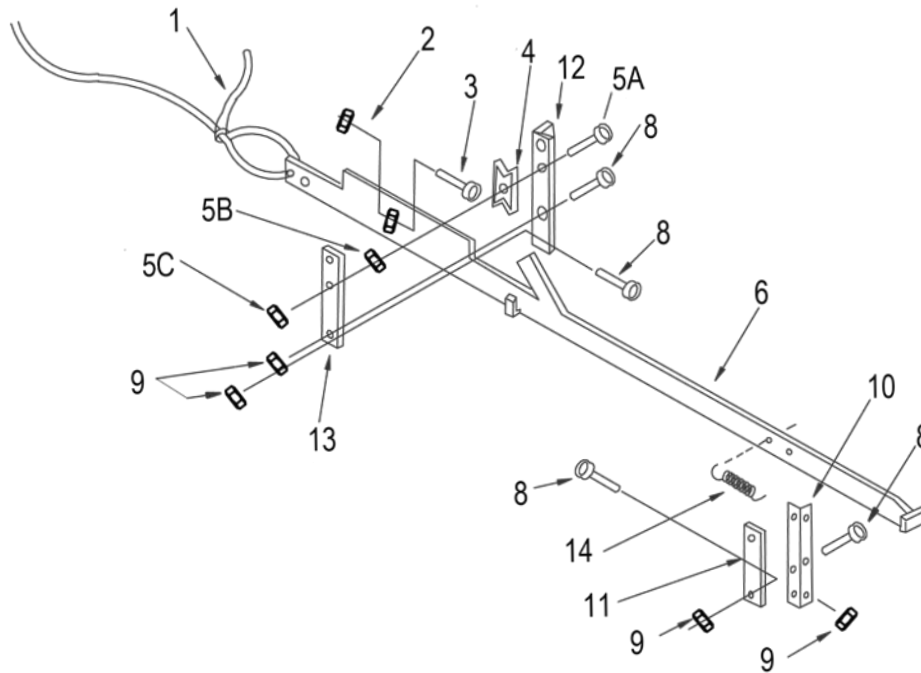
Belt Size for 540 RPM - 122"
Belt Size for 1000 RPM - 116"

Drive Shaft Parts for Model 48 NC Series

Ref. No.	540 RPM	1000 RPM	Part No.	Description	Ref. No.	540 RPM	1000 RPM	Part No.	Description
1	1	1	NC-015005AD	Front Drive Shaft (NC15000, NC2000, & NC5000)	3A	1	1	KE-14112	Key, 1/4" x 1 1/2"
1	1	1	NC-015005AG	Front Drive Shaft (NC6000 & NC8000)	4	3	3	BR-PB100IMP	Pillow Block Bearing, 1"
2	1	1	NC-015005AE	Rear Drive Shaft (NC1500 & NC2000)	5	1	1	UJ-393010393	STD Universal, 1"R x 1"R
2	1	1	NC-015005AF	Rear Drive Shaft (NC5000)	5A	2	2	KE-K15N	Woodruff Key, 1/4" x 1
2	1	1	NC-015005AH	Rear Drive Shaft (NC6000 & NC 8000)	6	1	1	NC-025079L	PTO Support Assembly
3	1	-	PU-DB128501	Pulley Single Groove 8", 1" Bore 540RPM	6	1	1	NC-025079Q	PTO Support Assy, Narrow Track
3	-	1	PU-DG412X100	Pulley Single Groove 4.5", 1" Bore 1000RPM	7	6	6	BN-SSH38112	Bolt 3/8" x 1 1/2"
					8	6	6	BN-SSLN38	Lock Nut, 3/8"
					9	1	1	NC-025079M	PTO Locking Assembly
					10	1	1	KE-14112	Key, 1/4" x 1 1/2"


540 PTO Shaft Parts for Model 48 NC Series NC6000 & NC8000

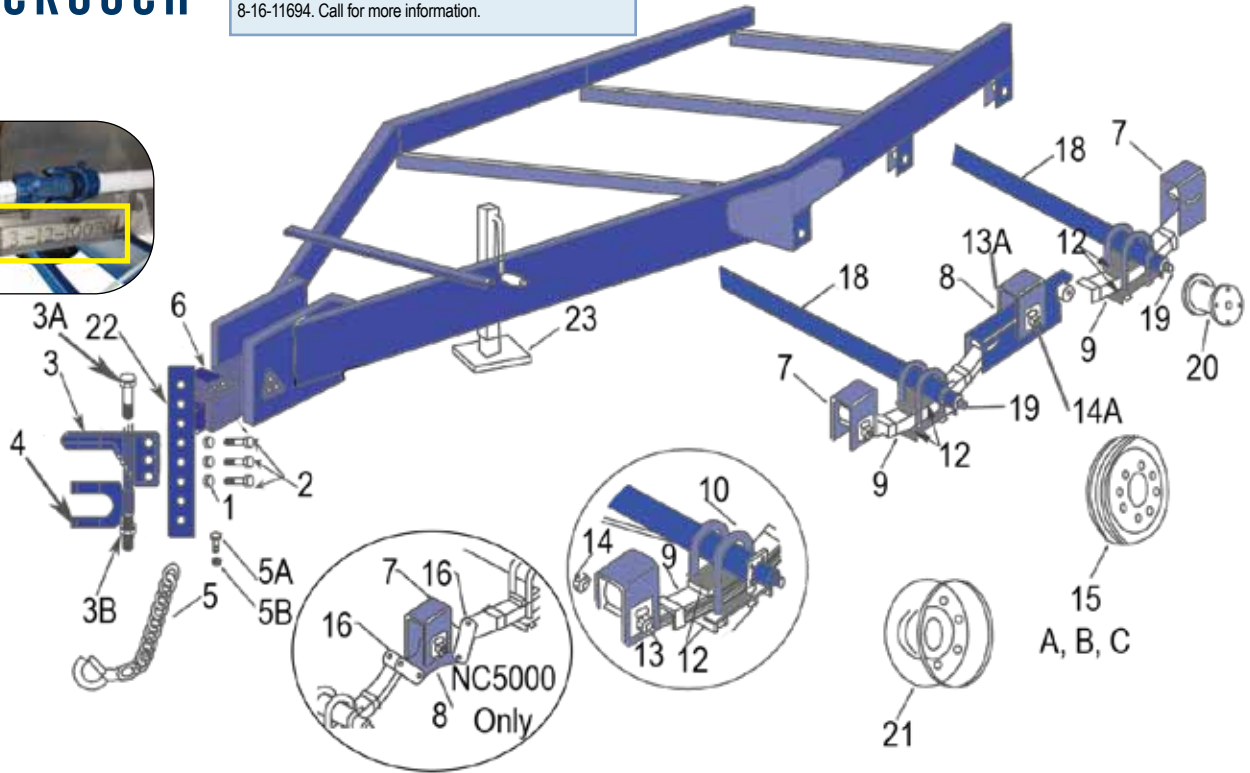
Ref. No.	Qty.	Part No.	Description	Ref. No.	Qty.	Part No.	Description
-	-	GB-TR6QDP38	PTO Shaft Assembly, 3/8", 6 Spline	B	1	GB-9002560	Shield, 250, Plastic, x 60 in
-	-	GB-TR6QDP38M	PTO Shaft Assy, 3/8", 6 Spline, Modified	C	1	GB-0415169	Bushing, AS250
-	-	GB-9721154	Outer Guard	D	1	GB-10000648	Assy., 6, Yoke, & Shaft x 48
-	-	GB-9621154	Inner Guard	E	2	GB-2000600	Cross and Bearing Kit, 6R
A	1	GB-9210600	Kit, Nylon 6, Easy Lock	F	1	GB-1020606	Yoke, 6, Trac, QD 1 3/8" x 6



Drive Engager for Model 48 NC Series

Ref. No.	Qty	Part No.	Description	Ref. No.	Qty	Part No.	Description
1	1	MS-38ROPE	Nylon Rope, 3/8" x 20'	13	1	PM-025080I	Front Guide Strap
2	1	BN-SSLN12	SS, Lock Nut, 1/2"	14	1	SR-N235028	Engaging Lever Detention Spring
3	1	BN-SSHH122	SS, Bolt, 1/2" x 2"	To Convert to Hydraulic Cylinder Engagement			
4	1	PM-025080C	Drive Engager Lock	A	1	NC-025080AN	Hydraulic Cylinder Platform
5A	1	BN-SSHH516114	SS, Bolt, 5/16" x 1 1/4"	B	1	NC-025080AI	Hydraulic Cylinder Platform Assembly (Includes Ref A & D)
5B	1	BN-SSFW516	SS, Flat Washer, 5/16"	D	1	NC-015049AT	Hydraulic Cylinder Adjustment Bracket w/ plate and bolts
5C	1	BN-SSLN516	SS, Lock Nut, 5/16"	E	1	HC-3020	Hydraulic Cylinder
6	1	NC-025080Z	Rope Drive Engager, Various Sizes: Model Required	F	1	NC-025080AG	Hydraulic Engager Arm Kit Various Sizes: Model Required
8	6	BN-SSHH38112	SS, Bolt, 3/8" x 1 1/2"	H	2	HH-849FS0808	Fitting, 1/2" NPT 1/2" JIC 90°
9	6	BN-SSLN38	SS, Lock Nut, 3/8"	I	4	BN-SSHH38112	Bolt, 3/8"
10	1	NC-025080J	Rear Guide		4	BN-SSLM38	Lock Nut, 3/8"
11	1	PM-025080K	Rear Guide Strap				
12	1	NC-025080H	Front Guide				

Serial Number needed to ensure proper parts are ordered. Changes in manufacturing have occurred. NC6000/NC8000 Trailer/Parts Numbers Shown are for Serial Numbers after 8-16-11694. Call for more information.



Ref No.	NC5000	NC6000 NC8000	NC8000 Brakes	Part No.	Description	Ref No.	NC5000	NC6000 NC8000	NC8000 Brakes	Part No.	Description
1	3	3	3	BN-LNGC34	Lock Nut, 3/4" Grade 8	13	6	-	-	HA-916312	Suspension Bolt & Nut
2	3	3	3	BN-HHG8347	Bolt, 3/4" x 7" Grade 8	14	6	-	-	HA-916312LN	9/16" x 3 1/2"
3	1	1	1	DI-CATEGORY3HITCH	Category 3 Hitch	13	-	4	4	HA-00726400	Spring Eye Bolt, 10K, 3/4"
3A	1	1	1	DI-CATEGORY3BOLT0	Category 3 Bolt	14	-	4	4	HA-00611300	Lock Nut, 3/4"
3B	1	1	1	DI-CATEGORY3NUT00	Category 3 Nut	13A	-	2	2	HA-00713602	Equalizer Bolt, 10K, 1" x 5 1/2"
4	1	1	1	DI-CATEGORY3CLEVIS	Category 3 Clevis	14A	-	2	2	HA-006112000	Lock Nut, 1"
5	2	2	2	CA-3FTSAFETYCHAIN	Safety Chain	15A	-	-	2	HA-608DRUM	Brake Drum, 13"
5A	2	2	2	BN-HH121234L9	Bolt, 1/2" x 1 1/4" L9	15B	-	-	1	DI-9651	Brake Plate, 13" RH
5B	2	2	2	BN-LN12L9	Lock Nut, 1/2" L9	15C	-	-	1	DI-9652	Brake Plate, 13" LH
6	-	-	1	DI-18117	Actuator w/o Clevis	16	8	-	-	PM-015047B	Shackle
7	6	-	-	BB-721585	Hanger	18	2	-	-	ST-TRC312212	Axle Tubing, 3 1/2" x 1/2" x 58 5/8"
7	-	1	1	HA-10GDH34K1	Hanger Kit Single	18	-	2	2	ST-TRC334500	Axle Tubing, 3 3/4" x 1/2" x 73 1/4"
8	2	-	-	HX-091301	Center Equalizer	19	4	-	-	HA-2873200L155000	Spindle
NA	1	-	-	HX-091401	Bushing 9/16" NC5000	19	-	4	4	HA-608SPINDLE	Spindle
8	-	1	1	HA-10GDH34K248	Hanger Kit Multi	20	1	-	-	NC-015083I	Sprocket Carrier
9	4	-	-	HX-093160	Double Eye Spring 8 Leaf	20	-	1	1	NC-015083F	Measurement Needed
9	-	4	4	HA-D07208001	Slipper Spring, 2 1/2"	21	1	-	-	WT-ASSY11X6LUG00	11L Tire x 6 Lug
10	8	-	-	BN-UB1218	U Bolt, 1/2"	21	1	-	-	WT-ASSY12X6LUG000	12L Tire x 6 Lug
10	-	8	8	BN-UBRD5820	U Bolt w/ Nuts, 3 3/4"	21	-	1	-	WT-ASSY165LX8LUG0	16.5 Tire x 8 Lug
12	8	-	-	PM-015058D	Axle Tie Down Plate*	21	-	-	1	WT-ASSY19LX8LUG00	19L Tire x 8 Lug
12	-	8	8	PM-015058E	Axle Tie Down Plate*	22	1	1	1	NC-015031F	Cat 3 Clevis Channel
						23	1	1	1	JA-190500M JA-190510M	Tongue Jack, 7000 lb Top Tongue Jack, 7000 lb Side

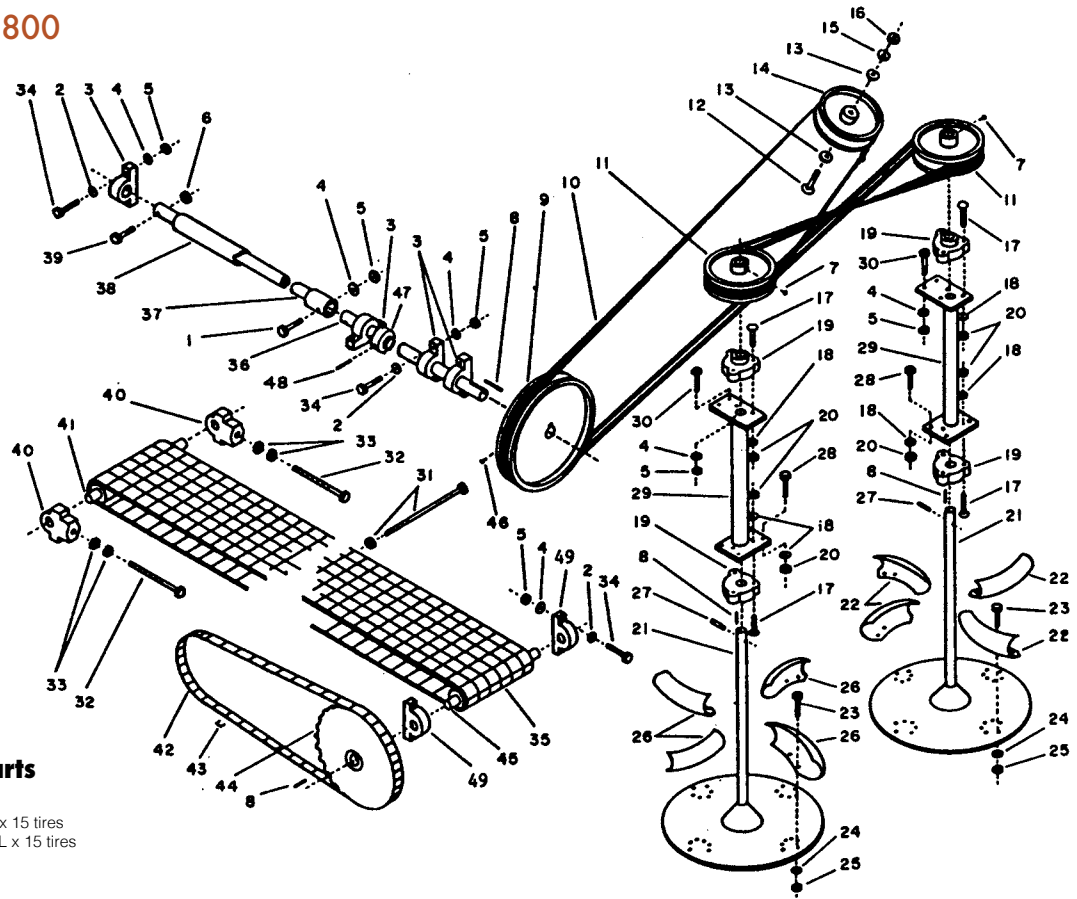
*8 Axle plates per trailer - 4 axle plates are welded to the axle, 4 axle plates are loose.

NC1500, NC2000, NC3000 have the same Hubs, Spindles, Jack, and Hitch as the NC 5000. Other parts differ. Call NC parts for assistance.
Units designed for field use only.

SPREADER DISTRIBUTION PARTS

S-500, S-600, S-800

BREAKDOWNS



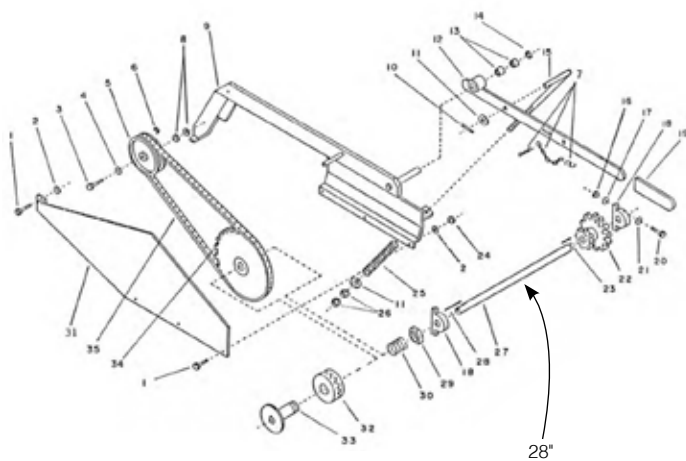
50ft Spread Pattern Parts

WR25845 50ft Spread Pattern Kit
 WR25829 Application Rate Decal-11L x 15 tires
 WR25830 Application Rate Decal-12.5L x 15 tires
 WR38791 V-Belt
 WR25841 5" Sheave

Item#	Part#	Req'd	Description	Item#	Part#	Req'd	Description
1	NAP	1	Hex. Hd. Cap Screw, 3/8" - 16 UNC x 1 1/4" Lg. (Grade 5)	29	15222	2	Distributor Mount
1	NAP	2	Flat Washer, 3/8" ID	30	NAP	2	Hex HD Cap Screw, 3/8" - 16 UNC x 1" Lg. (Grade 5)
3	10636	4	Pillow Block Bearing, 1" Bore	31	10513	1	Splice Pin and Nut
4	10420	15	Lock Washer, 3/8" ID	32	10270	2	Hex HD Cap Screw, 1/2" - 13 UNC x 5" Lg. SS
5	11508	15	Hex Nut, 3/8" - 16 UNC	33	11424	4	Hex Nut, 1/2" - 13 UNC
6	NAP	1	Center Lock Nut, 3/8" - 16 UNC	34	NAP	12	Hex HD Cap Screw, 3/8" - 16 UNC x 1 1/2" Lg. (Grade 5)
7	10240	4	Sq. Hd. Set Screw, 3/8" - 18 UNC x 3/4" Lg.	35	10506		S-500 Conveyor Chain, 192" Long
8	NAP	4	Key, 1/4" x 1/4" Keystock x 1 1/4" Lg.		10511		S-600 & S-800 Conveyor Chain, 243" Long
9	10454	1	Sheave, 8" Dia., Single Groove, 40ft.	36	21539		S-500 Rear Line Shaft
10	10487	1	V-Belt (BB-112), 40ft.		21540		S-600 & S-800 Line Shaft
11	10460	2	Sheave, 6" Dia., Deep Groove, "B" Section, 1" Bore, 1/4" x 1/4" Keyway	37	14805	1	Front Line Shaft S-500
12	NAP	1	Carriage Bolt, 3/8" - 11 UNC x 2 1/2" Lg.	38	14800	1	PTO Shield
13	NAP	2	Flat Washer, 3/8" ID	39	NAP	1	Hex HD Cap Screw, 3/8" - 16 UNC x 1 1/2" Lg. (Grade 5)
14	10464	1	V-Idler Sheave, 6 1/2" Dia., 3/8" Bore	40	10652	2	Take-up Bearing with Relube & 2 Set Screws, 1" Bore
15	10434	1	Lock Washer, 3/8" ID	41	15195	1	Front Roller
16	11532	1	Hex Nut, 3/8" - 11 UNC SS	42	WR10630		S-500 Conveyor Drive Chain - 41 1/4"
17	NAP	12	Carriage Bolt, 3/8" - 18 UNC x 1 1/2" Lg.		WR19129		S-600 & S-800 Conveyor Chain - 43 3/4" - RC-2050SS
18	NAP	16	Lock Washer, 3/8" ID		(2050-SS Per Inch)		RC-2050SS
19	10645	4	3-Hole Flange Bearing, 1" Bore	43	2050-CLSS	1	Connector Link, RC-2050SS
20	NAP	16	Hex Nut, 3/8" - 18 UNC	44	12363	1	Rear End Sprocket
21	16584	2	Distributor Fan	45	16597	1	Rear Drive Roller and Roller Shaft
	15226	1	Distributor Blade Kit (Includes Items 22 thru 26)	46	10241	2	Sq. HD Set Screw, 3/8" - 16 UNC x 3/8" Lg.
22	16583	4	Distributor Blade - Right	47	21533	1	Set Collar - Modified
23	NAP	16	Hex Hd. Cap Screw, 1/4" - 20 UNC x 3/4" Lg. (Grade 5)	48	NAP	1	Roller PIN, 1/4" Dia. x 1 1/2" Lg.
24	NAP	16	Lock Washer, 1/4" ID	49	10639	2	Pillow Block Bearing, 1" Bore
25	NAP	16	Hex Nut, 1/4" - 20 UNC		22001	1	PTO Assembly - Weasler 540- See page 310
26	16595	4	Distributor Blade - Left		10502		Bulk Conveyor Chain 7"
27	NAP	2	Roll Pin, 1/8" Dia. x 1 1/4" Lg.				
28	NAP	4	Hex. Hd. Cap Screw, 3/8" - 18 UNC x 1" Lg. (Grade 5)				

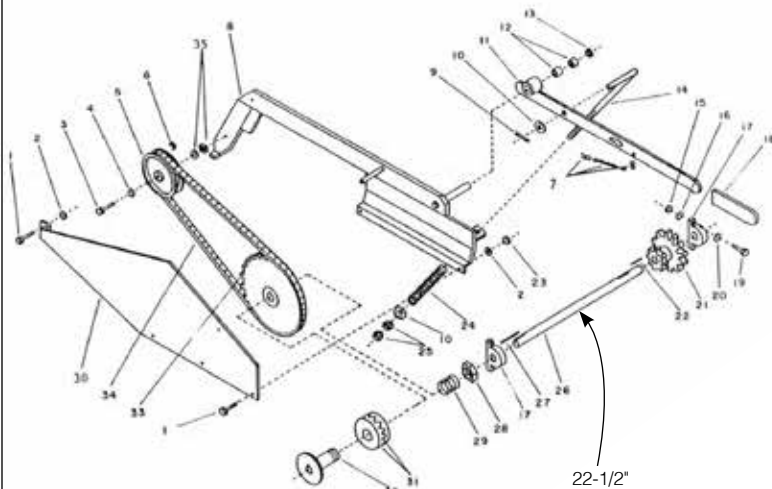
Willmar S-500 Ground Drive Parts

Item#	Part#	Req'd	Description
1	NAP	4	Hex HD Cap Screw, 1/4"-20 UNC x 3/4" Lg. (Grade 5)
2	NAP	4	Lockwasher, 1/4" ID
3	NAP	1	Hex HD Cap Screw, 5/8" - 18 UNF x 2" Lg. (Grade 5)
4	10423	1	Lockwasher, 5/8" ID
5	10461	1	Flat Idler Sheave, 4 1/2" Dia., 5/8" Bore
6	WRAC50C	1	Connector Link, RC-50
7	20992	1	Engaging Lever Chain Assembly
8	NAP	2	Flat Washer, SAE 5/8" ID
9	14878	1	Ground Drive Engaging Arm
10	NAP	1	Cotter Pin, 1/8" Dia., x 1 1/2" Lg
11	NAP	2	Flat Washer, 1/2" ID
12	15251	1	Engaging Lever
13	22547	2	Bushing - Nylon
14	10449	3	Set Collar, 1" ID
15	15095	1	Ground Drive Linkage
16	11508	4	Hex Nut, 3/8" -16 UNC
17	10420	4	Lock Washer, 3/8" ID
18	10636W	3	Pillow Block Bearing, 1" Bore
19	17317	1	Vinyl Grip
20	NAP	4	Hex ID Cap Screw, 3/8" - 16 UNC x 1 1/2" Lg. (Grade 5)
21	NAP	4	Flat Washer, 3/8" ID
22	12368	1	Drive Sprocket
23	NAP	1	Key, 1/4" x 1/4" Keystock x 1 1/4" Lg.
24	NAP	3	Hex Nut, 1/4" -20 UNC
25	16617	1	Spring
26	11525	2	Hex Nut, 1/2" -13 UNC
27	15093	1	Ground Drive Jack Shaft 28"
28	NAP	1	Key, 1/4" x 1/4" Keystock x 4" Lg.
	10663	1	Slip Clutch Assy. - Ratchet (includes items 29, 30, 32, 33 & 34)
29	10668	1	Slip Clutch Nut
30	10669	1	Slip Clutch Spring
31	15244	1	Outer Shield
32	10667	1	Slip Clutch Floating Jaw
33	10664	1	Slip Clutch Hub
34	10666	1	Sprocket, 50-A-54, 2" Bore
35	19130	1	Ground Drive Chain, RC-50 SS x 76 7/8" Lg.

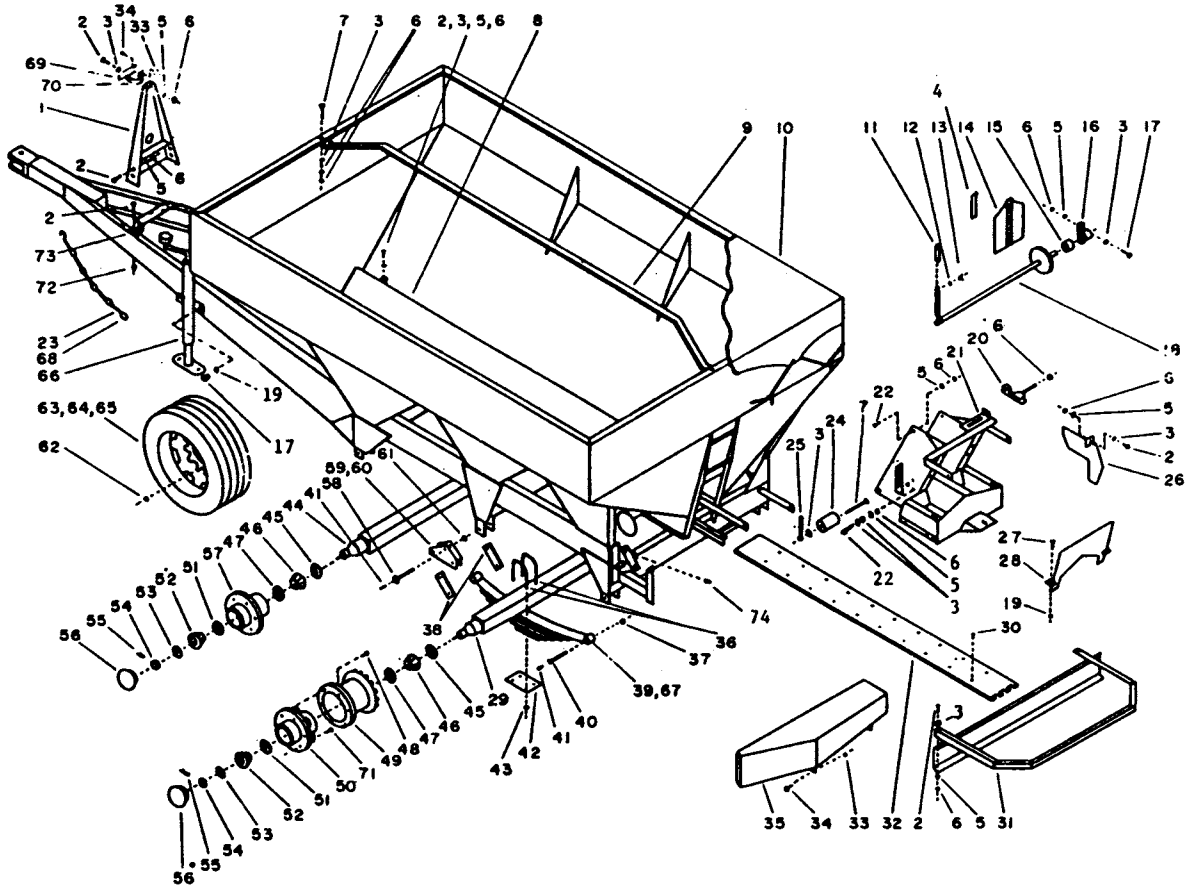


Willmar S-600/S-800 Ground Drive Parts

Item#	Part#	Req'd	Description
1	10121	4	Cap Screw, 1/4" - 20 UNC x 3/4" Lg. (Grade 5)
2	10418	4	Lock Washer, 1/4" ID
3	10215	1	Cap Screw, 3/8" 18 UNF x 2" Lg. (Grade 5)
4	10423	1	Lock Washer, 5/8" ID
5	10461	1	Flat Idler Sheave, 4 1/2" Dia., 5/8" Bore
6	WRAC50C	1	Connector Link, RC-50 SS
7	20992	1	Engaging Lever Chain Assembly
8	15246	1	Ground Drive Engaging Arm
9	10340	1	Cotter Pin, 1/8" Dia., x 1 1/2" Lg.
10	10403	2	Flat Washer, 1/2" ID
11	15251	1	Engaging Lever
12	22547	2	Bushing - Nylon
13	10449	1	Set Collar, 1" ID
14	15095	1	Ground Drive Linkage
15	11508	4	Hex Nut, 3/8" - 16 UNC
16	10420	4	Lock Washer, 3/8" ID
17	10636W	2	Pillow Block Bearing, 1" Bore
18	17317	1	Vinyl Grip
19	10140	4	Cap Screw, 3/8" - 16 UNC x 1 1/2" Lg. (Grade 5)
20	10401	4	Flat Washer, 3/8" ID
21	12368	1	Drive Sprocket
22	10369	1	Key, 1/4" x 1/4" Keystock x 1 1/4" Lg.
23	11491	8	Hex Nut, 1/4" - 20 UNC
24	16617	1	Spring
25	11525	2	Hex Nut, 1/2" - 13 UNC
26	15245	1	Ground Drive Jack Shaft 22-1/2"
27	10376	1	Key, 1/4" x 1/4" Keystock x 4" Lg.
	10663	1	Slip Clutch Assy. (Includes items 28, 29, 31, 32 & 33)
28	10668	1	Slip Clutch Nut
29	10669	1	Slip Clutch Spring
30	15244	1	Outer Shield
31	10667	2	Slip clutch Floating Jaw
32	10664	1	Slip Clutch Hub
33	10666	1	Sprocket, 50-A 43, 2" Bore
34	19128	1	Ground Drive Chain, RC-50 x 84 3/8" Lg. Ground Drive Chain, RC-50 x 84 3/8" Lg. SS(Opt.)
35	NAP	2	Flat Washer, SAE 5/8" ID



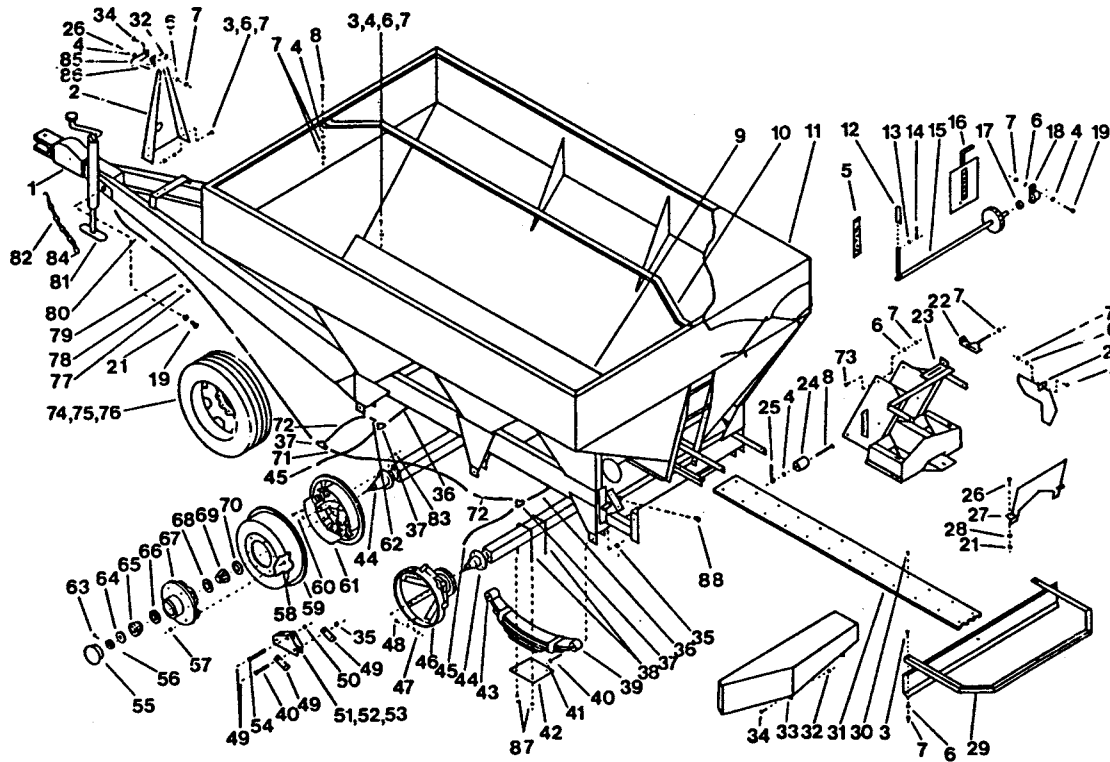
S-500 PARTS



Item#	Part#	Req'd.	Description
1	15152	1	PTO Support
2	10138	14	Hex HD Cap Screw, 3/8" - 16 UNC x 1" Lg. (Grade 5)
3	10401	17	Flat Washer, 3/8" ID
4	20957	1	20° Gate Scale
5	10420	20	Lockwasher, 3/8" ID
6	11508	25	Hex Nut, 3/8" - 16 UNC
7	10233	3	Carriage Bolt, 3/8" - 16 UNC x 4 1/2" Lg. (Grade 5)
8	14251	1	Conveyor Hood
	19232	1	Conveyor Hood-SS (Not Shown, used on 409 SS Hopper - Option 00201)
9	14857	1	Tarp Bow
10	17471	1	Tarp w/Shock Cord
11	17332	1	Vinyl Grip
12	10400	1	Flat Washer, 3/8" ID (included w/item 18)
13	21701	1	Wing Nut (included w/item 18)
14	21193	1	Rear Gate
15	10448	1	Set Collar, 3/4" ID
16	10654	1	Journal Bearing, 3/4" Bore
17	10139	3	Hex HD Cap Screw, 3/8" - 16 UNC x 1 1/2" Lg. (Grade 5)
18	14855	1	Metering Shaft
19	11516	3	Serrated Flange Nut, 3/8" - 16 UNC
20	11523	1	Belt Guide
21	16080	1	Rear End
22	10137	6	Hex HD Cap Screw, 3/8" - 16 UNC x 3/4" Lg. (Grade 5)
23	10519	2	Safety Chain, 3/8" x 3' Lg. w/Grab Hook
24	16548	1	Bushing - Hardwood
25	22743	1	Wing Nut
26	16133	1	Divider
27	17813	3	Carriage Bolt, 3/8" - 16 UNC x 1" Lg. SS
28	16065	1	Rear Deflector
29	20064	1	Axle
30	10446	20	Pop Rivet, 3/8" x 3/8" to 1/2" Lg. SS
31	19233	1	Splash Shield and Bumper
32	14798	1	Ryertex Floor Plate
33	11503	3	Center Lock Nut, 3/8" - 18 UNC
34	10131	3	Hex HD Cap Screw, 3/8" - 18 UNC x 1" Lg. (Grade 5)
35	15232	1	Rear Belt Shield
36	15058	8	U-Bolt
37	11530	12	Center Lock Nut, 3/8" - 18 UNF
38	15504	8	Shackle Arm
39	20538	4	Spring Assembly w/Bushings
	20611	4	Main Leaf Spring (included w/item 39)
	27230	8	Retaining Clip & Top (not shown - included w/item 39)
40	15506	12	Spring Bolt
41	16472	14	Straight Grease Zerk, 3/8" - 28 UNF

Item#	Part#	Req'd.	Description
42	15059	4	Clip Plate
43	11537	16	Self-Locking Nut, 3/8" - 18 UNF
44	15065	1	Axle
45	15487	4	Grease Seal
46	15488	4	Inner Bearing Cone
47	15494	4	Inner Bearing Cup (included w/items 50 & 57)
48	10268	6	Socket HD Set Screw, 1/2" - 20 UNF x 1" Lg. (Grade 5)
49	14875	1	Ground Drive Hub and Sprocket
50	19123	1	Hub - Brake w/Bearing Cups
51	15493	4	Outer Bearing Cup (included w/items 50 & 57)
52	15490	4	Outer Bearing Cone
53	10413	4	Flat Washer, 3/8" ID (Extra Heavy)
54	11550	4	Castle Nut, 3/8" - 14 UNF
55	10340	4	Cotter Pin, 3/8" Dia., x 1 1/2" Lg.
56	15491	4	Hub Cap
57	19122	3	Hub - Plain w/Bearing Cups
58	15129	2	Equalizer Bolt
59	15500	2	Equalizer Arm w/Bushings
60	15503	2	Bushing (included w/item 59) for frame
	15507	4	Bushing for Leaf Springs
61	11546	2	Center Lock Nut, 3/8" - 16 UNF
62	19125	24	Wheel Nut, 3/8" - 20 UNF w/90° Bevel (included w/items 50 & 57)
63	10732	4	Tire, 11L x 15 - 8 Ply Tubeless
	10734	4	Tire, 12.5L x 15 - 8 Ply Tubeless (optional)
64	10827	4	Wheel, 10 x 15 - 6 Holes on 6" Dia. Bolt Circle
65	10838	4	Valve Stem w/Cap - Rubber
66	22432	1	Jack Assembly (see replacement parts)
67	25415	8	Bushing (included w/item 39)
68	24710	1	Carriage Bolt, 1/2" UNC Full Thread x 2 1/2" Lg.
69	10493	1	Latch
	10491	1	PTO Clamp Assembly (includes items 67, 70 and one each of items 33 and 34)
70	10492	1	PTO Clamp
71	19124	24	Wheel Stud, 3/8" - 20 UNF x 1 1/2" Lg. (included w/items 50 & 57)
72	11513	2	Center Lock Nut, 3/8" - 16 UNC
73	20534	1	PTO Bearing Mount
74	16470	1	90° Grease Zerk, 3/8" - 27 NPT
75	24810	2	Equalizer Hanger
76	24809	2	Outside Hanger
77	14820	2	Spring Hanger
78	11525	1	Hex Nut, 1/2" - 13 UNC
79	24980	1	Clip (included w/item 18)
	20427		Chain Guide (not shown, included w/item 49)

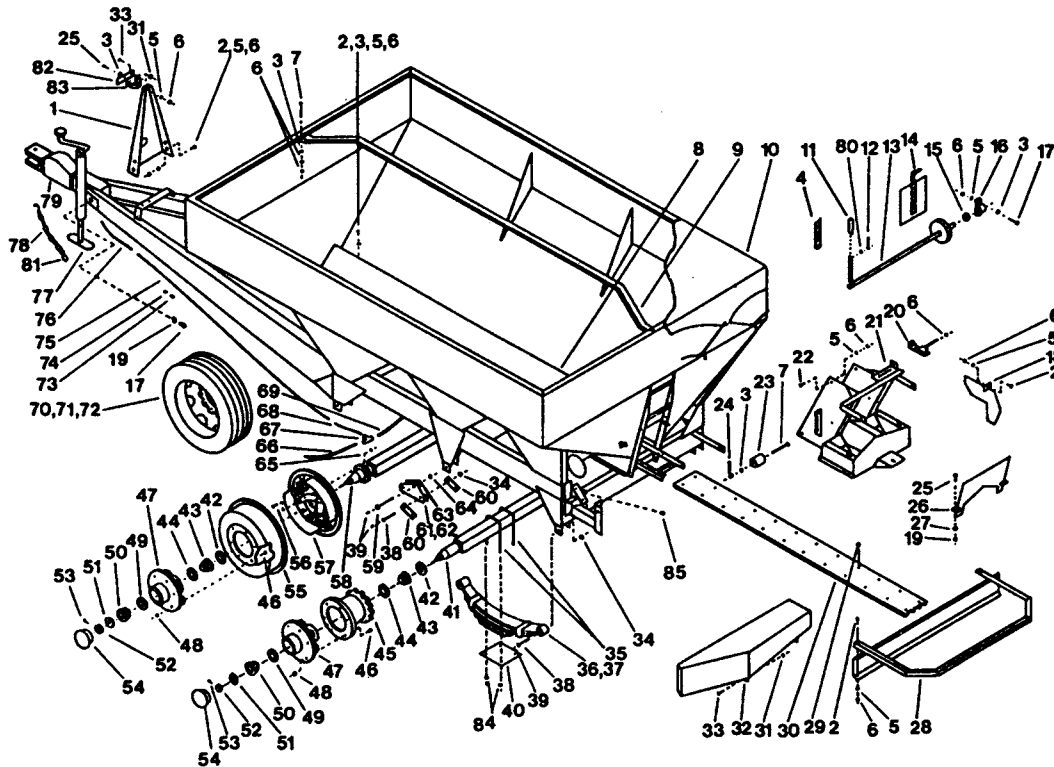
NOTE: When equipped with optional rope control or single spinner option, item 25 part number is 22743.



Item#	Part#	Req'd.	Description
1	15375	1	Brake Actuator Assembly (See Replacement Parts)
2	15152	1	PTO Support
3	NAP	14	Hex HD Cap Screw, 3/8" - 16 UNC x 1" Lg. (Grade 5)
4	NAP	12	Flat Washer, 3/8" ID
5	20957	1	Gate Scale
6	10420	23	Lockwasher, 3/8" ID
7	11508	28	Hex Nut, 3/8" - 16 UNC
8	10233	3	Carriage Bolt, 3/8" - 16 UNC x 4 1/2" Lg. (Grade 5)
9	15179	1	Conveyor Hood
	19172	1	Conveyor Hood - SS (not shown, used on 409 SS Hopper Option 00203)
10	15187	1	Tarp Bow
11	17469	1	Tarp w/Shock Cord
12	17332	1	Vinyl Grip
13	NAP	1	Flat Washer, 5/16" ID (included w/item 15)
14	21701	1	Wing Nut (included w/item 15)
15	14855	1	Metering Shaft
16	21193	1	Rear Gate
17	10448	1	Set Collar, 3/4" ID
18	10654	1	Journal Bearing, 3/4" Bore
19	NAP	3	Hex HD Cap Screw, 3/8" - 16 UNC x 1 1/4" Lg. (Grade 5)
20	16133	1	Divider
21	NAP	3	Serrated Flange Nut, 3/8" - 16 UNC
22	15238	1	Belt Guide
23	16080	1	Rear End
24	16458	1	Hardwood Tightener Block
25	11512	1	Box Rod Nut, 3/8" - 16 UNC (See Note)
26	17813	3	Carriage Bolt, 3/8" - 16 UNC x 1" Lg. SS
27	16065	1	Rear Deflector
28	17815	2	Flat Washer, 3/8" I.D., SS
29	19171	1	Splash Shield and Bumper
30	NAP	26	Rivet, 3/16" x 3/8" to 1/2" Lg. SS
31	15125	1	Ryertex Floor Plate
32	NAP	3	Center Lock Nut, 5/16" - 18 UNC
33	15232	1	Rear Belt Shield
34	NAP	3	Hex HD Cap Screw, 5/16" - 18 UNC x 1" Lg. (Grade 5)
35	11546	12	Center Lock Nut, 3/4" - 16 UNF
36	15328	2	Tubing Assembly, 50" Lg.
37	15344	3	Frame Tee w/Clip
38	16717	8	Axle U-Bolt
39	16718	4	Spring Assembly w/Bushings
40	15129	12	Spring Bolt
41	16472	14	Straight Grease Zerk, 1/4" - 28 UNF
42	16716	4	Spring Plate
43	16719	8	Bushing (included w/item 39)
44	15145	2	Axle Weldment w/Brake Flanges
45	15318	2	Tubing Assembly 17" Lg.
46	16740	1	Ground Drive Hub - Brake

Item#	Part#	Req'd.	Description
47	NAP	2	Center Lock Nut, 5/16" - 18 UNC
48	NAP	2	Hex HD Cap Screw, 5/16" - 18 UNC x 2" Lg. (Grade 5)
49	15162	8	Shackle Arm w/o Stops
50	11559	2	Center Lock Nut, 1" - 14 UNF
51	15154	2	Equalizer Arm w/Bushings
52	15157	4	Bushings (included w/item 51)
53	14341	2	Bushings (included w/item 51)
54	15130	2	Equalizer Bolt
55	15433	4	Hub Cap
56	15439	4	Spindle Nut, 1" - 14 UNF
57	15443	32	Wheel Bolt Nut, 5/16" - 18 UNF
58	15440	32	Wheel Bolt, 5/16" - 18 UNF x 1 1/2" Lg. (Grade 5)
59	15429	4	Brake Drum
60	10215	8	Hex. Head Cap Screw, 1/2" - 20 UNF x 1" Lg. (Grade 5)
61	15427	2	L.H. Brake Cluster Assembly
	15428	2	R.H. Brake Cluster Assembly
62	15316	1	Tubing Assembly, 2 1/2" Lg.
63	NAP	4	Cotter Pin, 3/16" Dia., 1 1/2" Lg.
	20429		Chain Guide (Not Shown, included w/item 46)
64	14327	4	Spindle Washer, 1" I.D.
65	15436	4	Outer Bearing Cone
66	15441	4	Outer Bearing Cup (included w/item 67)
67	15435	4	Hub w/Nearing Cups
68	15442	4	Inner Bearing Cup (included w/item 67)
69	15434	4	Inner Bearing Cone
70	15433	4	Grease Seal
	15460	1	4-Wheel Brake Line Kit w/Fittings (includes Items 36, 67, 45, 62, 61, 71, 72 and 77 thru 80)
71	15325	1	Tubing Assembly, 45" Lg.
72	15343	2	Hydraulic Hose Assembly, 18 1/8" Lg.
73	NAP	6	Hex HD Cap Screw, 3/8" - 16 UNC x 3/4" Lg. (Grade 5)
74	NAP	4	Tire, 19L x 16.1, 10 Ply Tubeless
75	10828	4	Wheel, 11 x 16.1
76	NAP	4	Valve Stem w/cap, Rubber
77	15346	3	Hose Bracket
78	15345	3	Hose Clip
79	15335	1	Tubing Assembly, 82" Lg.
80	15342	1	Hydraulic Hose Assembly, 13" Lg.
81	22432W	1	Jack Assembly (See Replacement Parts)
82	10519	2	Safety Chain 5/16" x 3' Lg. w/5/16" Grab hook
83	11529	16	Hex Nut, 1/2" - 20 UNF
84	10515	2	Quick Link, 3/8"
85	10493	1	Latch
	10491	1	PTO Clamp Assembly (includes Items 85, 86 and One each of items 32 and 34)
86	10492	1	PTO Clamp
87	NAP	16	Nut, 3/4" - 16 UNF (Nylock)
88	16470	1	90° Grease Zerk, 1/8" - 27 NPT

NOTE: When Equipped With Optional Rope Control Item 25 Part #3 is 22743.



Item	Part No.	Req'd.	Description
1	15152	1	PTO Mount
2	NAP	14	Hex HD Cap Screw, 3/8" - 16 UNC x 1" Lg. (Grade 5)
3	NAP	12	Flat Washer, 3/8" ID
4	20957	1	Gate Scale
5	10420	22	Lockwasher, 3/8" ID
6	11508	28	Hex Nut, 3/8" - 16 UNC
7	10233	3	Carriage Bolt, 3/8" - 16 UNC x 4 1/2" Lg. (Grade 5)
8	15179	1	Conveyor Hood
	19172	1	Conveyor Hood-SS (not shown, used on 409 SS Hopper - option 00202)
9	15187	1	Tarp Bow
10	17469	1	Tarp w/Shock Cord
11	17332	1	Vinyl Grip
12	21701	1	Wing Nut (included w/item 13)
13	14855	1	Metering Shaft
14	21193	1	Rear Gate
15	10448	1	Set Collar, 3/4" ID
16	10654	1	Journal Bearing, 3/4" Bore
17	NAP	3	Hex HD Cap Screw, 3/8" - 16 UNC x 1 1/4" Lg. (Grade 5)
18	16133	1	Divider
19	NAP	3	Serrated Flange Nut, 3/8" - 16 UNC
20	15238	1	Belt Guide
21	16080	1	Rear End
22	NAP	6	Hex HD Screw, 3/8" - 16 UNC x 3/4" Lg. (Grade 5)
23	16548	1	Hardwood Tightener Block
24	11512	1	Box Rod Nut, 3/8" - 16 UNC (See Note)
25	17813	3	Carriage Bolt, 3/8" - 16 UNC x 1" Lg. SS
26	16065	1	Rear Deflector
27	17815	2	Flat Washer, 3/8" ID, SS
28	19171	1	Splash Shield and Bumper
29	NAP	26	Rivet, 3/16" x 3/8" to 1/2" Lg. SS
30	15125	1	Ryertex Floor Plate
31	NAP	3	Center Lock Nut, 5/16" - 18 UNC
32	15232	1	Rear Belt Shield
33	NAP	3	Hex HD Cap Screw, 5/16" - 18 UNC x 1" Lg. (Grade 5)
34	11546	12	Center Lock Nut, 3/4" - 16 UNF
35	16717	8	Axle U-Bolt
36	16718	4	Spring Assembly w/Bushings
37	16719	8	Bushing (included w/item 36)
38	15129	12	Spring Bolt
39	16472	14	Straight Grease Zerk, 1/4" - 28 UNF
40	16716	4	Spring Plate
41	15150	1	Axle Weldment w/o Brake Flanges
42	15433	4	Grease Seal
43	15434	4	Inner Bearing Cone
44	15442	4	Inner Bearing Cup (included w/item 47)
45	15265	1	Hub

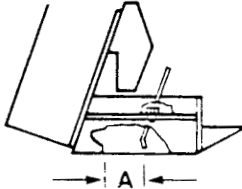
Item	Part No.	Req'd.	Description
46	15440	32	Wheel Bolt, 9/16" - 18 UNF x 2 1/2" Lg. (Grade 5)
47	15435	4	Hub w/Bearing Cups
48	15443	32	Wheel Bolt Nut, 9/16" - 18 UNF
49	15441	4	Outer Bearing Cup (included w/item 47)
50	15436	4	Outer Bearing Cone
51	15437	4	Spindle Washer, 1" ID
52	15439	4	Spindle Nut, 1" - 14 UNF
53	NAP	4	Cotter Pin, 3/16" Dia. x 1 1/2" Lg.
54	15438	4	Hub Cap
55	15429	2	Brake Drum
56	10215	8	Hex HD Cap Screw, 1/2" - 20 UNF x 1" Lg. (Grade 5)
57	15427	1	L.H. Brake Cluster Assembly
	15428	1	R.H. Brake Cluster Assembly
58	15145	1	Axle Weldment w/Brake Flanges
59	15130	2	Equalizer Bolt
60	15162	8	Shackle Arm w/o Stops
61	16154	2	Equalizer Arm w/Bushings
62	15157	4	Bushing (included w/item 61)
63	14341	2	Bushing (included w/item 61)
64	11559	2	Center Lock Nut, 1" - 14 UNF
65	11529	8	Hex Nut, 1/2" - 20 UNF
	15459	1	2-Wheel Brake Line Kit w/Fittings (includes items 66 thru 69 and 73 thru 76)
66	15318	1	Tubing Assembly 17" Lg.
67	15344	1	Frame Tee w/Clip
68	15343	1	Hydraulic Hose Assembly, 18 1/8" Lg.
69	15328	1	Tubing Assembly, 50" Lg.
70	NAP	4	Tire, 16.5L x 16.1, 8 Ply Tubeless
	NAP	4	Tire, 19L x 16.1, 10 Ply Tubeless (Optional)
71	10828	4	Wheel 11 x 16.1
72	NAP	4	Valve Stem w/Cap, Rubber
73	15345	2	Hose Clip
74	15346	2	Hose Bracket
75	15335	1	Tubing Assembly, 82" Lg.
76	15342	1	Hydraulic Hose Assembly, 13" Lg.
77	22432W	1	Jack Assembly (See Replacement Parts)
78	10519	2	Safety Chain, 3/16" x 3' Lg. w/3/16" Grab Hook
79	15375	1	Brake Actuator Assembly (See Replacement Parts)
80	NAP	1	Flat Washer, 3/16" I.D. (included w/item 13)
81	10515	2	Quick Link, 3/8"
	20429		Chain Guide (Not Shown, included w/item 45)
82	10493	1	Latch
	10491	1	PTO Clamp Assembly (included items 82, 83 and One each of items 31 and 33)
83	10492	1	PTO Clamp
84	NAP	16	Nut, 3/4" - 16 UNF (Nylock)
85	16470	1	90° Grease Zerk, 1/8" - 27 NPT

NOTE: When Equipped With Optional Rope Control Item 24 Part # is 22743.

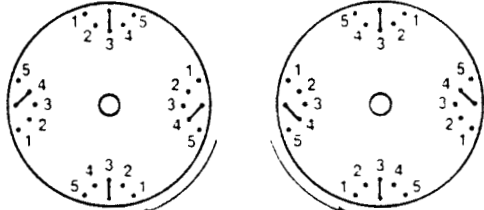
Spread Pattern - Dual Spinner Spreaders

Before attempting any spread pattern adjustment, determine the actual spread pattern. The spread pattern test kit used - cat. number 00108A - is available through Willmar Manufacturing. If spread pattern adjustments are needed, follow the instructions in the illustration below.

CAUTION ADJUST BLADES ONLY ON BASIS OF ACCURATE SPREAD PATTERN MEASUREMENT. WILLMAR MANUFACTURING IS NOT RESPONSIBLE FOR CROP LOSS DUE TO AN IMPROPERLY ADJUSTED SPREADER.



REAR DEFLECTOR ADJUSTMENT



SPINNER BLADE POSITIONS

THIS SPREADER IS FACTORY ADJUSTED FOR OPTIMUM PATTERN USING AN AVERAGE BLEND OF FERTILIZER. PARTICULAR FERTILIZERS OR SPREADING CONDITIONS MAY REQUIRE SOME ADJUSTMENT. IT IS RECOMMENDED THAT A SPREAD PATTERN TEST BE PERFORMED BEFORE EACH SEASON.

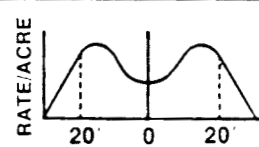
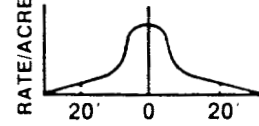
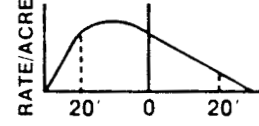
ADJUSTMENT GUIDELINES

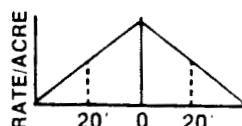
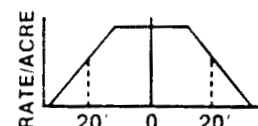
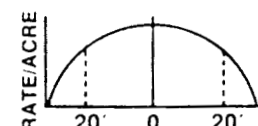
THE SPINNER BLADES ARE THE PRIMARY MEANS OF ADJUSTMENT. IF THEY PROVE INADEQUATE, THE REAR DEFLECTOR CAN ALSO BE USED TO CORRECT THE PATTERN.

OPTIMUM SPINNER RPM SHOULD BE MAINTAINED, HOWEVER, IT CAN BE USED TO ALTER THE SPREAD PATTERN IF THE SPINNER BLADES AND DEFLECTOR PROVE INADEQUATE. ON TRUCK UNITS, POSITION REAR DEFLECTOR FOR AN "A" DIMENSION OF 5.20 IN. PULL TYPE UNITS - 2.50 IN.

TRUCK UNITS: 800-900

PULL TYPE UNITS: 750-850

SPREAD PATTERN	RECOMMENDED CORRECTIVE ACTION
<p>LOW AT CENTER HIGH AT SIDES</p> 	<ol style="list-style-type: none"> 1. MOVE ONE OR TWO SPINNER BLADES TO A HIGHER NUMBERED HOLE. 2. REDUCE DIMENSION "A". 3. INCREASE SPINNER RPM.
<p>HIGH AT CENTER LOW AT SIDES</p> 	<ol style="list-style-type: none"> 1. MOVE ONE OR TWO SPINNER BLADES TO A LOWER NUMBERED HOLE. 2. INCREASE DIMENSION "A". 3. DECREASE SPINNER RPM.
<p>PATTERN OFF CENTER</p> 	<ol style="list-style-type: none"> 1. CHECK CENTER DIVIDER - STRAIGHTEN OR CENTER IF REQ'D. 2. SPINNER BLADE SETTINGS SHOULD BE IDENTICAL ON EACH SPINNER. 3. CHECK ALL COMPONENTS FOR CONDITION AND PROPER ADJUSTMENT.

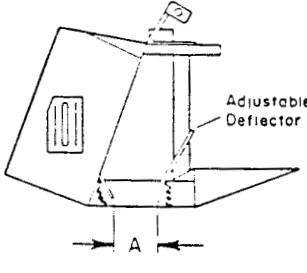
ACCEPTABLE PATTERNS

SINGLE SPINNER SPREADERS

Spread Pattern – Single Spinner Spreaders

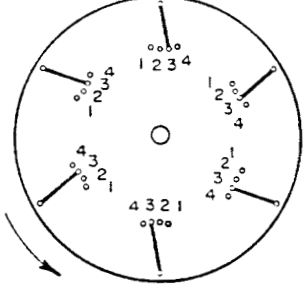
Before attempting any spread pattern adjustment, determine the actual spread pattern. The spread pattern test kit used — cat. number 00108A — is available through Willmar Manufacturing. If spread pattern adjustments are needed, follow the instructions in the illustration below.

CAUTION ADJUST BLADES ONLY ON BASIS OF ACCURATE SPREAD PATTERN MEASUREMENT. WILLMAR MANUFACTURING IS NOT RESPONSIBLE FOR CROP LOSS DUE TO AN IMPROPERLY ADJUSTED SPREADER.



Adjustable Deflector

REAR DEFLECTOR ADJUSTMENT



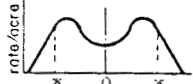
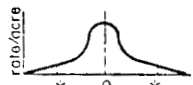
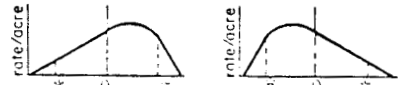
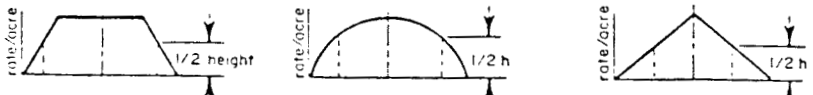
SPINNER BLADE POSITION

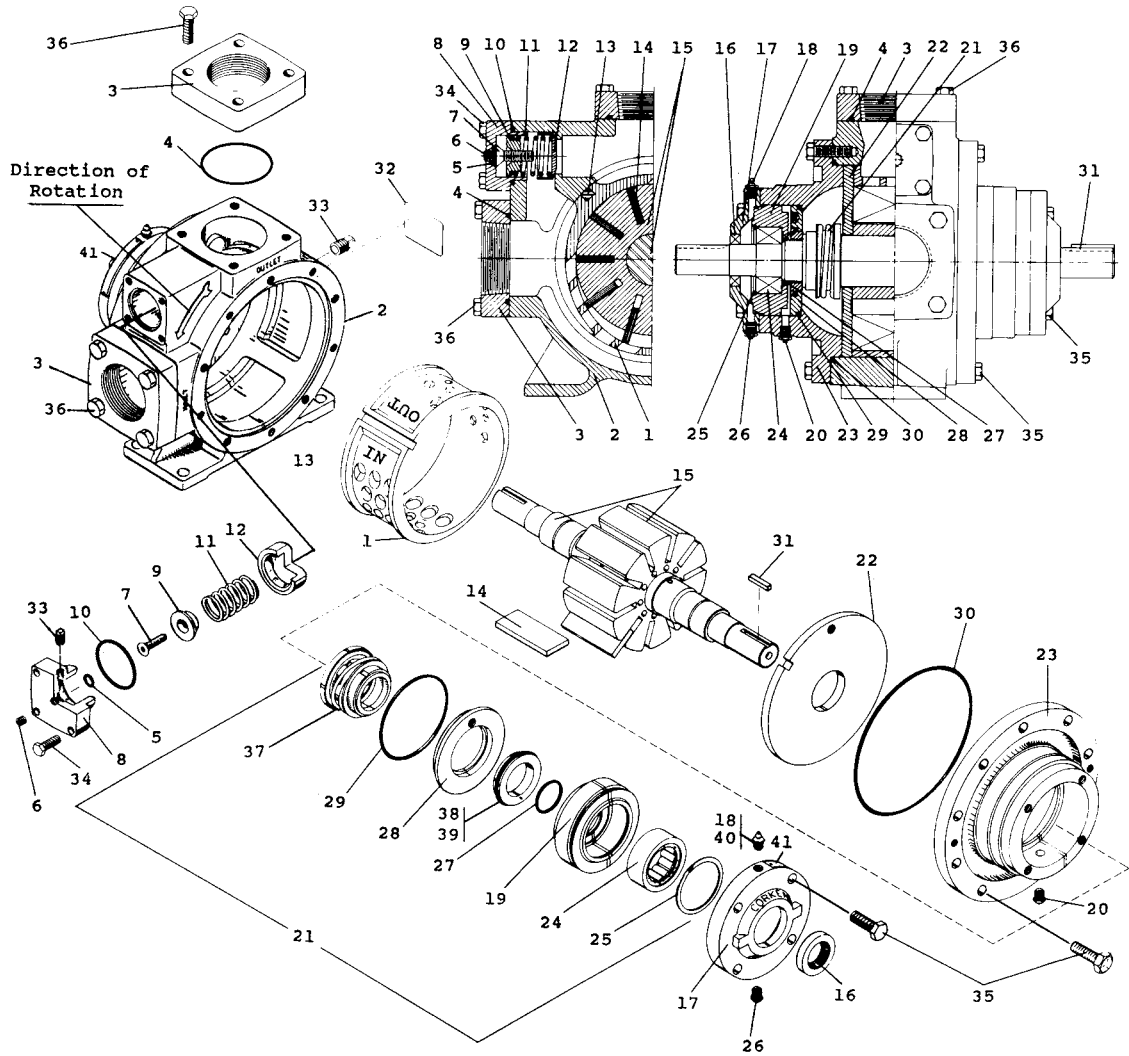
THIS SPREADER IS FACTORY ADJUSTED FOR OPTIMUM PATTERN USING AN AVERAGE BLEND OF FERTILIZER. PARTICULAR FERTILIZERS OR SPREADING CONDITIONS MAY REQUIRE SOME ADJUSTMENT. IT IS RECOMMENDED THAT A SPREAD PATTERN TEST BE PERFORMED BEFORE EACH SEASON.

ADJUSTMENT GUIDELINES

THE SPINNER BLADES ARE THE PRIMARY MEANS OF ADJUSTMENT. IF THEY PROVE INADEQUATE, THE REAR DEFLECTOR CAN ALSO BE USED TO CORRECT THE PATTERN.

OPTIMUM SPINNER RPM SHOULD BE MAINTAINED. HOWEVER, IT CAN BE USED TO ALTER THE SPREAD PATTERN IF THE SPINNER BLADES AND DEFLECTOR PROVE INADEQUATE. ON TRUCK AND PULL TYPE UNITS POSITION REAR DEFLECTOR FOR AN "A" DIMENSION OF 5.2 INCHES. WHEN ADJUSTMENT IS NECESSARY, MOVE DEFLECTOR ONLY 1/10 INCH AT A TIME.

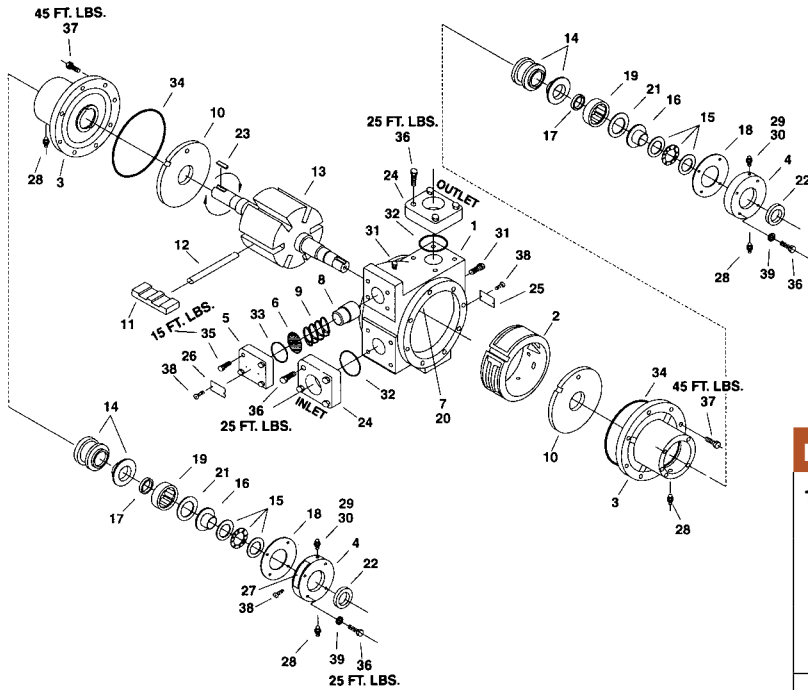
SPREAD PATTERN		RECOMMENDED CORRECTIVE ACTION
<p>LOW AT CENTER HIGH AT SIDES</p> 		<ol style="list-style-type: none"> 1. MOVE ONE OR TWO SPINNER BLADES TO A HIGHER NUMBERED HOLE. 2. REDUCE DIMENSION "A". 3. INCREASE SPINNER RPM.
<p>HIGH AT CENTER LOW AT SIDES</p> 		<ol style="list-style-type: none"> 1. MOVE ONE OR TWO SPINNER BLADES TO A LOWER NUMBERED HOLE. 2. INCREASE DIMENSION "A". 3. DECREASE SPINNER RPM.
<p>OFF CENTER</p> 		<ol style="list-style-type: none"> 1. MOVE ONE OF TWO SPINNER BLADES TO A LOWER NUMBERED HOLE. 2. INCREASE DIMENSION "A". 3. DECREASE SPINNER RPM.
*DRIVING INTERVAL DIVIDED IN HALF.		
 <p>ACCEPTABLE PATTERNS</p>		



Item#	Description	521 2"	1021 3"
1	Cam	1162-2	1201-2
2	Case	2832	2841
3	Flange	1172-2	1206-3
4	Flange O-ring	2-234A	2-245
5	O-ring	2-112	2-112
6	Plug	2590	25-0
7	Screw	2252	2252
8	Cap	1174	1207
9	Guide	1242	1227
10	O-ring	2-224	2-228
11	Spring	1240	1226
12	Relief Valve	1241	1224
13	Key	1170	1309
14	LP Blade	1168-6	1308-8
	NH3 Blade	1168-7	1308-9
15	Rotor-Single	1166-1X1	1208-1X1
	Rotor-Double	1166-1X2	1208-1X2

Item#	Description	521 2"	1021 3"
16	Grease Seal	1358	1358
17	Cap	1164-1	1164-1
18	Zerk	2158	2158
19	Brg Housing	1769	1769
20	Fitting	1343	1343
21	Seal Assy	1769-XRA	1769-XRA
22	Sideplate	1163-2	1209-1
23	Head	1161-4	1205-4
24	Bearing	2754X	2754X
25	Retainer Ring	2760-244	2761-244
26	Fitting	1343	1343
27	O-ring	2-128	2-128
28	Seat-Ad Plate	1822	1822
29	O-ring	2-240	2-240
30	Case O-ring	2-261A	2-268A

CORKEN Z2000 PARTS



Item#	Part #	Description	Qty
1	4413	Case	1
2	4414	Cam	1
3	4416	Head	2
4	4417	Bearing Cap	2
5	1174-3	Relief Valve Cap	1
6	4282	Shim	1
7	4424	Cam Key	1
8	4425	Relief Valve	1
9	4426	Relief Valve Spring	1
10	4427	Sideplate	2
(b) 11	4428	Blade	6
12	4262	Blade Driver	3
13	4430-X2R	Rotor-Shaft Assy	1
14	4431	Seal Assy	2
15	4432	Thrust Bearing Assy	2
16	4435	Bearing Race Mounting Ring	2
17	4438	Grease Seal	2

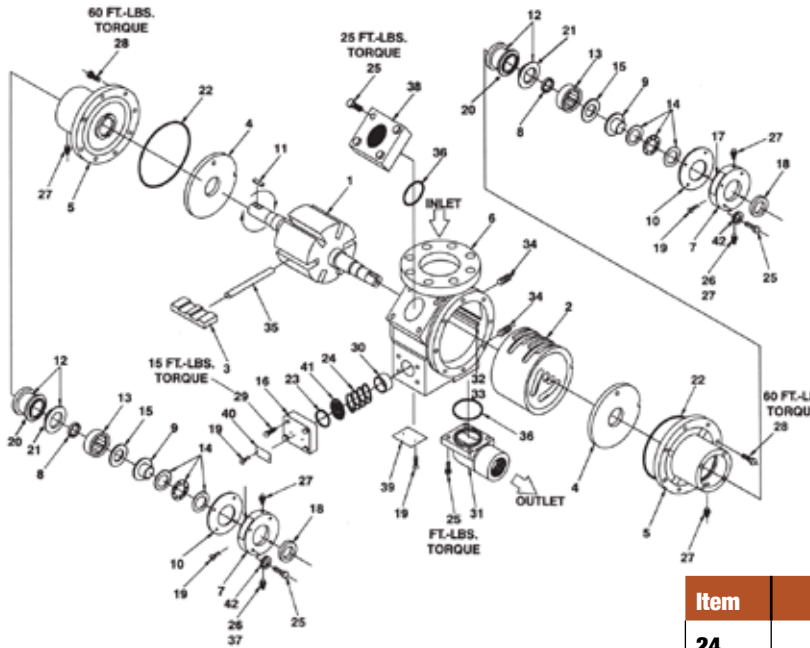
Notes

- (a) Optional: 4479-2S 2" Welded
- (b) Slots in blades must face towards the direction of rotation
- (c) Note torque valves

Caution: Always relieve pressure in the unit before attempting any repairs.

Item#	Part #	Description	Qty
18	4439	Bearing Cap Shim (.002) Red	As Req
	4439-1	Bearing Cap Shim (.010) Brown	As Req
	4439-2	Bearing Cap Shim (.020) Yellow	As Req
19	2754-X	Bearing	2
20	3253	Cam Key Pin	2
21	2760-244	retainer Ring	2
22	4441	Grease Seal	2
23	2270	Shaft Key ¼ x 1 ⁹ / ₁₆	2
(a) 24	4479-2	Flange 2" NPT	2
25	2649	Nameplate	1
26	4248	Relief Valve Nameplate	1
27	1359	Lubrication Instruction Plate	2
28	1343	1/8" NPT Relief Fitting	4
29	2158	1/8" NPT Grease Zerk	2
30	2159	Lubricap	2
31	3442	1/4" NPT Pipe Plug	2
32	2-231	O-ring - Flange	2
33	2-224	O-ring-Relief Valve Cap	1
34	2-261	O-ring - Case	2
	(c) 35	7001-031	
(c) 36	NC125A	Bolt-Hexagon head	16
	7001-037		
(c) 37	NC150A	Bolt-Hexagon head	16
	7001-043		
38	NC125A	Bolt-Hexagon head	16
	7012-006		
39	SF025E	Screw	8
	7206-037A	Lockwasher	8

O-Ring Code
 A Buna-N
 B Neoprene®
 D Viton®
 E Teflon®



(a) Denotes O-ring code. See chart above
 (b) Slots in vanes must face Towards the direction of rotation.

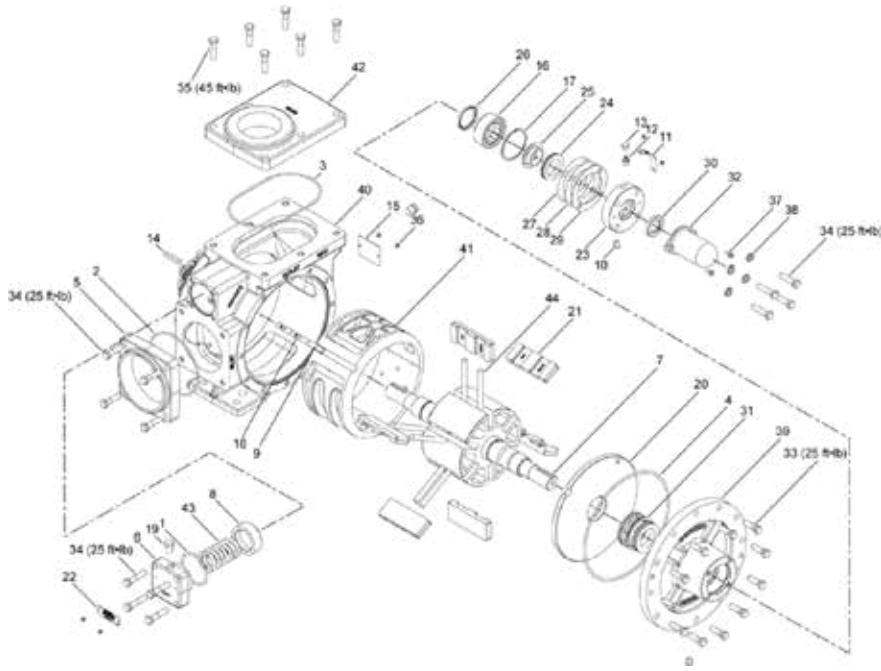
Note: Hydraulic motor is not shown.

Caution: Always relieve pressure in the unit before attempting any repairs.

Item	1172-Part #	Description	Qty
1	4495-X2R	Rotor Shaft Assy	1
2	4242	Cam	1
3 (b)	4243	Vane	6
4	4231	Sideplate	2
5	4488	Head	2
6	4239	Case	1
7	4417	Bearing Cap	2
8	4438	Grease Seal	2
9	4435	Mounting Ring	2
10	4439	Bearing Shim .002 red	As Req
	4439-1	Bearing Shim.010 brown	
	4439-2	Bearing Shim .020 yellow	
11	2270	Shaft Key	2
12(a)	4431-X_2	Mech. seal assembly	2
13	2754	Bearing outer race	2
14	4432	Thrust bearing assembly	2
15	2760-244	Retainer ring	2
16	1174-2	Relief valve cap	1
17	1359	Lubrication instruction plate	2
18	4441	Grease Seal	2
19	7012-006SF019E	Screw	8
20	---	Not Shown	
21	---	Not Shown	
22(a)	2-262_	O-Ring Case	2
23(a)	2-224_	O-Ring relief valve cap	1

Item	1172-Part #	Description	Qty
24	1240	Relief Valve Spring	1
25	7001-037NC150A	Bolt- ³ / ₈ -16 X 1½" hex head	16
26	2158	1/8" NPT Grease Zerk	2
27	1343	1/8" NPT Relief Fitting	4
28	7001-050NC150A	Bolt ½-13 x 1½" hex head	16
29	7001-031NC125A	Bolt 5/16-16 x 1¼" hex head	4
30	1241	Relief Valve	1
31	1172-1.5	Outlet flange 1.5" NPT	1
	1172-1.5S	Outlet flange 1.5" WF	1
	1172-2	Outlet flange 2" NPT	1
	1172-2S	Outlet flange 2" WF	1
	1947	Outlet flange 1.5" NPT ell	1
	4243	Outlet flange 2" NPT ell	1
32	4241	Cam key	1
33	3253	Cam key pin	1
34	3442	¼" NPT pipe plug	1
35	4262-X	Vane driver	3
36(a)	2-234_	O-ring flange	1
37	2159	Lubricap	2
38	1172-1.5	Aux. inlet flange 1.5" NPT	1
	1172-15S	Aux. inlet flange 1.5" WF	1
	1172-2	Aux. inlet flange 2" NPT	1
	1172-2S	Aux. inlet flange 2" WF	1
	1920-3	Aux. inlet flange blind	1
	4243	Aux. inlet flange 2" NPT ell	1
39	2649	Nameplate	1
40	4248	Relief Valve Nameplate	1
41	4282	Relief Valve Shim	As Req
42	7206-037A	3/8" lockwasher	8

CORKEN Z3500 PARTS



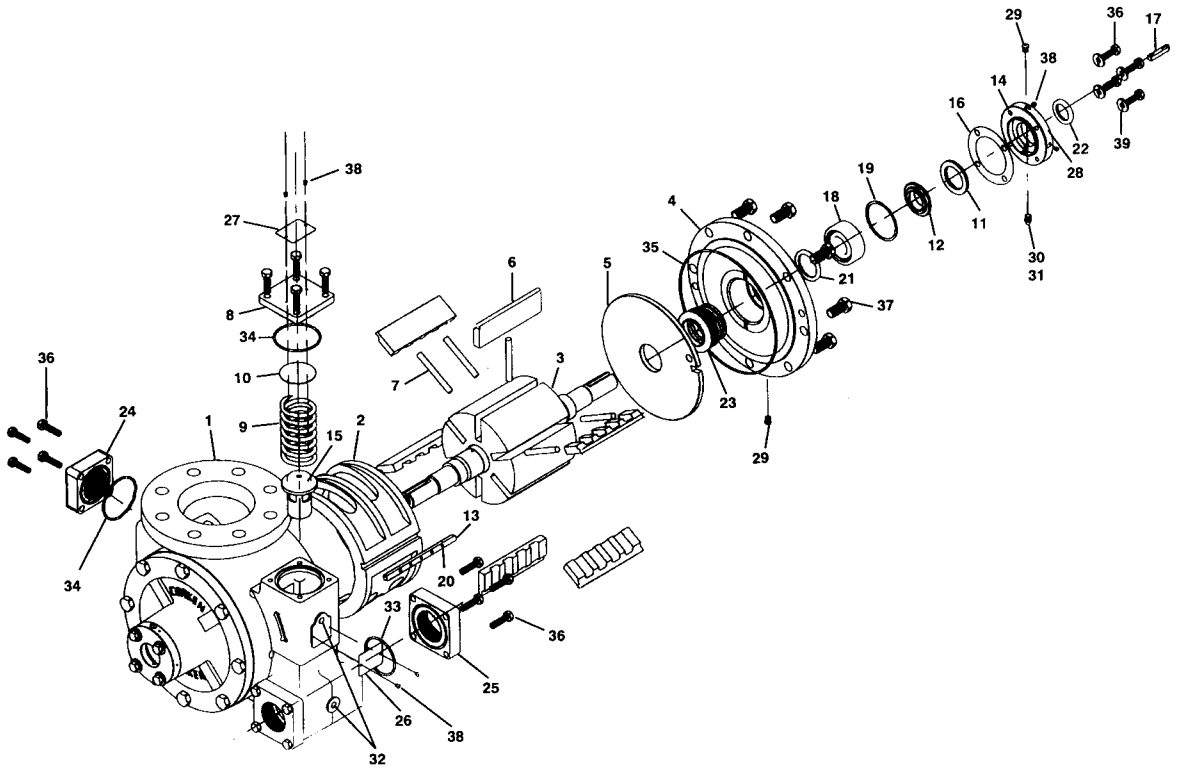
O-Ring Code
 A Buna-N
 B Neoprene®
 D Viton®
 E Teflon®

Note: Hydraulic motor is not shown.
Caution: Always relieve pressure in the unit before attempting any repairs.

- (a) Optional 4" NPT (1206-4), 3" Weld Flange (1206-3S), and 4" Weld flange (1206-4S)
- (b) Optional 3" weld flange elongated (5538-3S)
- (c) Denotes O-Ring code. See chart above.
- (d) Slots in vanes must face towards the direction of rotation

Item	Part #	Description	Qty
1 (c)	2-228	O-Ring	
2 (c)	2-245	O-Ring	
3 (c)	2-259	O-Ring	
4 (c)	2-268	O-Ring	
5 (a)	1208-4	Inlet Flange 3" NPT	
6	1207-2	Relief Valve Cap	
7	1208-1X6R	Rotor Shaft Assembly	
8	1224	Relief Valve	
9	1309	Cam Key	
10	1343	Grease Relief Fitting	
11	1359	Lubrication Plate	
12	2158	Grease Zerk	
13	2159	Lubricap	
14	2270	Shaft Key 1/4"	
15	2649	Nameplate	
16	2754	Outer Bearing	
17	2760-244	Retainer Ring	
18	3253	Cam Key Pin	
19	3442	Pipe Plug 1/4" NPT	
20	3935	Sideplate	
21(d)	3936	Vane	
22	4248	Relief Valve Warning Tag	6
23	4417	Bearing Cap	2
24	4432	Thrust Bearing Assembly	2

Item	Part #	Description	Qty
25	4435	Thrust Bearing Mounting Ring	2
26	4438	Grease Seal /Oil Seal	2
27	4439	Bearing Cap Shim .002"	2
28	4439-1	Bearing Cap Shim .010"	2
29	4439-2	Bearing Cap Shim .020"	2
30	4441	Grease Seal	2
31(c)	4431-X2	Mechanical Seal Assembly	2
32	4985	Coro-Vane Shaft Cover	1
33	7001-C37NC125A	Hex Head Bolt	24
34	7001-C37NC150A	Hex Head Bolt	18
35	7001-C37NC175A	Hex Head Bolt	4
36	7012-010SF050E	Screw	9
37	7012-010SF050E	Screw	2
38	7206-037A	Lock Washer .375"	8
39	5534	Head	2
40	5537	Case	1
41	5539	Cam	1
42(b)	5538	Outlet Flange 3" NPT Elongated	1
43	5548	Spring	1
44	5554-X	Vane Driver	6



REF NO.	PART NO.	DESCRIPTION	QTY
1.	4442	CASE	1
2.	4443	CAM	1
3.	4444-X2	ROTOR-SHAFT ASSEMBLY	1
4.	4445	HEAD	2
5.	4446	SIDEPLATE	2
6.	4448	BLADE	6
7.	4449-X	BLADE DRIVER	5
8.	4450	RELIEF VALVE CAP	1
9.	4451	RELIEF VALVE SPRING	1
10.	4452	SHIM	1
11.	4453	THRUST BEARING ASSEMBLY	2
12.	4454	BEARING RACE MOUNTING RING	2
13.	4455	CAM KEY	1
14.	4456	BEARING CAP	2
15.	4457	RELIEF VALVE	1
16.	4458	BEARING CAP SHIM - (.002)	AS REQ'D
	4458-1	BEARING CAP SHIM - (.010)	AS REQ'D
	4458-2	BEARING CAP SHIM - (.020)	AS REQ'D
17.	4459	SHAFT KEY - 5/16 X 1 3/4	1
18.	4460-X	ROLLER BEARING	2
19.	2760-281	RETAINER RING	2
20.	3253	CAM KEY PIN	5
21.	4462	GREASE SEAL	2
22.	4463	GREASE SEAL	2
23.	4464	SEAL ASSEMBLY	2
24.	1172-2	AUX. INLET FLANGE - 2" NPT	1
25.	4479-2	DISCHARGE FLANGE - 2" NPT	2
26.	2649	NAMEPLATE	1
27.	4248	RELIEF VALVE NAMEPLATE	1
28.	1359	LUBRICATION INSTRUCTION PLATE	2
29.	1343	1/8 NPT RELIEF FITTING	4
30.	2158	1/8 NPT GREASE ZERK	2
31.	2159	LUBRICAP	2
32.	3442	1/4 NPT PIPE PLUG	2
33.	2-231	O-RING - DISCHARGE FLANGE	2
34.	2-234	O-RING - AUX. INLET FLANGE	1
35.	2-270	O-RING - CASE	2
36.	7001-037	NC150A BOLT - HEXAGON HEAD	24
37.	7001-062	NC125A BOLT - HEXAGON HEAD	16
38.	7012-006	SF025E SCREW	8
39.	7206-037A	LOCKWASHER	8

Listed below are designated repair kits for the Z4200.

REPAIR KIT - 3197-X1		
PART NO.	DESCRIPTION	QTY
2-231A	DISCHARGE FLANGE O-RING	2
2-234A	AUXILARY INLET FLANGE O-RING	1
4448	BLADE	6
4449-X	BLADE DRIVER	5
4453	THRUST BEARING ASSEMBLY	2
4454	THRUST BEARING MOUNTING RING	2
4458	BEARING CAP SHIM - .002"	8
4458-1	BEARING CAP SHIM - .010"	2
4458-2	BEARING CAP SHIM - .020"	2
4459	SHAFT KEY	1
4460-X	ROLLER BEARING ASSEMBLY	2
4463	GREASE SEAL	2
4464-XA	SEAL ASSEMBLY	2

REPAIR KIT - 3198-X1		
PART NO.	DESCRIPTION	QTY
2-231A	DISCHARGE FLANGE O-RING	2
2-234A	AUXILARY INLET FLANGE O-RING	1
4443	CAM	1
4446	SIDEPLATE	2
4448	BLADE	6
4449-X	BLADE DRIVER	5
4453	THRUST BEARING ASSEMBLY	2
4454	THRUST BEARING MOUNTING RING	2
4458	BEARING CAP SHIM - .002"	8
4458-1	BEARING CAP SHIM - .010"	2
4458-2	BEARING CAP SHIM - .020"	2
4459	SHAFT KEY	1
4460-X	ROLLER BEARING ASSEMBLY	2
4463	GREASE SEAL	2
4464-XA	SEAL ASSEMBLY	2

2-270 O-Ring-Case 2

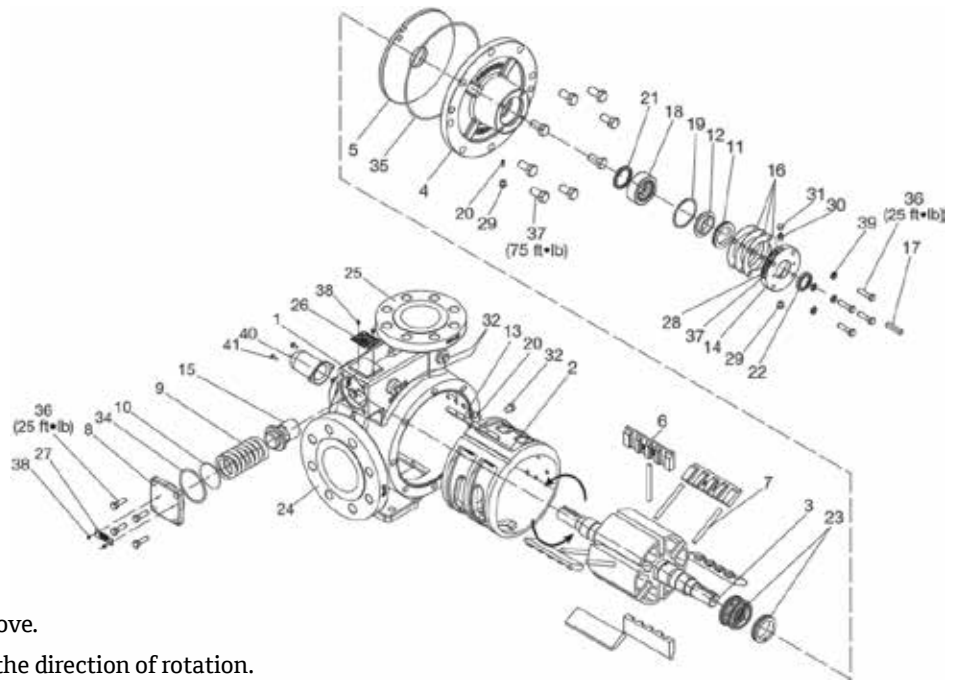
CORKEN Z4500 PARTS

O-Ring Code

- A Buna-N
- B Neoprene®
- D Viton®
- E Teflon®

Note: Hydraulic motor is not shown.

Caution: Always relieve pressure in the unit before attempting any repairs.



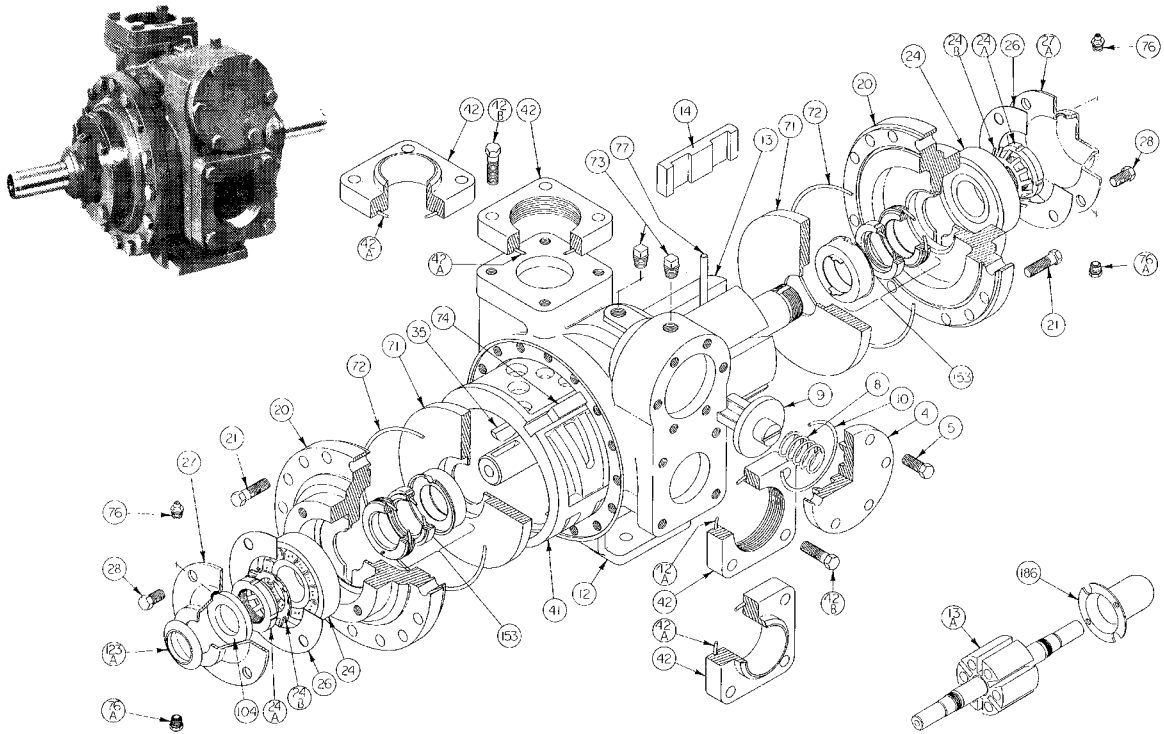
(a) Denotes O-ring code. See chart above.

(b) Slots in vanes must face towards the direction of rotation.

Item	Part #	Description	Qty
1	5522	Case	1
2	4443	Cam	1
3	4444-X2R	Rotor-shaft assembly	1
4	4445	Head	2
5	4446	Sideplate	2
6(b)	4448	Vane	6
7	4449-X	Vane Driver	5
8	4450	Relief valve cap	1
9	4451	Relief valve spring	1
10	4452	Shim	1
11	4453	Thrust bearing assembly	2
12	4454	Bearing race mounting ring	2
13	4455	Cam key	1
14	4456	Bearing cap	2
15	4457	Relief valve	1
16	4458	Bearing cap shim .002 red	As Req
	4458-1	Bearing cap shim .010 brown	
	4458-2	Bearing cap shim .020 yellow	
17	4459	Shaft key $\frac{5}{16} \times 1\frac{3}{4}$	1
18	4460-X	Roller Bearing	2
19	2760-283	Retainer Ring	2
20	3253	Cam key pin	5

Item	Part #	Description	Qty
21	4462	Grease seal	2
22	4463	Grease seal	2
23(a)	4464-X_2	Mechanical seal assy	2
24	---	INlet flange 4" ANSI	1
25	---	Outlet flange 3" ANSI	2
26	2649	Nameplate	1
27	4248	Relief valve nameplate	1
28	1359	Lubrication instruction plate	2
29	1343	$\frac{1}{8}$ NPT relief fitting	4
30	2158	$\frac{1}{8}$ NPT grease zerk	2
31	2159	Lubricap	2
32	3442	$\frac{1}{4}$ NPT pipe plug	2
33(a)	2-231	O-ring discharge flange	3
34(a)	2-234	O-ring auxiliary inlet flange	1
35(a)	2-270	O-ring case	2
36	7001-037NC150A	Bolt hexagon head	24
37	7001-062NC125A	Bolt hexagon head	16
38	7012-006SF019E	Screw	8
39	7206-037A	Lockwasher	8
40	4985	Shaft cover	1
41	7012-010SF050E	Screw	2

BLACKMER PUMP PARTS TLGLD2E & LGL3E

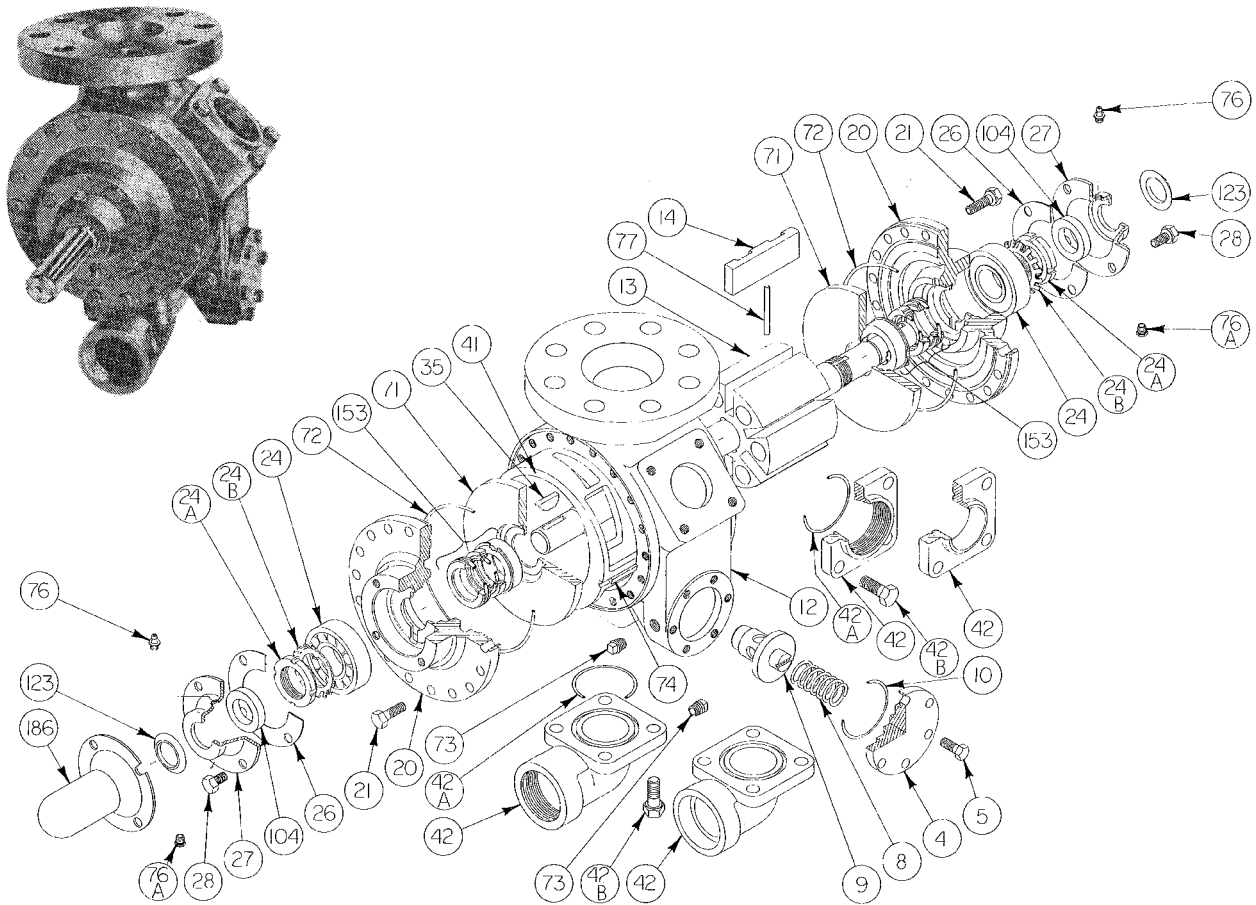


Item	Size 2 Part #	Size 3 Part #	Description	Qty
4	414401	415113	Cover-Relief Valve R/V	1
5	920331	920331	Capscrews-R/V Cover	6
8	471423	475135	Spring - R/V	1
9	454405	455129	Valve-R/V (Std)	1
	454406	455100	Valve-R/V (Nickel plated)	
10	701919	701925	O-ring-R/V Cover	1
12	014405	015127	Casing	1
13	264443	265149	Rotor & Shaft Assy-LGL (Includes Ref.# 24A&24B)	1
13A	264445	265148	Rotor & Shaft Assy -TLGLD (Includes Ref.# 24A&24B)	1
14	091419	095131	Vane-Duravane (Std)	6
	091427	095109	Vane-Laminate	
20	034416	035128	Head	2
21	920351	N/A	Capscrews-Head (2)	32
	N/A	920369	Capscrews-Head (3)	40
24	903156	903166	Ball Bearing	2
24A	903156	903523	Locknut-Bearing	2
24B	903522	903524	Lockwasher-Bearing	2
26	383940	385125	Gasket-Bearing Cover	2
27	041431	041815	Bearing Cover (Inboard)	1(2)
27A	041433	041817	Bearing Cover (Outboard)	1(3)

Item	Size 2 Part #	Size 3 Part #	Description	Qty
28	920285	N/A	Capscrews-Bearing Cover (2)	8
	N/A	920285	Capscrews-Bearing Cover (3)	12
35	909130	909130	Key-Shaft	1
41	184405	185111	Liner	1
42	654401	655112	Flange-NPT	2
	654405	655102	Flange-Weld	
42A	702004	702002	O-ring-Flange	2
42B	920384	920547	Capscrew-NPT Flange	8
	920351	920510	Capscrew-Weld Flange	
71	064412	065112	Disc	2
72	702022	702041	O-ring-Head	2
73	908195	908195	Gage Plug	2
74	184407	185191	Key-Liner	1
76	317815	317815	Grease Fitting	2
76A	701992	701992	Grease Relief Fitting	2
77	123905	125105	Push Rod	3
104	331918	331908	Grease Seal	1(2)
123A	701480	N/A	Dirt Shield	1(2)
186	341601	341801	Shaft Protector (TLGLD Models Only)	1
	898979	898981	Pump Repair Kit	
153	331652	335125	Mechanical Seal	2

BLACKMER TLGLF3 PARTS

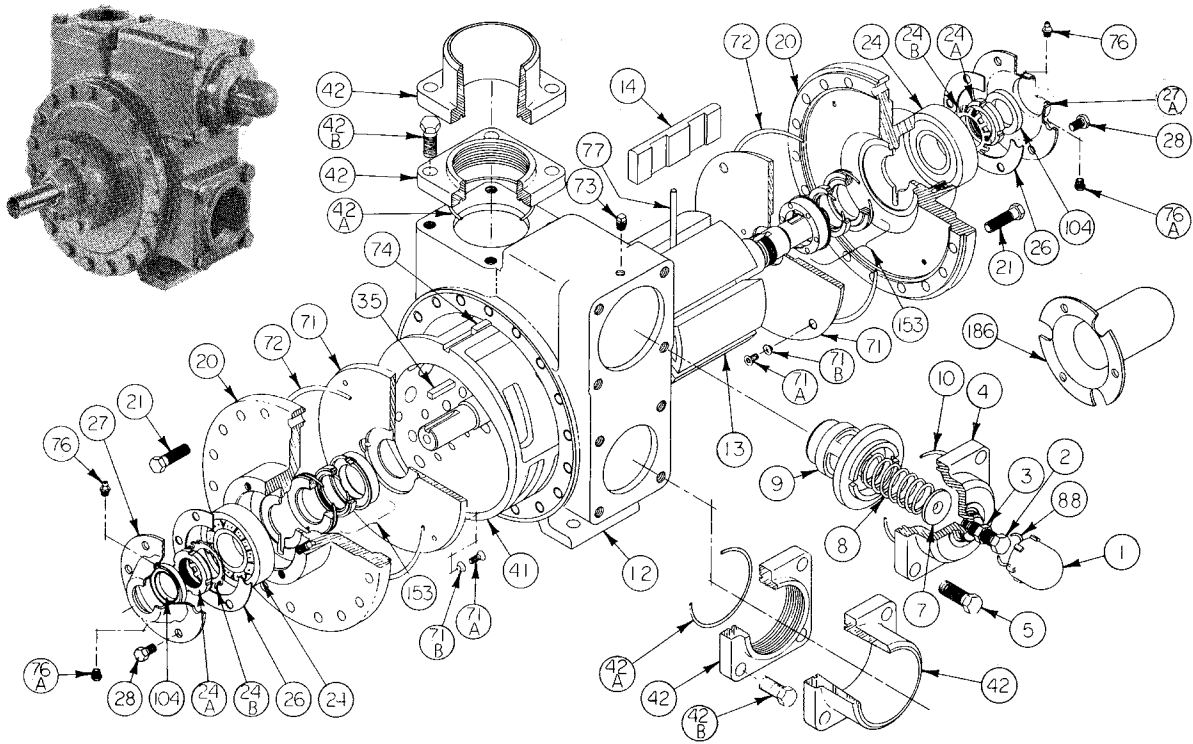
BREAKDOWNS



Item	Part #	Description	Qty
4	415108	Cover-Relief Valve R/V	1
5	920331	Capscrews-R/V Cover	6
8	471428	Spring - R/V	1
9	451417	Valve-R/V (Std)	1
	451415	Valve-R/V (Nickel plated)	
10	701919	O-ring-R/V Cover	1
12	015128	Casing	1
13	265147	Rotor & Shaft Assy (Includes Ref.# 24A)	1
14	095132	Vane-Duravane	6
20	035132	Head	2
21	920351	Capscrews-Head	36
24	903156	Ball Bearing	2
24A	903521	Locknut-Bearing	2
24B	903522	Lockwasher-Bearing	2
26	383940	Gasket-Bearing Cover	2
27	041431	Bearing Cover	2
28	920285	Capscrews-Bearing Cover	8
35	909130	Key-Shaft	1
41	185101	Liner	1

Item	Part #	Description	Qty
42	652010	Flange-2" NPT	1-2
	652011	Flange- 2" Weld	
	655100	Flanged Elbow - 2" NPT	
	655109	Flanged Elbow - 2" Weld	
42A	701919	O-ring-Flange, Flanged Elbow	2
42B	920491	Capscrew-Flange, Flanged Elbow	8
71	065121	Disc	2
72	711923	O-ring-Head	2
73	908195	Gage Plug	2
74	185193	Key-Liner	1
76	317815	Grease Fitting	2
76A	701992	Grease Relief Fitting	2
77	121607	Push Rod	3
104	331918	Grease Seal	2
123	701480	Dirt Shield	2
186	341601	Shaft Protector	1
	898980	Pump Repair Kit	
153	331652	Mechanical Seal Assy	2

BLACKMER LGLD4 4" PUMP PARTS

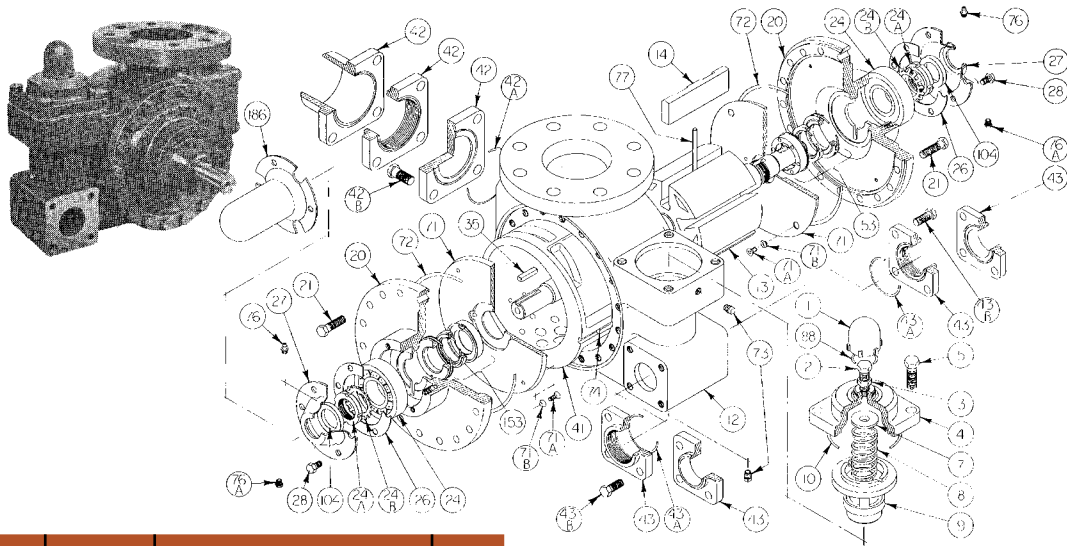


Item	Part #	Description	Qty
1	413952	Cap-Relief Valve R/V	1
2	436310	Adjusting Screw-R/V	1
3	436355	Locknut-Adjusting Screw	1
4	412001	Cover-R/V	1
5	920663	Capscrew-R/V Cover	4
7	426355	Spring Guide-R/V	1
8	476305	Spring-R/V	1
9	452001	Valve-R/V	1
10	701946	O-Ring-R/V Cover	1
12	012000	Casing	1
13	262023	Rotor & Shaft Assy-LGL4 (Includes Ref.# 24A&24B)	1
	262023	Rotor & Shaft Assy-LGLD4 (Includes Ref.# 24A&24B)	
14	092019	Bane-Duravane (Std)	6
	092026	Vane-Laminate	
20	032039	Head	2
21	920532	Capscrews-Head	36
24	903172	Ball Bearing	2
24A	903541	Locknut-Bearing	2
24B	903542	Lockwasher-Bearing	2
26	385125	Gasket-Bearing Cover	2
27	041815	Bearing Cover (Inboard)	1(2)
27A	041817	Bearing Cover (Outboard)	1(3)

Item	Part #	Description	Qty
28	920286	Capscrews-Bearing Cover	12
35	909183	Key-Shaft	1
41	182000	Liner	1
42	652012	Flange-3" NPT	1-2
	652007	Flange-3" Weld	
	652005	Flange-4" Weld	
42A	701937	O-ring NPT, Weld Flange	2
42B	920663	Capscrew-NPT Flange	8
	920640	Capscrew-Weld Flange	
71	062039	Disc	2
71A	920015	Machine Screw-Disc	8
71B	909622	Lockwasher-Machine Screw	8
72	702039	O-Ring-Head	2
73	908195	Gage Plug	2
74	182040	Key-Liner	1
76	317815	Grease Fitting	2
76A	701992	Grease Relief Fitting	2
77	122005	Push Rod	3
88	701926	O-ring-R/V Cap	1
104	331908	Grease Seal	1(2)
186	341801	Shaft Protector (LGLD4 Only)	1
	898922	Pump repair Kit	
153	332050	Mechanical Seal Assy	2

BLACKMER TLGLF4(A) 4" FLNG. PUMP PARTS

BREAKDOWNS



Item	TLGLF4A Part #	TLGLF4 Part #	Description	Qty
1		413952	Cap-Relief Valve R/V	1
2	436310	436307	Adjusting Screw-R/V	1
3	432039	436355	Locknut-Adjusting Screw	1
4		412001	Cover-R/V	1
5		920663	Capscrew-R/V Cover	4
7		426355	Spring Guide-R/V	1
8		472039	Spring-R/V	1
9		452001	Valve-R/V	1
10		701946	O-Ring-R/V Cover	1
12		012039	Casing	1
13	262024	262022	Rotor & Shaft Assy (Includes Ref.# 24A&24B)	1
14		092019	Bane-Duravane (Std)	6
		092026	Vane-Laminate	
20		032039	Head	2
21		920532	Capscrews-Head	36
24		903172	Ball Bearing	2
24A	903541	903523	Locknut-Bearing	2
24B		903542	Lockwasher-Bearing	2
26		385125	Gasket-Bearing Cover	2
27		041815	Bearing Cover	1(2)
28		920286	Capscrews-Bearing Cover	12
35		909183	Key-Shaft	1
41	182000	182039	Liner	1
42		652012	Flange-3" NPT	1-2
		652005	Flange-4" Weld	
		652007	Flange-3" Weld	
		652000	Flange-Blank	

Item	TLGLF4A Part #	TLGLF4 Part #	Description	Qty
42A		701937	O-ring - Flange	2
42B		920663	Capscrew-3" NPT Flange	8
		920640	Capscrew-3", 4" Weld Flange, Blank Flange	
Twin Discharge Port				
43		652010	Flange-2" NPT	
		652011	Flange-2" Weld	
43A		701919	O-ring-2" Flange	
43B		920491	Capscrew-Discharge Flange	
71		062039	Disc	2
71A		920015	Machine Screw-Disc	8
71B		909622	Lockwasher-Machine Screw	8
72		702039	O-Ring-Head	2
73		908195	Gage Plug	2
74		182040	Key-Liner	1
76		317815	Grease Fitting	2
76A		701992	Grease Relief Fitting	2
77	122005	12201	Push Rod	3
88		701926	O-ring-R/V Cap	1
104		331908	Grease Seal	1(2)
186		341801	Shaft Protector (LGLD4 Only)	1
		898922	892000	
153	352050	332050	Mechanical Seal	2

Suggested Minimum Spray Heights

Flat Fan Spray Tips

Spray Angle	15" Spacing	20" Spacing	30" Spacing	40" Spacing**
80° (TR)	13"-14"	17"-19"	26"-28"	NR*
110° (TR)	10"-11"	15"-18"	20"-22"	NR*
120° (ULD)	8"-10"	12"-15"	16"-20"	24"-30"

* Not Recommended

** This nozzle spacing is prone to off-target trespass, under certain conditions that affect drift.

Optimum Spray Heights

Flat Fan Spray Tips

Spray Angle	15" Spacing	20" Spacing	30" Spacing	40" Spacing**
80° (TR)	22"	30"	43"	NR*
110° (TR)	15"	20"	30"	NR*
120° (ULD)	15"	20"	30"	40"

* Not Recommended

** This nozzle spacing is prone to off-target trespass, under certain conditions that affect drift.

Nozzle Spacing

To calculate a conversion factor for spacing not listed below, use the following formula:

$$\text{Conversion Factor} = \frac{\text{Nozzle Spacing in table (inches)}}{\text{Your Nozzle Spacing (inches)}}$$

20 inch Nozzle Spacing	
Other Spacing	Conversion Factor
8	2.5
10	2.0
12	1.67
14	1.43
15	1.33
16	1.25
18	1.11
20	1.0
22	0.91
24	0.88
26	0.77
28	0.71
30	0.66
40	0.5

30 inch Nozzle Spacing	
Other Spacing	Conversion Factor
15	2.0
20	1.5
22	1.36
24	1.25
26	1.15
28	1.07
30	1.0
32	0.94
34	0.88
36	0.83
38	0.79
40	0.75
45	0.66
60	0.5

Formulas and Conversion Factors

$\text{GPM (Per Nozzle)} = \frac{\text{GPA} \times \text{MPH} \times \text{W}}{5,940}$ $\text{GPM (Per Nozzle)} = \frac{\text{GAL}/1000\text{FT}^2 \times \text{MPH} \times \text{W}}{136}$ $\text{GPA} = \frac{5,940 \times \text{GPM (Per Nozzle)}}{\text{MPH} \times \text{W}}$ $\text{GAL}/1000\text{FT}^2 = \frac{136 \times \text{GPM (Per Nozzle)}}{\text{MPH} \times \text{W}}$ <p>GPM — Gallons Per Minute GPA — Gallons Per Acre</p>	<p>GAL/1000FT² — Gallons Per 1000 Square Feet</p> <p>MPH — Miles Per Hour</p> <p>W — Nozzle spacing (in inches) for broadcast spraying — Spray width (in inches) for single nozzle, band spraying or boomless spraying — Row spacing (in inches) divided by the number of nozzles per row for directed spraying</p>
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Spraying Solutions Other Than Water – New Method

Since most of the tabulations in manufacturers' catalogs are based on spraying water, which weighs 8.34 lbs. per USA gallon, conversion factors must be used when spraying solutions which are heavier or lighter than water. To determine the proper size nozzle for the solution to be sprayed, first multiply the desired GPM or GPA of solution by the water rate conversion factor. Then use the new converted GPM or GPA rate to select the proper size nozzle.

Example: Desired application rate is 20 GPA of 28%N. Determine the correct nozzle size as follows:

GPA (solution) x Conversion factor = GPA (from table)

20 GPA (28%) x 1.13 = 22.6 PGA (water)

The applicator should choose a nozzle size that will supply 22.6 GPA of water at the desired pressure.

Weight of Solution	Specific Gravity	Conversion Factor
7 lbs per Gallon	0.84	0.92
8 lbs per Gallon	0.96	0.98
8.34 lbs per Gallon - Water	1.00	1.00
9 lbs per Gallon	1.08	1.04
10 lbs per Gallon	1.20	1.10
10.65 lbs per Gallon - 28% Nitrogen	1.28	1.13
11 lbs per Gallon	1.32	1.15
12 lbs per Gallon	1.44	1.20
14 lbs per Gallon	1.68	1.30

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GRASSHOPPER MOWERS

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Model 729 BT

Model 735 BT

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Model 729T

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Model 725DT

900 Series

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Liquid-Cooled Gas

Model 932

Liquid-Cooled Diesel

Model 900D 1.3L



MidMount™ Series

100V Series

Air-Cooled Gas

Model 124V

Model 124V

Model 127V

200 Series

Air-Cooled Gas

Model 225

300 Series

Air-Cooled Gas

Model 329B

Model 335B

Liquid-Cooled Gas

Model 329

Liquid-Cooled Diesel

Model 325D

400 Series

Air-Cooled Gas

Model 440

Liquid-Cooled Diesel

Model 400D 1.3L



P.O. Box 13237, Wichita, Kansas 67213-0237
Phone: 800-666-5764 www.fairbankequipment.com

Please FILL OUT, SIGN, and then FAX this form to 1-800-685-9202.

I understand that the information provided on this form is not an application for credit, but is provided to keep address, phone, and sales tax information on file with Fairbank Equipment, Inc. In addition, it will allow Fairbank Equipment, Inc. to keep purchase history on file for future reference. All merchandise must be paid for at time of purchase.

FARM NAME:		
UPS/DELIVERY ADDRESS:		
MAILING ADDRESS:		
CITY:	STATE:	ZIP CODE:
PHONE#:	CELL:	FAX:
EMAIL:		
PRINCIPAL OWNER(S):		

Agricultural Exemption Certificate - Not Applicable in Nebraska

The undersigned purchaser certifies that the sale to him/her of tangible personal property or service by Fairbank Equipment, Inc. is exempt for sales and compensating use taxes in the state of:

KS SD CO MO TX OK/SMX#: _____, Other: _____

because the property purchased is one of the following:

1. Farm or agriculture machinery or equipment.
2. Farm or agriculture repair or replacement parts.
3. Labor services on farm or agriculture machinery or equipment.

*Items 1, 2, & 3 must be used exclusively in farming, ranching, or agriculture.

Description of tangible personal property or services provided: _____

The undersigned understands and agrees that if the tangible personal property or services are used in a method other than which is stated above, or for any other purpose that is not exempt from sales or compensating use tax, the undersigned purchaser becomes liable for the tax debt.

Date: _____ Purchaser: _____

Signature: _____

Please provide Fax number or Email for all credit references

CREDIT APPLICATION

BUSINESS CONTACT INFORMATION

Company Name:			
Company Address:			
City:		State:	
Phone:		Fax:	Email:
Type of Business:			
Type of Merchandise to be Purchased:			
Principal Owner(s):			
Sole Proprietorship:	Partnership:	Corporation:	Other:

BILLING INFORMATION:

Preferred Delivery Method for Invoices and Monthly Statements (Required)

Email: Fax:

CREDIT REFERENCE INFORMATION

Bank:			
Address:			
City:		State:	
Phone:		Fax:	Email:
Bank Officer:			

BUSINESS/TRADE REFERENCES WHERE CREDIT IS EXTENDED-Please provide Fax number

Company Name:			
Address:			
City:		State:	
Phone:		Fax:	Email:
Company Name:			
Address:			
City:		State:	
Phone:		Fax:	Email:
Company Name:			
Address:			
City:		State:	
Phone:		Fax:	Email:

AGREEMENT

1. It is understood that the terms of payment are 15 days and that accounts overdue at the end of 15 days are subject to C.O.D. status and you agree to abide by them.
2. By submitting this application, you authorize Fairbank Equipment, Inc. to make inquiries into the banking and business/trade references that you have supplied. It is understood that the information given on this application will be held in strict confidence and used only for the purpose intended.
3. If credit availability is granted by Fairbank Equipment, Inc., all decisions with respect to extension, continuation, and termination shall be in the sole discretion of Fairbank Equipment, Inc.
4. I HEREBY CERTIFY THAT THESE STATEMENTS ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND ARE MADE FOR THE PURPOSE OF OBTAINING FINANCING FROM FAIRBANK EQUIPMENT, INC.

SIGNATURES

_____ X Title: _____ Date: _____		_____ X Title: _____ Date: _____	
--	--	--	--

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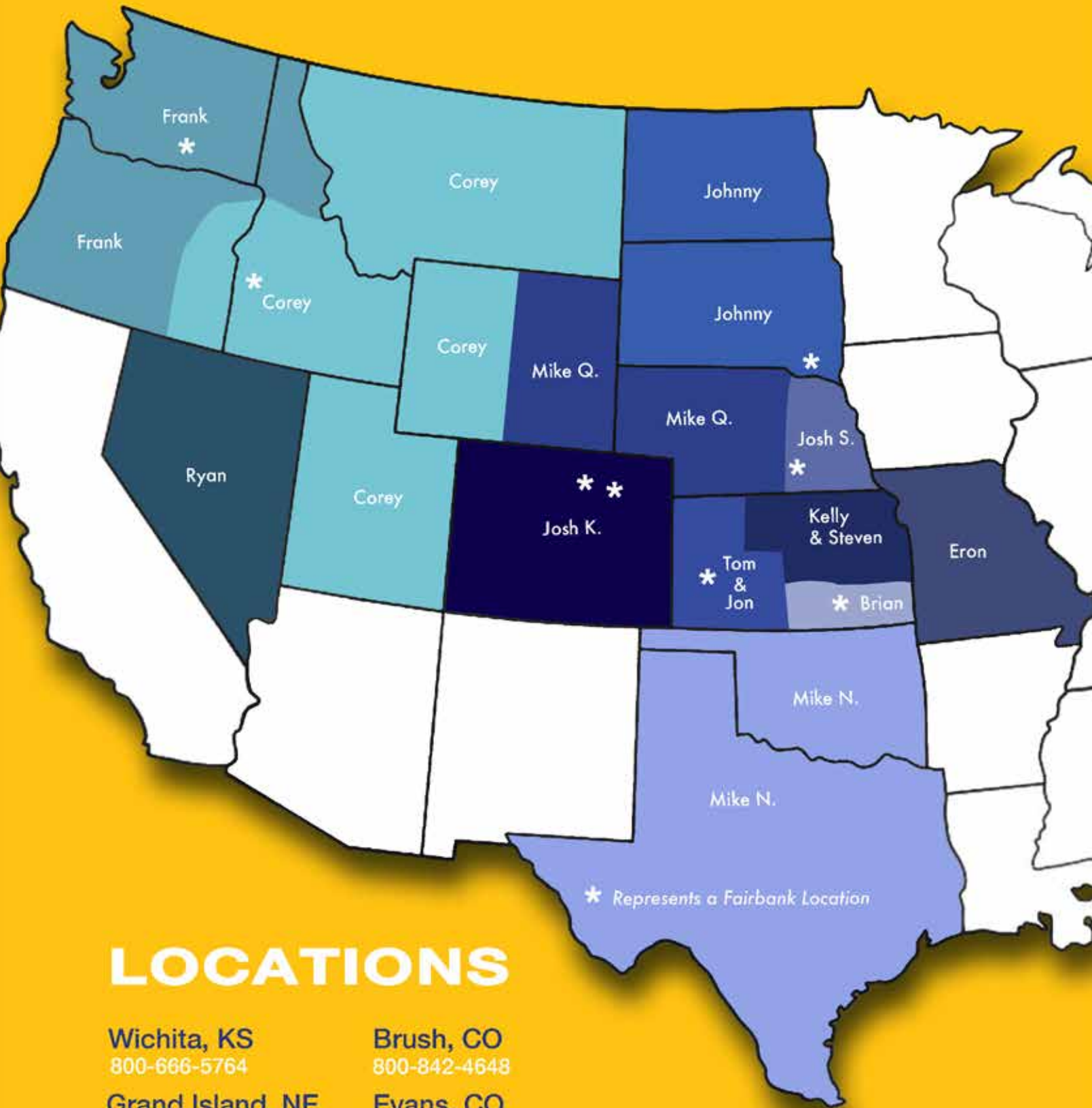


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