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Log on to
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full listing of available equipment,
parts specials, & service specials.



introducing the **NEW 2015 PROWLER®**



Machine management system helps streamline operations.



Cab shown with optional 35% window tint.

Center Line Booms.



*Optional, Direct Injection
with up to 4 Products.*



*Low Volume, High Volume
and Dual Boom Lines.*



*Quick disconnect for faster
change-overs, featuring corrosion
resistant fittings and hardware.*



VERSATILITY MATTERS

Over the years, the Prowler has earned its reputation as a rugged workhorse, due to its solid powertrain, dependability, and efficiency in running all season long.

GVM's E-Series Prowlers are the toughest and most versatile self-propelled application units on the market today. The E-Series Prowler is available with multiple options and can be customized to fit operations of all sizes. It offers four season functionality, and a mechanical, all-wheel drive powertrain with unmatched road speeds.

Designed with flexibility and versatility in mind, the Prowler provides its owners with the largest possible return on investment. The Prowler offers owners the flexibility to quickly react to changes in weather and crop conditions by switching between liquid and dry application in under an hour.

New Options, Increased Comfort & Functionality

- Air Ride Cab provides increased comfort & superior visibility
- Machine management system viewed on a 7" push button display streamlines operations & displays critical system information for ease of service
- Short stack muffler reduces in-cab noise & increases cab visibility
- Hydraulic tank is easily reached for quick & easy service
- Three powertrain options/models: E275, E325, & E370
- Narrow 99" axles or standard 114" axles
- Center Line Booms fully protect nozzle bodies on narrow axle machines
- Corrosion resistant finish on chassis & spray rig hardware and hydraulic fittings
- Black or white color option
- Low volume, high volume, or dual volume boom lines
- Chemical injection options



Built to Last

Pre-Emergence or Post Emergence, Spraying or Spreading ...the Prowler Does it All.



E370 Prowler with an 11 ton Double Duty Fusion Ready body.

INCREASE YOUR ROI

The combination of larger capacities, combo capabilities, GVM's high road speeds, and an all-wheel drive powertrain make the E-Series your best investment yet. Additionally, the Prowler's heavy-duty, yet lightweight design minimizes soil compaction and rutting, allowing you to get into the fields earlier, despite wet conditions.

Utilize ONE piece of equipment all year long for increased profits with the GVM Prowler.

- **Immediate Savings:** One machine = four season versatility
- **Time Savings:** Higher road speeds = more acres per day
- **Fuel Savings:** Mechanical drive train = reduced operating costs

SUPERIOR VISIBILITY & COMFORT

The Prowler's spacious, pressurized, air suspension cab, air ride seat, and variable coil spring suspension offers operators a full day of comfort and stress-free application.

Optional **window tinting** on the sides and back of the Prowler cab rejects 99% of UV light, provides a 57% reduction in glare, and a 26% reduction in solar heat.

A GVM exclusive, the **electronic chassis monitoring system** allows operators to view all engine, transmission, hydraulic, and electrical data, including all CAN messages and fuses on one large display. The system also improves efficiency in service to add to your uptime.



ONE CHASSIS, FOUR SEASON VERSATILITY

Switch it up. As a combo unit, the Prowler will produce more income than any other applicator. The E-Series' unique system offers a new electrical and hydraulic quick connect to allow for an even faster change-over from liquid to dry application. The process can easily be completed in less than one hour.

Spend More Time Spraying & Less Time Filling

GVM's large capacity spray tanks allow you to work longer before filling up, requiring fewer stops, and maximizing your profitability. Designed to minimize product waste, the E-Series spray system features air shutoff nozzles, shutting off flow directly at the nozzle body.

Direct Injection with Up to 4 Products

Up to four chemical injection or water pods are available to allow operators to easily switch between fields and applications, eliminating the need for pre-mixing, the chance of cross contamination, and allowing operators to adjust the chemical concentration on the fly.

Low Volume, High Volume and Dual Boom Lines

In addition to the standard GVM boom, GVM also offers a high volume system for suspension fertilizer. Additionally, with GVM's dual boom lines operators receive the best of both worlds, and gain the ability to quickly switch between applications and fields, especially with the addition of the direct injection option.

Center Line Booms

GVM's Center Line booms feature fully protected nozzle bodies, ideal for operators entering tight spaces, battling narrow openings, or overhanging tree limbs by reducing the chance of breaking nozzles and minimizing replacement costs.

Corrosion Resistant Fittings and Hardware

GVM's new corrosion resistant coating reduces the corrosion rate of metal exposed to chemicals and fertilizer, improving product quality, overall equipment reliability, and reducing replacement costs.

	E275NT/E325NT (164 in. wheelbase)	E325NT/E325 (173 in. wheelbase)	E370 (173 in. wheelbase)
DRIVETRAIN			
Drive	Mechanical, full time AWD		
Shifting	Powershift		
Max. transport/road speed	E275NT: 45 mph (72.42 kph) E325NT: 44 mph (70.81kph)	44 mph (70.81kph)	41 mph (66.79 kph)
Speed ranges	6 forward/3 reverse		11 forward/ 4 reverse
ENGINE			
Make and model	E275NT: Cummins QSB6.7 E325NT: Cummins QSL	Cummins QSL	
EPA emissions level	Tier 3		
Peak rated power	E275NT: 275 hp E325NT: 325 hp	325 hp	370 hp
Number of cylinders	6		
Displacement	E275NT: 409 in. ³ (6.7 L) E325NT: 543 in. ³ (8.9 L)	543 in. ³ (8.9 L)	
Governed high idle speed	E275NT: 2600 rpm E325NT: 2100 rpm	2100 rpm	
Fuel tank capacity	115 U.S. gal. (435 L)		
Engine oil capacity	E275NT: 17 qt (16.1 L) E325NT: 22 qt (20.8 L)	22 qt (20.8 L)	
Fan	Reverse pitch optional		
TRANSMISSION			
Make and model	ZF WG210, 6-speed Powershift		Funk DF250, 11-speed Powershift
Trans. oil capacity	10 U.S. gal. (37.8 L)		12 U.S. gal. (45.4 L)
CHASSIS: NARROW & WIDE			
Frame construction	4 x 10 x ¾ in. tubular		
Length	24.75 ft (7.5 m)	26 ft (7.9 m)	
Wheel base	164 in. (416.56 cm)	173 in. (439 cm)	
Turning radius	25 ft (7.62 m)	E325NT: 25 ft (7.62 m) E325: Standard: 21 ft (6.4 m)	21 ft (6.4 m)
Primary brakes	Air operated wedge drum brake		
Parking brakes	Spring applied air release		
Ladder raise/lower	Automatic		
Liquid dry weight	28,000 lb (12,700.6 kg)	E325NT: 30,000 lb (13,607.7 kg) E325: 30,200 lb (13,698.5 kg)	30,200 lb (13,698.5 kg)
Granular dry weight	25,740 lb (11,680 kg)	E325NT: 26,220 lb (11,893.2 kg) E325: 26,420 lb (11,983.9 kg)	26,420 lb (11,983.9 kg)
Maximum GVW	48,000 lb (21,772.4 kg)		
SUSPENSION			
Suspension type	Variable Coil Spring Suspension		
Front axle	24,000 lb capacity 17.7/1 Double Reduction planetary w/ air differential lock		
Rear axle	29,000 lb capacity 17.7/1 Double Reduction planetary w/ air differential lock		
Crop clearance	27 in. (68.6 cm) (with standard tires)		
Row crop tires	380/90R46 Firestone D-Rated		
Front flotation tires	650/75R32 or 800/65R32 Firestone D-Rated		
Rear flotation tires	650/75R32 or 800/65R32 Firestone D-Rated		
Track width	90/108 in. (228.6/274 cm)	E325NT: 90/108 in. (228.6/274 cm) E325: 108/120 in. (274/304.8 cm)	108/120 in. (274/304.8 cm)



E-SERIES PROWLER

	E275NT/E325NT (164 in. wheelbase)	E325NT/E325 (173 in. wheelbase)	E370 (173 in. wheelbase)
DRY SYSTEM			
NL/DD capacity	250/305 ft ³ (7.1/8.5 m ³)		270/330 ft ³ (7.6/9.3 m ³)
Spread width	90-105 ft (27.4-32 m)		
Load height	124 in. (315 cm)		
Available systems	9.5T Double Duty FR, New Leader L3220G4 MR, silver painted 409 SS	11.0T Double Duty FR, New Leader L4000G4 MR, silver painted 409 SS	11.0T Double Duty FR, New Leader L4000G4 MR, New Leader L5034G4, silver painted 409 SS
LIQUID SYSTEM			
Capacity and tank material	1400 U.S. gal. stainless steel		1800 U.S. gal. stainless steel
Product pump	High volume Hypro 9306C std., Scot High Volume Suspension opt.		
Quick fill size	3 in.		
Agitation	Electronic control valve, 0, 1/8, 1/4, 3/8, 1/2 and full position		
Pressure strainer	Banjo 50 mesh T-strainer		
BOOM OPTIONS			
Boom width options	Center Line: 70 ft, 60/80 ft, 60/90 ft, 60/100 ft	Center Line: 70 ft, 60/80 ft, 60/90 ft, 60/100 ft Standard: 60/80 ft, 70/90 ft, 70/100 ft, Pommier: 65/120 ft	Standard: 60/80 ft, 70/90 ft, 70/100 ft, Pommier: 65/120 ft
Plumbing material	Stainless steel		
Ground height adjustment	29.7-84 in. (75.4-213.4 cm)		34.7-89 in. (88.2-226.1 cm)
Breakaway width	6.7 ft (2 m)		
Boom sections	10 AccuBoom std., 5 manual		
Nozzle spacing	Center Line: 20 or 20/30 in. (50.8 or 50.8/76.2 cm)	Center Line: 20 or 20/30 in. (50.8 or 50.8/76.2 cm) Standard: 15 or 20 in. (38.1 or 50.8 cm)	Standard: 15 or 20 in. (38.1 or 50.8 cm)



HYDRA SPRAY

The GVM Hydra Spray was designed to offer versatility and maneuverability to custom applicators, co-ops and farmers. The Hydra Spray is offered on the F-350, F-550 and 7300 International® chassis, providing a narrow machine with a tight turning radius, high road speeds, combo capabilities and four season versatility.



F-350/F-550 Hydra Spray

- 2015 XL Super Duty 4 x 4, 6.7L, V8 Power Stroke Turbo Diesel Ford Chassis
- 6-speed automatic transmission with live PTO
- Truck prep includes: 6" lift kit, bumper extension, heavy duty radiator screen, carbon filters, live PTO hydraulic pump, tire package upgrades, undercoating

Choose:

- F-350 with 68" centers or F-550 with 82" centers
- 430 or 550 gallon stainless steel tank
- 50 or 60 ft booms with accumulator shocks and spring shock break away, 18" adjustable self leveling back rack, hydraulic boom lock and boom skid protectors with 1" stainless steel boom lines
- 360 five way nozzle bodies on 15, 20 or 30" centers with diaphragm check-valves, turbo tips, and fence row nozzle
- Raven 460 controller with 2" flow meter and 1-1/2" control valve
- 33 gallon Simpson foam marker
- Joystick boom controls and fiberglass center console with hour meter
- Raven Controller and GPS Chassis Options:
 - Envivio Pro CAN controller with built in 200 Phoenix Helix receiver
 - Viper Pro CAN controller with guidance software (Need a receiver for GPS)
 - RGL 600 all weather lightbar
 - Cruiser with patch antenna
 - Phoenix 200 GPS smart antenna with remote key pad, WAAS correction and 10 hz update
 - AccuBoom swath control

The new line of Versatile self-propelled sprayers builds on the success of the past, offering simplicity and reliability, but also offers many upgrades, including a new HQ cab, a new load station, front entry, and multiple options.



HQ CAB

The new HQ Cab is the largest in the self-propelled sprayer industry. The design includes 73.5 square feet of glass for unmatched, nearly 360 degree visibility. The new armrest-mounted console controls are well marked, easy to understand, and comfortable to operate.

A large instructional seat provides a comfortable training environment, and folds up when not in use. A carbon charcoal cab air recirculation filter gives operators peace of mind during application season.

PROACTION-FLEX® BOOM

Versatile self-propelled sprayers boast an impressive boom system with an extreme-duty design, built with the most efficient strength-to-weight lattice-style construction. The rugged center section is ideally balanced due to the high center mount pivot location.

Versatile self-propelled sprayers take an extra step to ensure precise applications by controlling the yaw, the traditional to and fro movement of the boom wings during field travel. A three-stage progressive travel dampening system reduces the aggressiveness of the yaw movement for reduced boom strain and unequal wing stability providing a more accurate spray pattern.

MAXTORQUE® MECHANICAL DRIVE

The SX240 and SX280 feature the advanced MaxTorque® two-wheel mechanical drive system. Its superior power-to-the-ground mechanical drive operates at lower RPM's than hydrostatic drives, providing a level of fuel efficiency that will literally save you thousands of dollars each year.

ENGINE

The QSB6.7L Cummins engine powers the SX240 and SX280 providing 240 or 280 hp. The SX240 produces an impressive 730 ft-lb of torque at 1500 rpm while the SX280 produces 760 ft-lb of torque at 1800 rpm. A diesel particulate filter and exhaust gas recirculation system meets emission standards without the use of an additional fluid.

TRANSMISSION

A heavy-duty 5-speed Allison automatic transmission provides seamless and responsive shifting. The Allison transmission allows for speeds up to 30 mph. A locking torque converter helps reduce fuel consumption and increase efficiency. The machine can be operated using the foot-throttle or hand- accelerator and, combined with cruise control, make this self-propelled sprayer among the easiest in the industry to operate.





11 ton Double Duty Fusion Ready spreader with floatier tires



304 stainless steel, 11 ton Double Duty Fusion Ready



9.5 ton Double Duty Fusion Ready pull spreader with dual row crop wheels



DOUBLE DUTY® SPREADER

The GVM Double Duty spreader line offers the widest, most accurate spreading pattern in the industry. Its wide spread pattern is due to the patented, reverse rotating spinner and its accuracy is due to the pre-adjusted funnel forcing material to fall directly onto the spinner disc.

The Double Duty's wider spread pattern allows you to make fewer trips through the field, saving you fuel and time, and minimizing field compaction.

- Pull-type or chassis mounted applicator
- Single product applicator with multi-product options
- Patented spinner design spreads a guaranteed 90-105 ft pattern
- Spreads fertilizer, gypsum, lime and most litters
- 34" wide belt-over-chain conveyor for even flow to spinners and to avoid bridging when spreading lime and litter
- Patented funnel divider allows the material to flow to the spinners with pinpoint control
- 24" computer controlled spinners maintain consistency and accuracy
- PWM control with 180-count rate sensor and CAN node

OPTIONS

- Multiple capacities to fit any machine:
 - 8.0 ton, 10 ft, 250 cu ft struck capacity
 - 9.5 ton, 12 ft, 305 cu ft struck capacity
 - 11 ton, 13 ft, 330 cu ft struck capacity
 - Available in 304 or painted 409 stainless steel
- Raven or Ag Leader controller and GPS
- Bin level sensors
- DOT LED side marker lights and rear LED 3 light, light bar LED tail lights kit, trailer plug and back up alarm
- Fusion Cable-Lok Roll Tarp with stainless bows
- Fusion Electric Cable-Lok Roll Tarp with transmitter and stainless steel bows

MULTI-PRODUCT OPTIONS

Double Duty Fusion Insert

- Simultaneously spreads up to 2 products
- 3 ton, 95 cu ft struck capacity

MicroBin

- Add-on, removable hopper allows you to spread granular micronutrients or seeds as a second or third product
- 11 cu ft, 1100 lb struck capacity



8.0 ton Double Duty Fusion Ready pull spreader with row crop tires



8.0 ton Double Duty Fusion Ready pull spreader with floater tires



Fusion Electric Cable-Lok Roll Tarp



New Leader MicroBin

Roll tarps available see pages 223 - 228

NEW LEADER SPREADERS

L3220G4

Ideal for fertilizer or lime, the L3220G4 allows operators to broadcast fertilizer from 75 pounds per acre up to 3 tons per acre of lime while consistently achieving spread patterns with swath widths from 60 to 105 feet with fertilizer and up to 60 feet with lime. A 30 inch wide heavy-duty #4 belt-over-chain conveyor effectively spreads materials and minimizes bridging.

The L3220G4 with the MultiApplier insert is a two-bin system with independent conveyors that allow you to simultaneously apply two products at pre-determined rates. Remove the MultiApplier, and the main hopper may be used for single or dual product application of fertilizer or lime.



MICROBIN™

The MicroBin add-on hopper allows you to spread granular micro-nutrients or seeds as a second or third product. Ideal products include zinc, sulfur, and seeds such as canola and barley.

By adding the MicroBin hopper, you can broadcast multiple product applications in one pass.

Proven Performance.

The low maintenance and lightweight 304 stainless steel hopper has a large 11 cubic foot struck capacity that can hold up to 1100 pounds of product. Product rates range from 3 to 35 pounds. A hydraulic driven metering wheel ensures a smooth and accurate placement of product directly onto the material divider. The metering wheel removes easily for service and cleaning.

Available for Double Duty and New Leader bodies.



L4000G4

The L4000G4 provides the ability to add a second, third or fourth bin at any time with the addition of the MultiApplier or MultiBin.

This 13 foot spreader is constructed of 304 non-painted stainless steel, and includes a 30 inch wide #4 belt-over-chain conveyor. The standard body width is 102 inches with 6 inch side extensions, and includes a bolted-in rear end gate for greater structural integrity.

Customize to fit your needs:

1. Customize the spreader hopper:
 - Choose either painted 409 stainless steel or non-painted 304 stainless steel.
 - Choose either a #4 belt-over-chain for combination fertilizer/lime applications or a #3 pintle chain for aggressive lime applications.
2. Customize the hydraulics:
 - Choose either standard hydraulics for combination fertilizer and lime applications, or high performance hydraulics for heavy lime applications.
3. Customize for multiple product applications:
 - Add a 5 ft or 7 ft MultiApplier or MicroBin at anytime



L5034G4 COMPOST SPREADER

The New Leader L5034G4 is the best built and most versatile compost spreader in the industry. The extra wide 34 inch conveyor and 50 degree side slopes provide better flow of material and increased output, and the 118 inch 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 inch 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 percent and application rates are increased up to 33 percent or more.



FERTILIZER & LIME SPREADERS



TRANSPREAD & TRANSPREAD COMPUTER SPREAD

GVM is the leading innovator in precision spinner spreading technology. GVM introduced the TranSpread in 1993 proving to the industry that fertilizer could be spread wider than 60 feet. The TranSpread accomplished this with an accurate 90 foot flat pattern. The GVM TranSpread spinner design raised the bar with the highest quality spread pattern in today's industry. The GVM TranSpread will cover 50 to 100% more acres a day, saving fuel while cutting down on yield robbing compaction. No tray adjustment—GVM TranSpreads are easy to calibrate with an adjustable spinner control and a spinner speed rev counter. Capable of spreading fertilizer, lime, gypsum, and most fowl manures, the GVM TranSpread will become an important asset in your line of equipment.

Specifications:

- 304 stainless steel construction
- 33" cleated drag belt in a live roller trough
- Fold up rear spinner deflectors
- Low profile for easy loading
- Ground drive 3-speed stainless press wheel
- Dual, top mounted hydraulic driven dished spinners
- Spread pattern:
 - Lime up to 45 ft
 - Fertilizer up to 98 ft
- Low center of gravity for spreading on hillsides

5.5T TranSpread (160 cu ft)

- Single axle
- 500/60-22.5, 12 ply flotation tire package

8.0T TranSpread (230 cu ft)

- Single axle
- 710/45-26.5, 12 ply flotation tire package

5.5T or 8.0T TranSpread Computer Spread

GVM dual CAN systems with CAN enclosure

Controller Options:

- Raven: SCS 5000, Envizio Pro, Viper Pro, RGL 600 all weather lightbar, Phoenix 200, or ISObus system
- Hemisphere receiver
- Ag Leader: Integra, Versa, or L160 lightbar





SUPER 150 SPREADERS

The Super 150 Spreaders offer efficient and uniform spreading patterns. With its 25 foot wide delivery and 50 cubic foot struck and 54 cubic foot heaped capacity, the dual spinner S150 fits the precision pattern needs of turf and orchard applications. Fitted with the orchard deflector, the S150 delivers the bulk of material at the center of orchard rows with a 15 to 25 foot pattern. Using a 100% overlap pyramid pattern, the S150 delivers a total spread width of 50 feet.

500, 600 & 800 STANDARD FEATURES:

- Dependable ground drive, two speed conveyor system
- Adjustable rate from less than 100 lb/acre to more than one ton/acre
- 12 gauge 409 stainless steel hopper with continuous weld construction
- PTO driven dual spinners with four adjustable curved blades on each or single with six adjustable blades
- Material divider delivers fertilizer to spinners; adjustable baffle plate controls material flow
- Multi-leaf spring suspension with rocker arms for equal load distribution
- Metering system adjusted manually

SUPER 500 SPREADERS

All S500 configurations share a hopper capacity of 152 cubic foot struck and 167 cubic foot heaped. The dual axle spreader is available in dual spinner, single spinner, ground driven spinner, narrow track dual spinner, and narrow track single spinner configurations.

S500 narrow track spreaders have a 62 inch wheel track and are designed for use in 30 inch row crop applications. The Super 500 Spreaders possess a heavy-duty frame with dual axles and two brakes.

SUPER 600 SPREADER

The S600 features a 192 cubic foot struck or 210 cubic foot heaped hopper capacity. The spreader is available in both dual and single spinner configurations as well as narrow track models.

The S600 dual spinner spreaders, using the 100% overlap pyramid type pattern, deliver an 80 foot spread pattern with a 540 RPM PTO shaft or 100 foot pattern powered by a 1,000 RPM PTO shaft, depending on spinner option selected. S600 single spinner models deliver a 65 foot total spread pattern width using a single pass flat type pattern.

S600 narrow track spreaders have a 62 inch wheel track and are designed for use in 30 inch row crop applications. The Super 600 Spreader has a heavy-duty frame with dual axles and two brakes.

SUPER 800 SPREADER

Featuring a 244 cubic foot struck or 264 cubic foot heaped hopper capacity, the S800 is the largest pull-type spreader Willmar offers. The S800 is available in both dual and single spinner configurations.

The Super 800 Spreader has a heavy duty frame with dual axles and four brakes.

SIDE-SHOOTER 16/24 TENDERS

Willmar's 16 ton (14,545 kg) and 24 ton (21,818 kg) side-shooting tenders can be either truck or trailer mounted* and can move up to two tons of material a minute. Contributing to that efficiency are four or six compartment hoppers that can carry a variety of materials; steep, 40 degree, sloped sides for quick material dispensing; large-diameter, 10-inch (25.4 cm) augers and big hydraulic capacity.

Loads of capacity. The 16-ton version holds an incredible 516 ft³ (14.6 m³) struck and 578 ft³ (16.38 m³) heaped while the 24-ton weighs in with a struck capacity of 774 ft³ (21.9 m³) and 867 ft³ (24.6 m³) heaped. Two stainless steel, gate control handles facilitate easy hopper unloading and a wide-mouthed bottom dump gate accommodates pit unloading.

There are separate controls for on/off horizontal and side discharge, fold/unfold and raise/lower auger control. The one-piece, adjustable, swingaway auger engages with a spring-loaded back to eliminate spillage. The hydraulic drive with PTO-powered pump has a large, 25 gallon (94.6 L) hydraulic oil reservoir so you'll always have power when you need it.

**46,000 pound (20,909 kg) gross volume weight (GVW) truck or trailer requirement, depending on model.*

Trailer by Behnke Enterprise, Inc.:

- Main frame: 16" 26 lb I-Beam fifth wheel
- Capacity: 45,000 lb GVWR
- Axle: (1) 22,500 lb oil bath heavy duty axle with anti-lock air brakes, automatic slack adjusters, and park brake
- Wheels: (8) 22.5 x 8.25" Budd style dual wheel with 10 on 11.25"
- Tires: (8) 255/70R-22.5 Bridgestone tire
- Hitch: King Pin, 48" clearance, 2" SAE with 3/8" bolster plate
- Lighting: DOT approved, all sealed rubber mounted

REAR DISCHARGE TENDER

Willmar's truck-mounted* 10 and 16 ton rear discharge tenders are ideal for commercial fertilizer dealers, custom applicators, and large farming operations. With two large-capacity hoppers that feed into one auger, these tenders can carry nearly any single, dry-material product and load any applicator or planter at up to two tons per minute.

30° minimum hopper slope for the 1600 and 40° for the 10 ton model allow for fast material flow and cleanout.

Discharge rates range from 2,400 pounds (5,280 kg) of urea per minute to 4,000 pounds (8,800 kg) of potash per minute. The standard auger is 10 inches (25.4 cm) in diameter by 19 feet long (5.8 m) with a discharge height to 117.5 inches (2.98 m). A 21 foot long (6.4 m) auger with 117 inch (2.97 m) discharge height is also available.

Auger on/off controls and raise/lower controls are located on the left rear corner of the tender. The self-contained hydraulic system is PTO-driven and has a 10 gallon (37.85 L) reservoir.

**32,000 pound (14,515 kg) or 40,000 pound (18,144 kg) gross volume weight (GVW) truck requirement.*



16 ton side shooter tender.



24 ton side discharge tender on a B-B trailer by Behnke Enterprises, Inc.



1600 rear discharge tender.



TENDERS & CONVEYORS

CHARGER II FERTILIZER TENDERS – TRUCK MOUNT & SEMI-TRAILERS

- Truck mount boxes are custom built from 12-24' with multiple compartments
 - Full length hopper sub-frame keeps cones at their full 40° angle to ensure maximum cleanout
- Charger II Semi-Trailers are built from 30-42' with up to 7 individual hopper bins
 - Hopper sub-frame and main frame rails with tubular steel "X" braces for a superior strength to weight ratio



Hydraulics

- Tandem hydraulics power the discharge system
- Direct coupled Parker ME Series hydraulic motors
- Direct mount P20 hydraulic pump (truck mount only)
- Oil reservoir with filter, sump strainers, & sight gauge (truck mount only)
- Rear mounted 2500 PSI control valves
- Air-shift PTO's available

Hopper Construction

- 409 SS multi-compartment hopper w/ 40° cones, 304 SS optional
- 409 SS unit is acid washed, coated with an epoxy ester primer and a white modified urethane finish
- Optional, split compartment for micro-nutrients or granular herbicides



CHARGER II-SF SIDE-DISCHARGE TENDER

- Efficiently unloads up to 4,000 lb/min.
- 9" carbon steel floor auger with adjustable speed control
- 15' hydraulic side folding 9" carbon steel discharge auger

- Pit dump slide gate on base of discharge auger
- SS dump gates, transitions and auger tubes
- Discharge auger extensions optional



CHARGER II-FB OVERHEAD DISCHARGE TENDER

- Unload up to 3,500 lb/min.
- 9 – 12 – 9 auger system rotates 270°, for side or rear unloading
- Optional bolt-on extension for discharge auger available
- 9" carbon steel floor auger with adjustable speed control
- 12" carbon steel vertical auger
- 16' long 9" carbon steel discharge auger
- Pit dump slide gate on base of discharge auger
- SS dump gates, transitions and auger tubes



CHARGER II-CB BELT DISCHARGE TENDER

- Unload fertilizer at a rate of 2,000 lb/min. or seed at 29 bpm
- Tandem conveyor to transfer fertilizer, grain, and seed
- SS dump gates, transitions, & conveyor tubes
- 9" SS floor conveyor with 12" PVC belt
- 20' SS discharge conveyor, 16" Z-top belt



CHARGER II SEMI-TRAILER

- Available in different lengths to accommodate individual capacity needs and maximize payload
- Hutch 9700 three-leaf spring suspension, tri-axle spring suspension optional
- 22,500 lb axles with 10-hole piloted hubs
- 140,000 lb two-speed landing gear
- Air ride suspension for tandem or tri-axle optional



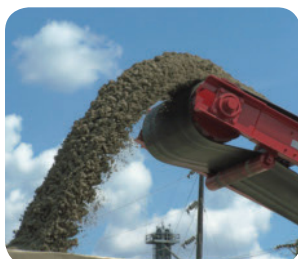
ROLL TARPS FOR TENDERS

- SRT-2 roll tarp for 12-24' box lengths
- EZ-LOC roll tarp for 12-48' box lengths



FLOATER LOADER CONVEYORS

- Unload up to 6 or 12 tons of ag lime per min.
- 24 or 30" wide, 2 ply rubber belt
- 10' hopper extensions w/ reversible backslash
- 35° trough rollers on conveyor incline
- 12 or 16" drive pulley with rough-top lagging
- Easily towed
- Hydraulic jack with hitch mounted control valve and adjustable belt speed control



SS-429 PORTABLE FERTILIZER BELT CONVEYOR

- Unload up to 2.5 tons per min.
- Discharge height: 12' 6"
- 24" wide PVC 120 lb "Z" belt w/ SS lacing
- 10' long horizontal hopper section
- 30' incline at 25° angle
- Control valve with adjustable pressure relief and belt speed control



SPREADERS

SPREADERS

The modular design of Doyle spreaders allows for customization to fit your specific needs. Additionally, this means that if a part, including the hopper, frame, axle, and drive assembly, fails or wears out, it can be quickly repaired or replaced.

- 2 ton ground wheel drive pull type spreaders
- 5 & 6 ton ground wheel drive pull type spreaders
- 5 ton mid-clearance ground wheel drive pull type spreader
- 6 ton PTO drive pull type spreader
- 8 ton lime/fertilizer hydraulic or PTO pull type spreader
- Bolt-on hopper design
- 304 SS or powder coated 409 SS hopper
- 2 x 6" mild steel tube frame w/ heavy duty corner braces



2 ton ground wheel spreader



8 ton fertilizer spreader



5 ton ground wheel spreader

BIG SHOT SERIES SPREADERS

- Row crop spreaders, 11-14' lengths, adjustable track width, 30" belt over chain conveyor
- Track spreader, 16' length, 3 x 12' auto tensioning Camoplast tracks, 30" belt over chain conveyor
- Floater truck spreaders, 11-17' lengths, 4900 Western Star chassis, 30" belt over chain conveyor
- Double Barrel spreader, 16 ton w/ twin bin insert



Big Shot Spreader



TENDERS, CONVEYORS, BLENDERS, CONDITIONERS, & RECEIVING EQUIPMENT



16 ft rear discharge trailer mounted tender

TENDERS

- Constructed of 12 ga. 304 SS
- Trailer Tenders
 - 8' side discharge, (1) 258 ft³ compartment
 - 10' rear discharge, (2) 165 ft³ compartments
 - 16' rear discharge, (2) 241 ft³ compartments
 - 24 ft side discharge trailer tender
 - » (3) 258 cu ft compartments, standard
 - » (6) 129 cu ft bins, optional
- Truck Tenders
 - 10' rear discharge, (2) 165 ft³ compartments
 - 16' side discharge tender, (2) 241 ft³ compartments
 - 16' rear discharge tender, (2) 241 ft³ compartments



Portable belt undercar conveyor



Portable tri-roller conveyor

CONVEYORS

- 12", 18", & 24" chain belt conveyors
- 12" & 24" portable belt undercar conveyors
- 18" & 24" portable belt conveyors
- 1212 & 1616 flat/incline chain paddle conveyors
- FML1212 & FBL 1214 overhead chain paddle conveyors



Vertical Blender



Bucket Elevator

BLEND SYSTEMS

- 6, 8, & 10 ton vertical blenders
- 2, 5, 6, 8, 10, 13, & 16 ton rotary blenders
- 10, 13, & 16 ton "Fatboy" vertical blenders
- 8 ton paddle mixer

CONDITIONERS

- Vertical
- Weigh Hopper
- Free Standing



Rotary Blender

RECEIVING

- Drag Conveyors
- Field Loaders
- Portable Conveyors
- Bucket Elevators
- Top Shot Conveyors

LIQUID NITROGEN SIDE-DRESS APPLICATORS

DLQHD Series

- Sizes: 9 row-30", 11 row-30", 15 row-30", 29 row-15"
- Heavy duty press wheel drive assembly
- Pump options: John Blue 4455, 4955 Twin Piston, Tote, Model 10 Viton
- Tank sizes: 500, 750 and 1000 gallon
- 5 x 7" structural steel frame & tongue
- Wheel spacing 120" fixed
- Heavy duty spindles; 8-bolt hubs
- Double 4 x 6" structural steel front mounted applicator bar
- Hydraulic folding wings
- 42" lug tires with 8-bolt wheels or 46" lug tires with 10-bolt wheels
- Adjustable dual clevis hitch; 4 x 4" parking jack

DLQ Series

- Sizes: 9 row-30", 11 row-30", 15 row -30", 29 row-15"
- Heavy duty press wheel drive assembly
- Pump options: John Blue 4455, 4955 Twin Piston, Tote, Model 10 Viton
- Tank sizes: 500, 750 and 1000 gallon
- 5 x 7" structural steel frame and tongue
- Wheel spacing 120" fixed
- Heavy duty spindles; 8-bolt hubs
- Double 4 x 6" structural steel front mounted applicator bar
- Hydraulic folding wings
- Large tire size: 19.1 x 16.1 x 14 ply
- Adjustable dual clevis hitch; 4 x 4" parking jack



RUNNING GEARS FOR NH₃ TANKS

This Reach Pole Wagon is for the operator who insists on clean, rugged, leaf springs for a better ride and stability. A full 17 inch under the front axle for better ground clearance.

- Fifth wheel type reach pole trailer
- Adjustable or non-adjustable axle
- 15" full contact fifth-wheel plate
- Extra heavy 2" spindles on 1300 Wagon Series and 2-½" spindles on 1600 Wagon Series
- 3 x 5" steel tube front and rear axles on 1300 Wagon Series
- Rear hitch and wheels: 15 x 10 x 6 bolt standard
- Front and rear axles equipped with two front bolster springs and blocks on rear bolster
- 13' turning radius; 17" axle clearance
- 6 leaf spring: 4000 lb
- 1000 gal. AA tank, 1300 Wagon Series
- 1450 gal., 1600 Wagon Series



ANHYDROUS AMMONIA TOOLBARS

Dalton Toolbars are built to meet your individual needs. Front to back rank is 60 inch, the widest in the industry. Its heavy construction of 6 x 4 rectangular tube provides strength.

DW Series Toolbar

This unit features the versatility of handling 15 to 36 inch row spacing. Down flex of 24 degrees on the wings allows the toolbar to travel over even the roughest terrain, keeping the fertilizer in a more even soil depth. Hydraulic folding wings, fold-over 45 degrees and give you more road transport clearance.

Options include hydraulic gauge wheel walkers, single lift wheels and gauge wheels for side-dressing, Raven metering systems, ground driven pumps, manifold systems, disc sealers and coulters.

D3000 Series Toolbar

This unit handles 15 to 36 inch row spacing. Extra long wing lift cylinder slot so that wing can follow contour of ground with removable spacers to adjust wing flex. Hydraulic folding wings fold-over 45 degrees and give you more road transport clearance.

Options include in-line transport with screw type gauge wheels, Raven metering systems, ground driven pumps, manifold systems, disc sealers and coulters.



DRY FERTILIZER SPREADERS

- 500: 5 ton, 170 ft³
- 600: 6 ton, 200 ft³
- 800: 8 ton, 270 ft³
- 409 SS hopper, painted white
- SS 8" conveyor chain, SS conveyor trough, SS metering gate & rear skid section, SS drive chains and 2-speed conveyor drive
- Nylon fitted tarp & ridge pole
- Rear safety bumper, safety chains
- Gearbox driven distributor
- Tandem walking beam axles
- (500) 12.5 x 15" tires and rims, (600) 16.5 x 16.1" tires & rims with 2-wheel brakes, and (900) 19.5 x 16.1" tires and rims with 4-wheel brakes
- One year warranty
- Spreader options: mud and gravel fenders, flip top, remote controlled conveyor clutch, 1000 rpm pto, light kit, single spinner option, & 2 wheel surge brakes





AGRIPROBE®

GVM understands the importance of soil sampling, its ever-increasing need, and the long, back breaking hours manual soil sampling requires. The genetic yield potential of crops continues to increase, along with input costs, forcing more growers to soil sample. The GVM AgriProbe was designed to help those who soil sample become more efficient in collecting samples, become profitable and to not be physically worn out at the end of the day.

The GVM AgriProbe nearly automates soil sampling, allowing users to become faster and more efficient in collecting samples, in addition to providing a more consistent, repeatable service, and gaining more sampling acres per day. The AgriProbe applies approximately 20,000 pounds of pressure into the ground, pulls a 6-12 inch soil sample, carries the sample through the silo vacuum system, dries the sample, and then bags it, inside the cab.

Simple operation, allows users to sample 100-150 acres per hour, depending on the sampling intensity and depth. The AgriProbe is built on a forklift skid assembly for a Bobcat 5600 Toolcat all purpose chassis, allowing the Bobcat year round versatility.

- 1-½" stainless steel probe, 6 to 12" long
- 12V, 85 lb vibrator
- 2.5 x 14" cylinder
- 5 ft mini belt conveyor
- 2 high powered motors with over 210 CFM of air flow



MULTI-GRIP TIRE HANDLER



GET A GRIP & ADD EFFICIENCY TO YOUR OPERATION

GVM's Multi-Grip Tire Handler was designed to allow users to quickly, safely, and efficiently change tires on application units. The Multi-Grip Tire Handler features three hydraulically operated gripping jaws, allowing it to easily center on the tire with a firm grip. The grabbing assembly swivels approximately 60 degrees, allowing users to easily align the wheel with the studs or wheel bolt holes on the hub. Paired with Wacker Neuson's WL36, users can pick tires up from a flat position on the ground, rotate them to a vertical position, and easily mount onto an application unit.

- Up to 2,000 lb capacity rating
- 56 – 80" opening/closing range
- 60° swivel for easy alignment
- Universal mounting plate attachment works with most loaders
- Grooved metal grip plates on clamping arms provide a tight grip
- Adjustable legs allow the unit to sit on its own without additional support

VERSATILE TRACTORS

Versatile was the first North American manufacturer to mass-produce and market articulated four-wheel drive tractors. Since Versatile opened more than 40 years ago, the plant in Winnipeg, Manitoba, has built over 100,000 tractors.

Versatile's commitment is to design and build quality tractors that are easy to service, economical to own, with built-in features that contribute to the bottom line and add to operator comfort and convenience.



MFWD SERIES 260-310 HP

MODEL	260	290	310
Engine type	QSL 8.9L		
PTO	1000 rpm single 540/1000 rpm dual, optional		
Rated engine hp	260 hp	290 hp	310 hp
Peak engine hp	296 hp	326 hp	340 hp
Torque rise @ 1500 rpm	45%	36%	29%
Peak torque	945 lb-ft	985 lb-ft	995 lb-ft
Hydraulic type	Closed Center Load Sensing System		
Hydraulic flow rate @ 2100 rpm	55 gpm	55 gpm	55 gpm
High flow- hydraulic system	75 gpm	75 gpm	75 gpm
Hydraulic remotes, standard	4 standard	4 standard	4 standard
Hydraulic remotes, high flow	6 standard	6 standard	6 standard

FRONT WHEEL DRIVE TRACTORS

ENGINE. All models feature a reliable iT4 Cummins engine, turbocharged and air-to-air aftercooled. Their Diesel Particulate Filter (DPF) and an Exhaust Gas Recirculation (EGR) systems and do not require the use of urea.

TRANSMISSION. Upshifting and downshifting is as easy as the push of a button. Models are equipped with a 16 x 9 full powershift transmission that has been refined for smooth shifting, particularly when under load.

HYDRAULICS. The closed center load sensing hydraulic system provides ample capacity for implements that demand high hydraulic flow by providing pressure and flow on demand.

PTO. The fully-independent PTO comes standard with 540/1000 dual speed output.

3-POINT HITCH. A category III/IIIN 3-point hitch comes standard on Versatile tractors, featuring a lift capacity of 18,850 lb.

CAB. The spacious and roomy Versatile cab is the largest in its class, and features increased functionality, including Headland Management System and fingertip control of all the tractors working functions.

ARTICULATED 4 WHEEL DRIVE

ENGINE. The iT4 Cummins QSX engine is turbocharged and air-to-air aftercooled to deliver superior performance. It uses a Diesel Particulate Filter (DPF) and an Exhaust Gas Recirculation (EGR) system and does not require the use of urea.

TRANSMISSION. Choose a Caterpillar® 16-speed powershift transmission or 12 x 4 mechanical transmission (mechanical transmission not available in 550 model). Both transmissions are programmable for auto-shifting and speed matching.

HYDRAULICS. Versatile's closed center load sensing hydraulic system, standard with four remote valves and a total hydraulic flow of 58 gpm. Optional high-flow hydraulics feature six remote valves and a total hydraulic flow of 113 gpm.

PTO. PTO output with a 1-3/4 in. shaft is available as an option.

OSCILLATION. The flexibility provided by the subframe and drag link assembly permits up to 15° of oscillation on each side (30° total) as the tractor moves over uneven terrain.

ARTICULATION. Large 6.5 in. steering cylinders articulate smoothly and quickly. A maximum articulation angle of 42° (38° in models 350, 375, and 400) provides a turnaround radius of less than 16 ft.



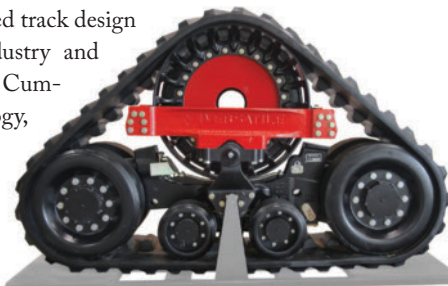
CAB. The new Versatile cab is the largest in the industry with improved comfort and ergonomics. The new cab features an air-ride suspension swivel seat, improved training seat, integrated control console and Headland Management System. Optional with Versatile Precision Ag System (V-PAS).

4WD SERIES 350-550 HP

MODEL	350	375	400	450	500	550
Engine type	QSX 11.6L			QSX 15L		
Horsepower	350 hp	375 hp	400 hp	450 hp	500 hp	550 hp
Power bulge @ 1800 rpm	10%	11%	18%	11%	10%	7%
Peak horsepower	385 hp	411 hp	450 hp	500 hp	550 hp	591 hp
Torque rise @ 1400 rpm	54%	55%	60%	51%	8%	49%
Peak torque	1350 lb-ft	1450 lb-ft	1600 lb-ft	1700 lb-ft	1850 lb-ft	2050 lb-ft
Hydraulic type	Closed Center Load Sensing System					
Hydraulic flow rate	58 gpm					
High flow hydraulic system	113 gpm					
Hydraulic remotes	4 standard, 6 optional					

DELTA TRACK 450-550 HP

The Versatile DeltaTrack is a fully integrated purpose built, four track system from Versatile. Available in three models: 450DT, 500DT, and 550DT, the DeltaTrack exceeds the performance and durability of existing track systems to maximize power to the ground. Four independent tracks maintain balance and provide constant contact with the ground. The DeltaTrack is built using the most advanced track design in the agriculture industry and features with proven Cummins engine technology, rugged CAT powershift transmissions, and legendary Versatile reliability and serviceability.



VERSATILE TILLAGE



OFFSET DISCS

Versatile offset discs are available in three weight classes ranging from 550 lb/ft to 1050 lb/ft. Designed to be stronger and last longer, Versatile discs feature extreme duty bearings and optional interlocking ½ spools and the industry's strongest and tightest gangs with steel fabricated spools torque to an impressive 3200 ft-lb.



TANDEM DISCS

Built to handle trash and incorporate heavy residue, utilizing a one of a kind floating hitch, Versatile tandem discs leave a more level finish when compared to competitive units.

All Versatile disc gangs are torqued to an unparalleled 3200 ft-lb of torque. Steel fabricated spools are built to withstand heavy shock loads and prevent gangs from slipping. Versatile discs are also built using the best bearings in the industry, so you stay in the field until the job is done.



CULTIVATORS & CHISEL PLOWS

Versatile cultivators, chisel plows, and chisel cultivators feature a full floating hitch to maintain a constant working depth. Available with trip force of 350, 550, 600 and 650 lb and in working widths from 23 ft 6 in. to 60 ft, there is a Versatile cultivator to meet the needs of every operation.

VERSATILE COMBINE

The RT490 is a new 490 hp Class VIII combine from Versatile. True to the heritage of Versatile, the RT490 was designed to be rugged, reliable and simple to maintain and service.

ROTATING CONCAVE ROTARY

The RT490 separates itself from traditional rotary combines by utilizing a Rotating Concave Rotary system (RCR). A 360 degree concave counter rotates the rotor at 8 rpm. The moving concave eliminates the traditional "dead zone" found in typical rotary systems.

- Steady operation in high humidity or when processing tangled crop
- Prevention of inclined chamber clogging
- Self-cleaning concave
- Prevents straw from building up in the concave
- Improved crop feeding for threshing
- More active threshing and separation
- Reduced grain shattering
- Minimum number of adjustments for harvesting various crops
- Inclined beater chamber levels and uniformly spreads the mass arriving at the rotor
- Rotating concave provides high-quality threshing over the entire rotor surface
- Continuously variable drive ensures best threshing parameters for each crop





WACKER NEUSON | WHEEL LOADERS

Wacker Neuson is a global manufacturer of light and compact equipment. Wacker Neuson's emphasis stands firmly on outstanding quality, innovative technology, and personalized service.

The Wacker Neuson line of wheel loaders offers articulated machines that offer excellent maneuverability and a wide choice of power and performance ratings. The all-wheel steer models are comfortable to operate and provide excellent stability on jobsites with steep grades. A wide variety of attachments are available including different style buckets, brooms, pallet forks and many more.



750T



WL37



WL36



WL32

WHEEL AND TELEWHEEL LOADERS

	Model	Engine Performance	Operating Weight	Bucket Capacity	Lifting Force	Breakout Force	Dump Height
Articulated Steering	WL32/HF	49/60 hp	6,724 lb	0.59 yd ³	7,259 lb	9,089 lbf	7' 9"
	WL36	47.9 hp	8,000 lb	0.785 yd ³	8,330 lb	8,780 lbf	7' 11"
	WL37	74 hp	8,223 lb	0.78 yd ³	8,331 lb	8,768 lbf	8'
	WL50	74 hp	10,660 lb	0.98 yd ³	7,761 lb	7,711 lbf	8' 5"
All Wheel Steer	550						
	850	60.3 hp	9,921 lb	1.1 yd ³	8,992 lb	7,868 lbf	8' 2"
	750T TeleWheel	60.3 hp	11,244 lb	1.5 yd ³	6,744 lb	11,016 lbf	9' 10" 13' 1" boom extended
	1150	74 hp	13,007 lb	1.5 yd ³	10,881 lb	9,667 lbf	8' 11"


**WACKER
NEUSON**

SKID STEER & TRACK LOADERS

Available in two models, Wacker's skid steer loaders provide users with enough power and efficiency to any jobsite, and with the SW 28, an extended reach for loading and unloading.

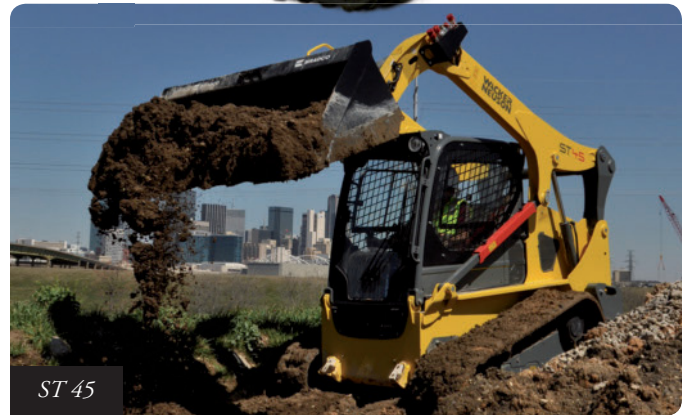
Both compact track loaders deliver users ample power and maneuverability, but the ST 45 offers a high cooperating capacity and an extended lift, making it ideal for digging and loading

All skid steer and track loader models feature a standard two-speed transmission designed to increase travel time on jobsites, providing more work time throughout the day. Their spacious, extended cab maximizes operator room and comfort.

- Available in both H-pattern and ISO joystick pilot controls, the machine fits the preferences of any user
- Ergonomically designed controls and pressurized cab deliver comfort and visibility, reducing operator fatigue
- Quick and easy service access from the forward tilting cab & the arrangement of internal components makes it easy to maintain this machine
- Hydraulically driven fan operates on an as-needed basis allowing faster warm-up times of the engine & significantly reducing noise
- Optional high flow hydraulics increase the range of usable attachments, improving efficiency & productivity



SW 28



ST 45

SKID STEER LOADERS

Model	Engine	Operating Weight	Bucket Width	Dump Height	Travel Speed (low/high)
SW 24 Radial Lift	74.3 hp turbo-charged Perkins Tier IV Final	7,865 lb	74"	7' 9"	6.8/11.2 mph
SW 28 Vertical Lift	74.3 hp turbo-charged Perkins Tier IV Final	8,283 lb	74"	8' 9"	6.8/11.2 mph

COMPACT TRACK LOADERS

Model	Engine	Operating Weight	Bucket Width	Dump Height	Travel Speed (low/high)	Track Width	Track Length on Ground
ST 35 Radial Lift	74.3 hp turbo-charged Perkins Tier IV Final	9,827 lb	80"	7' 9"	4.3/8.72 mph	17.7"	63"
ST 45 Vertical Lift	74.3 hp turbo-charged Perkins Tier IV Final	10,245 lb	80"	8' 9"	6.8/11.2 mph	17.7"	63"





POWERPLATFORM

THE NEXT GENERATION MUNICIPAL VEHICLE

The multi-purpose PowerPlatform offers high speeds, maneuverability, a large cargo capacity and excellent operator visibility while still maintaining a road legal 102 inch tire width. This innovative machine will become a valuable tool in snow removal.



FOUR SEASON VERSATILITY

Attachments to the PowerPlatform can utilize the front and rear 3-point hitches and tongue hitches in addition to the front and rear PTO. The PowerPlatform features a category III-N, 3-point hitch with an 11,000 lb capacity. It's PTO is designed for heavy duty applications, offering 140 hp in the front and 180 hp in the rear. The quick change rear platform can be easily up-fitted with sprayers, spreaders, dumpers, silage boxes, etc. to meet multiple needs.

SPEED AND STABILITY

Fully loaded at 52,000 lb, the PowerPlatform travels up to 40 mph. Optional gearing allows the machine to reach maximum road speeds, with a top cargo capacity of 26,000 lb, while still providing a smooth ride.

POWER AND SMOOTH SHIFTING

The PowerPlatform is powered by a reliable 275 hp Cummins 6.7L Tier III engine mated to a 6 speed ZF powershift transmission to provide maximum power, torque and fuel efficiency. The full time 4-wheel drive system features a transmission lockable interaxle differential that can be locked "on-the-go" with the touch of a button, making sure you never get stuck.

MANEUVERABLE

Three modes of steering and stability control create excellent maneuverability and safety.

- **Front steering**
- **Coordinated steering:** the rear axle wheels the opposite direction as the front to achieve a tight 20.2' curb-to-curb turning radius.
- **Crab steering:** the rear axle wheels the same direction as the front and is useful where inclines can cause vehicle sideslip or where individual wheel marking is preferred to alleviate soil compaction on soft ground.

SELF PRESERVATION

Total and individual axle weights are constantly monitored to determine if the machine is loaded, overloaded, or severely overloaded.

COMFORT ALL DAY LONG

The PowerPlatform's forward mounted cab provides plenty of room for both the driver and a passenger and offers unparalleled visibility with floor-to-ceiling glass. The spacious, climate controlled cab features an adjustable air suspension seat, three-position steering wheel, a cooler box, and a full size passenger seat. To keep work going late into the night a total of 11 work lights provide almost 360 degree lighting.

CONTROLS

All controls are conveniently located on the ergonomic right hand console (RHC) that glides forward/back and "floats" with the air-ride seat. The multi-function joystick easily fits into the hand for complete transmission control while simultaneously operating two hydraulic remote circuits. RHC controls include: additional hydraulic remote circuits, dump box control (if applicable), 3-point hitch control and raise/lower switch, engine cruise control functions, front/rear PTO switch (if applicable), hydraulic remote lockout, front/rear suspension lock, axle/transmission differential lock, 4-wheel steering functions, and exhaust brake control.

DISPLAY

A 6.5 inch color LCD display provides all instrumentation and controls in four easy to use screens. The Primary screen displays basic instrumentation, fault codes, warning/indicator lamps, transmission shift information, fuel economy, fuel remaining, hydraulic oil temperature, air system pressure, and date/time. The Flow Control screen display provides adjustment of hydraulic flow. The Weight Control screen displays total weight along and cargo or net weight in either pounds or kilograms. The Camera screen displays all the standard instrumentation in abbreviated form plus a rear view camera.





SELF-PROPELLED SNOW & ICE CONTROL



THE MOST VERSATILE SNOW AND ICE REMOVAL SYSTEM

The perfect solution for snow and ice control before, during, and after an event. The GVM EZ Rider allows users to apply granulated salt, pre-wet salt at the spinner, and spray anti-icing liquids. It can spray liquids up to three feet and spread granular material up to four feet. This low clearance machine features easy maneuverability and a tight turning radius, and ideal for universities and college campuses, parking garages and as a tool for municipalities to clear sidewalks.

- 13 hp Briggs & Stratton electric start engine
- Variable speed hydrostatic drive
- Stainless steel, rust resistant frame
- Hydraulic spinner and agitator
- 45 PSI 3.0 GPM pump
- LED work light
- Digital hour meter and tachometer
- 250 lb granular capacity
- (2) 15 gal. poly tanks; 30 gal. capacity



Prewetting at the spinner



Anti-icing before event



EZ Rider control panel



BRINE MANUFACTURING

AUTOMATED BATCH SYSTEMS (ABS)

GVM's Brine Manufacturing ABS's are designed to convert dry rock salt into liquid for pre-wetting or anti-icing roadways. The use of salt brine lowers the freezing point of snow and ice and is popular and cost effective solution for managing roadways. GVM's ABS Brine Systems lower operation costs by using readily available materials; granular salt and tap water.

- Produces up to 5000 gal. of brine per hour (depending on water source)
- SS tank divider separates manufactured brine for pumping to storage tanks or truck mounted tanks
- Hot dip galvanized structural steel frame meets ASTM specification A-123 for corrosion protection
- 115" wide top opening
- Tank designed to be rolled over for easy clean-out
- Includes a Misco Digital Refractometer to measure saturation percentage of salt brine
- **Note:** Vertical storage tanks available on pages 50-51

ABS-800 BRINE SYSTEM

Ideal for landscapers, small municipalities, and contractors, the ABS-800 is GVM's most economical system available.

- 800 gal. capacity tank, 144 x 43 x 58"
- 2.5 yd³ salt capacity
- Single speed pump, 110 GPM
- Portable for use at multiple locations

GEOMELT DE-ICING PRODUCTS

- **Economical:** reduces salt consumption and labor
- **Effective:** works longer; 2-3 days residual, works in temperatures as low as -30°F
- **Environmentally Friendly:** less corrosion to surfaces

See page 209 for more information on GEOMELT



ABS-1500 BRINE SYSTEM

The ABS-1500 allows users to pump manufactured brine from the brine maker to a storage tank as well as use the storage tank as a fill station to fill truck mounted tanks without adjusting or moving hoses. The system also allows users to load and unload truck mounted pre-wet tanks and large anti-icing tanks.

- 1500 gal. tank, 151 x 53 x 63"
- 5 yd³ salt capacity
- 2 speed pump for high and low operation speeds, 40 - 130 GPM



BLEND & FILL STATIONS

PUMP TRANSFER STATION

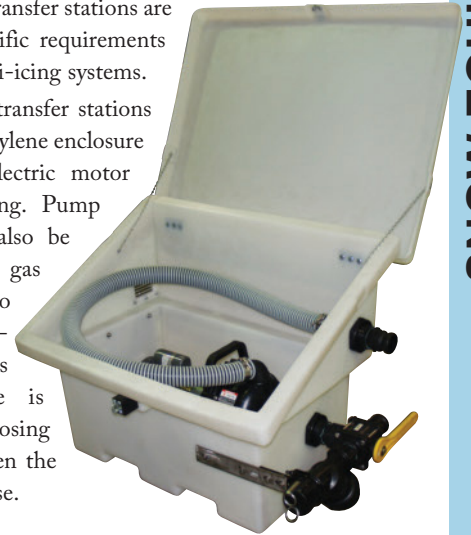
- 22 x 11 x 12" (L x W x H) enclosure
- Fill hose and unload hose: 15' of 1" chemical resistant rubber
- Poly fill nozzle with stainless steel spring and pin for easy tank filling
- Tank return assembly, attached to the storage tank
- 1" poly bulkhead fitting
- 1" poly ball valve with quick couple connection
- 2" poly tank shutoff valve with male quick couple attached
- 15' of 1-1/4" flexible PVC hose fitted with 2" female quick couple for tank connection
- 1-1/4" poly hose barb for connecting to pump



PORTABLE PUMP TRANSFER STATION

GVM's portable pump transfer stations are built to meet your specific requirements for filling pre-wet or anti-icing systems.

GVM's portable pump transfer stations feature a molded polyethylene enclosure with a lockable lid, electric motor driven pump and hosing. Pump Transfer Stations can also be built with an optional gas driven engine with a two inch suction and discharge. The system's polyethylene enclosure is large enough to store hosing inside the enclosure when the pump station is not in use.



NORWESCO VERTICAL TANKS

See page 50-51 for more information

GEOMELT DE-ICING PRODUCTS

- **Economical:** reduces salt consumption and labor
- **Effective:** works longer; 2-3 days residual, works in temperatures as low as -30°F
- **Environmentally Friendly:** less corrosion to surfaces

See page 209 for more information on GEOMELT

BLEND STATION

To accurately mix up to three de-icing chemicals, the GVM Blend Station allows users to quickly adapt to any weather event at any desired rate or effective temperature. GVM's station also allows users to set a programmable batch size and volume. Additionally, the system features an automatic shutoff, for ease of operation.

The Raven mixing tube generates over 100,000 Reynolds of mixing turbulence at 100 GPM, guaranteeing that individual chemicals will be thoroughly blended together before application to the road surface, thus eliminating the need for a separate mixing tank. The turbulence rating increases as the GPM rate increases. The unit also includes Raven Flow Max components paired with Raven flowmeters.

Flow Max 810 Controller

- Programmable batch size
- Pre-cutoff setting to ensure accurate batch volume

Raven Mixer

- Ensures accurate and even blending of liquid de-icing materials
- Enhances mixing turbulence through a honeycomb style grate within the blending tube
- 316 SS



CALCOTE FILL SYSTEMS (CFS)

CFS Series Systems are designed to dispense liquid chlorides and other liquid pre-wet solutions into truck mounted tanks used to pre-wet de-icing materials. They also have the ability to unload, and return liquids held in the truck mounted tanks to the storage tank.

- Work light allows for safe and efficient operation
- Dispenses all common prewet liquids
- Constructed of materials and components proven to be durable in the harsh environment of winter road de-icing
- Full line of polyethylene storage tanks ranging from 300 to 10,000 gal. in size
- Series 1000 and 1500 systems include a timer for automatic shutoff





PRE-WET SYSTEMS



Fixed base system



Fixed base system controls



Free-standing system



Free-standing pump system

PEDESTAL PRE-WET SYSTEMS

GVM's Pedestal Pre-Wet Systems are multi-functional liquid de-icer dispensing systems designed to pre-wet truck loads of solid de-icing materials.

Pedestal Pre-Wet Systems allow users to pre-wet multiple truck-loads and multiple trucks with only one dispensing system. Pedestal systems are also capable of loading and unloading truck-mounted pre-wet tanks, returning the liquid de-icer to bulk storage tanks, and draining tanks for end-of-season maintenance.

Systems include:

- Adjustable height spray bar
- Centrifugal pump, rated flow up to 60 GPM
- Post-mounted control box
- Hot dip galvanized steel to meet ASTM specification A123 on base, main body and spray arm

Options:

- Fixed base system or freestanding systems
- Storage tank sizes: 300-10,000 gal.
- Dusk-to-dawn light
- Tank Plumbing to Dispensing Package
- Remote control for ease of operation
- Linear actuator, for mechanical spray arm adjustment
- Electric ball valve to prevent tank siphoning

NORWESCO VERTICAL TANKS

See page 50-51 for more information



GEOMELT DE-ICING PRODUCTS

- **Economical:** reduces salt consumption and labor
- **Effective:** works longer; 2-3 days residual, works in temperatures as low as -30°F
- **Environmentally Friendly:** less corrosion to surfaces

See page 209 for more information on GEOMELT



2400 gal. chassis mounted system

TRUCK MOUNTED PRE-WET DISPENSING SYSTEMS

Designed to pre-wet granular material at the spinner, GVM's Truck Mounted Pre-Wet Systems are built on the heaviest duty frames in the industry for extended durability. Truck Mounted Pre-Wet Systems are ideal for Departments of Transportation, municipalities, townships, and landscapers. With a variety of sizes and mounting options, this pre-wet system can be customized to fit virtually any truck.

Mounting Options and Sizes:

- Frame mounted: 35-65 gal. available
- Chassis mounted: 60-240 gal. available
- V-Box mounted: 30-450 gal. available
- Tailgate mounted: 30-135 gal. available

Features:

- Accurately and consistently dispenses all common pre-wet liquids
- Cab mounted controller
- Hot dip galvanized steel carrier
- Weather proof polyethylene pump housing
- Hydraulic or electric pump

GEOMELT DE-ICING PRODUCTS

- **Economical:** reduces salt consumption and labor
- **Effective:** works longer; 2-3 days residual, works in temperatures as low as -30°F
- **Environmentally Friendly:** less corrosion to surfaces

See page 209 for more information on GEOMELT



Frame mounted system



Tailgate mounted system



V-box mounted system



Tailgate mounted system



ANTI-ICING SYSTEMS



1800 gal. truck mounted

DIRECT APPLICATION SYSTEMS (DAS)

GVM's Direct Application Systems (DAS) are designed to spray anti-icing liquids directly onto road surfaces. DAS units are available in a wide range of sizes, to fit any fleet or budget. DAS units can also be used for dust control on unpaved surfaces.

- Add-on system to directly apply anti-icing or de-icing liquids
- Mounts onto ATV's, tractors and large or small trucks
- 125-3400 gal. systems available
- Easy load and unload features
- Hook-lift system, skid-mounted system or trailer system
- Free standing carrier frame made of hot dip galvanized steel
- 1, 2, or 3 lane coverage spray bar
- On/off controller in cab
- Ground speed control options
- Hydraulic driven pump



EZ load

GEOMELT DE-ICING PRODUCTS

- **Economical:** reduces salt consumption and labor
- **Effective:** works longer; 2-3 days residual, works in temperatures as low as -30°F
- **Environmentally Friendly:** less corrosion to surfaces

See page 209 for more information on GEOMELT



BAFFLE BALLS

See page 65 for more information



CONTROLS

See page 47 for information on Snow & Ice Controls



125 gal. ATV mounted



225 gal. skid mounted



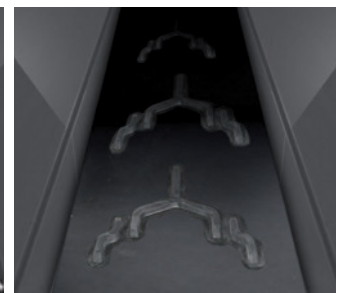
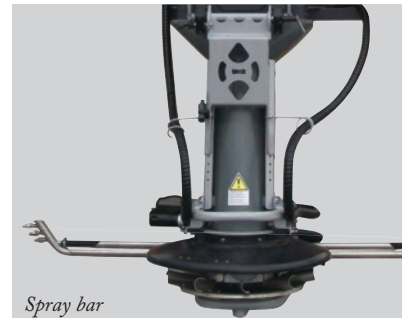
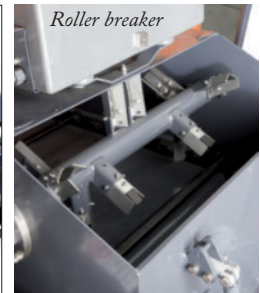
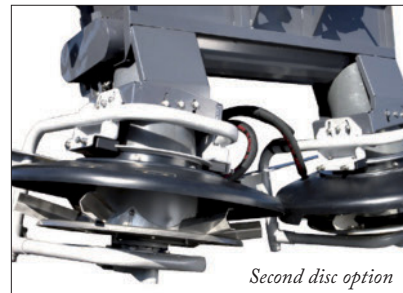
325 gal. pick-up mounted

The Giletta UniQa and Giletta UniQa COMBI truck mounted spreaders are designed for medium and heavy duty truck bodies. Offering a metal or rubber belt spreader, the unit is suitable for salt, sand, or grit. The hopper is fully welded to prevent vibrations and is made of thick, high strength steel (stainless steel is available upon request), providing high load capacity.

The UniQa COMBI spreads granular products in addition to spraying liquids.



- Choose:
 - Metal belt feeding system
 - Rubber belt feeding system
- Roller breaker with SS blades provides continuous material flow, breaking salt lumps and avoiding an uncontrolled drop
- Ecosat control system
 - Program and visualize different spreading parameters: width, asymmetry, & dosage depending on the vehicle speed
 - Six different tools in all-in-one control box
- Advanced management of professional vehicles & equipment
 - Localization and real-time management (tracking) of vehicles
 - Visualization of positions on digital maps
- Route-Replay guides driver by vocal and visual message and shows treated vs. untreated road
- Hydraulic driving system
- Auxiliary engine driving system, air or liquid cooled diesel engine
- Fifth wheel driving system with telescopic supporting arm works in front and rear tirection
- Salt missing sensor with visualization on driver's display
- Automatic demount systems for multiple truck styles
- Electric asymmetry regulation in five pre-set positions from cab
- PVC hopper cover
- Galvanized grid, 304 SS optional
- Rear mounted SS ladder
- Optional second disc to increase salt and/or brine spreading
- Spray bar with nozzles
- Pre-wetting system
 - Maintenance free volumetric pump directly coupled to the hydraulic motor
 - Nitrile rotor requires no internal washing (only at the end of the season)
 - Sturdy and light-weight recyclable polyethylene tanks
 - Solid/liquid ratio regulated from control box in driver's cabin
- Brine tanks
 - Lateral tanks and front auxiliary tanks
 - Sturdy and light-weight recyclable polyethylene
 - Solid/liquid ratio regulated directly from control box in driver's cabin



The leader in performance and value. Outback Guidance is a leading agricultural GPS guidance system manufacturer. Their products focus on tractor guidance, mapping and precision spraying for ground agriculture and have a solid reputation within the industry, built on award winning technology and dedication to customer service.

GUIDANCE

Outback MAX™

The Outback MAX with OutbackConnX™ redefines simplicity in precision farming.

- Rugged design to operate in rough environments.
- A powerful mapping engine that stacks imagery and data layers.
- Delivers seamless connectivity via Outback's ConnX data management system to deliver real-time data access and management.
- The integrated display terminal provides a full array of features including section and variable rate control, Eclipse™ L1/L2 GPS and GLONASS guidance, and video support for up to 4 cameras.
- Compatible with eDriveX™ and eTurns™, taking advantage of the most precise and feature rich automated steering available.
- Over 550 models of farm machinery are supported with custom-designed steering installation kits.



Part No. RTK 910-4001-000
Part No. OmniSTAR 910-4002-000
Part No. SBAS 910-4003-000

Outback STX™

The Outback STX Guidance System combines full RTK capability in an autosteer ready, value based terminal. The Outback STX is compatible with the full line of Outback autosteer systems.



The STX is RTK capable when used in conjunction with a MAX rover and Outback RTK base stations.

Part No. RTK 910-4011-000
Part No. OmniSTAR 910-4012-000
Part No. SBAS 910-4013-000

Outback S Lite

The S-Lite is an affordable solution for your operation, for everything from spraying to tillage. The S-Lite is WAAS enabled with no annual subscription fees. With easy installation and set-up, the savings on inputs start the minute you turn it on and can easily be moved to another machine.



Part No. 875-0194-000

AUTOSTEER

Outback eDriveXC™ **NEW**

eDriveXC provides centimeter-level accuracy ideally suited to precision planting and your most challenging RTK applications. The system features extremely quick line acquisition and offers the most dependable online performance. eDriveXC is the perfect match for precision placement of nutrients and season-to-season repeatability.



Outback eDriveXD™ **NEW**

eDriveXD is the ideal autosteer solution for tillage, spraying, harvesting and spreading applications that utilize a system with decimeter-level accuracy.



Outback eDrive w/ESi™ **NEW**

Outback eDrive® together with the ESi (Electric Steering Interface) delivers accurate automated steering performance in a simple to install package. Installation is quick and easy, and can be completed in about two hours. Coupled with Outback eDriveXD or eDriveXC, ESi provides decimeter or centimeter-level steering control accuracy ideal for broad acre applications such as swathing.



PRECISION

Outback A320/A321 Smart Antenna

A versatile, portable solution with centimeter-level accuracy powered by Eclipse™ II's multifrequency GNSS receiver technology. With the Eclipse II GNSS module, RTK performance is scalable. Benefit from fewer RTK dropouts, faster reacquisitions and more robust solutions.



Outback AutoMate

The AutoMate allows you to manage up to 10 boom sections and multiple planter sections. The system recognizes both pre-defined applied zones and/or previous coverage areas. The system will automatically

turn sections on and off when covering areas already applied and will also turn sections back on automatically, to eliminate skips.



Outback AC110 Spray & Section Control

The AC110 combined with Outback MAX, provides rate control for one product and section control for up to 10 sections. The AC110 displays sections with section override, support for eDriveTC and eDriveX, an external report viewer, and interface kits for Raven (440/450/460), (4400/4600), and TeeJet (854/844E) models.



VIPER® 4 **NEW**

Viper® 4 integrates with Raven's full line of products into one networked platform that offers a responsive 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 color-blind which means it works with equipment of every brand. Easy job set-up, fewer touches, and greater efficiency allow for extraordinary data management capabilities.

- Preloaded with AgX standard database
- Sleek design with 12.1" LED backlit display and a responsive touchscreen with tablet-like interface
- Customizable interface for portrait or landscape orientation
- Raven Operating Software
- State-of-the-art, rugged magnesium alloy enclosure
- Dustproof for tough environments
- 4 camera inputs for monitoring bin levels, blind spots, etc.
- 2 USB ports

Utilize Viper 4 with these enhancements:

- SmarTrax™ and SmarTrax RTK™
- Phoenix™ DGPS Receivers
- AccuFlow™ and AccuFlow HP™
- Sidekick Pro™
- Slingshot® and Slingshot® RTK steering
- AutoBoom® boom height control
- AccuBoom™ boom section control
- WatchDog™ Weather Station



Phoenix Receiver



AutoBoom

VIPER 4 PARTS & ACCESSORIES

Description	Part No.	Price
Kit, Viper 4, without GPS	1-117-5010-010B	9535.91
Kit, Viper 4, GPS, MBA-6 antenna	1-117-5010-010W	13,354.09
Kit, Viper 4, GPS, MBA-6 antenna, Slingshot GS correction	1-117-5010C	17,172.27
Kit, Viper 4, GPS, MBA-6, antenna, RTK, GLONASS	1-117-5010KG	20,990.45
Viper 4 single product VRA	1-077-0180-100	1431.82
Viper 4 multi-product VRA (pairs with single VRA)	1-077-0180-101	1909.09
Viper 4 combo VRA (single & multi)	1-077-0180-102	3340.91
Viper 4 Upgrade Kit (kit includes, cable, Viper 4 adapter to Viper Pro/Envizio Pro cabling)	1-115-0172-023	326.45

VIPER PRO™

The easy-to-use Viper Pro wireless-ready is equipped to simultaneously handle over five different product applications, each with its own variable application rate for both liquid and granular products. Viper Pro gives you the ability to manage data from multiple programs without extra handling, reorganization or reformatting.

- 10.4" color touch-screen display
- Reporting, including real-time data mapping and record keeping
- Compatible with standard DGPS receivers and NMEA string formats
- GreenSeeker variable rate control interface
- USB and Ethernet ports
- Wireless communication option
- Windows XP operating system
- LastPass 3-D guidance
- 5 product variable rate control

Utilize VIPER PRO™ with these enhancements:

- SmarTrax™ and SmarTrax™ RTK steering
- SmartSteer™ boom height control
- AutoBoom™ boom section control
- AccuBoom™
- Sidekick Pro™
- Application Controls
- AccuFlow™ /AccuFlow HP™
- OmniSeed™
- Phoenix™ DGPS Receivers
- Switch Pro™
- Slingshot®
- WatchDog™ Weather Station



Slingshot

VIPER PRO PARTS & ACCESSORIES

Description	Part No.	Price
Viper Pro with guidance and single product	117-0171-112	9946.36
Viper Pro console only with guidance and single product	063-0172-879	9535.91
Software single VRA	077-0180-004	1431.82
Guidance software key (add on-screen guidance)	077-0171-151	1069.09
Multi-product VRA software key	077-0171-152	1909.09
Farmworks as applied viewer program	077-0171-138	288.27
Mount Console Prowler	44-01141	568.42
Tube console mount predator	76-01200	252.52

Kits available for many types of sprayers. Raven Office Viewer program, 077-0171-162

RAVEN FIELD COMPUTERS & GUIDANCE

ENVIZIO PRO™/ENVIZIO PRO II®

Raven's Envizio Pro multi-function field computers enable you to control, simplify and improve virtually every phase of your operation.

- Multi-product control with VRA
- Color, non-glare 6.5" touch screen display
- All season capability for planting, spraying, spreading, harvest, & tillage
- Simple & advanced mapping, data, & application reports
- Built in, dual frequency DGPS receiver scalable to RTK and GLONASS
- USB and Ethernet ports
- Slingshot ready



ENVIZIO PRO PARTS & ACCESSORIES

Description	Part No.
Envizio Pro Kit without guidance	117-0171-128
Console only with guidance & dual product	063-0172-865
Console with guidance	063-0172-939
Envizio Pro Variable Rate Key	077-0180-031
Envizio Pro with MBA 3 Antenna	117-0171-137
Envizio Pro II Kit with MBA-6 WAAS/SBAS/power (interface cable not included)	117-5010-001W

Kits available for many types of sprayers.

CHASSIS AND APPLICATOR CABLES

Description	Part No.	Price
Cable adapter tee with power ¹	115-0171-368	190.91
Terminator CAN passive ^{1, 2, 3, 4}	063-0172-369	202.36
Boom/speed node ¹	063-0172-272	505.91
Cable CAN speed ¹	115-0171-345	202.36
Cable CAN boom ¹	115-0171-337	185.18
Cable power 16' ¹	115-0171-413	223.36
Cable CAN ext 12' (without tee) ¹	115-0171-386	150.82
Cable Tee 4" ^{1, 4}	115-0171-364	126.00
Cable speed sensor Ford ¹	063-0171-195	370.36
Single product control node ^{2, 4}	063-0172-373	1393.64
Cable single product liquid ²	115-0171-380	639.55
Cable bulkhead power 2" ^{2, 3, 4}	115-0171-412	162.27
Dual product control node ^{3, 4}	063-0172-315	2166.82
Cable granular product 1 (GVM) ^{3, 4}	115-0171-406	742.64
Cable granular product 2 (GVM) ^{3, 4}	115-0171-407	263.45
Sensor gear tooth granular ^{3, 4}	063-0159-981	154.64
Cable CAN extension 6' ⁴	115-0171-326	307.36
Granular encoder 25' ⁴	063-0171-443	547.91
Cable single product granular with bin level ⁴	115-0171-526	933.45

¹Chassis cables ²Sprayer cables ³Double Duty/New Leader cables ⁴Fusion/MultiApplier cables

CRUIZER II™ /CRUIZER II™ RTK

The Cruiser II and Cruiser II RTK provide simple, affordable guidance in one fast and powerful system. Cruiser II and Cruiser II RTK also make it simple for you to grow with more power and capability when you're ready for auto-steering and automatic on-off planter and boom section controls.

- Weather resistant versions for use in open cabs
- Accuracy and efficiency in a variety of operations - from tillage and seeding to spraying and harvesting
- Cost-efficient RTK at its best with Cruiser II RTK
- Add automatic section shutoff for planters and sprayers, auto steer, assisted steering and yield monitoring
- Load/save A-B lines and jobs
- Record field boundaries
- SHP (Shapefile) files, KML and bitmap files for enhanced record-keeping
- Slingshot ready



Description	Part No.
Patch antenna	117-0171-247
Helix antenna	117-0171-249
Tilt boom sensor	117-0171-059
Boom sensor adaptor	115-0171-792
Cable	115-0171-794

SMARTRAX™/SMARTRAX™ RTK

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
- Slingshot® ready
- No line of site issues with Slingshot RTK corrections and unprecedented range of 30 miles or more based on universal cell phone networks
- Automated system calibration
- Compatible with four field patterns: straight A-B, fixed curve, pivot, and enhanced last pass patterns for faster running and convenience
- Simple engaging and disengaging



Description	Part No.
SmarTrax GVM Predator Hydraulic Kit	117-0190-035
SmarTrax SAT Predator Hydraulic Kit	117-0190-053
SmarTrax GVM Prowler Hydraulic Kit	117-0190-020
Kit controller SmarTrax	117-0197-002
SmarTrax Closed Center Universal Kit	117-9001-001
SmarTrax Open Center Universal Kit	117-9001-006
SmarTrax for 2008 and newer Hydraulic Kit	117-0190-085

PHOENIX™ GPS RECEIVER

Raven’s high performance Phoenix™ receivers deliver highly accurate, reliable DGPS positioning using WAAS, GLONASS, EGNOS and OmniStar® satellite-based DGPS corrections. These receivers feature RTK capabilities and are ideal for precision farming where a rugged, simple-to-operate receiver is required.



Description	Accuracy	Correction	Part No.
Phoenix 200	9" pass to pass RMS	SBAS, autonomous GPS	117-0171-071
Phoenix 300 dual frequency	Scalable	SBAS, OmniSTAR, RTK, autonomous GPS	117-0190-097

RGL 600 LIGHTBAR SYSTEM

For simple navigation and swathing

- Large display screen: instant access to swath number, error and course heading
- 8 Swath types: parallel, contour, headlands, squeeze, race track, pivot, row crop, double headland c-clamp
- Optional tilt compensation for hills
- Adjustable lights
- All-in-one setting

- Weather-resistant housing
- Remote button box provides operator control and selection of different lightbar options, including different field patterns
- Lightbar displays DGPS receiver status display, swath guidance, ground speed, and course over ground
- English and Metric units for speed and distance, swath width and swath type



Description	Part No.
RGL600 w/ remote 210 & 310, Phoenix 300 and RPR 400C & 410	117-0159-881
RGL600 w/ remote 100G and Phoenix 200	117-0159-882
RGL600 w/ remote with tilt Invicta 210 & 310, Phoenix 300 and RPR 400C & 410	117-0159-883
RGL600 w/ remote with tilt 100G and Phoenix 200	117-0159-884
RGL600 w/ wireless remote Invicta 210 & 310, Phoenix 300 and RPR 400C & 410	117-0159-968
RGL600 w/ wireless remote 100G and Phoenix 200	117-0159-96
RGL600 w/ wireless remote with tilt Invicta 210 & 310, Phoenix 300 and RPR 400C & 410	117-0159-970
RGL600 w/ wireless remote with tilt 100G and Phoenix 200	117-0159-971

AUTOBOOM®

Automatic boom height control system with fast operating speeds, simple calibration and user-friendly controls. Its unique hydraulic-powered design delivers a smooth and responsive height-adjusting system.

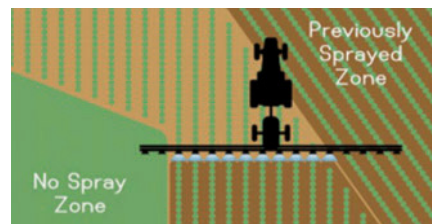
- Automatic calibration, less than one minute per boom
- Optimal spray height ensured
- Ability to increase spraying seeds
- Up to 5 sensors, including center rack control
- ISOBUS compatible
- Pressure-based control for smooth boom movements and adjustments
- Stand alone controller allows users to add AutoBoom without a field computer



ACCUBOOM™

Automatic section control is for up to 10 sections. The wireless receiver and remote control option, allows operators to check each section outside the cab.

- 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 shutoff
- Optional remote control to help check nozzles quickly



SMARTBOOM™

Automatic section control that doesn't require a field computer, only a GPS signal. SmartBoom plugs into your Cruiser or GPS receiver on one end and SCS spray console on the other.

- Automatic on-off control for up to 10 sections
- Individual GPS-guided boom section control automatically avoids no-spray zones and previously sprayed areas
- Adjustable look ahead function lets you adjust settings easily for the overlap you choose
- Adjustable percent coverage allows you to control when each section should shutoff
- Compatible with Raven and third party spray consoles

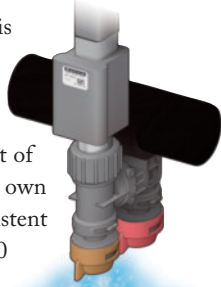


RAVEN APPLICATION CONTROLS

HAWKEYE™ NOZZLE CONTROL SYSTEM NEW

Precision Like You've Never Seen Before

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 whether you are driving 5 or 20 miles per hour*.



The Hawkeye System is built on the ISOBUS

communication platform

which allows it to work

with most ISO Task

Controllers on the

market, including the

Viper 4 by Raven.

- Reduced spray drift, consistent spray pattern, accurate droplet size and placement
- Extended range out of each nozzle (4:1 turn-down ratio)*
- ISOBUS compatible lets you utilize your existing virtual terminal or your existing spray control system, including the Viper® 4 by Raven
- Turn compensation comes allows for accurate flow across the entire boom, giving you a more precise application
- Individual valve diagnostics monitor every nozzle to alert you immediately of a system issue
- Automatic section and pressure based control
- Simple installation and setup

**System specs may vary depending on nozzle tip size*

RAVEN SCS 330 SPRAY CONSOLE

Raven's automatic SCS 330 sprayer control system is designed for trailed and ATV sprayers. Either system maintains a single programmed application rate regardless of speed changes and/or changes



in the number of boom sections being used. The SCS 330 provides control of three boom sections and features quick and easy programming and spot application control with a manual increase/decrease switch. The SCS 330 does not save settings.

SCS 330 CONSOLE AND PARTS

Description	Part No.	Price
330 console only	063-0171-115	1489.09
1" poly flow meter	063-0172-040	557.45
¾" control valve	063-0171-120	307.36
Wheel drive speed sensor	063-0159-539	454.36
16' control cable	115-0159-437	498.27

RAVEN SCS 440 SPRAY CONSOLE

The SCS 440 console maintains a preset application rate automatically regardless of changes in speed. Spray rate is read in gallons per acre with other information available at the touch of a key. The SCS 440 memory saves settings.

- Field volume
- Area per hour
- Time and distance
- Gallons per acre
- Total area
- Speed
- Gallons in tank
- Total volume per minute



SCS 440 CONSOLE AND PARTS

Description	Part No.	Price
SCS 440 console only	063-0171-183	2243.18
Boom relay kit	063-0159-010	641.45
SCS 440 Operator's Manual	016-0159-409	15.94
SCS 450 console (6-boom)	063-0171-220	2577.27
GVM 460 console only	063-0171-299	2243.18
Sensor assembly (21')	063-0159-438	303.55
6' Flow meter cable	115-0159-016	110.73
24' speed sensor ext.	115-0159-018	133.64
6' flow control cable (SCS 440)	115-0159-404	223.86
12' flow control cable (SCS 440)	115-0159-405	276.82
12' flow ext. cable (SCS 440)	115-0159-409	252.00
10' console control cable (SCS 440)	115-0159-418	349.36
6' flow control cable (SCS 750)	115-0159-451	507.82
20' flow cable (92 Hydra Spray)	115-0159-541	366.55
3' console cable (92-93 Hydra Spray)	115-0159-560	246.27
12' product cable (SCS 440)	115-0159-612	532.64

**Order radar gun separately*

SCS 440 RADAR INTERFACES

See rear of console for "revision letter" before ordering interface for radar gun.

FOR REVISIONS A THROUGH D CONSOLES

Gun	Tractor	Part No.	Price
Dickey-john	Ford, White/AGCO Allison	063-0159-598	547.91
Dickey-john	John Deere 1990 & later	063-0159-795	526.91

FOR REVISION E CONSOLES (START 1991)

Gun	Tractor	Part No.	Price
Dickey-john	Other	115-0159-526	204.27
Dickey-john	Case/IH	115-0159-517	252.00
Dickey-john	Ford, White 1990 & later	115-0159-529	244.36
Dickey-john	Cat Challenger	115-0159-518	387.55
Dickey-john	John Deere 1990 & later	115-0159-519	229.09

RAVEN SCS 4600 & 5000

Raven SCS 4600 and 5000 Series Consoles are affordable and easy-to-use. The 5000 Series also expands easily, offering you the flexibility your operations needs.

- 3 product capability
- CANbus equipped
- Clearly marked, large keypads
- Easy to read, back-lit VGA display
- Simple in-cab wiring
- Ground speed compensated automatic rate control
- GPS compatible
- 10 boom capability
- Upgrade software remotely via serial port



Description	Part No.	Price
SCS 4600 Console	063-0172-343	3111.82
SCS 5000 Console	063-0172-894	2071.36
5000 Console Cable	115-0171-334	337.91

See page 233 for information on AccuFlow for NH3

RAVEN SCS 660 LIQUID/DRY CONTROL

Accurately control liquid or granular application with the same Raven Sprayer Control System 660. Raven's SCS 660 is ideal for operators who require accuracy in applying both liquid and granular material. The console can be moved from the cab of a liquid application system to the cab of a dry application system within minutes.

Set the application rate and the SCS 660 will automatically maintain that rate throughout the entire job, regardless of vehicle speed or varying terrain. Application rates can be displayed in volume per acre, hectare, or thousand square feet.

- 7 section boom control
- Control liquid or granular
- For ag, roadside, or turf
- Accurate control
- Control anhydrous ammonia
- GPS compatible



SCS 660 CONSOLE AND PARTS

Description	Part No.	Price
SCS 660 (7 boom) liquid/granular console with serial interface	063-0171-221	2768.18
120' console control cables (liquid)	115-0171-152	152.73
36' console control cables (liquid)	115-0171-153	122.18
3' long console cable (granular)	115-0159-707	385.64
24' long extension cable (granular)	115-0159-717	599.45
12' long extension cable (granular)	115-0171-301	400.91
21' long flow cable (granular)	115-0159-787	568.91

*Kits may vary, call for pricing and options information, New Leader Mark 4 Compatible.

SWITCH PRO™

Replace your Raven SCS 440, 450 or 4400 spray console with Switch Pro—and pair it with an Envizio Pro, Envizio Pro II or Viper Pro field computer for on-off section control, adjustable 0-100 percent coverage control and a manual override function for greater savings and productivity.

- Single-product liquid or NH3 application control
- AccuBoom™ automatic section shutdown

Part No. 063-0172-983



FLOW MAX 110 TRANSFER SYSTEM

Economical design ideally suited for: chemical fill plants, nurse trucks and tanks, sprayer tanks, and precise measurement of liquids.

- Quick and easy installation
- Weather resistant enclosure
- Back-lit display window
- Batch volume and rate of flow
- Total and sub volume measured



Description	Part No.	Price
Console 110	063-0171-357	771.27
12' cable flow meter	115-0159-017	118.36
24' cable/ext. flow meter	115-0159-019	143.18

FLOW MAX 220 TRANSFER SYSTEM

The Flow Max 220 digital flow meter makes monitoring flow from the nurse truck to your sprayer easy and convenient. It's digital display is easy to view and the controls are located directly on the meter.

- Mounts "in-line" to monitor flow rate accurately
- Simple programming and operation
- Weather resistant enclosure
- Total and sub volume measured
- No additional cables needed
- 200 GPM maximum



Description	Part No.	Price
220 assembly	063-0172-123	1412.73
Lithium battery	507-2001-006	22.91

FLOW MAX 810 BATCH CONTROLLER

Programmable batch controller for accurate, fluid transfer from bulk tank to sprayer tank.

- Start, stop and clear batch control
- Programmable batch size
- Pre-cutoff setting to ensure accurate batch volume
- Quick and easy installation
- Non-volatile memory
- Rate of flow and remaining volume
- Total and sub volume measured



Description	Part No.	Price
Console assembly 810	063-0171-214	1412.73
3' Console cable	115-0159-763	160.36



APPLICATION CONTROLS

HYDRAULIC CONTROL VALVES



Description	Part No.	Price
3 GPM	063-0172-159	973.64
8 GPM	063-0172-160	973.64
16 GPM	063-0172-195	941.18
30 GPM	063-0172-196	945.00

RAVEN CONTROL VALVES



Description	Part No.	Price
3/4" poly butterfly valve	063-0159-001	160.36
1" poly control valve m200 flange/1" NPT	063-0172-125	500.18
1" cast iron control valve	063-0172-977	916.36
1-1/2" poly control valve M200 flange/ 1-1/2" NPT	063-0171-894	557.45
2" stainless steel control valve	063-0172-177	1269.55
3/4" poly control valve	063-0171-120	307.36

RAVEN BOOM VALVES



Description	Part No.	Price
Boom valve single	063-0171-926	351.27
Boom valve 3 section	063-0171-928	1059.55
Boom valve 5 section	063-0172-039	1765.91
Boom valve high volume 2-port	*	*
Boom valve high volume 3-port	*	*

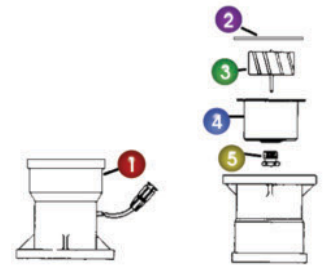
RFM FLOW METER



Description	Part No.	Price
RFM 15 (.3-15 GPM poly) M200 flanged	063-0172-040	557.45
RFM 60P (1-60 GPM poly) M200 flanged/1-1/2" NPT	063-0171-793	761.73
RFM 100 (5-100 GPM poly) M220 flanged	063-0171-066	1231.36
RFM-200 (15-200 GPM cast)	063-0159-574	1890.00
RFM-200P (15-200 GPM poly) M300 flanged	063-0159-751	1870.91
M200 MAG flow meter (3-200G)	*	*

**Call Independent Ag Equipment to check availability and pricing.*

REPAIR PARTS RFM 200 POLY ONLY



Ref. No.	Description	Part No.	Price
1	XDCR assembly	063-0159-750	687.27
2	O-ring, Viton	219-0000-052	34.36
3	Turbine	117-0159-017	303.55
4	Turbine hub	063-0159-564	351.27
5	Stud with brg.	063-0159-575	105.00
	End bearing and PC assembly	063-0159-646*	330.27
	Cable Kit	117-0159-441*	89.73

** Not shown
Contact us for repairs on RFM 200 Cast Iron*



APPLICATION CONTROLS

1 IN. AND 2 IN. FULL PORT FLOW METER

- Displays overall total volume, batch total volume and flow rate
- Digital readout
- Magnetic style, self calibrating meter—2" measures all viscous liquids, 1" measures water and most conductive liquids
- Requires six AA batteries
- No moving parts to fail during use
- Glass-reinforced polypropylene
- Temperature range from 0°F to 150°F
- Accuracy is approximately 99% from 30 to 300 GPM (2"), 5 to 75 GPM (1")



Part No. MFM220Price: \$1,281.44
Part No. FM100 & Part No. MFM100Price: \$1,127.99

**CALL FOR DETAILS
SEE PAGE 83-84 FOR FLANGE FITTINGS**

SCS SIDEKICK™/SIDEKICK PRO™

The Raven SCS Sidekick is the solution for cost effective chemical injection. It is a direct injection add-on to any existing Raven single product control console. The SCS Sidekick enables current single product Raven console owners to gain precision injection capabilities without purchasing replacement consoles, cables, etc.

- Fits wide range of EC (Emulsified Concentrates) injection applications
- Fast installation & set-up
- Accurate, reliable positive displacement piston pump
- High-volume (10-200 oz/min.) & low-volume (5-100 oz/min.) modules available
- Variety of tank options
- Works with any Raven single-product controller
- Saves time by reducing carrier tank clean-up
- Saves money by eliminating wasted chemical
- Up to 7 boom inputs
- Compact design



INJECTION MODULES WITH PISTON PUMP, MOTOR CONTROL AND TANK

Description	Part No.	Price
24G with tank high volume (5-200 oz.)	117-0159-915	8085.00
Injection without tank high volume (5-200 oz.)	117-0159-916	7283.18
24G with tank low volume (1-40 oz.)	117-0159-976	8085.00
Injection without tank low volume (1-40 oz.)	117-0159-975	7283.18

CAN INTERFACE INJECTION

Description	Part No.	Price
CAN motor without agitation	117-0171-030	2023.64
CAN motor with agitation	117-0171-029	2023.64
Motor control mounting kit	117-0159-984	87.82

PLANTER & SEEDER CONTROLS

RAVEN CROP START II SYSTEM

The Raven Crop Start Control System was developed to apply liquid starter fertilizer at the same time the crop is being planted. The system fits on the planter and provides precise application of the fertilizer crops. Producers using the Crop Start system will have a simple and cost effective way to give their crops a yield boost this growing season.



- Speed compensated technology, replaces ground drive and squeeze pump systems
- Simple, user friendly console and easy installation on the planter
- Serial port to interface with data loggers
- Automatic system shutoff when planter is raised from ground
- Interfaces with existing radar on tractor
- Standard 8-row kits, optional 4-row add-on kits available. Kits include console, flow monitor and stand assembly, pump, proper cables, etc.
- Proven, reliable pulse width modulated motor control

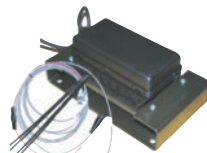
Standard 8 Row Kit
Part No. 117-0159-831

4 Row Add-On Kit
Part No. 117-0159-830

SPEED SENSOR CONTROLS & ACCESSORIES

RAVEN RADAR GUN

Measures true ground speed under actual field conditions.



Description	Part No.	Price
Raven radar gun only	063-0172-143	1002.27
2' interface cable	115-0159-522	152.73
12' extension cable	115-0159-032	114.55
24' extension cable	115-0159-018	133.64
Raven radar gun with cable	117-0159-822	1135.91

RAVEN SPEED SENSOR

Description	Part No.	Price
Raven wheel drive magnetic sensor kit	063-0159-484	521.18

Ag Leader® APPLICATION CONTROLS

DIRECTCOMMAND™ APPLICATION CONTROL

DirectCommand offers complete control over liquid or granular applications, while at the same time logging data and providing real-time application mapping capabilities.

- Eliminate overapplication, overlap, spray drift and application gaps
- Increase productivity during tight application windows
- Reduce fuel costs and field compaction by applying multiple products at one time
- Target product application through crop sensing and prescription application strategies
- Document all field application data and provide simple reporting

GUIDANCE DISPLAYS

Choose between the full-featured Ag Leader® Integra display, the flexible Versa™ display, or the entry-level Compass™ display.

The Ag Leader Integra and Versa displays feature:

- Planter control with SeedCommand™
- Application control with DirectCommand™
- Yield monitoring
- Integrated guidance
- Data logging and mapping
- Plug seamlessly into any color of equipment
- Color touchscreen
- Year-round display
- Field borders, boundaries, obstacles marked in real-time from the cab
- Reduced input costs means improved profitability
- Integrated guidance helps extend working hours when the sun goes down.



Integra Display



Versa Display



Compass Display

Better management decisions start with better field data

- All displays work seamlessly with SMS™ Software
- Simplify setup by exporting grower, farm, field and boundary data as well as guidance lines and prescriptions between SMS Software and the Ag Leader display
- Use data collected from your display to create reports for insurance and marketing partners, landlords and your own profitable decision making

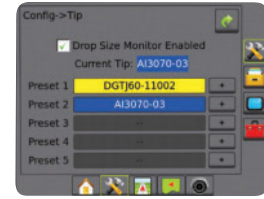
DISPLAY FEATURE COMPARISON

	Integra	Versa	Compass
Traditional grower/farm/field management	X	X	X
Event-based management	X	X	X
AutoSwath™	X	X	
Hybrid/variety logging	X	X	
Multiple product control	X	X	
Variable rate planting	X	X	
PWM, Hydraulic Servo control valves (Case IH, John Deere, KINZE & White planters)	X	X	
Rawson ACCU-RATE direct drive	X	X	
Split-planter logging	X	X	
Planter population monitoring	X		
Advanced seed monitoring	X		
Hydraulic down force control	X		
Guidance	X	X	X
Autosteer	X	X	X
Headlands	X	X	X
Air seeder support	X	X	
Coverage mapping	X	X	X
Data logging	X	X	X
Liquid/dry product application control	X	X	
Multiple product application (liquid or granular)	Up to 8	Up to 3	
Variable rate application	X	X	
Closed loop spinner speed control	X	X	
Smart Report™	X		
Strip-till	X	X	
Chemical injection	X	X	
Boom height control	X	X	
External switchbox	X	X	
OEM switch input support	X	X	
OptRx® crop sensors	X		
Grain harvest	X	X	
Harvest variety tracking	X		
Load variety maps	X		
Survey collection	X	X	
Intellislope® plow control	X		
Topography mapping	X	X	X
Virtual terminal support	X	X	
Multiple product task controller support for liquid, granular spreader, air seeder, row crop planter spring 2014	X	X	
Camera Support	X	X	
AgFiniti® wireless and remote support with Ag Leader USB Wi-Fi adapter	X	X	

AEROS 9040 **NEW**

The Aeros 9040 offers precision guidance, auto-steering, application rate control, mapping, variable rate application, Automatic Boom Section Control (ABSC) and wireless data transfer.

- Rugged enclosure with a crisp, bright 8.4" display
- Dual USB ports
- Ethernet port and Wi-Fi capability
- Built in sub-meter GPS, also compatible with external GPS receivers
- Exclusive RealView® guidance over live video
- Droplet size and tip flow monitoring
- Application control includes single product liquid or granular applications with servo or PWM control methods
- Auto section control for up to 30 boom sections of automatic control
- Precise guidance and automatic steering
- Coverage and as-applied mapping

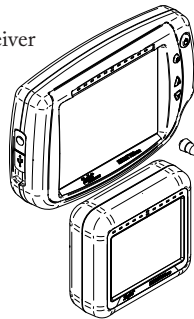


AEROS 9040 KIT

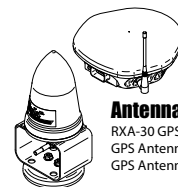
Description	Part No.
Console, Aeros 9040, Dual Frequency GPS/OmniStar HP	75-30085
Console, Aeros 9040, L1 WAAS/EGNOS	75-30089

MATRIX® PRO GS GUIDANCE

- Exclusive RealView® Guidance Over Video
- Monitors various implement operations on a single console
- Automatic swath control and accurate mapping for dry spreaders and non-linear spray booms, compatible with third-party rate controls for prescription application & as applied record keeping
- Droplet size monitoring, real time sensing, & displaying of droplet size is now an available option
- Improvements for FieldPilot® auto steering, UniPilot® assisted steering, BoomPilot® ABSC, & tilt compensation
- Create, save and recall boundaries & AB lines
- Two-way data transfer
- Internal WAAS/EGNOS receiver
- Compatibility to external receivers
- Create permanent no spray zones
- 8.4 or 5.7" bright color touch screen



MATRIX® PRO GS



Antennas & Receivers
 RXA-30 GPS Antenna 90-02720
 GPS Antenna 78-50155
 GPS Antenna 78-50190 w/GLONASS

RealView® Camera
 Video Selector Module 78-08068: 8 Channel
 Video Selector Module 78-08067: 4 Channel
 RealView Camera 16-00022
 Camera Extension Cable 45-05617: 20'/6m
 Camera Extension Cable 45-05618: 60'/18m

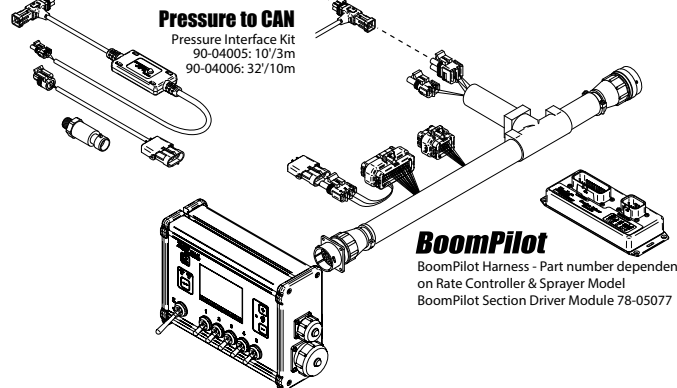


FIELD PILOT®
 FieldPilot Steering Valve - Part number dependent on vehicle model
 Steering Control Module (SCM) 78-08075
 SCM Harness 45-07708
 Footswitch 32-04020



UNI PILOT®
 UniPilot Assisted Steering System 90-02806

Pressure to CAN
 Pressure Interface Kit
 90-04005: 10'/3m
 90-04006: 32'/10m



BoomPilot
 BoomPilot Harness - Part number dependent on Rate Controller & Sprayer Model
 BoomPilot Section Driver Module 78-05077

MATRIX PRO GS KITS

Description	Part No.
570GS w/ Helix antenna and camera	98-02816
570GS w/ Patch antenna and camera	98-02810
840GS w/ Helix antenna and camera	98-02833
840GS w/ Patch antenna and camera	98-02831

MATRIX® 430

An easy to use, low cost, graphical guidance system ideal for first-time users. The full-color, touchscreen display allows operators to efficiently navigate fields with minimal skips and overlaps in coverage.

- Versatile GNSS guidance in a compact, portable package
- Full-color, 4.3" touchscreen display
- Full time numeric display of cross-track error with two additional parameters including: worked area, worked time, or ground speed
- Minimal setup
- Guidance modes include: Straight & Curved AB, Circle Pivot, & Last Pass
- Return-to-point feature to easily resume jobs or mark field hazards
- Boundary function for easy and precise measurement of field area
- Implement ON/OFF status can be manually activated on screen for single or multiple sections
- Audible alarm sounds when entering into previously applied areas
- Measures and displays applied area throughout application
- Measures time spent on jobs
- Simple reporting function provides coverage reports in .KML or .PDF format downloaded via USB port



Description	Part No.
Kit, Matrix 430, GLONASS, patch antenna, battery leads	GD430-GLO-P-B
Kit, Matrix 430, GLONASS, patch antenna, COBO connector	GD430-GLO-P-C
Kit, Matrix 430, GLONASS, patch antenna, US lighter connector	GD430-GLO-P-L
Kit, Matrix 430, GLONASS, RXA-30 antenna, battery leads	GD430-GLO-R30-B
Kit, Matrix 430, GLONASS, RXA-30 antenna, COBO connector	GD430-GLO-R30-C
Kit, Matrix 430, GLONASS, RXA-30 antenna, US lighter connector	GD430-GLO-R30-L

UNIPILOT ASSISTED STEERING

- Easy to use and install with a single, universal bracket mounted to the steering column
- Improved portability for year-round use, UniPilot can also be moved between vehicles with minimal effort
- Adapts to your field conditions and your location with tilt compensation and gyro-stabilization



CENTERLINE 220

The compact, portable CenterLine 220 is designed to let you profit from GPS lightbar guidance for any field operation.

Part No. 90-02399



ACCESSORIES FOR CONTROLS

RXA 30 antenna

- High-gain, helix antenna w/ magnetic mount, compatible with WAAS and EGNOS correction
- 6-10 inch pass-to-pass accuracy with WAAS correction

RX520 receiver/antenna

- Dual Frequency SBAS, L1, L2 for sub meter accuracy or upgrade to PPP for repeatable 2-4 inch accuracy
- PPP available via TerraStar subscription



SPEED SENSOR CONTROLS & ACCESSORIES

GPS SPEED SENSOR

- Uses a GPS receiver to measure true ground speed, then delivers a frequency signal compatible with most systems
- Eliminates problems frequently found with radar speed sensors on wet surfaces, with moving crops, or vehicle vibration
- Mounts inside cab, only a small patch antenna is mounted outside
- Status LED's show power, GPS lock and speed output conditions
- Wide range of adapter cables available for multiple systems
- Speed range 5-80+ mph / 1-130+ kmh



Mid-Tech Controls (4 PIN AMP Connector)
Part No. 90-02371Price: \$780.44

TeeJet Controls. Part No. 90-02386Price: \$780.44

Raven Controls. Part No. 90-02404Price: \$780.44

DICKEY-JOHN RADAR GUN

Measures true ground speed under actual field conditions.

Part No. RVS2Price: \$1,354.82



DICKEY-JOHN RADAR III

World-class accuracy in a ground speed sensor.

Part No. RVS3Price: \$1,139.67



Description	Part No.	Price
12' Radar Cable	115-0159-539	198.55
DJ Interface Cable	115-0159-526	204.27



844E SPRAYER CONTROL

- Large back-lit display shows all spraying information at a glance
- Color-coded tip selection for easy programming
- Communication port for PC and GPS interfacing
- Flow or pressure based regulation option
- Durable, weather-resistant aluminum housing

	Description	Part No.	Price
Step 1: Choose Console Core Kit (includes cabling, manual, mounting, etc., call for extension cable info)	844E 5-Switch Core Kit	90-50017	2447.76
	854 5-Switch Core Kit	90-02108	2785.55
Step 2: Choose Type of Speed Sensor (Y-Cables available for existing radar units)	GPS Speed Sensor (Dickey-john Connector)	90-02371	780.44
	GPS Speed Sensor Adapter Cable (TeeJet)	45-20042	158.75
	Proximity Speed Sensor	16-40004	154.78
	Wheel Speed Sensor Kit	16-40007	255.97
Step 3: Choose Flow Sensor (call for more options)	Rapid Check Flow Meters		
	1" Flanged Hose Barbs, PP, 2.5-60 GPM flow range*	90-50230	750.29
	1-1/2" Nylon, 9.2-184.9 GPM flow range*	57-10079	1189.31
	802 Flow Meter, 2", 3-130 GPM flow range*	57-10122	798.66
	Standard Flow Meters		
	1/2" Nylon, 0.79-15.8 GPM flow range*	57-10080	915.47
	3/4" Nylon, 1.9-37 GPM flow range*	57-10096	926.20
	1-1/2" Nylon, 9.2-184.9 GPM flow range*	57-10081	960.01
	2" Nylon Hose Barb, 19-400 GPM flow range*	57-10097	1372.32
Step 4: Choose Pressure Transducer (optional) (a transducer provides actual system pressure)	0-145 PSI	90-02476	471.06
	0-363 PSI	90-02482	467.60
Step 5: Choose Pressure Regulating Valve**	Regulating Ball Valve, 1" NPT	35-02099	378.71
	Butterfly Regulating Valve, 3/4" NPT	35-02116	378.71
	Low Flow Regulating Ball Valve, 1" NPT	35-02089	365.50

*Flow ranges shown are absolute maximum. We recommend sizing the flow meter in the middle of its recommended range for greatest accuracy. **For most applications, the Butterfly Regulating Valves are recommended as they give the most linear regulation at lower flows. For smaller sprayers (less than 14 GPM), such as turf, the Low Flow valve is recommended.

TEEJET 744A MANUAL SPRAYER

- Manual spray controller in a compact package
- Liquid filled 100 or 300 PSI pressure gauge
- Lighted pressure gauge for night use
- Heavy-duty switches with LED indicators
- Available in a variety of kit forms using solenoid or ball type control valves
- DirectoValve shutoff ball valves are ordered separately for 744A ball valve kits
- Kits include wiring harness



Console only with 100 PSI gauge

Part No. 75-50033Price: \$403.67



144P-3
Solenoid Shutoff Valve



144A-3
Solenoid Shutoff Valve



244C
Pressure Regulating
Butterfly Valve



344BPR
Pressure
Regulating Valve

MANUAL SPRAYER CONTROL KITS

Part No.	744A 3-Switch		Boom Valve Harness			Boom Valves		Regulating Valves			Price
	100 PSI	300 PSI	Solenoid	Ball Valve	None	144A-3	144P-3	244 Butterfly	3/4" BPR Valve	3/4" BRL Valve	
744A Kit Part No.	75-50033	75-50035	45-20090 45-20091 45-20100	45-05385 45-10072 45-10080		35-50023 AA144A-3	35-50027 AA144P-3	35-50029	35-02115	35-02087	
90-50149	X		X		X						CALL
90-02439	X			X	X						691.53
90-50151		X		X	X						711.11
90-02580	X			X	X					X	938.69
90-02579		X		X	X					X	938.69
90-50161	X		X		X			X			551.16
90-50163	X		X			X		X			883.56
90-50177	X		X				X	X			1192.78
90-50238	X			X	X				X		927.95
90-50237		X		X	X				X		927.95

TEEJET DYNAJET FLEX 7120 **NEW**

The new DynaJet Flex 7120 Nozzle Control System uses pulse width modulation (PWM) technology with solenoid operated tip shutoffs allowing the operator to control tip flow rate and droplet size independent of one another.

- Improve sprayer productivity by maintaining a constant application rate over a wider range of ground speeds
- Select and maintain a constant droplet size across a wider range of speeds and pressures without changing tips
- Minimize drift and maximize coverage by maintaining the optimum droplet size
- Vary the capacity of your spray tips from the cab



RADION 8140 AUTOMATIC SPRAYER CONTROL

Radion offers spraying advantages not found in other controllers. Simply set your target application rate and the VisiFlo display on the controller helps select the best TeeJet tip for the application. Once spraying begins, the display shows application rate, volume, pressure, speed, and area covered. Radion's built-in planning tool automatically displays the available speed range for the target rate and spray tips that have been selected.

- 4.3" color touch screen
- Built-in Droplet Size Monitor
- Uses TeeJet 800 Series cables for quick hookup
- Available with 5 or 9 boom section switches plus master shutoff
- Programmed with TeeJet's nozzle database for easy tip selection
- Communication port for connection to external variable rate controls
- Connects to TeeJet Matrix® consoles



Description	Part No.	Price
Kit, 80PP flow meter, hose barbs with 1" hose barbs, 2.5-60 GPM	90-50232	750.29
802 flow meter, 75 series flange	57-10122	798.66
Kit, Radion 8140-5 console, ram mount w/o suction cup, user guide	90-50259	3505.40
Kit, Radion 8140-5 with 17' main harness	90-50260	4077.76
Console, Radion 8140 with 5 boom section switches	75-50064	3206.53
Console, Radion 8140 with 9 boom section switches	75-50066	3561.89
10" extension cable	45-20239	524.45
Harness, main extension	45-20237	353.73
Cable, direct wiring, 14', 5-section	45-20066	661.20
Cable, power, 12'	45-20009	176.05
Cable, Radion in-cab speed adapter	45-05904	134.50
Regulating ball valve, 1" NPT	35-02099	378.50
Proximity speed sensor	16-40004	154.78
Kit, GPS speed sensor for Radion console	90-02868	780.44
Kit, pressure sensor 0-145 PSI	90-02476	471.06

TRANSPREAD/DOUBLE DUTY COMPUTER SYSTEM

Specially manufactured by Raven for GVM. Controls and displays rate per acre, conveyor speed, controls area, total area, field volume, and total volume. Ability to program different product densities, increase and decrease your rate on the go and program a self test speed. Controls the on and off of the hydraulic driven drag belt. Monitors percentages of the conveyor and spinner hydraulic flow control valve. Manual override capability. Radar gun sold separately.

The Raven SCS 210 dry is a two-module PWM automatic controller for the drag and spinner control.



Description	Part No.	Price
Console TranSpread GPS	063-0171-210	2749.09
Granular flow cable	115-0159-675	519.27
Gear tooth sensor	063-0159-981	154.64

DM AGCAM

The DM AgCam is easy to install, a single power input adaptor powers the entire system. Mount your cameras and monitor, hook up your cables and power up. No permanent installation is required. The DM AgCam display system is a 7 or 9 inch color monitor that comes equipped with a built in TV Tuner.

- 100% waterproof housing
- Exclusive auto shading lens
- Automatic infrared illuminators
- 25 lb magnet standard, 65 lb optional
- Low profile adjustable mounting bracket
- Stainless steel hex head screws



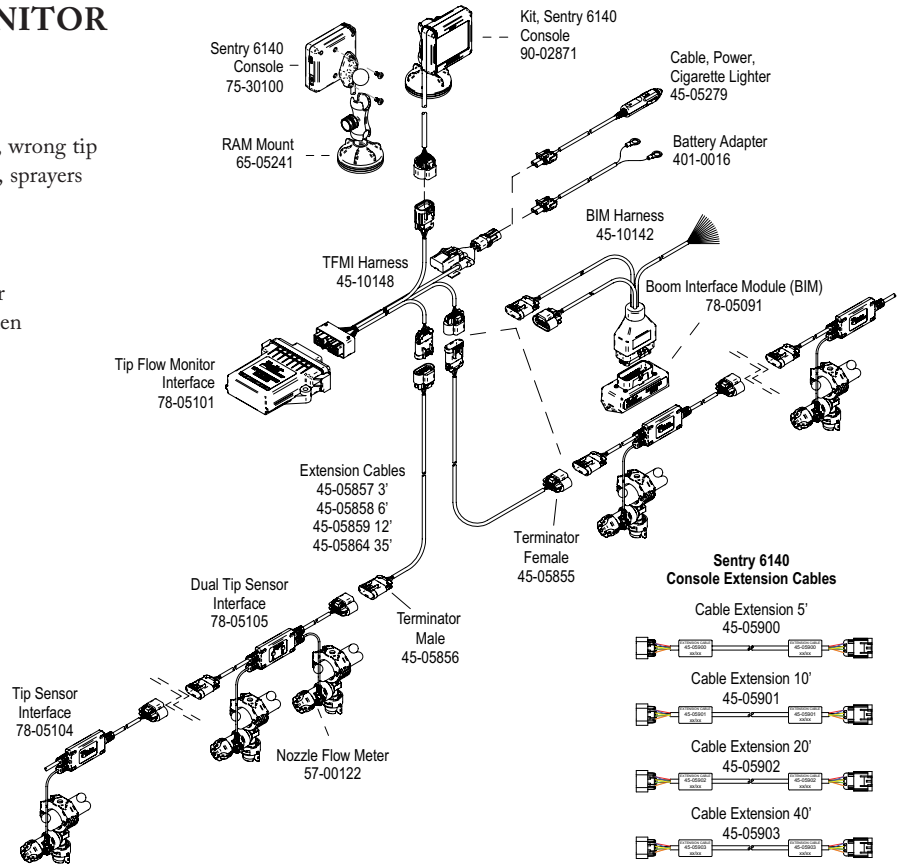
Each AgCam Kit includes a 20 and 60 inch cable. Silicone jacketed cables are flexible, waterproof, oil resistant, video ready, and shielded. The terminations are rubber sealed 5 pin connectors with a 1/4 twist lock.



Description	Part No.
Camera(s) w/ magnetic & hard mount	DMAC-C1
7" or 9" monitor w/ stand & remote	DMAC-7M or 9M
60' & 20' cables w/ watertight connectors	DMAC-EC20 & DMAC-EC60
6 pieces adhesive cable clips	
External A/V adaptor	
12V power adaptor	
1500mA A/C power adaptor	

SENTRY 6140 TIP FLOW MONITOR

- Individual sensors monitor flow of each nozzle
- Flow sensors connected to a dedicated CANbus
- Flow is compared to average of all active nozzles
- Alarms indicate plugged nozzles, broken fittings, wrong tip
- Liquid fertilizer applicators, planters and seeders, sprayers
- LED at each position for easy troubleshooting
- FM rated @ 0.15-2.5 GPM
- Works with any rate controller
- Includes console, interface, monitor, LED sensor
- Low and high pressure alarms alert operator when system pressure deviates from operator set limits



REDBALL SPRAY MONITOR

Redball Spray Monitor is a simple gauge that allows you to visually monitor proper flow rate of your liquid fertilizer and herbicide applications. It shows immediately if a nozzle becomes plugged as little as 10% and it tells you, at a glance, any variation in your application rate.

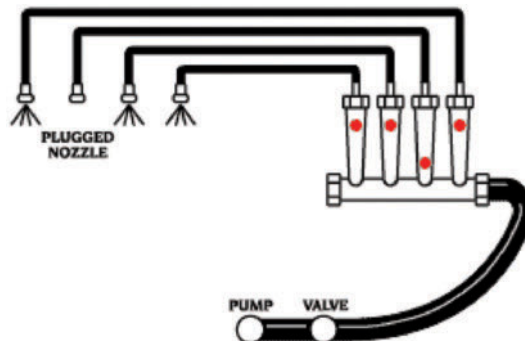
Redball Spray Monitor has no mechanical or electronic parts that could malfunction. They are made of a high-impact plastic, unaffected by chemical corrosion. Four row units can be mounted together for all applications. Redball Spray Monitor will do the job accurately and inexpensively.

- Rugged, reliable design
- Easy to install and use
- Detection of plugged nozzles
- Detection of worn or damaged tip
- Detection of leaks in hoses and connections
- Increase yields by proper application



Description	Part No.	Price
Spray monitor, manifold assembly 1/4"	3376-0001	167.58
Spray monitor, manifold assembly 3/8"	3376-0002	167.58
Spray monitor, manifold assembly 1/2"	3376-0008	167.58
Spray monitor, 4 column assembly 3/8"*	3376-0004	178.18
Spray monitor, 4 column assembly 1/2"*	3376-0005	178.18
Spray monitor, 2 column assembly 3/8"*	3376-0006	116.67
Spray monitor, 2 column assembly 1/2"*	3376-0007	116.67

*For use with squeeze pump.



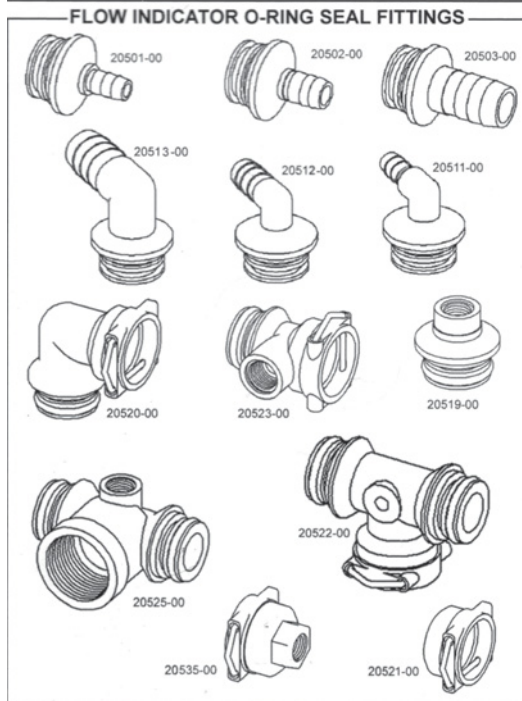
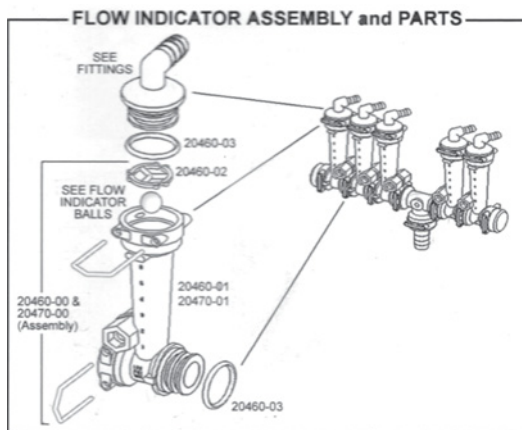
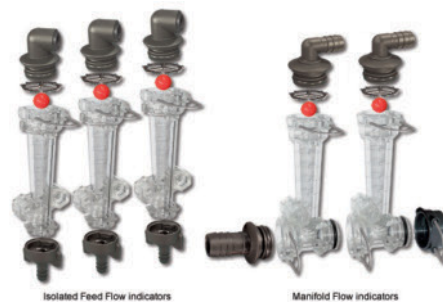
APPLICATION CONTROL

FLOW VIEW BALL FLOW INDICATORS

- Easy to see, visual indicator of liquid flow, if one of the “float balls” is lower than the others, there is a blockage
- Individual columns clip together so you can gang as many or as few columns as you need
- Monitor up to three spray tips per column
- Range of “float balls” lets you match to your flow rate
- A wide range of metering orifices are available that can be inserted to control flows ranging from 0.004 - 8.0 US GPM
- 3/8, 1/2 & 3/4" inlet and/or outlet fittings
- 100 PSI maximum operating pressure
- UV protected material stays clear

FLOW INDICATOR SYSTEM COMPONENTS

Description	Part No.
Orifice insert assembly-0.104" diameter orifice	1104-00
Flow indicator assembly with Buna-N O-ring	20460-00
Flow indicator body	20460-01
Ball retainer	20460-02
O-ring - Buna N - #212	20460-03
Lock U-Clip, 302 SS	20460-04
Ball - Flow Indicator - 1/2" 302 SS (0.40 - 1.33 US gpm)	20460-05
Ball - Flow Indicator - red glass (0.31 - 0.72 US gpm)	20460-06
Ball - Flow Indicator - red celcon (0.09 - 0.30 US gpm)	20460-07
Ball - Flow Indicator - green polyprop. (0.05 - 0.18 US gpm)	20460-08
Ball - Flow Indicator - black polyprop. (0.03 - 0.09 US gpm)	20460-09
Ball - Flow Indicator - 7/16" 302 SS (1.00 - 2.70 US gpm)	20460-10
Flow Indicator assembly with Viton O-ring	20460-V0
Fitting assembly - O-ring seal (ORS) x hose shank - straight - 3/8"	20501-00
Fitting assembly - Viton ORS x hose shank - straight - 3/8"	20501-V0
Fitting assembly - ORS x hose shank - straight - 1/2"	20502-00
Fitting assembly - Viton ORS x hose shank - straight - 1/2"	20502-V0
Fitting assembly - ORS x hose shank - straight - 3/4"	20503-00
Fitting assembly - Viton ORS x hose shank - straight - 3/4"	20503-V0
Fitting assembly - ORS x hose shank - 90° - 3/8"	20511-00
Fitting assembly - Viton ORS x hose shank - 90° - 3/8"	20511-V0
Fitting assembly - ORS x hose shank - 90° - 1/2"	20512-00
Fitting assembly - Viton ORS x hose shank - 90° - 1/2"	20512-V0
Fitting assembly - ORS x hose shank - 90° - 3/4"	20513-00
Fitting assembly - Viton ORS x hose shank - 90° - 3/4"	20513-V0
Fitting assembly - ORS male x 1/4" NPT Fe 90°	20518-00
Fitting assembly - Viton ORS male x 1/4" NPT Fe 90°	20518-V0
Fitting assembly - ORS male x 1/4" NPT Fe	20519-00
Fitting assembly - Viton ORS male x 1/4" NPT Fe	20519-V0
Fitting assembly - ORS male x ORS female - 90°	20520-00
Fitting assembly - Viton ORS male x ORS female - 90°	20520-V0
Cap assembly - ORS	20521-00
Fitting assembly - ORS male x ORS male x ORS female - Tee	20522-00
Fitting assembly - Viton ORS male x Viton ORS female x ORS female - Tee	20522-V0
Fitting assembly - ORS male x ORS female x 3/8" NPT Fe - Isolator Tee	20523-00
Fitting assembly - Viton ORS male x Viton ORS female x 3/8" NPT Fe - Isolator Tee	20523-V0
Fitting assembly - ORS male x ORS female x 3/8" NPT Fe - Tee	20524-00
Fitting assembly - Viton ORS male x Viton ORS female x 3/8" NPT Fe - Tee	20524-V0
Fitting assembly - ORS male x ORS male x 1" NPT Fe - Tee	20525-00
Fitting assembly - Viton ORS male x Viton ORS male x 1" NPT Fe - Tee	20525-V0
Orifice insert assembly - blank with seal	21000-00
Orifice insert - blank	21000-01
Orifice insert assembly - blank with Viton seal	21000-V0
Orifice insert assembly - 0.025" diameter orifice	21025-00
Orifice insert assembly - 0.025" diameter orifice with seal	21025-01
Orifice insert assembly - 0.025" diameter orifice with Viton seal	21025-V0
Orifice insert assembly - 0.055" diameter orifice	21055-00
Orifice insert assembly - 0.055" diameter orifice with seal	21055-01
Orifice insert assembly - 0.055" diameter orifice with Viton seal	21055-V0
Orifice insert assembly - 0.055" diameter orifice	21070-00
Orifice insert assembly - 0.055" diameter orifice with seal	21070-01
Orifice insert assembly - 0.055" diameter orifice with Viton seal	21070-V0
Orifice insert assembly - 0.104" diameter orifice with seal	21104-01
Orifice insert assembly - 0.104" diameter orifice with Viton seal	21104-V0
Orifice insert assembly - 0.250" diameter orifice	21250-00
Orifice Insert assembly - 0.250" diameter orifice with seal	21250-01
Orifice Insert assembly - 0.250" diameter orifice with Viton seal	21250-V0



SNOW & ICE APPLICATION CONTROLS

MISCO DIGITAL REFRACTOMETER

The Misco Digital Refractometer provides increased accuracy and efficiency when measuring the percent saturation and freeze point of sodium chloride salt-brine solutions. A quick, easy, and accurate method for measurement, the Misco Refractometer eliminates sources of error. To use, just place one or two drops on the measuring surface, press a button, and instantly receive a temperature-compensated readout on the LCD display. The readout is complete with the unit of measure and freeze point of the brine, at the concentration level recorded.

This device eliminates the need for conversion tables, graphs, or charts by allowing the user to read in the unit of measure; percent by weight, percent by volume, parts per thousand, grams per Liter, °SAL, specific gravity, etc. There are also special NIST traceable calibration fluids available if required by your quality control policy.

- Calibrated or tested with a drop of water
- Requires a small sample volume; just one or two drops
- Automatically temperature compensated
- Easy to clean and ready to use in an instant
- Fast and accurate
- No tables, graphs or charts required



RAVEN DE-ICING CONTROLS

Raven offers an excellent line of de-icing control systems to improve the accuracy and uniformity of liquid and granular chemical applications in inclement weather. All control consoles mount inside the vehicle for easy operation and convenient monitoring

DCS 300 CONTROL SYSTEM

- Use on existing spreader systems
- Monitor displays: total granular applied, day liquid volume applied, total liquid volume applied and liquid left in tank
- Zero speed key



DCS 400 CONTROL SYSTEM

- Ice control on roadways
- Dust control on roadways, road construction, race tracks
- Airport ice control
- "Blast" button option for higher application rate when needed
- Accurate control over a wide range of application rates

MICRO-TRAK ROADMASTER

Simple, accurate application control. The RoadMaster is an automatic control system that can help you operate more cost-effectively by providing the information you need to maintain proper application rates of liquid de-icer and anti-icing chemicals.

The RoadMaster offers four operating modes for lane, agricultural, dust control, and turf applications. The RoadMaster provides a complete picture of critical spraying functions and an accurate record of work performed. Total gallons, feet and lane mile counters can be independently reset without affecting other stored totals.

- Push-button controls for on-the-go rate adjustment and selection of automatic or manual operation
- Out-of-range warning light, plus status indicators for up to three boom sections
- Heavy-duty rotary switch for quick function selections
- Heavy-duty, weather resistant console and weatherproof cable connectors
- Precise rate control
- Compensates for ground speed changes
- Compensates for change in applications widths
- Real time clock with battery back-up
- Zero speed shutoff in automatic mode
- Works with solenoid or 3-wire ball valves
- Vehicle ID settings for full documentation of work performed



TEEJET 854 SPRAYER CONTROL

This innovative product combines the simple operation and programming of the proven TeeJet line with features not previously available until now in spray control systems.

- Rugged construction, sealed switches, and non-volatile memory
- Single connection wiring system provides clutter free durability
- Front panel has clear instructions for easy operation
- Saves summary reports on up to 10 jobs
- Auto-Master can be set to automatically switch boom sections on and off at predetermined speeds
- Auto tank fill allows the console to control tank filling operations
- Dual boom capability for a wide range of speed and application rates
- Smart Sensing automatically selects between pressure or flow sensors, choosing the best sensor for each application
- Communications port for printer, PC, and GPS connections



ROADWATCH SS

RoadWatch SS features the most technologically advanced early warning system of road and air temperatures in the industry. Their state-of-the-art system continuously monitors and displays air and road temperatures to a digital monitor mounted on the instrument panel. RoadWatch SS is designed to give drivers advance notice of potential road freezing before problems arise.

- Sensor heads can be replaced outside the vehicle without re-routing the cable in only 5 minutes
- Improved air sensor responds much more quickly to temperature changes than our previous version
- Extension cables available in 4, 12, & 16' take the overall length to 60 usable feet
- Flexible cabling for routing into tight spaces





MODEL 8650

Round construction with full length stainless steel sills, 14 gauge shell and 12 gauge heads.

Size range: 1000-1600 gal.



MODEL 8660

Round construction with full length stainless steel sills, 12 gauge shell and heads.

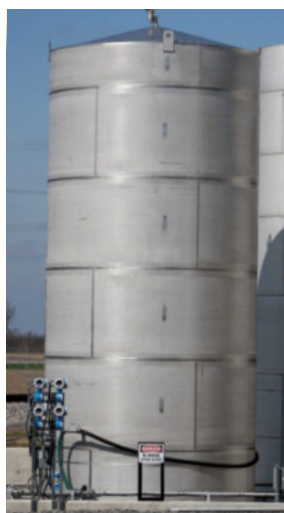
Size range: 1600-3300 gal.



MODEL 8775

Elliptical, double conical shape for low profile and complete drainage. Available in one, two or three compartments.

Size range: 1600, 2000, 2400, 2800 and 3200 gal.



MODEL 8690

Vertical storage tank, cone top and dished bottom. Standard with three stainless steel pipe legs with stainless steel feet for stability (pictured right).

Size range: 1000-6000 gal.



MODEL 8691

Vertical storage tank (pictured left).

Size: 20,000 gal.

MILD STEEL LIQUID STORAGE TANKS



The advanced design of these popular storage tanks makes them extremely rugged and durable. Heavy steel construction prevents ruptures and spills, even under maximum loads. For extra protection, the exterior is shot blasted and primed; interior shot blasting and epoxy coating are also available.

All mild steel tanks are 1/4 inch steel, welded inside and out with a 5/16 inch dished bottom and a 24 inch bolted manway.

Capacity	Diameter	Height	Bottom Thickness	Wall & Top Thickness
10,000	126"	15' 7"	5/16"	1/4"
15,000	126"	24'	5/16"	1/4"
20,000	126"	31'	5/16"	1/4"
25,000	143"	30'	5/16"	1/4"
30,000	143"	36'	5/16"	1/4"
42,000	150"	45'	5/16"	1/4"



ENVIRO-COAT INTERIOR TANK COATING PROTECTION

The easiest to use and least expensive way to protect tanks from rust and corrosion.

- Extends the life of new and older tanks
- Floats on top of fertilizer
- Not a paint or fuel oil
- Reduces rust flakes
- Forms protective coating on inside of tanks
- Environmentally safe—will not harm crops

INDEPENDENT AG EQUIPMENT NURSE TRAILERS



All tanks on Independent Ag Equipment Nurse Trailers have a 3 or 5 year non-prorated Norwesco warranty. All trailers have an extended double plated tongue, adjustable clevis, safety chains and are powder coated for years of rust resistant use.

AVAILABLE OPTIONS

- Fenders
- Hose stand
- Electric brakes
- Surge brakes
- Sparge tube
- 4 ft platform
- Inductor unit
- High speed tires and axles
- Light kits
- Ball coupler

NORWESCO LIQUID STORAGE TANKS PLEASE NOTE: Tank availability may vary according to manufacturing location. Tank dimensions and capacities may vary slightly and are subject to change without notice.

SMALL 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.

Gallon Capacity	Diameter	Overall Height	Fill Opening	Outlet/Drain Specification	Premium Weight Part No. (White)	Heavy Weight Part No. (Blue)
22 [⊠]	20"	20"	8"	3/4"	43608	—
25 [⊠]	18"	29"	5"	3/4"	41867	—
50 [⊠]	18"	53"	5"	3/4"	41865	—
65 [⊠]	23"	43"	8"	1 1/4"	45192	—
75 [⊠]	23"	49"	8"	1 1/4"	41863	—
100 [⊠]	28"	43"	8"	1 1/4"	41861	—
105 [⊠]	23"	63"	8"	2"	40803	—
120	38"	31"	5"	1 1/4"	40318	—
130	32"	46"	8"	1 1/4"	44102	—
150	30"	56"	8"	1 1/4"	41859	—
165	31"	56"	16"	2"	40281	—
200	30"	72"	8"	2"	41856	—
210	32"	67"	16"	2"	47401	—
220	42"	44"	5"	1 1/4"	40320	—
250	30"	89"	8"	2"	41854	—
300	35"	79"	16"	2"	40213	—
305	46"	50"	16"	2"	40302	—
310	32"	94"	16"	2"	43625	—
500	48"	73"	16"	2"	40148	40150
550	67"	44"	16"	2"	40023	—
750	48"	103"	16"	2"	40606	—
850	48"	118"	16"	2"	42214	—
1000	64"	80"	16"	2"	40152	40154
1000	72"	66"	16"	2"	44111	—
1100	87"	53"	16"	2"	40070	40081
1100 G	87"	53"	16"	2"	42591	42593
1500	64"	116"	16"	2"	40144	40146
1550	87"	67"	16"	2"	40235	40236
1550 G	87"	67"	16"	2"	42595	42597
1700	87"	74"	16"	2"	40010	40012

[⊠]May ship UPS oversize G=Gusset top

FULLY DRAINABLE TANKS

1010 and 1315 Gallon

- Extra heavy duty 6 in. channel iron frame (1010)
- Extra heavy duty 6 in. tubular iron frame (1315)
- Heavy duty 6 in. cross member tank supports
- Back of the frame is extended 2 in. to act as a bumper
- Extra heavy duty high speed cambered axles
- 8,000 lb slipper spring suspension per axle
- Pump mounting inside frame for greater pump protection
- Heavy duty swivel jack
- Step platforms
- 11L x 15 tires (1010) or 12.5L x 15 tires (1315)

1610 Gallon

- Extra heavy duty 8 in. tubular iron frame
- Heavy duty cross member tank supports
- 18,000 lb suspension with slipper springs
- 7,000 lb top wind drop leg jack
- 11R x 22.5 truck tires
- 5 year frame warranty

FLAT BOTTOM TANKS

1025 Gallon Horizontal

- Extra heavy duty 6 in. channel iron frame
- Back of frame is extended 2 in. to act as a bumper
- Heavy duty 6 in. cross member tank supports
- Extra heavy duty high speed cambered axles
- 7,000 lb slipper spring suspension per axle
- Pump mounting inside tongue for greater protection
- Heavy duty swivel jack
- Step platforms
- 11L x 15 tires
- 15 x 10 wheels

1635 Gallon Elliptical

- Extra heavy duty 8 in. tube frame
- 6 in. cross member tank supports
- 18,000 or 20,000 lb suspension with slipper springs
- 7,000 lb heavy duty tongue jack
- 11R x 22.5 truck tires



Great for Diesel Exhaust Fluid Storage.

LARGE VERTICAL STORAGE TANKS

Gallon Capacity	Diameter	Overall Height	Fill Opening	Outlet/Drain Specification	Premium Weight Part No. (White)	Heavy Weight Part No. (Blue)
2000	64"	152"	16"	2"	47109	47564
2000	90"	84"	16"	2"	44125	44127
2100	87"	89"	16"	2"	40178	40241
2100	102"	69"	16"	2"	41399	—
2500	95"	91"	16"	2"	40051	40052
2500	102"	79"	22"	2"	42382	42384
3000	91"	119"	16"	2"	45081	—
3000	95"	109"	16"	2"	40754	40755
3000	95"	109"	16"	3"/2"	43092	43093
3000	102"	93"	16"	2"	45246	42380
3000	102"	93"	22"	2"	43136	43138
4000	102"	125"	16"	3"/2"	40312	—
4200	102"	131"	16"	3"/2"	41403	—
5000	102"	152"	16"	3"/2"	40164	40166
5500	138"	92"	16"	3"/2"	45086	—
6000	102"	182"	16"	3"/2"	40226	40233
6100	119"	140"	16"	3"/2"	40659	40661
6500	119"	150"	16"	3"/2"	40224	40232
6500	120"	147"	16"	3"/2"	42315	42317
7800	119"	176"	16"	3"/2"	40663	40665
8400	119"	188"	16"	3"/2"	42060	42062
9000	141"	146"	16"	3"/2"	40543	40231
9000	141"	146"	22"	3"/2"	43618	43620
10,000	141"	160"	22"	3"/2"	43128	43130
NEW 11,000	144"	167"	22"	3"*	44009	44011
12,000	141"	193"	22"	3"*	43919	43921
NEW 13,000	144"	198"	22"	3"*	44015	44017
15,000	141"	244"	22"	3"*	41334	41336
15,500	165"	186"	22"	3"*	43821	43823
20,000	165"	242"	22"	3"‡	43825	43827

*316 stainless steel bolted fitting ‡316 stainless steel con-tech bolted fitting



HORIZONTAL LEG TANK

Used primarily for transport and nursing applications, Norwesco's leg tanks feature molded-in legs that act as "baffles" to reduce sloshing. Please refer to page 53 for support bands.



Gallon Capacity	Diameter	Overall Height	Length	Fill Opening	Outlet/Drain Specification	Premium Weight Part No. (White)	Heavy Weight Part No. (Blue)
35 □	20"	23"	29"	5"	3/4"	45223	—
55 □	23"	26"	33"	5"	3/4"	41873	—
65 □	23"	26"	43"	5"	3/4"	45191	—
125	32"	35"	41"	8"	2"	40298	—
225	38"	41"	49"	8"	2"	40299	—
325	38"	43"	68"	16"	2"	40217	—
330	38"	40"	74"	5"	2"	42923	—
425	49"	54"	60"	16"	2"	42016	—
525 Δ	49"	54"	71"	16"	2"	40181	40193
725 *	49"	54"	101"	16"	2"	40180	40194
925 *	62"	65"	80"	16"	2"	45209	—
925 w/ Sump*	62"	69"	80"	16"	2"	45210	—
1025 *	49"	54"	139"	16"	2"	40089	40131
1325 *	66"	70"	99"	16"	2"	41875	41877
1625 *	63"	68"	139"	16"	2"	40026	40133
1800 * 2CPT	62"	68"	146"	16"	2"	42990	—
1800 * 2CPT w/ Sump	62"	72"	146"	16"	2"	42992	—
3725 *	92"	97"	145"	16"	3/2"	44047	44049
5025 *	92"	96"	190"	16***	3/2"	41879	41881
NEW 5025 * Black	92"	96"	190"	16***	3/2"	—	42602
NEW 6025 *	99"	106"	193"	16***	3/2"	44314	44316

*Require full length support and bands. **16" binged lid □May ship UPS oversize ΔRequires full length support

ELLIPTICAL LEG TANKS

This elliptical tank style is designed to provide the greatest capacity with the lowest center of gravity, making it the best design available for transporting large volumes. Norwesco elliptical tanks feature molded-in legs that act as "baffles" to reduce sloshing and provide increased stability during transport.

All Norwesco elliptical leg tanks require full length bottom support as well as support bands. Please refer to page 53 for support bands.



Gallon Capacity	Diameter	Overall Height	Length	Fill Opening	Outlet/Drain Specification	Premium Weight Part No. (White)	Heavy Weight Part No. (Blue)
335	48"	33"	71"	16"	2"	42339	—
535	57"	39"	80"	16"	2"	42353	—
1035	79"	54"	89"	16"	2"	40191	40192
1235	66"	53"	128"	16"	2"	40239	—
1335	66"	55"	126"	16"	2"	42927	42929
1600 Flat Bottom	80"	53"	126"	16"	2"	43143	43167
1635 Leg	71"	58"	142"	16"	2"	40387	40388
1635 Black	71"	58"	142"	16"	2"	40602	41890
2035 Leg	84"	56"	142"	16"	2"	40618	40623
NEW 2035 Black	84"	56"	142"	16"	2"	40621	40775
2635 Leg	90"	72"	140"	16"	3/2"	40547	40283
NEW 2635 Black	90"	72"	140"	16"	3/2"	—	41294
3135 Leg	88"	80"	150"	16"	3/2"	40686	40688
3135 Black	88"	80"	150"	16"	3/2"	—	41417
4035 Leg	92"	75"	192"	16***	3/2"	41267	41269
NEW 4035 Black	92"	75"	192"	16***	3/2"	—	42011

**16" binged lid



DRAINABLE LEG TANKS

When complete drainage is necessary, these are the tanks of choice. They are designed primarily for use on fertilizer and chemical nurse trailers. All Norwesco drainable tanks require full length bottom support as well as support bands. Support bands are listed below.

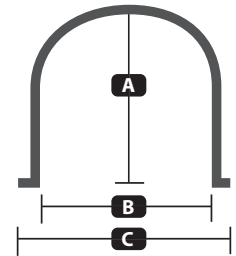


Gallon Capacity	Diameter	Overall Height	Length	Fill Opening	Outlet/Drain Specification	No. of Bands	Premium Weight Part No. (White)	Heavy Weight Part No. (Blue)
710 Horizontal	47"	57"	104"	16"	2"	3 required	40655	40657
1010 Horizontal	47"	58"	140"	16"	2"	4 required	40393	40395
1310 Horizontal	66"	75"	99"	16"	—	3 required	41871	41872
1315 Elliptical	66"	60"	126"	16"	—	3 required	42925	42926
1610 Elliptical	69"	63"	140"	16"	—	4 required	40806	40808
2010 Elliptical	69"	74"	140"	16"	—	4 required	43651	43652
2610 Elliptical	90"	79"	140"	16"*	—	4 required	41382	41383
3210 Elliptical	92"	75"	178"	16"*	—	4 required	40822	40824

**16" hinged lid.

STEEL SUPPORTS & ACCESSORIES FOR LEG TANKS

Norwesco bands are custom fabricated to support the Norwesco tanks and are galvanized or powder coated for added corrosion protection. Whether using the tank in a stationary position or for transport, bands are necessary to ensure that the tank retains its shape and integrity.



HORIZONTAL LEG TANK BANDS

Tank Size (Gallon)	A	B	C	No. of Bands	Part No.
35 ^α	18-1/2"	18-1/2"	21-3/8"	2 optional	60520
55 ^α	22"	22"	26-1/2"	2 optional	61745
65 ^α	22"	22"	26-1/2"	2 optional	61745
125 ^α	30-3/4"	30-1/2"	35"	2 optional	61744
225 ^α	36-1/2"	36"	42"	2 optional	60478
325 ^α	36-1/2"	36"	42"	2 optional	60478
330 ^α	36-1/2"	36"	42"	2 optional	60478
425	47-3/4"	46-1/4"	52-1/4"	2 optional	60057
525	47-3/4"	46-1/4"	52-1/4"	2 optional	60057
725	47-3/4"	46-1/4"	52-1/4"	3 required	60057
925	61"	60"	66"	2 required	62852
1025	47-3/4"	46-1/4"	52-1/4"	4 required	60057
1325	64"	64"	70"	3 required	63282
1625	61"	60-3/4"	67-1/4"	4 required	60079
1800 [∞]	61"	60"	66"	4 required	62852
3725	89-3/4"	89-1/2"	93-7/8"	5 required	63284
5025	89-3/4"	89-1/2"	93-7/8"	5 required	63284
NEW 6025	97"	97"	102"	5 required	64085

^α May ship UPS [∞] Tank requires one connecting bar, part no. 63653

ELLIPTICAL LEG TANK BANDS

Tank Size (Gallon)	A	B	C	No. of Bands	Part No.
335	29"	46-1/2"	52-1/2"	2 required	63546
535	35"	55-1/2"	61-1/2"	2 required	63547
1035	47-1/4"	77"	83"	3 required	60325
1235	47-3/4"	64-3/4"	70-3/4"	4 required	60477
1335	53"	65"	71"	3 required	63642
1635	51"	68"	74"	4 required	60586
2035	51-1/4"	81-1/2"	86-3/4"	4 required	63840
2635	65-1/4"	87-1/2"	94"	4 required	60353
NEW 2635**	63"	87-1/2"	89-1/2"	4 required	63944
3135	75-1/4"	85-1/2"	92"	4 required	62097
3135	74-1/4"	85-1/2"	92"	4 required	63620
4035	70-1/4"	89-1/2"	96"	4 required	62832

² short and 2 long bands are required for 1 tank. ^{**}J-Bolt Style

DRAINABLE LEG TANK BANDS

Tank Size (Gallon)	A	B	C	No. of Bands	Part No.
710 ^α	46-1/4"	45"	51"	3 required	60584 short
1010 ^{α*}	46-1/4"	45"	51"	2 required	60584 short
1010 ^{α*}	48"	45"	51"	2 required	60585 long
1310	64"	64"	70"	3 required	63282
1315	49-3/4"	63-1/2"	69-1/2"	3 required	63642
1610	49"	66"	72"	4 required	62434
2010	59"	66"	72"	4 required	63846
2610*	58"	87-1/2"	91-7/8"	2 required	63044 short
2610*	62"	87-1/2"	91-7/8"	2 required	63045 long
3210*	56"	89-1/2"	92-3/4"	2 required	62347 short
3210*	60"	89-1/2"	92-3/4"	2 required	62348 long

² short and 2 long bands are required for 1 tank. ^α May ship UPS oversize.

LADDERS

Tank Size (Gallon)	Description	Part No.
2635 & 3135	Ladder (optional)	60354
2610 & 3210	Ladder (optional)	63047
4035	Ladder (optional)	63033
3135	Adaptor kit for ladder*	62301

*This kit is required when using ladder on the 3135 gal. tank.

PICKUP TRUCK 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-sized models. Depending on which way the tank is turned, the bottom width can be either 39 or 48 inches.



Gallon Capacity	Diameter	Overall Height	Length	Fill Opening	Outlet/Drain Specification	Premium Weight Part No. (White)
210	60"/51"	48"/39"	29"	8"	2"	40300
325	62"	49"	33"	8"	2"	40160
425	65"	49"	39"	8"	2"	40102

FLAT BOTTOM UTILITY TANKS

The Flat Bottom Utility tank can be used for many applications. It easily fits into the bed of a pickup truck. The tank may be used with or without bands.



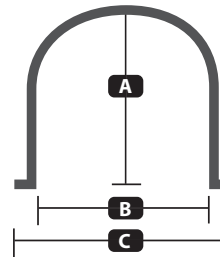
Gallon Capacity	Width	Overall Height	Length	Fill Opening	Outlet/Drain Specification	Premium Weight Part No. (White)
26 □	18"	20"	25"	8"	¾"	43835
45 □	18"	22"	38"	5"	1"	43837
50 □	19"	23"	38"	8"	1"	42341
52 □	24"	15"	43"	5" *	1"	43839
68	27"	17"	42"	5" *	1"	43841
100 □	27"	29"	43"	8"	1"	42343
110 Low Profile	35"	18"	48"	5" *	1"	42349
150	36"	29"	48"	8"	1"	42345
200	36"	38"	48"	8"	1"	42347
NEW 300 Low Profile	56"	19"	95"	8"	—	44233

□ May ship UPS * 5" Hinged Lid

FLAT BOTTOM UTILITY TANK BANDS

Tank Size (Gallon)	A	B	C	No. of Bands	Part No.
50 □	19"	18-½"	23"	2 optional	63551
100 □	24"	25"	29-½"	2 optional	63552
150 □	24"	34-½"	39"	2 optional	63553
200 □	33"	34-½"	39"	2 optional	63554

□ May ship UPS oversize.



SMOOTH WALL 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.



Gallon Capacity	Width	Overall Height	Length	Fill Opening	Premium Weight Part No. (White)
30 □	19"	23"	25"	5"	41254
50 □	19"	22"	38"	8"	40664
100 □	30"	28"	38"	8"	40668
150	36"	28"	48"	8"	40669
200	36"	37"	48"	8"	41413
300	36"	37"	69"	16"	41381

□ May ship UPS oversize.



LOAF TANKS

Loaf tanks are designed for a variety of applications. Its rectangular shape allows for placement within pickup beds or it may be mounted on various equipment trailers for use as a mobile water supply. This line of tanks may also be used in a variety of stationary storage applications.



Gallon Capacity	Diameter	Overall Height	Fill Opening	Outlet/Drain Specification	Premium Weight Part No. (White)
50 [⊠]	27"	17"	41"	8"	43610
100 [⊠]	27"	30"	41"	8"	43611
200	36"	29"	48"	8"	43612
300	42"	30"	63"	8"	43613
500	48"	31"	92"	8"	43843

[⊠] May ship UPS oversize.

Skid not included with tank. See below for skids.

ELLIPTICAL TANKS

Designed for larger volume applicator needs, the Norwesco elliptical tanks feature a low profile design and a low center of gravity for excellent visibility in the field and increased stability when towed. A deep sump permits complete drainage and the tanks feature an 8 inch or 16 inch fill-opening.



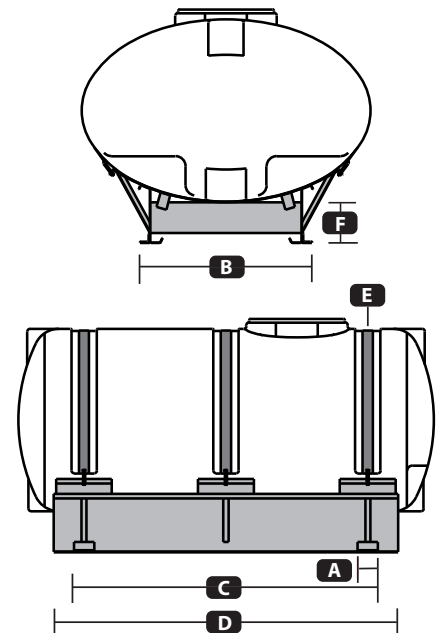
Gallon Capacity	Width	Overall Height Including Sump	Length	Sump Depth	Fill Opening	Outlet/Drain Specification	Premium Weight Part No. (White)
200	40"	30"	66"	¾"	8"	1-¼" & 1-¼"	41252
300	48"	36"	70"	3"	16"	1-¼" & 1-¼"	40327
500	57"	44"	82"	5"	16"	1-¼" & 1-¼"	40328
750	69"	48"	88"	3"	16"	2"	40329
1000	78"	55"	90"	3"	16"	2"	40330
1600*	78"	54"	138"	2-½"	16"	2"	47111

*Includes one stainless steel baffle.

ELLIPTICAL TANK SKIDS

Unit consists of a black skid and appropriate bands and hardware to support the elliptical tank. The skids come with a pre-cut hole designed to fit Norwesco sumps.

Tank Size (Gallon)	Tank Part No.	A	B	C	D	E	F	Part No.
200	41252	4"	24"	52"	57"	2" x 68"	8"	63015
300	40327	4"	34"	46-¼"	54-¼"	2" x 76"	8"	63016
500	40328	4"	34"	60"	68"	2" x 94"	8"	63018
750	40329	4"	38"	69-½"	78"	2" x 112"	8"	60371
1000	40330	4"	46"	60"	72"	2" x 130"	8"	60372



NORWESCO APPLICATOR, INDUCTOR, & SPOT SPRAYER TANKS

PLEASE NOTE: Tank availability may vary according to manufacturing location. Tank dimensions and capacities may vary slightly and are subject to change without notice.

All Norwesco applicator tanks feature a lid which threads directly into the fill-opening of the tank to prevent the sloshing or leaking of tank contents during transport or application. Inductor tanks are suitable for mixing chemicals when filling a tank. Spot sprayer tanks feature threaded inserts on the bottom of the tank for mounting purposes, on one side for wand/gun placement and on the top for a 12 volt pump.

Stands and applicator saddle assemblies are sold separately. See page 57 for details.



APPLICATOR TANKS

Gallon Capacity	Diameter	Overall Height	Length	Fill Opening	Outlet/Drain Specification	Premium Weight Part No. (White)
20 Δ	15"	18"	31"	5"	3/4"	61737
30 \square	23"	26"	21"	5"	3/4"	41799
55 \square	23"	27"	34"	5"	3/4"	45193
NEW 70 \square	23"	26"	44"	5"	3/4"	44237
85 \square	23"	26"	52"	5"	3/4"	45105
100 Δ	24"	28"	57"	8"	3/4"	60204
110 \square	30"	34"	41"	8"	1-1/4" & 1-1/4"	45053
150	30"	33"	58"	8"	1-1/4" & 1-1/4"	40648
150	32"	35"	46"	8"	1-1/4" & 1-1/4"	45117
200	32"	35"	62"	8"	1-1/4" & 1-1/4"	45059
200	38"	42"	47"	8"	1-1/4" & 1-1/4"	45061
300	38"	41"	68"	8"	1-1/4" & 1-1/4"	40135
400	42"	45"	74"	8"	1-1/4" & 1-1/4"	40137
500	48"	51"	75"	8"	1-1/4" & 1-1/4"	40274
150 Slim Line Δ	28"	41"	50"	8"	1-1/4" & 1-1/4"	40777
200 Slim Line Δ	24"	48"	61"	8"	1-1/4" & 1-1/4"	41305
200 Slim Line Δ	31"	46"	48"	8"	1-1/4" & 1-1/4"	40780

\square May ship UPS oversize. Δ Saddle not available for this tank.

INDUCTOR TANKS

Gallon Capacity	Diameter	Overall Height	Fill Opening	Outlet/Drain Specification	Premium Weight Part No. (White)
15 \square	19"	23"	8"	2"	60214
15 \square	24"	21"	16"	2"	42064
30 \square	24"	28"	16"	2"	42065
35 \square	23"	29"	8"	2"	45098
60 \square	31"	32"	16"	2"	62205
60	24"	42"	16"	2"	42066
80*	32"	37"	16"	2"	47190

\square May ship UPS oversize *Stand not available for 80 gal. tank.

TOTAL DRAIN TANKS (Square)

Gallon Capacity	Diameter	Overall Height	Length	Fill Opening	Outlet/Drain Specification	Premium Weight Part No. (White)
5 \square	11"	18"	11"	8"	1-1/4"	42321
10 \square	13"	21"	13"	8"	1-1/4"	42351
12 \square	14"	15"	18"	5"	3/4"	60521

\square May ship UPS dimensional weight.

SPOT SPRAYER TANKS

Gallon Capacity	Diameter	Overall Height	Length	Fill Opening	Outlet/Drain Specification	Premium Weight Part No. (White)
14 \square	14"	15"	31"	5"	—	45115
25 \square	18"	18"	36"	5"	—	62080

\square May ship UPS dimensional weight. \square May ship UPS oversize.

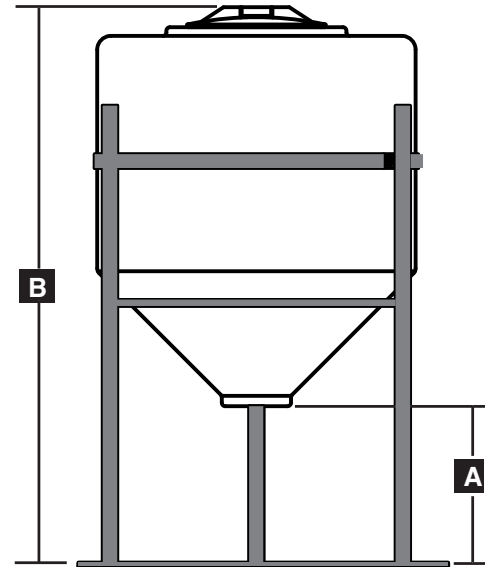
NORWESCO STANDS & SADDLE ASSEMBLIES

Designed to provide necessary support for the applicator/inductor tank during use. Norwesco saddles include polyester straps, buckles and bolts to secure tanks, and inductor stands are supplied with all necessary hardware.

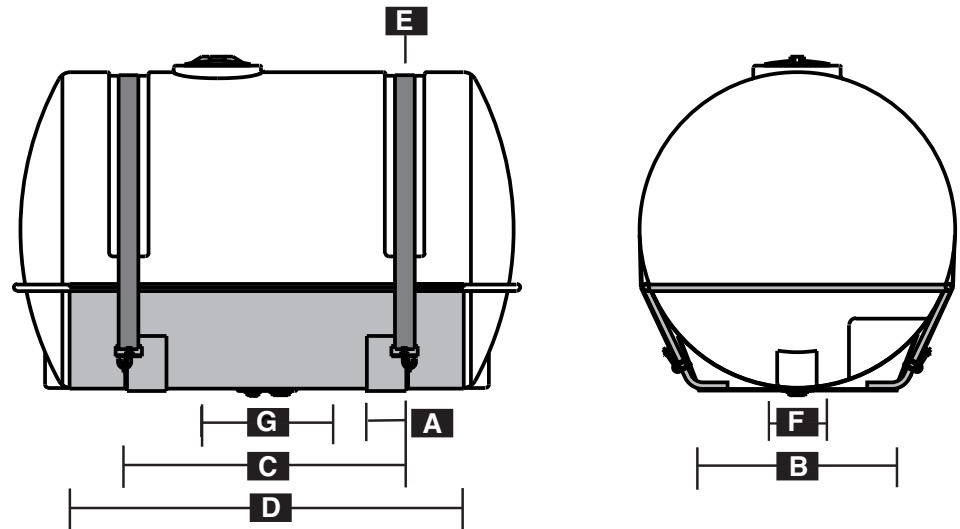
INDUCTOR TANK STANDS *(See dimensional drawing to right.)*

Tank Part No.	Tank Size (Gallon)	A	B	Part No.
60214	15 x 19" □	15-½"	38"	60313
42064	15 x 24" □	13-½"	36"	63397
42065	30" □	13-½"	43"	63397
45098	35" □	15"	44"	65517
62205	60 x 31" □	14-½"	47"	62204
42066	60 x 24" □	13-¼"	56"	63397

□ May ship UPS oversize. Stand not available for 80 gal. tank.



Replacement Bands and Hardware Available. Call for Information.



APPLICATOR TANK SADDLE ASSEMBLIES *(See dimensional drawing above.)*

Tank Part No.	Tank Size (Gallon)	A	B	C	D	E	F	G	Part No.
41799	30□	3"	19"	13-½"	13-½"	2" x 54"	8"	7-¾"	60321
45193	55□	6"	18-½"	24"	24"	2" x 48"	—	12"	60303
45105	85□	6"	18-½"	24"	24"	2" x 48"	—	12"	60303
45053	110□	12"	23-¾"	28-¾"	34-¾"	2" x 72"	—	10-¾"	60315
40648	150-30"□	12"	23-¾"	28-¾"	34-¾"	2" x 72"	—	10-¾"	60315
45117	150-32"□	12"	23-¾"	28-¾"	34-¾"	2" x 72"	—	10-¾"	60315
45059	200-32"	6"	24-7/8"	36"	60"	2" x 96"	8"	13-¼"	63019
45061	200-38"	6"	24-¾"	34"	42"	2" x 96"	—	13-¼"	63020
40135	300-38"	6"	24-¾"	34"	60"	3" x 96"	8"	12"	63021
40137	400-42"	6"	30-½"	42-½"	60"	3" x 96"	8"	12"	63022
40274	500-48"	6"	30-½"	42-½"	60"	3" x 132"	8"	12"	63023

□ May ship UPS Dimensional weight.

BLACK OR DARK GREEN WATER TANKS

These water tanks are manufactured using resins that meet FDA specifications to ensure safe storage of potable water. The black or dark green color limits light penetration which reduces the growth of water-borne algae. These tanks are rated at 8 pounds per gallon, which means that they are for **WATER STORAGE ONLY!** They should not be used for chemicals, fertilizers or any other product. Where applicable, the tanks will carry the NSF approval.



Gallon Capacity	Diameter	Overall Height	Fill Opening	Bottom Fitting	Top Fitting	Part No. (Black)	Part No. (Dark Green)
120	38"	31"	5"	2"	1½"	43858	43860
165*	31"	56"	16"	2"	1½"	43864	43866
220	42"	44"	5"	2"	1½"	43870	43872
305	46"	50"	16"	2"	1½"	40702	40863
500	48"	73"	16"	2"	1½"	43101	43105
550	67"	44"	16"	2"	1½"	40703	40864
600	64"	50"	8"	2"	1½"	43800	43802
1000	64"	80"	16"	2"	1½"	40892	41686
1075	87"	57"	8"	2"	1½"	43804	43806
1100	87"	53"	16"	2"	1½"	40704	40865
1350	71"	88"	16"	2"	1½"	40860	40858
1500	95"	58"	16"	2"	1½"	42038	42037
1525	93"	62"	8"	2"	1½"	43808	43810
1550	87"	67"	16"	2"	1½"	40627	40866
2500	95"	91"	16"	2"	1½"	40631	40867
2500	102"	79"	22"	2"	1½"	42040	44133
2550	93"	95"	16"	2"	1½"	43812	43814
3000	95"	109"	16"	2"	1½"	40635	40868
3000	102"	93"	16"	2"	1½"	42042	42604
3000	102"	93"	22"	2"	1½"	43140	44135
5000	102"	152"	16"	2"	1½"	40641	40870
5000 Peanut Can	119"	112"	22"	2"	1½"	42044	42043
5000 Tuna Can	141"	86"	16"	2"	1½"	40943	43831
6500*	119"	150"	16"	2"	1½"	43876	43880
10,000*	141"	160"	22"	2"	—	43132	43179
11,000*	144"	167"	22"	2"	—	44013	44023

*Includes one bottom fitting only.

BELOW GROUND HOLDING TANKS

Below ground holding tanks are typically used for storage of water, both potable and non-potable. The tanks can also be used as large capacity sewage holding or septic tanks. The end ribs will accept fittings up to 4 inches in size. Each tank is manufactured with molded-in columns that provide excellent structural strength.



Gallon Capacity	Width	Overall Height	Length	Manhole Diameter	Part No.
2000	98"	53"	126"	20"	42559
2500	98"	53"	158"	20"	42119
2500	99"	51"	159"	20"	44079
2600	98"	51"	155"	20"	43770
2650*	98"	81"	155"	20"	43771

*Tank includes molded in manhole extension.

LOW PROFILE TANK—WATER ONLY

The low profile tanks may be used for water storage or transport. They are an excellent choice when height limitations are a factor and are the perfect height for putting under your cottage or cabin. Molded-in columns provide excellent structural strength for these tanks.



Gallon Capacity	Width	Overall Height	Length	Fill Opening	Manhole Diameter	Part No.
1250	81"	38"	130"	16"	2"	40756
1275	84"	36"	126"	16"	2"	43011
1500	81"	44"	130"	16"	2"	41392
1600	84"	42"	126"	16"	2"	43013
2400 Box	90"	53"	150"	16"	2"	40912
NEW 2500 Box	90"	53"	157"	16"	2"	44335



FREESTANDING TANKS

These tanks have been designed with residential and commercial applications in mind. The dimensions of the tanks allow them to fit through a conventional doorway. The design of these tanks allow them to be freestanding/self-supporting and eliminates the need for a steel frame.

Gallon Capacity	Width	Overall Height	Length	Fill Opening	Outlet/Drain Specification	Premium Weight Part No. (White)
250 Water Only	29"	40"	62"	16"	1-1/4"	42337
NEW 300	29"	50"	66"	16"	1-1/4"	44330
400	29"	70"	60"	16"	1-1/4"	43856
500	31"	68"	74"	16"	1-1/4"	43616
NEW 750	35"	85"	82"	16"	2"	44310
NEW 1000	40"	89"	92"	16"	2"	44045

CONTAINMENT BASINS/TANKS

Federal, state and local agencies are enforcing stringent rules and regulations regarding spills, leaks and overflows from primary containment tanks. These spills can be hazardous and costly and with that in mind, we have designed our containment basins and tanks to meet your containment needs.



Our containment basins and tanks are impact and corrosion resistant and are molded as a one-piece, seamless unit. The 250, 500 and 1300 gallon sizes are "basin style". The 2800 is a "Tank In A Tank" and is molded with a dome that can be cut off to enable it to be used as a containment tank.

Gallon Capacity	Width	Overall Height	Length	Fill Opening	Outlet/Drain Specification	Premium Weight Part No. (White)
250	68"	11"	92"	—	42114	Black
500	80"	19"	92"	—	42051	Black
1300	97"	22"	175"	—	42195	Black
2800*	102" Diameter	104"	—	16"	42222	White

*Tank In A Tank



POLY SECONDARY CONTAINMENT

Meeting Fertilizer Storage Regulations is Now Easier and More Affordable Than Ever!

- Little or no site preparation
- Use your existing tanks or ask about our diking packages
- Eliminates priming & sight gauge problems of double wall tanks

Holds 3,000 gal.
Part No. SC3400
(2) Each holds 3,000 gal.
Part No. SC3400-2

NORWESCO CONE BOTTOM TANKS & STANDS



CONE BOTTOM TANKS

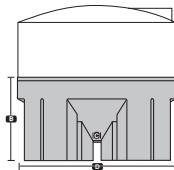
Norwesco offers a full range of cone bottom tanks designed for a variety of applications. The conical bottoms enable quick and complete drainage. As with all Norwesco tanks, the cone bottom tanks are molded of rugged, high density polyethylene and are both impact and chemical resistant.

Gallon Capacity	Slope	Diameter	Overall Height	Fill Opening	Outlet/Drain	Premium Weight Part No. (White)	Heavy Weight Part No. (blue)
160	45°	36"	52"	16"	2"	43845	—
175 w/ Stand*	30°	43"	49"/9"†	16"	2"	60113	—
300	45°	48"	56"	16"	2"	43848	—
300 w/ Stand*	30°	49"	61"/9"†	16"	2"	62343	—
310 w/ Stand*	30°	43"	72"/9"†	8"	2"	62441	—
500	45°	48"	85"	16"	2"	43850	—
500 w/ Stand*	30°	49"	87"/9"†	16"	2"	40289	—
750	20°	72"	56"	16"	2"	40811	—
750 w/ Stand*	20°	73"	67"/11"†	16"	2"	40809	—
1000	45°	72"	82"	16"	2"	43852	—
NEW 1020	15°	91"	53"	16"	2"	44341	—
1050	20°	72"	75"	16"	2"	40356	—
1050 w/ Stand*	20°	73"	86"/11"†	16"	2"	40359	—
NEW 1320	15°	91"	64"	16"	2"	44339	—
1500	45°	72"	112"	16"	2"	43854	—
1600	30°	88"	84"	16"	2"	40817	40819
1600 w/ Stand*	30°	89"	96"/11"†	16"	2"	40813	40815
NEW 1720	15°	91"	78"	16"	2"	44337	—
2500	30°	95"	105"	16"	2"	40066	40129
2500 w/ Stand*	30°	96"	116"/10"†	16"	2"	40672	40674
2500	15°	91"	108"	16"	2"	43065	43067
3000	30°	95"	123"	16"	2"	40170	40172
3000 w/ Stand*	30°	96"	134"/10"†	16"	2"	40797	40799
3000	15°	91"	120"	16"	3"/2"	45141	45242
4500	10°	102"	145"	16"	3"/2"	43058	43060
5500	30°	119"	148"	16"	3"/2"	40549	40316
6000	15°	102"	195"	16"	3"/2"	40931	40933
6000	10°	102"	189"	16"	3"/2"	43054	43056
7500	30°	141"	149"	16"	3"/2"	40551	40409
NEW 10,000	30°	141"	180"	16"	3"/2"	44103	44105

* Polyethylene stand † Distance from bottom of cone to ground

POLYETHYLENE STANDS

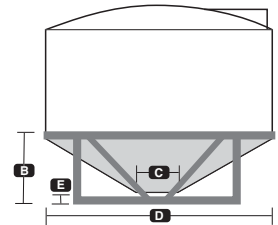
Maintenance free and lightweight for unequal corrosion resistance.



Tank Size (Gallon)	B	C	D
175 (30°)	31-1/2"	8"	43"
300 (30°)	32"	8"	49"
310 (30°)	31-1/2"	8"	43"
500 (30°)	32"	8"	49"
750 (20°)	34"	10"	73"
1050 (20°)	34"	10"	73"
1600 (30°)	46"	10"	89"
2500/3000 (30°)	47"	10"	96"

HEAVY DUTY STEEL STANDS

Structural steel with a full dish for uniform support.



Gallon Capacity	B	C	D	E	Part No.
160 (45°)	29"	7"	43"	15"	63932
300/500 (45°)	30"	8"	59"	11"	63933
1000/1500 (45°)	43"	9"	74"	11"	63934
2500/3000 (30°)	36"	11"	96"	11"	60059
NEW 2500/3000 (30°)	43"	20"	97"	12"	64076
5500 (30°)	45"	11"	119"	14"	60358
5500/6000 (10°)	21"	12"	102"	13"	63675
6000 (15°)	25"	13"	102"	13"	62473
7500 (30°)	49"	11"	140"	12"	61860
NEW 7500/10,000 (30°)	61"	27"	142"	12"	64070
COMING SOON 1020/1320/1720/2500/3000 (15°)					64090



HIGH DENSITY POLYETHYLENE LIDS

The hinged lid is manufactured from a co-polymer material for strength, durability and excellent chemical resistance. Our unique locking tab allows you to easily slip a padlock through it and secure your lid from theft or spills.

- Easy open/close - opens a full 180°
- Comes complete with a baffle vent assembly which allows for adequate venting when bottom filling your tank
- Unique locking tab
- All parts of lid may be ordered as repair parts

The lid is interchangeable with a standard 16 inch lid and ring assembly if you choose to replace your existing lid.

Description	Item Code	Part No.	Price	
22" Lid and ring with air vent		63679	114.99	
22" Lid, ventless with ring		63863	136.98	
16" Lid and ring with blue snap-in vent	A	63485	32.77	
16" Lid and ring with 3" center thread		63868	74.00	
16" Lid, ventless with ring		60367	37.51	
16" Lid and ring with 4" center lid/air vent	Old Style	A	60038	34.92
16" Lid with 4" center lid/air vent	Old Style	A	60011	30.58
4" Lid (air vent assembly for 16" lid (60038 and 60011))		60019	12.40	
16" Lid, ventless	B	60365	31.28	
16" Ring only		60012	10.31	
Ethafoam gasket for 16" non-hinged lid		62941	6.86	
Blue snap-in vent for 16" lid (63485)		63539	3.39	
8" Lid with blue snap-in vent	C	63480	13.95	
Blue snap-in vent for 8" lid (63480)		63482	1.57	
8" Lid, ring and air vent (for 22 vertical and loaf tanks)		60032	22.69	
5" Lid with ball check air vent	D	63484	9.68	
5" Lid with 2" FPT (does not include vent cap)		63264	10.05	
5" Lid, hinged (52 and 68 gal. flat bottom and 110 low profile tanks)		63673	21.98	
EPDM gasket for 5" lid, 63264 or 63484		60366	6.83	
2" MPT vent cap with poly screen		63266	17.04	
2" MPT vent cap, anti-vortex, without screen		63316	15.31	
3" MPT vent cap, with poly screen		63845	24.07	
18" Lanyard for 8" lid and 16" non-hinged lid (tethers lid to tank)		62531	1.11	
Stainless steel screw for 8" and 16" rings		60081	.24	
Strainer basket for 16" fill-opening (7" depth)		67374	79.50	
Hinged Lid and Repair Parts				
Hinged lid - complete lid assembly - 22"	E	63874	310.62	
Hinged lid - complete lid assembly - 16"	E	62532	99.18	
16" Hinged lid with vent assembly, without ring		62826	71.68	
16" Hinged ventless lid with ring		63390	98.16	
Vent assembly		62827	36.20	
Ring assembly		62828	35.83	
Hinge assembly		62829	5.42	
EPDM O-ring for lid*		62830	28.08	
Neoprene O-ring for ring		62831	28.08	
Below Ground Lids				
20" Lid for below ground tanks on page 58 (2000 & 2500 gallon)		62408	45.05	
20" Lid for below ground tanks on page 58 (2600 & 2650 gallon)		63672	64.25	

*Lid with black center cap requires this o-ring.



Lid with blue snap-in vent



Old Style (Replacement only)



B



C

Lid with blue snap-in vent



D

Lid with air vent



E

TANK REPAIR KITS & TANK ACCESSORIES

The tank repair kit pictured includes a specially formulated welding wire containing co-polymers and adhesives. Wire may be used to effectively repair linear polyethylene. Easy to use and requires only 110 volt power.

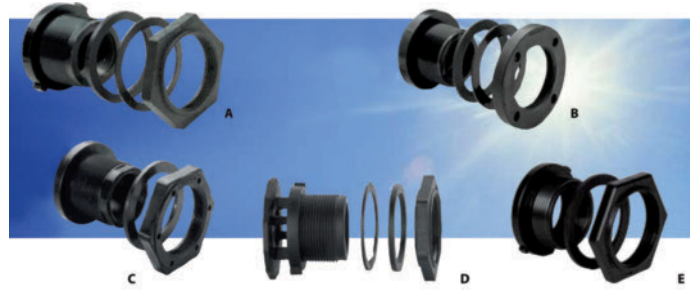


Poly Welding Gun

Description	Part No.	Price
Poly welding gun and rod	60221	250.56
Poly welding rod, 30'	61879	64.76


NORWESCO FITTINGS
POLYPROPYLENE BULKHEAD FITTINGS/EPDM OR VITON GASKETS

Norwesco's polypropylene fittings come standard with an EPDM gasket. Viton gaskets are available as an option. The 2 inch stainless steel bulkhead fitting comes standard without a gasket.



Description	Tank Hole Size Required for Installation	Item Code	Part No.	Price
1/2" Heavy duty double threaded polypropylene fitting	1-7/16"	A	62834	6.97
3/4" Double threaded polypropylene fitting	1-7/16"	A	60401	5.45
EPDM gasket for 1/2" and 3/4" (62834 and 60401)			60402	1.22
Type B Viton gasket for 1/2" and 3/4" (62834 and 60401)			60360	17.54
3/4" Heavy duty double threaded polypropylene fitting	1-5/8"	A	62798	7.24
EPDM gasket for 3/4" (62798)			62799	1.27
Type B Viton gasket for 3/4" (62798)			62800	20.83
1" Double threaded polypropylene fitting	2-1/4"	A	60427	6.97
1-1/4" Double threaded polypropylene fitting	2-1/4"	A	60403	6.83
1-1/4" Anti-vortex polypropylene fitting	2-1/4"	D	63065	8.73
EPDM gasket for 1" and 1-1/4" (60427,60403 and 63065)			60404	1.69
Type B Viton gasket for 1" and 1-1/4" (60427, 60403 and 63065)			60361	27.69
Anti-vortex adapter for 1-1/4" (60403)			62398	3.13
1- 1/2" Standard Duty double threaded polypropylene fitting	2-1/4"		63931	7.70
EPDM gasket for 1-1/2" (63931)			63938	2.33
Type B Viton gasket for 1-1/2" (63931)			63939	43.13
1- 1/2" Double threaded polypropylene fitting	3"	A	60124	10.45
Siphon tube, 1-1/2" x 4-5/16" long			63682	21.67
Siphon tube, 1-1/2" x 12" long			63279	21.78
2" Double threaded polypropylene fitting	3"	A	60405	9.96
2" Double threaded 316 stainless steel fitting, less gasket	3"		61767	183.52
EPDM gasket for 1-1/2" and 2" (60124,60405,63481 and 61767)			60406	2.37
Type B Viton gasket for 1-1/2" and 2" (60124, 60405, 63481 and 61767)			60523	43.13
2" Standard duty double threaded polypropylene fitting (3/8" maximum tank wall thickness)	3"	E	63481	8.55
2" Heavy duty double threaded heavy duty polypropylene fitting	3-1/4"	B	63683	14.50
EPDM gasket for 2" (63683)			60336	3.72
Type B Viton gasket for 2" (63683)			60008	50.97
Siphon tube, 2" short			60335	6.68
Siphon tube, 2" x 12" long			63262	20.92
2" MPT vent cap with poly screen			63266	17.04
2" MPT vent cap, anti-vortex, without screen			63316	15.31
Anti-vortex adapter for 2" bulkhead fitting			62399	3.23
2" Polypropylene dust plug			60021	1.57
2" Self-aligning double-threaded polypropylene fitting (designed to install in dome of vertical tank above the liquid level)	4-1/2"		63668	132.86
EPDM gasket for 2" self-aligning (63668)			60331	8.79
Type B Viton gasket for 2" self-aligning (63668)			60351	68.34
3" Double threaded polypropylene fitting	4-1/2"	C	62299	45.43
EPDM gasket for 3" (62299)			60331	8.79
Type B Viton gasket for 3" (62299)			60351	68.34
2" Polypropylene reducer for 3"			60330	10.69
Siphon tube, 3" short			60327	13.00
Siphon tube, 3" x 12" long			63263	30.25
3" MPT vent cap with poly screen			63845	24.07
4" Double threaded polypropylene fitting (hex nut as shown in photo C)	5-3/4"		62171	148.33
EPDM gasket for 4" (62171)			62785	31.28
Type B Viton gasket for 4" (62171)			62786	151.86
Siphon tube for 4"			62714	118.68

POLYPROPYLENE BOLTED FITTINGS/EPDM OR VITON GASKETS*

Bolted polypropylene fittings are equipped with 316 stainless steel bolts and come standard with EPDM gaskets. Viton gaskets are available as an option for the fittings.

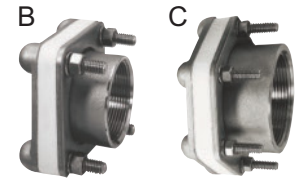


Description	Item Code	Part No.	Price
¾" Polypropylene double threaded bolted fitting with ss bolts and EPDM gaskets	A	60502	25.03
1" Polypropylene double threaded bolted fitting with ss bolts and EPDM gaskets	A	60505	25.03
EPDM gasket for ¾" and 1" (2 required)		60498	3.45
Type B Viton gasket for ¾" and 1" (2 required)		60355	19.42
1-½" Polypropylene double threaded bolted fitting with ss bolts and EPDM gaskets	A	60513	42.62
2" Polypropylene double threaded bolted fitting with ss bolts and EPDM gaskets	A	60516	42.62
EPDM gasket for 1-½" and 2" (2 required)		60497	3.39
Type B Viton gasket for 1-½" and 2" (2 required)		60356	33.02
3" Polypropylene double threaded bolted fitting with ss bolts and EPDM gaskets		62471	53.03
EPDM gasket for 3" (2 required)		62048	12.26
Type B Viton gasket for 3" (2 required)		60602	90.06

(Requires two gaskets)

STAINLESS STEEL DOUBLE THREADED BOLTED FITTINGS

Bolts are threaded into the back plate of the fitting so there are no welds or bolt holes that can be potential points of leakage. These fittings come standard without a gasket (with the exception of the 4 inch) and require a single gasket that is installed on the inside of the tank. Available gaskets are cross-linked polyethylene, EPDM and Viton. (4 inch fitting comes standard with a cross-linked polyethylene gasket.)



Description	Item Code	Part No.	Price
½" 316 stainless steel double threaded bolted fitting, less gasket	B	63216	71.62
¾" 316 stainless steel double threaded bolted fitting, less gasket	B	63035	74.13
1" 316 stainless steel double threaded bolted fitting, less gasket	B	62948	76.02
Type B Viton gasket for ½", ¾" & 1" (1 required)		63205	8.53
EPDM gasket for ½", ¾" & 1" (1 required)		63224	40.61
Cross-linked polyethylene gasket for ½", ¾" & 1" (1 required)		62950	2.76
1-¼" 316 stainless steel double threaded bolted fitting, less gasket	B	63036	108.25
Cross-linked polyethylene gasket for 1-¼" (1 required)		63041	3.31
1-½" 316 stainless steel double threaded bolted fitting, less gasket	B	63037	108.25
EPDM gasket for 1-¼" & 1-½" (1 required)		63426	8.94
Cross-linked polyethylene gasket for 1-½" (1 required)		63042	4.82
2" 316 stainless steel double threaded bolted fitting, less gasket	B	63038	114.52
EPDM gasket for 2" (1 required)		63206	10.29
Type B Viton gasket for 1-¼", 1-½" & 2" (1 required)		63225	59.77
Cross-linked polyethylene gasket for 2" (1 required)		62848	4.78
3" 316 stainless steel double threaded bolted fitting, less gasket	C	63039	261.02
EPDM gasket for 3" (1 required)		63223	18.40
Type B Viton gasket for 3" (1 required)		63226	164.47
Cross-linked polyethylene gasket for 3" (1 required)		63043	6.82
4" 316 stainless steel 8-bolt double threaded bolted fitting, less gasket		63069	464.64
Cross-linked polyethylene gasket for 4" (1 required)		63070	16.27

STAINLESS STEEL SINGLE THREADED BOLTED FITTINGS

Description	Part No.	Price
2" 316 stainless steel single threaded bolted fitting, less gasket	62847	96.35
EPDM gasket for 2" (1 required)	63206	10.29
Type B Viton gasket for 2" (1 required)	63225	59.77
Cross-linked polyethylene gasket for 2" (1 required)	62848	4.78
3" 316 stainless steel single threaded bolted fitting, anti-vortex, less gasket	63233	243.20
EPDM gasket for 3"	63223	18.40
Type B Viton gasket for 3" (1 required)	63226	164.47
Cross-linked polyethylene gasket for 3" (1 required)	63043	6.82

NORWESCO UNDERGROUND TANKS

PLEASE NOTE: Tank availability may vary according to manufacturing location. Tank dimensions and capacities may vary slightly and are subject to change without notice.

POLYETHYLENE SEPTIC & CISTERN TANKS



Septic tanks (front, left to right): 1000 gal. 2-manhole septic, 300 gal. spherical and 1500 gal. 2-manhole septic



Cistern tanks (left to right): 325 gal., 600 gal., 1200 gal. and 1700 gal.

LEGACY SINGLE COMPARTMENT SEPTIC TANKS

Gallon Capacity	Length	Width	Height	Manhole Diameter	Part No.
300	54"D	—	54"	1-20"	41319
500	101"	51"	47"	1-20"	41320*
750	96"	52"	62"	1-20"	41712
750	96"	48"	63"	2-20"	41814
1000	101"	52"	71"	1-20"	41716
1000	102"	60"	63"	2-20"	41718
1500	135"	55"	70"	2-20"	41758

*Non-plumbed
Part numbers may vary depending on state regulations. Call for more information.

LEGACY DUAL COMPARTMENT SEPTIC TANKS

Gallon Capacity	Length	Width	Height	Manhole Diameter	Part No.
1000 (2/3-1/3)	102"	60"	63"	2-20"	41720
1250 (2/3-1/3)	116"	55"	70"	2-20"	41743
1500 (2/3-1/3)	135"	55"	70"	2-20"	41760

*Non-plumbed
Part numbers may vary depending on state regulations. Call for more information.

BELOW GROUND CISTERNS

Gallon Capacity	Length	Width	Height	Manhole Diameter	Part No.
325	54"D	—	54"	1-20"	41321
600	101"	51"	47"	1-20"	41328
1200	102"	60"	63"	2-20"	41329
1700	135"	55"	70"	2-20"	41330

*Non-plumbed
Part numbers may vary depending on state regulations. Call for more information.

SEPTIC CISTERN TANK ACCESSORIES

Description	Part No.
Manhole extension (15"H x 20"D)	62397
Lid & riser combination (20" lid with 8" riser pipe)	62395
20" Septic/cistern tank lid	62408

Septic and cistern tank accessories (left to right): manhole extension, lid and riser and 20 in. lid.



PLUMBING KITS

Description	Part No.
SDR35 sanitary tee & gasket (2 each)	61762
SDR35 or schedule 40 gasket kit (2 each)	61765
Schedule 40 sanitary tee & gasket (2 each)	61763

BRUISER MULTI-USE TANK

The Bruiser can be used as a septic tank, a holding tank, a pump chamber, or as a cistern tank for potable water.

- Use native soils for backfill
- No water needed during backfilling
- Pre-plumbed according to state code
- Accepts 4 in. effluent filters
- Tee assemblies installed at the inlet and outlet, sized/cut according to each state code
- Watertight domed lid

PLUMBED BRUISER TANKS

Gallon Capacity	Length	Width	Overall Height	Height to Inlet	Height to Outlet	Manhole Diameter	Part No.
1000*	102"	60"	63"	51"	48"	2-20"	41734
1250*	116"	55"	70"	59"	56"	2-20"	41752
1500*	135"	55"	70"	59"	56"	2-20"	41771
1000 (2/3-1/3)**	102"	60"	63"	51"	48"	2-20"	41735
1250 (2/3-1/3)**	116"	55"	70"	59"	56"	2-20"	41753
1500 (2/3-1/3)**	135"	55"	70"	59"	56"	2-20"	41772

*1 compartment **2 compartments Part numbers may vary depending on state regulations. Call for information.



SPECIALTY TANK ITEMS



TRI STAR TOP TANK

Part No.	Capacity	Weight	Price
CRM0135-NA-C	135 gal.	60 lb	1268.70
CRM0051-JR-NA-C	51 gal.	35 lb	659.03

MOUNTING KIT *(may be purchased separately)*

Part No.	Capacity	Price
CRM99-0001	135 gal.	458.76

TOP TANKS

Top Tanks are easily mounted on the product tank to provide a source of clean water for safety, washdown, clean up, and flushing of liquid systems.

The universal design of the Top Tank allows you to supplement your water supply by mounting on field delivery nurse tanks.

Top Tank's can be adapted to several available pump and plumbing packages including a hydraulic driven pressure wash system.

- Installs in minutes
- Requires no special tools
- No welding required
- Polyethylene construction
- 5 in. threaded lid
- Fits most liquid applicators and nurse tanks
- Fits 56 - 65 in. diameter tanks

INTERMEDIATE BULK TANKS

These economical two-piece bulk containers reduce your cost-per-gallon investment. A nine-inch PUMPCAP adapter system works with direct mount pumps or two inch buttress extraction systems. All units stack with each other, and have a sloped bottom with two inch Banjo ball valve for easy cleaning.

- 120, 220, 275, 330 gallon containers
- 4-way fork entry with 2-way anti-tip safety bars
- Manufactured from premium-grade virgin LLDPE
- Heavy-duty extended height base protect bottle & valve from fork truck abuse
- Food grade chemical resistant polyethylene
- Ribbed construction for optimum strength
- Sloped bottom gives 99.9% drainage
- All-plastic construction equals minimal maintenance
- Long life cycles replaces need for limited trip units
- Colored bases available for product identification



120 Gallon Tank. Part No. B120

220 Gallon Tank. Part No. MB220ROCK

Direct Mount Chemical Pumps for these mini bulk containers on page 156.

BALL BAFFLE SYSTEM FOR LIQUID SURGE PROTECTION

Save money by reducing fuel and maintenance costs.

- Reduce fluid movement for improved load stability during transit
- Suitable for use with all tanks: steel, poly, fiberglass, aluminum, etc.
- Food grade quality material, suitable for use with potable water
- Baffle Balls can be used with water, diesel & many other liquids
- Simple to install, just clip together & place inside tank
- No rust ever, lightweight & durable
- Low liquid displacement

- Large ball displaces 14 oz & weighs only 0.8 lb
- Small ball displaces 5 oz and weighs only 0.25 lb
- Recommend use quantity:
 - 7.5" is one baffle ball per 2 gal. of total tank capacity
 - 14" is one baffle ball per 10 gal. of total tank capacity



EPA COMPLIANT PRODUCTS

Products to Help You Comply with Federal Shuttle Regulations

ONE WAY CHECK VALVES

Available for Shutz, IBC, Snyder, Bonar, Clawson and Mauser/Mamor



IBC AIR TESTER

Shown with 3/4 inch pipe at bottom (not included)

Part No. 02-00348



TAMPER EVIDENT VENT AND SEALS

2 inch NPT tamper evident manual vent

Part No. NE-VENT

2 inch buttress tamper evident manual vent

Part No. ANE-VENT

Red, tamper evident push seal, no tools required

Part No. PS-RED



BUTTRESS ADAPTERS

2 inch Buttress adapter with 1 inch NPT plug, EPDM O-rings

Part No. A-ADB-1

2 inch buttress x 1 inch NPT check valve with diptube and bellows for pump extraction. Includes 1 inch plug and EPDM O-rings

Part No. A-CHBD-1



STAINLESS STEEL WIRE

1000 foot roll, four strand x .014 stainless steel wire

Part No. PS-1000SS



INTERMEDIATE BULK CONTAINERS WITH CHECK VALVE



SQUARE STACKABLE IBCS



EPA COMPLIANT PRODUCTS



PH 6 PANTHER DIAPHRAGM PUMPS

Scienco PH6 Panther Pump System

Designed for use with low and high viscosity fluids and to fit most container. Features a 12 volt DC motor producing a flow rate of 8 to 10 GPM.

System includes:

- Pump
- 1 in. x 12 ft EPDM discharge hose
- 1 in. x 12 ft EPDM suction hose
- SEM-10 flow meter
- Valve, nozzle, and alligator clips.

Part No. CES-PH6



PH6 SHUTTLE PUMP SYSTEM WITH CADDY

A portable system, designed for use with low and high viscosity fluids and to fit most containers, features a 12 volt DC motor producing a flow rate of 8 to 10 GPM.

System includes:

- Caddy
- Pump
- 1 in. x 12 ft EPDM discharge hose
- 1 in. x 12 ft EPDM suction hose
- SEM-10 meter
- Valve, nozzle, and alligator clips

Part No. CADDY-PH6



PH6 SHUTTLE PUMP SYSTEM

Can be mounted to any tank with a 9 inch opening.

System includes:

- Pump with 12 volt electric motor
- 20 ft cable with alligator clips
- SEM-10 hose end meter
- 1 in. x 12 ft EPDM discharge hose and ball valve
- Automatic recirculation feature

Part No. CES-PH-13



SCIENCO FLOW METERS

Simple one-touch operation, offers choice of three calibration modes, 3 volt lithium battery for extended battery life, features auto shut-off after 40 seconds and auto wake up occurs on counts. Flows from 2 to 30 GPM.

Fixed Mounting Flow Meter
Part No. SEM-10



Flow Through Flow Meter
Part No. SEM-10FT



DIAPHRAGM PUMPS

Sotera Chemtraveller™

A compact unit for field use on a low profile frame, complete with a 12 volt DC motor. Can be easily adapted to drums or mini-bulk containers with a 2, 4, or 6 inch opening. Chemtraveller's higher flow rate, to 13 GPM with low viscosity fluids, means you spend less time transferring, more time applying.

Part No. SS435



RECIRCULATING PUMP

12 volt DC diaphragm pump designed for liquid recirculation for mixing and transferring high viscosity chemicals. Includes a Snyder GEM cap adapter built into the base pump.

Part No. SS445



FLOW METER

Simple operation, choose your calibration factor from 20 stored settings, includes two AA batteries. Flows from 2-20 gpm.

Part No. 825



LIQUID SUCTION & DISCHARGE HOSE

Warning: Not for Transfer of Anhydrous Ammonia Products. See Page 232 for Anhydrous Hoses

Inside Diameter	PSI	Part No.	Price
¾"	90	PVC075	1.18
1"	80	PVC100	1.52
1-¼"	80	PVC125	1.73
1-½"	70	PVC150	1.88
2"	65	PVC200	2.91
3"	55	PVC300	5.91
4"	50	PVC400	10.42
6"	50	PVC600	26.82

STYLE K PVC SUCTION HOSE

A high quality flexible and long lasting suction and discharge hose for general purpose uses including water and fertilizer solutions.

Constructed of smooth bore hose made of flexible abrasion-resistant extruded clear PVC with a rigid gray PVC helix. Sold in 100 foot rolls.



Inside Diameter	PSI	Part No.	Price
1"	50	PEH100	2.82
1-¼"	50	PEH125	3.24
1-½"	50	PEH150	3.79
2"	50	PEH200	4.85
3"	43	PEH300	10.61
4"	38	PEH400	16.94

BUMBLE BEE SUCTION HOSE

Chemical and fertilizer solution suction and discharge transfer hose. Lightweight with good flexibility. Medium grade.

Constructed of black EPDM with yellow or green polyethylene helix reinforcement. Sold in 100 foot rolls.



Inside Diameter	PSI	Part No.	Price
1"	125	WBSH100	9.52
1-¼"	125	WBSH125	5.91
1-½"	125	WBSH150	6.94
2"	125	WBSH200	8.00
2-½"	125	WBSH250	9.79
3"	125	WBSH300	11.39
4"	125	WBSH400	17.73

EPDM RUBBER SUCTION HOSE

Suction and discharge of most diluted chemicals including LASSO.

Constructed of EPDM tube reinforced with synthetic cord and spiral steel wire for added flexibility and crush resistance. Black EPDM cover. Sold in 100 foot rolls.



Inside Diameter	PSI	Part No.	Price
1"	150	CSH100	18.19
1-¼"	150	CSH125	24.79
1-½"	150	CSH150	24.77
2"	150	CSH200	27.14
3"	150	CSH300	35.70

CHEM-FLEX CHEMICAL HOSE

A versatile chemical transfer hose that will handle up to 90% of all known chemicals.

Constructed of special cross-linked polyethylene tube is reinforced with plies of textile and a dual spring wire helix. The cover is green EPDM to identify chemical use.



Inside Diameter	PSI	Part No.	Price
1-½"	—	ENF150	5.52
2" x 2.66"	100	ENF200	7.85
3" x 3.86"	85	ENF300	12.39
4" x 4.87"	70	ENF400	27.82

ENFORCER—REINFORCED FERTILIZER SOLUTION HOSE

A reinforced, flexible suction and discharge hose for the agricultural and construction industries. Hose is resistant to diluted herbicides and pesticides and has good flexibility in sub-zero weather.

Constructed of EPDM tube with polyethylene helix and hi-tensile fabric reinforcement.



LIQUID APPLICATION & DISCHARGE HOSE

PVC DISCHARGE HOSE

Economical water discharge hose.



Inside Diameter	PSI	Part No.	Price
1-1/2"	70	LFH150	1.14
2"	65	LFH200	1.85
3"	55	LFH300	1.58
4"	50	LFH400	2.50

HIGH PRESSURE HOSE



Inside Diameter	PSI	Part No.	Price
3/8"	570	HPS038	1.64
1/2"	560	HPS050	2.28
3/4"	570	HPS075	5.86
1/2"	800	GHPS050	3.18
3/4"	800	GHPS075	7.58

EPDM SPRAY HOSE

Used for spraying applications.



Inside Diameter	PSI	Spiral	Part No.	Price
1/4"	200	2	EPDM025	1.36
3/8"	200	2	EPDM038	1.12
1/2"	200	2	EPDM050	1.55
5/8"	200	2	EPDM058	2.12
3/4"	200	2	EPDM075	2.15
1"	200	2	EPDM100	3.30
1-1/4"	150	4	EPDM125	5.88
1-1/2"	150	4	EPDM150	6.67
2"	150	4	EPDM200	13.48

NYLON REINFORCED PVC TUBING



Part No.	Size	Price	
	1/4"	RVT025	.70
	3/8"	RVT038	1.00
	1/2"	RVT050	1.15
	5/8"	RVT058	1.72
	3/4"	RVT075	2.01
	1"	RVT100	3.03
	1- 1/4"	RVT125	5.51
	1- 1/2"	RVT150	5.64
	2"	RVT200	10.97

CLEAR VINYL TUBING

Site gauge and safety water can usage.



Inside Diameter	Wall Thickness	Part No.	Price
1/4"	1/16"	CVT025-1/16	.45
1/4"	1/8"	CVT025	.79
3/8"	1/8"	CVT038	.85
1/2"	1/8"	CVT050	1.12
5/8"	1/8"	CVT058	1.52
3/4"	1/8"	CVT075	1.52
1"	1/8"	CVT100	1.82
1-1/4"	1/8"	CVT125-1/8	2.74
1-1/4"	1/4"	CVT125-1/4	6.03
1-1/2"	1/8"	CVT150-1/8	5.52
1-1/2"	1/4"	CVT150-1/4	9.12

EVA TUBING

Used in applying anhydrous ammonia, aqua ammonia, herbicides, phosphates and all liquid fertilizers. Independent Ag Equipment stocks quality EVA tubing to provide you the best hose available.



Roll Size	Inside Diameter	Part No.	Price Per Ft
500'	1/4"	EVA025	.42
500'	3/8"	EVA038	.72
5000'	3/8"	EVA038-BL	.76
500'	1/2"	EVA050	.85
500'	1/2"	EVA050-BLUE	.88
250'	5/8"	EVA058	.88
250'	3/4"	EVA075	1.53
250'	1"	EVA100	1.48

FLEXAUST HOSE

Black corrugated with wire.

Inside Diameter	Part No.	Price
6"	FLEX6	11.06
7"	FLEX7	12.64
8"	FLEX8	14.39
10"	FLEX10	18.97

Clear urethane with stainless steel wire reinforcement. More flexible, allows you to see material pass through. Ideal for landscapers and DOT's.

Inside Diameter	Part No.	Price
6"	HI UFD 6"	29.36
8"	HI UFD 8"	37.58

HOSE CUTTER

Cuts hose and tubing up to 2 in. O.D.; P.E. up to 1-1/2 in. I.D.; PVC up to 1-1/4 in. I.D. Stainless steel blade.



Description	Part No.	Price
Hose Cutter	LHC95	53.48
Replacement Blade	LHC95RB	21.30

CLAMPS

STAINLESS STEEL BOLT CLAMPS

Can be torqued 4 to 5 times that of a worm drive clamp. 3/4 inch stainless steel band, bolt and housing. Take up range is 10/32 inch, so hose diameter must be carefully measured. Best clamp selection on hard wall hoses in larger sizes where normal worm gear clamps will strip out under high torque conditions.



Description	Min. Dia.	Max. Dia.	Part No.	Price
1.25"	1.62"	1.87"	TC162	9.30
1.5"	1.81"	2.06"	TC181	9.30
1.5"	1.93"	2.18"	TC193	9.55
2"	2.18"	2.50"	TC218	9.55
2"	2.31"	2.62"	TC231	9.75
2"	2.50"	2.81"	TC250	9.75
2"	2.87"	3.18"	TC287	9.75
3"	3.31"	3.62"	TC331	10.40
3"	3.43"	3.75"	TC343	10.40
4"	4.25"	4.56"	TC425	11.27
4"	4.38"	4.76"	TC438	18.78
4"	4.56"	4.94"	TC456	18.78

STAINLESS STEEL HOSE CLAMPS

Hose clamps are all stainless steel including the band, housing and drive screw.



Min. Dia.	Max. Dia.	Part No.	Price
5/16"	7/8"	MYCH-5SS	1.24
3/8"	7/8"	MYCH-6SS	1.62
1/2"	29/32"	MYCH-8SS	1.62
5/16"	1-1/16"	MYCH-10SS	1.65
1-1/16"	1-1/4"	MYCH-12SS	1.65
1-1/16"	1-1/2"	MYCH-16SS	1.65
1-5/16"	1-3/4"	MYCH-20SS	1.67
1-1/16"	2"	MYCH-24SS	1.58
1-1/16"	2-1/2"	MYCH-32SS	1.70
1-1/16"	2-3/4"	MYCH-36SS	1.70
2-5/16"	3-1/4"	MYCH-44SS	2.36
3-1/16"	4"	MYCH-56SS	2.48
3-3/16"	4-1/2"	MYCH-64SS	2.57
5-1/16"	6-1/2"	MYCH-96SS	4.12

HOSE & CLAMP LIST

HOSE	SS CLAMP	T BOLT CLAMP
PVC075	MYCH-10SS	
PVC100	MYCH-16SS	
PVC125	MYCH-20SS	
PVC150	MYCH-24SS	TC162
PVC200	MYCH-32SS	TC218
PVC300	MYCH-48SS	TC331
PEH100	MYCH-16SS	
PEH125	MYCH-20SS	
PEH150	MYCH-24SS	TC181
PEH200	MYCH-32SS	TC231
PEH300	MYCH-52SS	TC343 OR TC331
WSH125	MYCH-20SS	TC162
WSH150	MYCH-28SS	TC181
WSH200	MYCH-36SS	TC231
WSH300	MYCH-52SS	TC331
ENF150	MYCH-28SS	TC181
ENF200	MYCH-36SS	TC231
ENF300	MYCH-56SS	TC343
EVA038	MYCH-4SS	
EVA050	MYCH-4SS	
EVA058	MYCH-10SS	
EVA075	MYCH-12SS	
EVA100	MYCH-16SS	
CVT025	MYCH-4SS	
CVT038	MYCH-4SS	
CVT050	MYCH-6SS	
CVT058	MYCH-10SS	
CVT075	MYCH-12SS	
CVT100	MYCH-16SS	
CVT125-1/8	MYCH-20SS	
CVT125-1/4	MYCH-20SS	
CVT150-1/8	MYCH-24SS	
CVT150-1/4	MYCH-24SS	
CVT200	MYCH-32SS	
LFH150	MYCH-20SS	
LFH200	MYCH-28SS	
LFH300	MYCH-44SS	
RVT038	MYCH-4SS	
RVT050	MYCH-6SS	
RVT075	MYCH-10SS	
RVT100	MYCH-16SS	
RVT125	MYCH-20SS	
EPDM025	MYCH-4SS	
EPDM038	MYCH-4SS	
EPDM050	MYCH-6SS	
EPDM058	MYCH-10SS	
EPDM075	MYCH-12SS	
EPDM100	MYCH-16SS	
EPDM125	MYCH-20SS	TC162
EPDM150	MYCH-28SS	TC181
EPDM200	MYCH-32SS	TC231

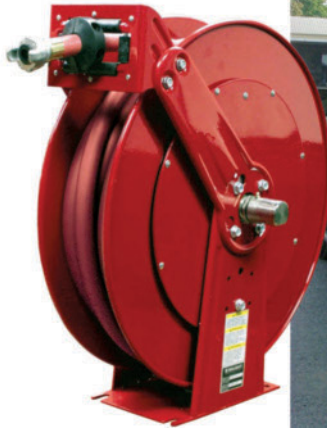
HOSE REELS

COXREELS P SERIES "PERFORMANCE" HOSE REELS

COXREELS P Series "Performance" spring driven hose reels have a long history of dependability and trouble free performance. Their compact space-saving size and heavy duty construction make them highly versatile and virtually indestructible. Time-tested proven components, superior design and craftsmanship have contributed to its worldwide reputation as the most trusted hose reel.

- Compact, space saving size
- High quality steel construction and durable epoxy powder-coat finish
- Multi-position locking ratchet easily secures hose at desired length
- Durable proprietary CPC™ powder coat finish
- Industry leading 2 year manufacturer's limited warranty
- Made in the U.S.A.

Part No. P-LP-350Price: \$716.58



VARIOUS STYLES AND SIZES ARE AVAILABLE.

Please call for information.

SERIES 1500 HANNAY HOSE REELS

- Lightweight compact reels designed for long lengths of hose in manual and power rewind
- Direct crank rewind is permanently attached
- Chain and sprocket drive powered by electric, hydraulic, or compressed air motor
- Manual reels include: camlock drag brake, spring actuated pin lock

Hannay Manual Hose Reel

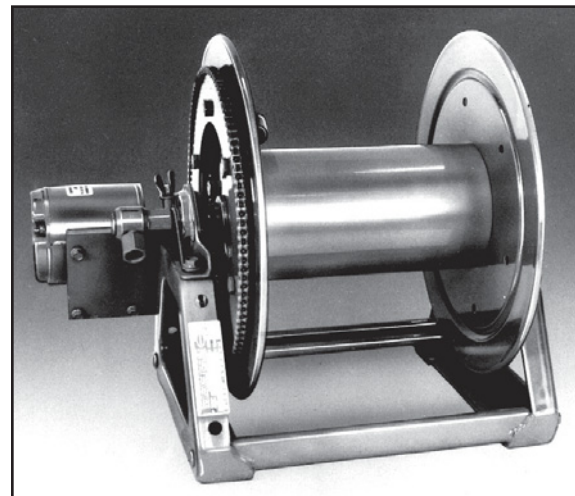
Part No. 1526-17-18Price: \$583.33



- Standard inlet 90° ball bearing swivel joint ½ in. female NPT threads
- Standard outlet ½ in. female NPT threads
- Optional rollers: specify roller position when ordering
- Pressures to 3000 PSI
- Temperatures from +20° F to +400° F (-7° C to +204° C)
- Consult factory for other pressures & temps

Hannay Electric Hose Reel

Part No. E-1526-17-18.....Price: \$1,368.18



NORWESCO BALL VALVES

BOLTED BALL VALVES

Item	Description	Part No.	Price
A	½" full port	60540	30.74
A	¾" full port	60541	30.74
A	1" standard port	60542	30.74
A	1" full port	60543	35.09
A	1-¼" standard port	61734	35.09
A	1-¼" full port	60527	44.84
A	1-½" full port	60526	44.84
D	1-½" full port nozzle	60544	61.34
A	2" standard port	60529	43.54
C	2" standard port M x F	62046	43.54
D	2" standard port nozzle	60545	63.19
B	2" full port	60528	63.59
C	2" full port M x F	61876	66.63
D	2" full port nozzle	60546	88.56
B	3" full port	61720	153.30
C	3" full port M x F	62047	153.30
E	4" full port bolted valve	62787	323.25

Bolted Ball Valves

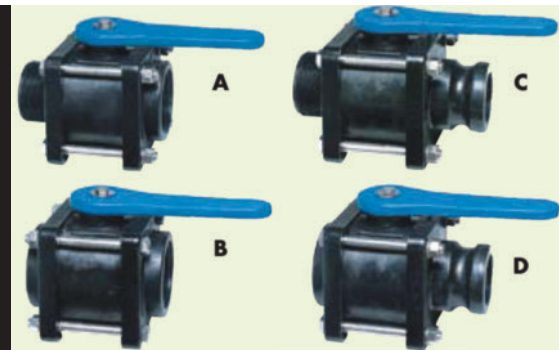


- Manufactured from glass reinforced polypropylene for strength and durability
- Will never rust or corrode
- Self-aligning ball rotates freely against Teflon® seats
- Unique body-to-flange design allows for low torque on/off operation
- Viton O-ring stem seal and EPDM O-ring body seal
- Available with blue Norwesco handle or blank yellow handle
- Pressure rated:
½ - 3" 125 PSI @ 70° F;
4" 90 PSI @ 70° F
- All valves tested by air pressure under water

COMPACT BOLTED BALL VALVES

Item	Description	Part No.	Price
A	2" full port M x F	62286	51.69
B	2" full port F x F	62287	51.69
C	2" full port M x M coupler	62288	51.69
D	2" full port F x M coupler	62314	51.69

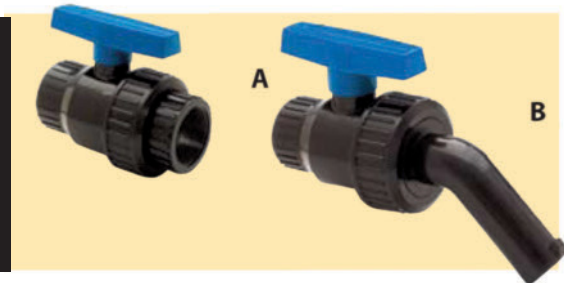
Compacted Bolted Ball Valves



SINGLE UNION BALL VALVES

Item	Description	Part No.	Price
A	½" single union	60409	13.08
A	¾" single union	60410	14.22
A	1" single union	60411	18.16
A	1-¼" single union	60412	30.28
A	1-½" single union	60413	36.95
A	2" single union	60414	47.38
A	3" single union	60415	140.25
B	1" 45° nozzle valve	60479	18.92

Single Union Ball



MULTI-PORT BALL VALVES

Item	Description	Part No.	Price
C	¾" true union	60417	41.50
D	2" multi-port	60418	58.75

Multi-port Ball Valves



BOLTED BALL VALVE REPLACEMENT HANDLES

Description	1/2" FP 3/4" FP 1" STD	1" FP 1-1/4" STD	1-1/4" FP 1-1/2" FP 2" STD	2" FP 3" FP	1-1/2" FPNZ	2" STDNZ	2" FPNZ
Yellow handle Part No.	61783	61784	61785	61786	61787	61787	61788
Blue handle Part No.	61721	61722	61723	61724	61725	61725	61726

FP - Full Port STD - Standard Port NZ - Nozzle Valve

SINGLE UNION BALL VALVE REPLACEMENT HANDLES

Description	1/2" FP 3/4" FP 1" STD	1" FP 1-1/4" STD	1-1/4" FP 1-1/2" FP 2" STD	2" FP 3" FP	1-1/2" FPNZ	2" STDNZ	2" FPNZ
Valve size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	3"
Part No.	60444	60445	60446	60447	60448	60449	60450

FP - Full Port STD - Standard Port NZ - Nozzle Valve

CHROMED BRASS VALVES

Chromed brass ball, stem and body with Teflon seat and Viton seals. Equipped with either butterfly or lever handles in tough nylon. Rated to 300 PSI. Maximum temperature 22° F. Available with two female ports or one female and one male port. Part number indicates port arrangement. All ports are National Pipe Thread.



Description	Part No.	Price
1/8" FNPT x 1/8" FNPT	90FFB18	15.56
1/8" FNPT x 1/8" FNPT	90FFL18	14.66
1/4" FNPT x 1/4" FNPT	90FFB14	13.47
1/4" FNPT x 1/4" FNPT	90FFL14	13.17
1/4" FNPT x 1/4" MNPT	90FMB14	13.47
1/4" FNPT x 1/4" MNPT	90FML14	13.47
3/8" FNPT x 3/8" FNPT	90FFB38	13.47
3/8" FNPT x 3/8" FNPT	90FFL38	13.17
3/8" FNPT x 3/8" MNPT	90FMB38	13.47
3/8" FNPT x 3/8" MNPT	90FML38	13.17
1/2" FNPT x 1/2" FNPT	90FFB12	17.66
1/2" FNPT x 1/2" FNPT	90FFL12	17.66
1/2" FNPT x 1/2" MNPT	90FMB12	18.85
1/2" FNPT x 1/2" MNPT	90FML12	17.66

STAINLESS STEEL VALVES



Description	Part No.	Price
1/4" full port	50M76-1/4	34.03
3/8" full port	50M76-3/8	34.03
1/2" full port	50M76-1/2	34.03
3/4" full port	50M76-3/4	62.82
1" full port	50M76-1	84.91
1-1/4" full port	50M76-1-1/4	128.44
1-1/2" full port	50M76-1-1/2	182.54
2" full port	50M76-2	168.97
3" full port	50M76-3	802.70

BRASS VALVES



Description	Part No.	Price
3/4"	PHV500P12	34.70
3/8"	PHV500P6	19.63
1/2"	PHV500P8	19.63

NORWESCO POLYPROPYLENE COUPLERS

- Manufactured from glass re-reinforced polypropylene
- Reduces the number of joints in piping applications
- Smooth operating 304 stainless steel cam arms and pins

- Standard with EPDM gaskets
- Interchangeable with other couplers and adapters
- Pressure rating: ½" -2" 125 PSI, 3" 100 PSI



MALE ADAPTER X FPT (STYLE A)

Size	Part No.	Price
½"	61199	4.18
¾"	61207	4.18
1"	61215	4.44
1-¼"	61223	4.61
1-½"	61231	4.94
2"	61239	5.87
3"	61247	13.30
4"	62789	21.26



FEMALE COUPLER X MPT (STYLE B)

Size	Part No.	Price
½"	61255	10.95
¾"	61259	10.95
1"	61263	12.51
1-¼"	61267	14.59
1-½"	61271	14.46
2"	61275	17.07
3"	61279	28.86
4"	62790	57.25



FEMALE COUPLER X BARB (STYLE C)

Size	Part No.	Price
½"	61256	10.95
¾"	61260	10.95
1"	61264	12.51
1-¼"	61268	14.59
1-½"	61272	14.46
2"	61276	17.07
3"	61280	28.86
4"	62791	57.25



FEMALE COUPLER X FPT (STYLE D)

Size	Part No.	Price
½"	61257	10.95
¾"	61261	10.95
1"	61265	12.51
1-¼"	61269	14.59
1-½"	61273	14.46
2"	61277	17.07
3"	61281	28.86
4"	62792	57.25



MALE ADAPTER X BARB (STYLE E)

Size	Part No.	Price
½"	61203	4.50
¾"	61211	4.50
2"	61219	5.09
1-¼"	61227	5.13
1-½"	61235	5.30
2"	61243	6.81
3"	61251	16.77
4"	62793	21.62



MALE ADAPTER X MPT (STYLE F)

Size	Part No.	Price
½"	61204	4.50
¾"	61212	4.50
1"	61220	5.09
1-¼"	61228	5.13
1-½"	61236	5.30
2"	61244	6.81
3"	61252	16.77
4"	62794	21.62



PLUG

Size	Part No.	Price
½"-¾"	61214	4.06
1"	61222	4.44
1-¼"-1-½"	61238	4.90
2"	61246	6.62
3"	61254	13.30
4"	62796	17.19



CAP

Size	Part No.	Price
½"-¾"	61258	10.59
1"	61266	12.13
1-¼"-1-½"	61274	14.46
2"	61278	17.07
3"	61282	28.26
4"	62795	41.65



MALE ADAPTER X FPT (STYLE 90A)

Size	Part No.	Price
1-½"	61293	8.20
2"	61296	8.64



FEMALE COUPLER X BARB (STYLE 90C)

Size	Part No.	Price
1-½"	61299	17.32
2"	61301	20.53



FEMALE COUPLER X FPT (STYLE 90D)

Size	Part No.	Price
1-½"	61300	17.32
2"	61302	20.53



MALE ADAPTER X MPT (STYLE 90F)

Size	Part No.	Price
1-½"	61289	9.47
2"	61291	9.77

GASKETS (EPDM)

Size	Part No.	Price
½"-¾"	61570	.64
1"	61571	.64
1-¼"-1-½"	61572	.97
2"	61574	1.11
3"	61575	1.49
4"	62797	3.77

COUPLER REPLACEMENT PARTS

Description	Part No.	Price
Polypropylene shims ½"-¾"	61715	.45
Polypropylene shims 1"	61716	.45
Polypropylene shims 1-¼"-1-½"	61717	.88
Polypropylene shims 2"	61718	.99
Polypropylene shims 3"	61719	1.70

POLYPROPYLENE BOLTED BALL VALVES

- Stainless steel bolts
- Precision molded in polypropylene, reinforced with fiberglass for additional strength
- Self-aligning ball moves freely against Teflon seats for smooth operation
- Ball is diamond turned after molding to make it spherically perfect, which provides the right contact between ball and seats
- Viton O-ring stem seal
- Teflon self-lubricating stem bushings and seats cannot stick or bind
- Maximum operating pressure: 100 PSI



Description	Pipe Size	Opening Thru Ball	Part No.	Price
Valve, full port	1/2"	3/4"	V050	40.03
Valve, full port	3/4"	3/4"	V075	40.03
Valve, standard port	1"	3/4"	V100	40.03
Valve, full port	1"	1"	V100FP	44.14
Valve, standard port	1-1/4"	1"	V125	44.14
Valve, full port	1-1/4"	1-1/2"	V125FP	56.74
Valve, full port	1-1/2"	1-1/2"	V150	56.74
Valve, standard port	2"	1-1/2"	V200	56.74
Locking device available for V125FP, V150 and V200 (padlock not included)			VL20153	15.25



Description	Part No.	Price
2" full port 2" FPT x 2" FPT	V204FP	75.74
2" full port 2" male adapter x 2" MPT	VFMT204FP	84.67

REMOVABLE HANDLE KIT

Removable handle deters opening the valve for safety, vandalism, and theft.



Description	Valve Used	Qty.	Part No.	Price
Kit	V125FP, V150 & V200	1	VRH200K	31.06
Kit	V200FP, V300 & V300FP	1	VRH220K	32.19

Description	Pipe Size	Opening Thru Ball	Part No.	Price
Valve, full port	2"	2-5/16"	V200FP	79.90
Valve, standard port	3"	2-1/2"	V300	128.62
Valve, full port	3"	3"	V300FP	190.94
Valve, standard port	4"	3-1/2"	V400	417.32
Locking handle (padlock not included)			VL25153	29.41

LOCKING DEVICE & LOCKING HANDLE

- Stainless steel construction
- Locked in open or closed positions



Description	Opening Thru Ball	Part No.	Price
2" valve-2" male adapter x 2 male NPT	2"	VFMT200FP	92.91

BANJO VALVE HANDLES

Description	VA100 V050 V075 V100	V100-FP V125	V125-FP V150 VA150 V200 VA200	V200-FP VA200-FP	V300 V300-FP V400	2" Stubby Valve	UV050FP UV075FP	UVA-100FP UV100FP	UV125FP UV150FP	UV200FP
Handle, straight	V10153A	V10153A	V20153	V25153	V25153					
Handle, angle			V20152	V25152						
Handle, locking			VL20153	VL25153	VL25153					
Handle, 2" short style							V20153SH			
Handle, union valve							UV07153	UV10153	UV15153	UV20153



BALL & NOZZLE VALVES

SINGLE UNION POLYPROPYLENE BALL VALVE

Description	Pipe Size	Opening Thru Ball	Part No.	Price
½" single union poly valve	½"	¾"	UV050FP	20.06
¾" single union poly valve	¾"	¾"	UV075FP	20.06
1" single union poly valve	1"	1"	UV100FP	25.07
1-¼" single union poly valve	1-¼"	1-½"	UV125FP	43.04
1-½" single union poly valve	1-½"	1-½"	UV150FP	42.76
2" single union poly valve	2"	2"	UV200FP	54.28

- Precision molded in glass reinforced polypropylene, for strength and chemical resistance
- Teflon seats for smooth operation and proper sealing characteristics
- EPDM O-rings to handle most fertilizers and many chemicals, Viton available
- Double O-rings in stem area for extra sealing protection
- Visual handle stops for turning off and on
- Interlocking body and end plate to allow easy thread connection when installing valves
- Maximum operating pressure: 100 PSI at 72° F



3-WAY POLYPROPYLENE BALL VALVES

BOTTOM LOAD: VALVE CAN BE TURNED OFF TO STOP FLOW.

Description	Pipe Size	Opening Thru Ball	Part No.	Price
¾" 3-way bottom poly valve	¾"	1"	V075BL	57.80
1" 3-way bottom poly valve	1"	1"	V100BL	57.80
1-¼" 3-way bottom poly valve	1-¼"	1-½"	V125BL	74.74
1-½" 3-way bottom poly valve	1-½"	1-½"	V150BL	74.74
2" 3-way bottom poly valve	2"	2"	V200BL	144.07

- Directional flow either right or left.
- Stainless steel bolts
- Precision molded in polypropylene, reinforced with fiberglass for additional strength
- Self-aligning ball moves freely against the Teflon seats for smooth operation
- Ball is diamond turned after molding to make it spherically perfect, which provides the right contact between ball and seats
- Viton O-ring stem seal
- Teflon self-lubricating stem bushings and seats cannot stick or bind
- Maximum operating pressure: 100 PSI



Bottom Load

SIDE LOAD: DIRECTIONAL FLOW EITHER RIGHT OR LEFT. VALVE CANNOT BE TURNED OFF.

Description	Pipe Size	Opening Thru Ball	Part No.	Price
¾" 3-way side poly valve	¾"	1"	V075SL	57.80
1" 3-way side poly valve	1"	1"	V100SL	57.80
1-¼" 3-way side poly valve	1-¼"	1-½"	V125SL	74.74
1-½" 3-way side poly valve	1-½"	1-½"	V150SL	74.74
2" 3-way side poly valve	2"	2"	V200SL	114.07



Side Load

CHEMICAL NOZZLE WITH TRIGGER HANDLE

POLYPROPYLENE NOZZLE VALVES

Description	Pipe Size	Opening Thru Ball	Part No.	Price
Single union poly valve with angle hose E76	1"	1"	UVA100FP	40.07
Replacement nozzle pipe	—	—	V10161	13.66
Bolted valve full port with angle hose end	1-½"	1-½"	VA150	68.31
bolted valve-standard port with angle hose end	2"	1-½"	VA200/150	68.31
Bolted valve-standard port with angle hose end	2"	1-½"	VA200	68.31
Bolted valve full port with angle hose end	2"	2"	VA200FP	102.20
Poly nozzle valve	1"		VN100	72.87
Repair kit			VN10200	24.59

- Capacity to 40 GPM – 75 PSI maximum pressure
- Glass filled polypropylene resists corrosion
- Stainless handle, spring and pin
- Teflon pin bushing
- Viton rubber parts
- Padlock capability
- 1" FPT inlet



UVA100FP



VN100



VA200FP

CLAMP FLANGE VALVES

Description	Pipe Size	Opening Thru Ball	Part No.	Price
2" male adapter x C-flange	2"	1-1/2"	VSM200CF	60.64
2" male threads x 2" C-flange	2"	1-1/2"	VSF200CF	62.46
Clamps	—	—	FC200 (Banjo)	11.51

- Stainless steel bolts
- All teflon seats
- Glass-filled polypropylene
- Unique compact design
- Lightweight
- Clamp flange connection with EPDM gasket



ANSI FLANGE VALVES 2 IN. FULL PORT

Description	Pipe Size	Opening Thru Ball	Part No.	Price
2" male adapter x 2" ANSI flange	2"	2"	VSF200FPAF	177.20
2" male adapter x 2" ANSI flange	2"	2"	VSM200FPAF	177.20
2" ANSI flange gasket-EPDM	Sold Separately		AF200G	9.30

- Stainless steel bolts
- All teflon seats
- Glass-filled polypropylene
- Unique compact design
- Lightweight
- ANSI flange connection



STUBBY VALVE POLYPROPYLENE BOLTED BALL VALVES

STANDARD PORT MANIFOLD STUBBY VALVES

Description	Opening Thru Ball	Part No.	Price
2" male adapter x 2" female NPT	1-1/2"	VSF200	62.46
2" male NPT x 2" female NPT	1-1/2"	VSM200	62.46
2" male adapter x 2" male NPT	1-1/2"	VSFMT200	66.46

Additional flange fittings and valves available

- Standard Port**
- All teflon seats
 - Stainless steel bolts
 - Glass filled polypropylene
 - Multiple design options
 - Unique patented compact design
 - Lightweight
 - Maximum operating pressure: 100 PSI at 70° F, 75 PSI at 150° F
 - All PTFE seals



FULL PORT MANIFOLD STUBBY VALVES

Description	Opening Thru Ball	Part No.	Price
2" FP flange x 2" male NPT	2"	MVSMT220FP	75.39
3" FP flange x 3" FP flange	3"	MVS300CF	154.13

- Full Port**
- Stainless steel bolts
 - Glass filled polypropylene
 - Multiple design options
 - Unique patented compact design
 - Lightweight
 - Maximum operating pressure 100 PSI @ 70° F. 75 PSI. @ 150° F



FLANGE X FLANGE, FULL PORT STANDARD BALL VALVE

Description	Part No.	Price
1" x 1" flange ball valve	MV100CF	44.14
2" x 2" standard port flange ball valve	MV200CF	62.46
2" x 2" full port flange ball valve	MV220CF	83.25
3" x 3" full port flange ball valve	MV300CF	198.10

- FKM (viton type) seals
- PTFE self-lubricating stem bushings and seats cannot stick or bind
- Precision molded in polypropylene and reinforced with fiberglass for strength
- Self-aligning ball moves freely against the PTFE seats for smooth operation. The valve opens and closes with very little pressure on the handle
- Ball is diamond turned to make it spherically perfect, providing precise contact between ball and seats.





VALVES & POLYPROPYLENE ACCESSORIES

DRY-MATE POLYPROPYLENE DRY DISCONNECT

- Lightweight
- Unrestricted 1-1/2" flow
- Minimal fluid spillage
- Easy to use
- Economical
- Reduces the risk of exposure
- Wide range of chemical resistance
- Cannot be uncoupled in open position
- Swivel on female dry-mate



Description	Part No.	Price
1-1/2" male Dry-Mate	DM150A	234.43
1-1/2" female Dry-Mate	DM150D	250.59
2" male Dry-Mate	DM200A	234.43
2" female Dry-Mate	DM200D	250.59

POLYPROPYLENE 150 ANSI FLANGES

- Glass reinforced for stability, strength and durability
- Precision molded solid, one-piece construction
- 150 PSI maximum operating pressure



Description	Pipe Size	Part No.	Price
1" female thread	1"	AF100	13.37
1-1/2" female thread	1-1/2"	AF150	25.65
2" female thread	2"	AF200	29.92
3" female thread	3"	AF300	47.83
4" female thread	4"	AF400	101.07

POLYPROPYLENE VENT CAP

- 2" male NPT
- Glass reinforced polypropylene
- 304 stainless steel screen



Description	Part No.	Price
2" vent cap (without screen)	VC200	17.73
2" vent cap with 30 mesh screen	VC230	20.20
3" vent cap (without screen)	VC300	27.98
3" vent cap with 10 mesh screen	VC330	34.16

POLYPROPYLENE SWIVELS

- Teflon thrust bearing
- Viton O-rings
- Heavy duty reinforced polypropylene
- Hex flats
- Stainless steel drive stud
- 75 PSI maximum



Description	Part No.	Price
1" female x 1 male poly swivel	SW100	16.10
1-1/2" female x 1-1/2" male poly swivel	SW150	19.70
2" female x 2" male poly swivel	SW200	22.09

BANJO ELECTRIC VALVE

- 316 stainless steel ball
- Fiberglass reinforced polypropylene
- Teflon seats
- Viton O-rings
- Excellent chemical resistance
- Full flow-1"
- 3/4 sec. response time
- 12V DC operated
- 150 PSI maximum pressure
- Internally fused/automatic reset



Size	Part No.	Price
3/4"	EV075	468.39
1"	EV100FP	468.39
1-1/4"	EV125	468.39
1-1/2"	EV150	686.60
2"	EV200	686.60



Flanged

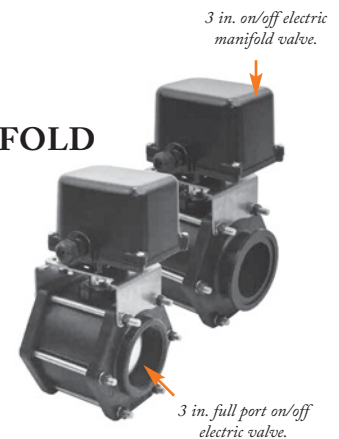


Threaded

Description	Part No.	Price
1-1/4" electric valve, GVM conn. threaded	02-00005	469.55
1-1/4" electric valve, GVM conn. M100 flanged	02-00061	440.99
Motor assembly only for 02-00005 & 02-00061 (without weather pak connectors)	EV3100	307.89

3 IN. FULL PORT THREADED & MANIFOLD ELECTRIC VALVES

- Stainless steel hardware
- Fiberglass reinforced polypropylene
- Glass reinforced PTFE seats
- FKM (viton type) or EPDM O-rings
- 12V DC operated
- 100 PSI maximum pressure at 70° F
- Internally fused/automatic reset



Description	Opening Thru Ball	Part No.	Price
3" full port electric valve, max. 100 PSI	3"	EV300FP	1976.24
3" full port electric valve, max. 150 PSI	3"	MEV300CF	1976.24

- Stainless steel rings, standard
- Rust proof: cam levers and pins made from 304 stainless steel and cannot rust or bind
- Versatile: interchangeable with all types of cam lever couplers
- Precision molded for a uniform & accurate fit

- Durable: polypropylene is glass filled for rugged strength and durability
- Smooth operating: finger rings are designed for easy opening of cam levers
- Complete series of 1/2", 3/4", 1", 1-1/4", 1-1/2", 2" and 3" NPT thread

- BSP threads available 1 - 3" sizes
- Operating conditions:
3/8" - 2" 100 PSI @ 0° F,
125 PSI @ 70° F, 70 PSI @ 150° F,
3" couplings 75 PSI max

MALE ADAPTER X FPT (STYLE A)

Size	Part No.	Price
3/4"	75A-3/4	5.27
1"	100A	5.27
1-1/4"	125A	5.27
1-1/2"	150A	5.98
1-1/2" x 1-1/4"	150-125A	5.97
2"	200A	7.05
3"	300A	17.04
4"	400A	26.00

FEMALE COUPLER X MPT (STYLE B)

Size	Part No.	Price
3/4"	75B-3/4	12.03
1"	100B	13.84
1-1/4"	125B	13.84
1-1/2"	150B	16.22
1-1/2" x 1-1/4"	150-125B	16.21
2"	200B	19.75
3"	300B	33.20
4"	400B	65.79

FEMALE COUPLER X BARB (STYLE C)

Size	Part No.	Price
3/4"	075C	12.04
1"	100C	13.84
1-1/4"	125C	13.84
1-1/2"	150C	16.22
1-1/2" x 1-1/4"	150-125C	16.21
2"	200C	19.75
3"	300C	33.20
4"	400C	65.79

FEMALE COUPLER X FPT (STYLE D)

Size	Part No.	Price
3/4"	075D	12.04
1"	100D	13.84
1-1/4"	125D	13.84
1-1/2"	150D	16.22
1-1/2" x 1-1/4"	150-125D	16.21
2"	200D	19.75
3"	300D	33.20
4"	400D	65.79

MALE ADAPTER X BARB (STYLE E)

Size	Part No.	Price
3/4"	075E	5.69
1"	100E	6.32
1-1/4"	125E	6.32
1-1/2"	150E	6.34
1-1/2" x 1-1/4"	150-125E	6.34
2"	200E	8.33
3"	300E	21.83
4"	400E	26.00

MALE ADAPTER X MPT (STYLE F)

Size	Part No.	Price
3/4"	075F	5.69
1"	100F	6.32
1-1/4"	125F	6.32
1-1/2"	150F	6.34
1-1/2" x 1-1/4"	150-125F	6.34
2"	200F	8.33
3"	300F	21.83
4"	400F	26.00

PLUG (STYLE DP)

Size	Part No.	Price
3/4"	75PL	5.69
1-1/4"	100-125PL	5.48
1-1/2"	150PL	6.12
2"	200PL	8.26
3"	300PL	17.31
4"	400PL	20.43

CAP (STYLE DCS)

Size	Part No.	Price
3/4"	075CAP	12.04
1-1/4"	100-125CAP	13.27
1-1/2"	150CAP	16.22
2"	200CAP	19.75
3"	300CAP	33.20
4"	400CAP	47.99

MALE ADAPTER X FPT (STYLE 90A)

Size	Part No.	Price
1-1/2"	150A-90	9.42
2"	200A-90	10.76

FEMALE COUPLER X BARB (STYLE 90C)

Size	Part No.	Price
1-1/2"	150C-90	19.42
2"	200C-90	24.12

FEMALE COUPLER X FPT (STYLE 90D)

Size	Part No.	Price
1-1/2"	150D-90	23.61
2"	200D-90	24.12

MALE ADAPTER X MPT (STYLE 90F)

Size	Part No.	Price
1-1/2"	150F-90	11.30
2"	200F-90	12.12

2 IN. POLYPROPYLENE 45° COUPLINGS

Description	Max PSI	Part No.	Price
2" male adapter-2" male thread	125	200F45	19.00

3 IN. MALE SPOOL ADAPTERS

Description	Max PSI	Part No.	Price
3" male x 2" male adapter	125	300F200F	43.48
3" male x 3" male adapter	125	300FF	43.48

3 IN. WITH 3 ARMS CAM LEVER COUPLINGS

- Adapts 3" male adapter down to 2" male adapter
- Stainless steel rings, arms & pins
- Glass filled polypropylene for strength & durability
- Standard with EPDM gasket. Buna "N" and FKM (viton type) available



Description	Max PSI	Gasket	Part No.	Price
3" female coupler with 3 arms x 2" male adapter	75	EPDM	303B200A	59.30

EPDM COUPLER REPLACEMENT PARTS

GASKETS

Size	Part No.	Price
3/4"	75G	.95
1" & 1-1/4"	100G	.95
1-1/2"	150G	1.01
2"	200G	1.07
3"	300G	1.46

EXTRA THICK GASKETS

Size	Part No.	Price
3/4"	075GXT	1.44
1"	100GXT	1.56
1-1/2"	150GXT	1.81
2"	200GXT	2.26
3"	300GXT	3.01

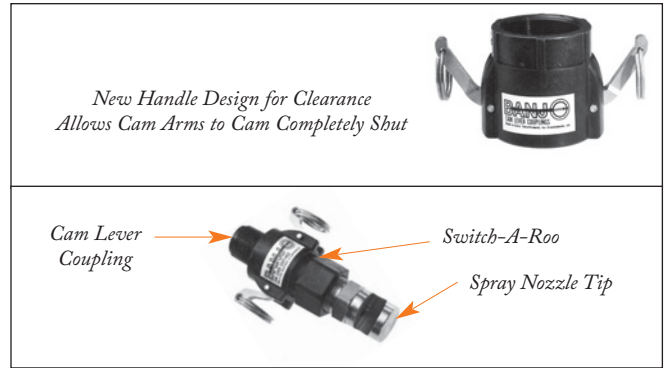


POLYPROPYLENE SWITCH-A-ROOS

- Fast, convenient method of changing spray nozzles
- Polypropylene (fiberglass reinforced) for high strength and toughness
- The female coupling is available in either 1/2" or 3/4" pipe thread and normally mounted on the spray boom
- Available with self-aligning grooves



Description	Part No.	Price
Female coupler 1/2" male thread	75B-1/2	12.04
Female coupler 3/4" male thread	75B-3/4	12.04
Male adapter 1/2" female thread	75A-1/2	5.27
Male adapter 3/4" female thread	75A-3/4	5.27
Male adapter 1/2" with self-aligning groove	75A-1/2SA	5.27
male adapter 1/4" female thread	75A-1/4	5.27
Male adapter 1/4" with self-aligning groove	75A-1/4SA	5.27
Male adapter 3/4" with self-aligning groove	75A-3/4SA	5.27
Male adapter 3/8" female thread	75A-3/8	5.27
Male adapter 3/8" with self-aligning groove	75A-3/8SA	5.27



STAINLESS STEEL CAM LEVER COUPLINGS

- Tough 316 stainless steel to ensure durability
- Chemical resistant to protect against corrosion
- Precision made, investment casting high quality process to assure uniformity and proper fit
- Versatile to interchange with all types of cam lever couplings

- Smooth operating to make connections quickly and easily
- Standard with Buna "N" gaskets. Viton and EPDM available.

Warning:
Couplings should not be operated under pressure or with liquid in the line.



MALE ADAPTER-FPT

Size	Part No.	Price
3/4"	075A/SS	64.89
1"	100A/SS	65.55
1-1/2"	150A/SS	67.02
2"	200A/SS	78.49
3"	300A/SS	160.67
4"	400A/SS	276.12



FEMALE COUPLER-MPT

Size	Part No.	Price
3/4"	075B/SS	98.59
1"	100B/SS	112.31
1-1/2"	150B/SS	136.47
2"	200B/SS	161.57
3"	300B/SS	304.37
4"	400B/SS	413.37



FEMALE COUPLER-HOSE SHANK

Size	Part No.	Price
3/4"	075C/SS	95.57
1"	100C/SS	98.50
1-1/2"	150C/SS	118.54
2"	200C/SS	145.17
3"	300C/SS	234.30
4"	400C/SS	382.71



FEMALE COUPLER-FPT

Size	Part No.	Price
3/4"	075D/SS	99.55
1"	100D/SS	107.32
1-1/2"	150D/SS	136.47
2"	200D/SS	149.86
3"	300D/SS	306.80
4"	400D/SS	414.61



MALE ADAPTER-HOSE SHANK

Size	Part No.	Price
3/4"	075E/SS	67.66
1"	100E/SS	66.28
1-1/2"	150E/SS	84.61
2"	200E/SS	90.41
3"	300E/SS	180.04
4"	400E/SS	356.85



MALE ADAPTER-MPT

Size	Part No.	Price
3/4"	075F/SS	72.59
1"	100F/SS	81.64
1-1/2"	150F/SS	103.78
2"	200F/SS	113.20
3"	300F/SS	223.50
4"	400F/SS	356.85



PLUG-FEMALE COUPLER

Size	Part No.	Price
3/4"	075PL/SS	66.28
1"	100PL/SS	70.97
1-1/2"	150PL/SS	70.40
2"	200PL/SS	82.35
3"	300PL/SS	152.61
4"	400PL/SS	230.92



CAP-MALE ADAPTER

Size	Part No.	Price
3/4"	075CAP/SS	98.59
1"	100CAP/SS	112.22
1-1/2"	150CAP/SS	127.57
2"	200CAP/SS	124.64
3"	300CAP/SS	182.48
4"	400CAP/SS	290.67

SCH 80 POLYPROPYLENE HOSE BARBS & FITTINGS

- Glass reinforced for stability, strength and toughness
- Hose barbs are molded specifically to fit properly into hoses
- Combination sizes available for elbows and straight barbs
- Excellent chemical resistance
- Pressure to 150 PSI @ 70°



STRAIGHT HOSE BARBS

Description	Part No.	Price
1/4" male thread x 1/4" hose shank	HB025	1.13
1/4" male thread x 3/8" hose shank	HB025-038	1.13
3/8" male thread x 3/8" hose shank	HB038	1.21
3/8" male thread x 1/2" hose shank	HB038-050	1.21
1/2" male thread x 3/8" hose shank	HB050-038	1.21
1/2" male thread x 1/2" hose shank	HB050	1.21
1/2" male thread x 3/4" hose shank	HB050-075	1.35
3/4" male thread x 3/8" hose shank	HB075-038	1.35
3/4" male thread x 1/2" hose shank	HB075-050	1.35
3/4" male thread x 5/8" hose shank	HB075-058	1.66
3/4" male thread x 3/4" hose shank	HB075	1.35
3/4" male thread x 1" hose shank	HB075-100	1.66
1" male thread x 3/4" hose shank	HB100-075	1.66
1" male thread x 1" hose shank	HB100	1.66
1" male thread x 1-1/4" hose shank	HB100-125	2.04
1-1/4" male thread x 3/4" hose shank	HB125-075	2.04
1-1/4" male thread x 1" hose shank	HB125-100	2.04
1-1/4" male thread x 1-1/4" hose shank	HB125	2.04
1-1/4" male thread x 1-1/2" hose shank	HB125-150	3.89
1-1/2" male thread x 1" hose shank	HB150-100	3.04
1-1/2" male thread x 1-1/4" hose shank	HB150-125	3.04
1-1/2" male thread x 1-1/2" hose shank	HB150	3.40
1-1/2" male thread x 2" hose shank	HB150-200	5.23
2" male thread x 1-1/2" hose shank	HB200-150	5.23
2" male thread x 2" hose shank	HB200	4.16
3" male thread x 3" hose shank	HB300	13.44
4" male thread x 4" hose shank	HB400	28.17

90° ELBOW HOSE BARBS



Description	Part No.	Price
1/4" male thread x 1/4" hose shank	HB025-90	1.35
3/8" male thread x 3/8" hose shank	HB038-90	1.35
1/2" male thread x 3/8" hose shank	HB050-038-90	1.35
1/2" male thread x 1/2" hose shank	HB050-90	1.35
1/2" male thread x 3/4" hose shank	HB050-075-90	1.35
3/4" male thread x 1/2" hose shank	HB075-050-90	1.70
3/4" male thread x 3/4" hose shank	HB075-90	1.70
3/4" male thread x 1" hose shank	HB075-100-90	1.70
1" male thread x 3/4" hose shank	HB100-075-90	2.18
1" male thread x 1" hose shank	HB100-90	2.18
1" male thread x 1-1/4" hose shank	HB100-125-90	2.68
1-1/4" male thread x 1" hose shank	HB-125-100-90	2.68
1-1/4" male thread x 1-1/4" hose shank	HB125-90	2.68
1-1/2" male thread x 1-1/4" hose shank	HB150-125-90	7.71
1-1/2" male thread x 1-1/2" hose shank	HB150-90	7.71
2" male thread x 1-1/2" hose shank	HB200-150-90	8.45
2" male thread x 2" hose shank	HB200-90	8.45
3" male thread x 3" hose shank	HB300-90	40.81



REDUCER COUPLING

Size	Part No.	Price
1" x 3/4"	RC100-075	6.01
1-1/2" x 1"	RC150-100	10.21
1-1/2" x 1-1/4"	RC150-125	10.21
2" x 1"	RC200-100	10.85
2" x 1-1/4"	RC200-125	10.85
2" x 1-1/2"	RC200-150	10.85
3" x 2"	RC300-200	38.52



PIPE COUPLING

Size	Part No.	Price
1/4"	CPLG025	3.61
3/8"	CPLG038	4.06
1/2"	CPLG050	4.06
3/4"	CPLG075	4.06
1"	CPLG100	4.62
1-1/4"	CPLG125	6.23
1-1/2"	CPLG150	10.36
2"	CPLG200	11.81
3"	CPLG300	33.42



STREET ELBOW 45°

Size	Part No.	Price
3/4"	SL075-45	6.40
1"	SL100-45	9.38
1-1/4"	SL125-45	11.61
1-1/2"	SL150-45	12.39
2"	SL200-45	14.69
3"	SL300-45	60.82



PIPE ELBOW 90°

Size	Part No.	Price
1/4"	EL025-90	3.16
3/8"	EL038-90	3.93
1/2"	EL050-90	3.55
3/4"	EL075-90	3.85
1"	EL100-90	4.54
1-1/4"	EL125-90	5.66
1-1/2"	EL150-90	8.89
2"	EL200-90	10.55
3"	EL300-90	53.68



STREET ELBOW 90°

Size	Part No.	Price
1/4"	SL025-90	3.16
3/8"	SL038-90	3.72
1/2"	SL050-90	3.72
3/4"	SL075-90	3.98
1"	SL100-90	4.70
1-1/4"	SL125-90	5.89
1-1/2"	SL150-90	9.16
2"	SL200-90	10.88
3"	SL300-90	55.37



CROSS

Size	Part No.	Price
1/4"	CR025	11.57
3/8"	CR038	12.70
1/2"	CR075	18.04
1"	CR100	18.04
1-1/4"	CR125	26.89
1-1/2"	CR150	26.89
2"	CR200	32.92



SCH 80 POLYPROPYLENE PIPE FITTINGS

- Reinforced polypropylene
- Heavy duty (Schedule 80)
- Lightweight with excellent strength



PIPE NIPPLE

Description	Part No.	Price
3/8" x short poly	NIP038-SH	1.19
1/2" x short poly	NIP050-SH	1.34
1/2" x 3" poly	NIP050-3	2.54
3/4" x short poly	NIP075-SH	1.71
3/4" x 4" poly	NIP075-4	2.66
3/4" x 6" poly	NIP075-6	3.11
1" x short poly	NIP100-SH	1.98
1" x 4" poly	NIP100-4	2.81
1" x 6" poly	NIP100-6	3.50
1-1/4" x short poly	NIP125-SH	1.98
1-1/4" x 4" poly	NIP125-4	3.50
1-1/4" x 6" poly	NIP125-6	3.98
1-1/2" x short poly	NIP150-SH	3.64
1-1/2" x 3" poly	NIP150-3	4.49
1-1/2" x 4" poly	NIP150-4	7.48
1-1/2" x 4" poly	NIP150-5	8.37
1-1/2" x 6" poly	NIP150-6	8.80
2" x short poly	NIP200-SH	6.36
2" x 4" poly	NIP200-4	8.70
2" x 6" poly	NIP200-6	10.15
3" x short poly	NIP300-SH	12.94
3" x 4" poly	NIP300-4	19.43
3" x 6" poly	NIP300-6	25.06
4" x short poly	NIP400-SH	20.13

- NPT threads
- Excellent chemical resistance
- Pressure to 150 PSI @ 70° F



REDUCER BUSHING

Size	Part No.	Price
3/8" x 1-1/4"	RB038-025	2.66
1/2" x 1/4"	RB050-025	2.66
1/2" x 3/8"	RB050-038	2.66
3/4" x 1/8"	RB075-018	2.66
3/4" x 1/4"	RB075-025	2.66
3/4" x 3/8"	RB075-038	2.66
3/4" x 1/2"	RB075-050	2.66
1" x 1/8"	RB100-018	2.81
1" x 1/4"	RB100-025	2.81
1" x 1/2"	RB100-050	2.81
1" x 3/4"	RB100-075	2.81
1-1/4" x 3/4"	RB125-075	2.81
1-1/4" x 1"	RB125-100	2.81
1-1/2" x 3/4"	RB150-075	3.72
1-1/2" x 1"	RB150-100	3.72
1-1/2" x 1-1/4"	RB150-125	3.72
2" x 3/4"	RB200-075	4.06
2" x 1"	RB200-100	4.06
2" x 1-1/4"	RB200-125	4.06
2" x 1-1/2"	RB200-150	4.06
3" x 1-1/2"	RB300-150	16.90
3" x 2"	RB300-200	16.90
4" x 3"	RB400-300	26.21



REDUCER NIPPLE

Size	Part No.	Price
1/2" x 3/8"	RN050-038	2.02
3/4" x 1/2"	RN075-050	2.16
1" x 1/2"	RN100-050	2.78
1" x 3/4"	RN100-075	2.54
1-1/4" x 3/4"	RN125-075	2.93
1-1/4" x 1"	RN125-100	2.66
1-1/2" x 1"	RN150-100	3.14
1-1/2" x 1-1/4"	RN150-125	2.81
2" x 1-1/4"	RN200-125	3.85
2" x 1-1/2"	RN200-150	3.12
3" x 2"	RN300-200	12.88



HOSE BARB TEE

Size	Part No.	Price
1/4"	HBT025	1.81
3/8"	HBT038	1.81
1/2" x 1/2" x 3/8"	HBT050-038	2.35
1/2"	HBT050	2.35
1/2" x 1/2" x 3/4"	HBT050-075	2.35
3/4" x 3/4" x 1/2"	HBT075-050	2.35
3/4"	HBT075	2.35
3/4" x 3/4" x 1"	HBT075-100	2.40
1" x 1" x 3/4"	HBT100-075	2.47
1"	HBT100	2.47
2"	HBT200	10.29
3"	HBT300	28.59

PIPE CAP

Size	Part No.	Price
1/4"	CAP025	2.43
3/8"	CAP038	2.60
1/2"	CAP050	5.45
3/4"	CAP075	5.45
1"	CAP100	5.45
1- 1/4"	CAP125	6.12
1-1/2"	CAP150	7.71
2"	CAP200	8.95
3"	CAP300	32.02



HOSE BARB TEE

Size	Part No.	Price
1-1/2" hose barb x 1" male thread	HBEL150/100-90	20.64

PIPE PLUG

Size	Part No.	Price
1/4"	PLUG025	2.26
3/8"	PLUG038	2.43
1/2"	PLUG050	2.81
3/4"	PLUG075	2.81
1"	PLUG100	2.81
1-1/4"	PLUG125	2.81
1-1/2"	PLUG150	4.49
2"	PLUG200	4.49
3"	PLUG300	17.70



HOSE BARB ELBOW

Description	Part No.	Price
1" poly, 90°	HBEL-100-90	2.26



HOSE MENDER (Hose Barb x Hose Barb)

Size	Part No.	Price
1/2"	HM-050	1.27
3/4"	HM-075	1.39
1"	HM-100	1.52
1-1/4"	HM-125	1.91
1-1/2"	HM-150	3.39
2"	HM-200	4.27
3"	HM-300	13.33



PIPE TEE

Size	Part No.	Price
1/4"	TEE025	3.79
3/8"	TEE038	3.92
1/2"	TEE050	4.12
3/4"	TEE075	4.42
1"	TEE100	6.38
1-1/4"	TEE125	7.36
1-1/2"	TEE150	10.55
2"	TEE200	13.15
3"	TEE300	62.65

BANJO 8-WAY MANIFOLD

3/4" inlet - 1/2" outlet,
1/4" gauge port
Maximum PSI 100 lb, poly



Description	Part No.	Price
8 hole manifold	TM075/050	32.90

FLANGED PIPE FITTINGS

FLANGED COUPLINGS



Description	Part No.	Price
1" x 1" flange	M100CPG	4.92
2" x 2" standard port flange	M200CPG	12.94
2" x 2" full port flange	M220CPG	14.54
3" x 3" flange	M300CPG	17.13

FLANGED COUPLINGS - 90° ELBOW



Description	Part No.	Price
1" x 1" flange 90°	M100CPG90	6.87
2" x 2" standard port flange	M200CPG90	11.47
2" x 2" standard port flange, 90° short	M200CPG90SH	11.47
2" x 2" full port flange	M220CPG90	11.47
3" x 3" flange, 90°	M300CPG90	54.53

FLANGED COUPLINGS - 45° ELBOW



Description	Part No.	Price
1" flange x 45°	M100CPG45	10.19
2" flange x 45°	M200CPG45	13.24
2" FP flange x 45°	M220CPG45	15.94
3" flange x 45°	M300CPG45	65.21

FLANGED REDUCER COUPLINGS



Description	Part No.	Price
2" standard port x 1" reducer flange	M200100CPG	14.69
2" full port x 2" standard port reducer flange	M220200CPG	14.69
3" x 2" standard port reducer flange	M300200CPG	34.27
3" x 2" full port reducer flange	M300220CPG	34.27

FLANGED TEE



Description	Part No.	Price
1" flanged tee	M100TEE	6.31
1" flanged tee long	M101TEE	6.31
2" standard port x 1" flanged tee	M200100TEE	12.72
2" standard port flanged tee	M200TEE	13.28
2" full port flanged tee	M220TEE	13.28
3" flanged tee	M300TEE	62.58

FLANGED X FEMALE NPT THREAD



Description	Part No.	Price
1" x 1/2" pipe thread	M100050FPT	2.10
1" flange x 3/4" pipe thread	M100075FPT	2.10
1" flange x 1" pipe thread	M100FPT	2.10
2" standard port flange x 2" pipe thread	M200FPT	12.59
2" FP flange x 2" pipe thread	M220FPT	22.31
3" flange x 3" pipe thread	M300FPT	35.23

FLANGE X HOSE BARB - 90° ELBOW



Description	Part No.	Price
1" flange x 3/4" hose barb	M100075BRB90	2.21
1" flange x 1" hose barb	M100BRB90	2.21
1" flange x 1-1/4" hose barb	M100125BRB90	2.21
2" standard port flange x 1" hose barb	M200100BRB90	9.10
2" standard port flange x 1-1/4" hose barb	M200125BRB90	9.10
2" standard port flange x 1-1/2" hose barb	M200150BRB90	9.10
2" standard port flange x 2" hose barb	M200BRB90	9.10
2" full port flange x 1-1/2" hose barb	M220150BRB90	9.10
2" full port flange x 2" hose barb	M220BRB90	9.10
3" x flange x 2" hose barb	M300220BRB90	15.02
3" flange x 3" hose barb	M300BRB90	40.18

FLANGE X FEMALE QDC

Description	Part No.	Price
2" full port flange x 2" female coupler	M220D	22.20

FLANGE X HOSE BARB



Description	Part No.	Price
1" flange x 3/4" hose barb	M100075BRB	1.83
1" flange x 1" hose barb	M100BRB	1.83
1" flange x 1-1/4" hose barb	M100125BRB	1.83
2" standard port flange x 1" hose barb	M200100BRB	4.92
2" standard port flange x 1-1/4" hose barb	M200125BRB	5.59
2" standard port flange x 1-1/2" hose barb	M200150BRB	4.92
2" standard port flange x 2" hose barb	M200BRB	4.92
2" full port flange x 1-1/2" hose barb	M220150BRB	4.92
2" full port flange x 2" hose barb	M220BRB	4.92
3" flange x 2" hose barb	M300220BRB	15.12
3" flange x 3" hose barb	M300BRB	15.02

U BOLTS



Description	Part No.	Price
100 Series mounting U bolt	UB100	7.71
200 Series mounting U bolt	UB202	24.21

FLANGE X MALE QDC



Description	Part No.	Price
1" manifold flange x 1" male adapter	M100A	5.98
2" manifold flange x 2" male adapter	M200A	7.99
2" FP manifold flange x 2" male adapter	M220A	8.80
3" FP manifold flange x 3" male adapter	M300A	18.73

M100: 2 in. across flange
M200: 3 in. across flange

M220: 3-3/8 in. across flange
M300: 4-5/8 in. across flange

FLANGED PIPE FITTINGS

FLANGE X NPT THREAD POLY



Description	Part No.	Price
1" flange x 3/4" male thread	M100075MPT	2.10
1" flange x 1" male thread	M100MPT	2.10
1" flange x 1-1/4" male thread	M100125MPT	2.10
2" standard port flange x 1-1/4" male thread	M200125MPT	4.34
2" standard port flange x 1-1/2" male thread	M200150MPT	4.34
2" standard port flange x 2" male thread	M200MPT	4.34
2" full port flange x 2" male thread	M220MPT	4.34
3" flange x 3" male thread	M300MPT	13.28

FLANGE X MALE NPT THREAD - 316 SS



Description	Part No.	Price
1" flange x 1" male thread	M100MPTSS	23.54
2" standard port flange x 1-1/4" male thread	M200125MPTSS	36.81
2" standard port flange x 1-1/2" male thread	M200150MPTSS	36.81
2" standard port flange x 2" male thread	M200MPTSS	46.60
2" full port flange x 1-1/2" male thread	M220150MPTSS	53.48
2" full port flange x 2" male thread	M220MPTSS	53.48
3" flange x 3" male thread	M300MPTSS	98.72

FLANGED X SOCKET WELD - 316 SS



Description	Part No.	Price
1" flange x 1" socket weld fitting	M100SWFSS	23.54
2" FP flange x 2" socket weld fitting	M220SWFSS	70.67
3" flange x 3" socket weld fitting	M300SWFSS	117.75

FLANGE PLUGS



Description	Part No.	Price
1" flange plug	M100PLG	2.10
2" standard port flange plug	M200PLG	4.34
2" full port flange plug	M220PLG	5.51
3" flange plug	M300PLG	14.69
1" flange plug w/ 1/4" FPT	M100PLG025	11.18
2" standard port flange plug w/ 1/8" FPT	M200PLG018	13.15
2" standard port flange plug w/ 1/4" FPT	M200PLG025	13.15
2" standard port flange plug w/ 3/8" FPT	M200PLG038	13.15
2" standard port flange plug w/ 1/2" FPT	M200PLG050	13.15
2" standard port flange plug w/ 3/4" FPT	M200PLG075	13.15
2" standard port flange plug w/ 1" FPT	M200PLG100	13.15

FLANGED CROSS



Description	Part No.	Price
1" flanged cross	M100CR	18.51
2" standard port flanged cross	M200CR	33.20
2" full port flanged cross	M220CR	33.20
3" flanged cross	M300CR	73.44

BOLTED FLANGED TANK FITTINGS



Description	Part No.	Price
2" standard port flange x 2" female thread EPDM	MBF200V	127.02
2" full port flange x 2" female thread EPDM	MBF220V	155.23

FLANGE CLAMPS & GASKETS



Description	Part No.	Price
100 Series worm screw clamp	FC100	9.99
200 Series standard worm screw clamp	FC200	11.51
220 Series full port worm screw clamp	FC220	12.64
300 Series worm screw clamp	FC300	17.42
100 Series EPDM gasket	M100G	2.10
100 Series viton gasket	M100GV	5.59
200 Series standard port EPDM gasket	150G	1.01
200 Series standard port viton gasket	150GV	11.16
220 Series full port gasket EPDM	200G	1.07
220 Series full port gasket viton	200GV	18.99
300 Series EPDM gasket	300G	1.46
300 Series viton gasket	300GV	23.74

2 IN. MANIFOLD Y LINE STRAINERS (M200 FLANGED)



Description	Part No.	Price
Y strainer w/ 20 mesh screen	MLS200-20	88.22
Y strainer w/ 30 mesh screen	MLS200-30	88.22
Y strainer w/ 50 mesh screen	MLS200-50	88.22
Y strainer w/ 80 mesh screen	MLS200-80	88.22
Y strainer w/ 100 mesh screen	MLS200-100	88.22
Y strainer w/ 120 mesh screen	MLS200-120	88.22

2 IN. FULL PORT MANIFOLD Y LINE STRAINERS



Description	Part No.	Price
Y strainer w/ 4 mesh screen	MLS222-04	134.66
Y strainer w/ 8 mesh screen	MLS222-08	134.66
Y strainer w/ 10 mesh screen	MLS222-10	134.66
Y strainer w/ 16 mesh screen	MLS222-16	134.66
Y strainer w/ 30 mesh screen	MLS-222-30	134.66
Y strainer w/ 50 mesh screen	MLS222-50	134.66
Y strainer w/ 80 mesh screen	MLS222-80	134.66
Y strainer w/ 100 mesh screen	MLS222-100	134.66

M100: 2 in. across flange
M200: 3 in. across flange

M220: 3-3/8 in. across flange

POLYETHYLENE & NYLON FITTINGS



HOSE BARB FITTING

Description	Part No.	Price
1/4" FPT x 1/4" FPT x 1/4" FPT	TT14	3.64

Stainless steel fittings are available upon request.



AGITATOR & AGITATOR TEE

Description	Part No.	Price
3/4" MPT x 3/4" MPT	T10-VHPP	5.06
3/4" MPT x 3/4" MPT x 3/4" FPT	T34TEPP	5.49



HOSE BARB FITTING

Description	Part No.	Price
1/8" MPT x 1/4" HB	A1814	.48
1/8" MPT x 3/8" HB	A1838	.50
1/4" MPT x 3/8" HB	A1438	.52
1/4" MPT x 1/2" HB	A1412	.52
3/8" MPT x 1/4" HB	A3814	.51
3/8" MPT x 1/4" HB	A3812	.55
3/8" MPT x 5/8" HB	A3858	.57
1/2" MPT x 1/4" HB	A1214	.56
1/2" MPT x 5/8" HB	A1258	.59
1/2" MPT x 1" HB	A12100	1.83
3/4" MPT x 1/4" HB	A3414	.70
3/4" MPT x 3/8" HB	A3438	.63
1-1/4" MPT x 1-1/2" HB	A114112	2.10



HOSE BARB ELBOW

Description	Part No.	Price
1/8" MPT x 1/4" HB	EL1814	1.23
1/8" MPT x 3/8" HB	EL1838	.89
1/4" MPT x 3/8" HB	EL1438	.81
1/4" MPT x 1/2" HB	EL1412	.84
3/8" MPT x 1/4" HB	EL3814	.85
3/8" MPT x 1/2" HB	EL3812	.89
3/8" MPT x 5/8" HB	EL3858	.95
1/2" MPT x 1/4" HB	EL1214	.92
1/2" MPT x 5/8" HB	EL1258	1.04
1/2" MPT x 1" HB	EL12100	1.89
3/4" MPT x 1/4" HB	EL3414	1.03
3/4" MPT x 3/8" HB	EL3438	1.11
1" MPT x 1/2" HB	EL10012	1.89
1-1/4" MPT x 3/4" HB	EL11434	4.58
1-1/4" MPT x 1-1/2" HB	EL114112	6.42



HOSE MENDER ELBOW

Description	Part No.	Price
1/4" HB x 1/4" HB	EL14HB	.83
3/8" HB x 3/8" HB	EL38HB	.83
1/2" HB x 1/4" HB	EL1214HB	.83
1/2" HB x 3/8" HB	EL1238HB	.82
1/2" HB x 1/2" HB	EL12HB	.85
5/8" HB x 5/8" HB	EL58HB	.89
3/4" HB x 3/4" HB	EL34HB	1.04
1" HB x 1" HB	EL100HB	1.98
1-1/4" HB x 1-1/4" HB	EL114HB	4.60
1-1/2" HB x 1-1/2" HB	EL112HB	4.82
2" HB x 2" HB	EL200HB	7.35



CLOSE NIPPLE

Description	Part No.	Price
1/8" MPT x 1/8" MPT	M18	.54
1/4" MPT x 1/4" MPT	M14	.52
3/8" MPT x 3/8" MPT	M38	.54



HOSE MENDER & REDUCING MENDER

Description	Part No.	Price
1/8" HB x 1/8" HB	HM18	.51
1/4" HB x 1/4" HB	SHM14	.49
3/8" HB x 3/8" HB	SHM38	.51
1/2" HB x 1/2" HB	SHM12	.54
5/8" HB x 5/8" HB	SHM58	.63
3/4" HB x 3/4" HB	SHM34	.82
1" HB x 1" HB	SHM100	1.09
3/8" HB x 1/4" HB	HM3814	.52
1/2" HB x 1/4" HB	HM1214	.55
1/2" HB x 3/8" HB	SHM1238	.62
5/8" HB x 3/8" HB	HM5838	.62
1-1/4" HB x 1-1/4" HB	SHM114	1.83
1-1/2" HB x 1-1/2" HB	SHM112	3.16
2" HB x 2" HB	SHM200	11.24



45° STREET ELBOW

Description	Part No.	Price
1/4" FPT x 1/4" MPT	SEQ44	10.45
3/4" FPT x 3/4" MPT	SE3445	3.12



90° STREET ELBOW

Description	Part No.	Price
1/4" FPT x 1/4" MPT	SE14	2.26



TEE WITH GAUGE OPENING

Description	Part No.	Price
3/4" w/ 1/4" opening	TT124	12.87
1" x 1-1/4"	TT164	10.21
1-1/2" x 1/4"	TT244	14.55



HOSE BARB TEE

A x B x C	Part No.	Price
1/8" x 1/8" x 1/8"	T18	1.00
1/4" x 1/4" x 1/4"	T14	.84
1/4" x 3/8" x 3/8"	T1438	.89
1-1/4" x 1/2" x 1/2"	TT9488	.92
3/8" x 3/8" x 3/8"	T38	.89
3/8" x 1/2" x 1/2"	T3812	.92
1/2" x 3/8" x 3/8"	T1238	.92
1/2" x 1/2" x 1/2"	T12	.94
5/8" x 5/8" x 5/8"	T58	.95
3/4" x 3/4" x 3/4"	T34	1.09
1-1/4" x 1-1/4" x 1-1/4"	T114	3.30
1-1/2" x 1-1/2" x 1-1/2"	T112	4.16
2" x 2" x 2"	T200	18.74



HEX PLUG

Description	Part No.	Price
1/8" MPT	F18	.48
1/4" MPT	F14	.49
3/8" MPT	F38	.54



REDUCING BUSHING

Description	Part No.	Price
3/8" MPT x 1/8" FPT	RB3818	1.04
3/8" MPT x 1/4" FPT	RB3814	1.04
3/4" MPT x 1/8" FPT	RB3418	1.45

GARDEN HOSE FITTINGS



**MALE GARDEN HOSE
THREAD BY HOSE BARB**

Description	Part No.	Price
3/4" x 1/4"	D3414	.67
3/4" x 3/8"	D3438	.71
3/4" x 1/2"	D3412	.70
3/4" x 5/8"	D3458	.63
3/4" x 3/4"	D34	.67
3/4" x 1"	D34100	1.89



**MALE GARDEN HOSE ADAPTER
THREAD BY FEMALE PIPE THREAD**

Description	Part No.	Price
3/4" x 1/2"	G3412	2.17
3/4" x 1/4"	G3414	2.27
3/4" x 3/4"	G34	2.10



**FEMALE GARDEN HOSE
SWIVEL NUT-KNURLED**

Size	Part No.	Price
3/4"	B34	.56



**MALE GARDEN HOSE ADAPTER
COUPLING THREAD BY MALE
PIPE THREAD**

Description	Part No.	Price
3/4" x 3/8"	E3438	.68
3/4" x 1/2"	E3412	.70
3/4" x 3/4"	E34	.68



**FEMALE GARDEN HOSE ADAPTER
THREAD BY MALE GARDEN
HOSE THREAD**

Description	Part No.	Price
3/4" x 3/4"	I34	2.10



WASHERS

Description	Part No.	Price
1" x 3/4" black vinyl	W406V	.12
1" x 5/8" SS filter 50/60 mesh	W160M	.39



**FEMALE GARDEN HOSE ADAPTER
THREAD BY FEMALE PIPE THREAD**

Description	Part No.	Price
3/4" x 1/2"	J3412	2.10



**FEMALE GARDEN HOSE
CAP-KNURLED**

Size	Part No.	Price
3/4"	N34	.84



**FEMALE THREAD SWIVEL HEX-NUT,
BARB INSERT WITH BALL SEAT**

Description	Part No.	Price
1/4" HB, barb only	NC14	.40
3/8" HB, barb only	NC38	.46
1/2" HB, barb only	NC12	.51
1/4" HB, nut only	NC14N*	.50
3/8" HB, nut only	NC38N*	.73
1/2" HB, nut only	NC12N*	.63



**FEMALE GARDEN HOSE ADAPTER
THREAD BY MALE PIPE THREAD**

Description	Part No.	Price
3/4" x 3/4"	H34	2.10



**FEMALE PIPE STRAIGHT
SWIVEL NUT-HEX**

Size	Part No.	Price
3/4"	B35	.73
1"	B100	3.45



FLAT SEAL HOSE BARB

Size	Part No.	Price
1/4"	C14	.46
3/8"	C38	.50
1/2"	C12	.51
5/8"	C58	.56
3/4"	C34	.49
1"	C100	1.03

CHECK VALVES & SUCTION STRAINERS

SUCTION STRAINERS

The use of Suction Strainers on suction line when drawing from streams or ponds will help prevent plugging and damage to pump.

Size	Part No.	Price
1-1/2"	TSS20	14.24
2"	TSS25	14.24
3"	TSS35	30.39



PAINTED SUCCTION STRAINER

Size	Part No.	Price
2"	DFVS25	59.24
3"	DFVS35	87.12



STRAINER ASSEMBLY W/ FOOT VALVE



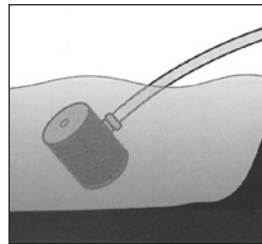
Hose Barb
2" FPT x 2" hose barb
Part No. 100750



Foot Valve
2" MPT x 2" FPT
Part No. 504019



T Strainer. 4" x 7",
2" MPT
Part No. 304371



Description	Part No.	Price
2" foot valve	504019	51.47
T-strainer	304371	50.57
2" hose barb	100750	6.35

STAINLESS STEEL CHECK VALVES

- Solid 304 stainless steel body construction
- Corrosion resistant materials stainless steel poppet, spring, and lock nut
- Abrasion resistant neoprene O-ring fitted to poppet for positive seal
- 1 lb stainless steel spring: 200 PSI rating



Description	Part No.	Price
1/2" FPT x 1/2" FPT	949-430	29.09
3/4" FPT x 3/4" FPT	949-431	37.88
1" FPT x 1" FPT	949-432	51.52
1-1/4" FPT x 1-1/4" FPT	949-433	68.98
1-1/2" FPT x 1-1/2" FPT	949-434	98.48
2" FPT x 2" FPT	949-435	159.09
3" FPT x 3" FPT	949-436	642.42

HUDSON VALVE

Hudson Valve maintains fluid level in various applications, replacing ball float valves. It operates using a patented float system. The fluid level forces a float to rise and close the diaphragm chamber, the diaphragm then expands to stop the incoming flow. When the fluid level drops, the diaphragm escape is opened. The diaphragm empties and allows the fluid to fill the tank. This positive shut-off feature allows full flow until the valve closes. The valve body is made of durable glass fiber nylon 6/6 and is vented to eliminate siphoning. Internal parts are of ABS plastic, EPDM ethylene propylene rubber and stainless steel. The valve is resilient to freezing. The Hudson Valve is fully guaranteed for two years when used under normal circumstances for the control of water in tanks and troughs.

- Thread female: 1"
- Height: 5"
- Diameter: 3.75"
- Operating pressure: 8-140 lb
- Maximum temperature: 90° F
- Flow rate 80% of flow supplied to valve cap



Description	Part No.	Price
Standard Hudson valve	V	60.30

PVC IN-LINE CHECK VALVES

Legend Models. PVC in-line check valves are entirely constructed of plastic and stainless steel materials to ensure corrosion resistance. They give positive back flow prevention with the use of a spring loaded PVC poppet and may be used in any position

- Maximum service temperature: 140° F
- Pressure rating: 150 PSI,
1/2 lb 316 SS spring



Model T-611

Description	Part No.	Price
1/2" x FPT x 1/2" FPT	210-303	6.33
3/4" FPT x 3/4" FPT	210-304	7.06
1" FPT x 1" FPT	210-305	9.94
1-1/4" FPT x 1-1/4" FPT	210-306	15.30
1-1/2" FPT x 1-1/2" FPT	210-307	13.45
2" FPT x 2" FPT	210-308	15.56

ADJUSTABLE CHECK VALVES

Description	Part No.	Price
Check valve adjustable 1/2" PVC	1205-05	25.05
Check valve adjustable 1" PVC	1205-10	31.96
Check valve adjustable 1-1/2" PVC	1205-15	41.82
Check valve adjustable 2" PVC	1205-20	69.94

BUTTERFLY VALVES, FLANGES & AIR ACTUATORS

CENTER LINE VALVE

Center Line valves feature a cast-iron body, a stainless steel stem and disc and EPDM seats. Handles may be positioned at 10 different stops. They are recommended for both liquid fertilizers and herbicides.

Series A-Long Neck *(pictured to the right)*

Series F-Short Neck



AIR ACTUATOR

Part No. TCI40DAPrice: \$506.21



STAINLESS STEEL BOLTS

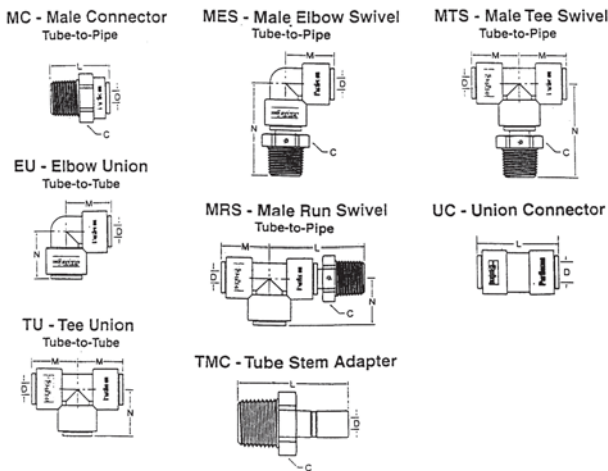
Description	Part No.	Price
5/8" x 3 bolt	1XCC5830	7.09
5/8" x 3-1/2 bolt	1XCC58312	7.72
5/8" x 4-1/2 bolt	1XCC58412	11.03
5/8" x 5 bolt	1XCC5850	11.03
5/8" x 5-1/2 bolt	1XCC58512	11.02
5/8" nut	1XNC58	1.89
5/8" lock washer	1LWM58	.84
5/8" flat washer	1FWU58	1.26

BUTTERFLY VALVES *(handles sold separately)*

Description	Part No.	Price
2" bare stem	02-A-104435X	142.24
3" bare stem	03-A-104435X	187.70
Handle for 2" & 3"	1DI-T026A	61.42
4" Bare stem	04-A-104435X	260.09
Handle for 4"	1DI-T026B	61.42

EPDM REPLACEMENT SEATS

Description	Part No.	Price
2" seats	104-37660-PE	61.97
3" seats	104-37659-PE	72.21
4" seats	104-37658-PE	98.52



AIR LINE CONNECTORS

Description	Size	Part No.	Price
Male connector	1/4" tube x 1/8" NPT	A4MC2	1.92
Male connector	1/4" tube x 1/4" NPT	A4MC4	2.21
Elbow union	1/4" x tube 1/4" tube	A4EU4	3.26
Tee union	1/4" x tube 1/4" tube	A4TU4	5.75
Male elbow	1/4" tube x 1/4" NPT	A4ME4	6.75
Male elbow swivel	1/4" tube x 1/8" NPT	A4MES2	4.67
Male elbow swivel	1/4" tube x 1/4" NPT	A4MES4	4.25
Male run swivel	1/4" tube x 1/8" NPT	A4MRS2	5.72
Male run swivel	1/4" tube x 1/4" NPT	A4MRS4	5.56
Male tee swivel	1/4" tube x 1/8" NPT	A4MTS2	5.72
Male tee swivel	1/4" tube x 1/4" NPT	A4MTS4	5.72
Union connector	1/4" tube x 1/4" tube	A4UC4	2.86
Tube stem adapter	1/4" fitting x 1/8" NPT	A4TMC2	.99
Tube stem adapter	1/4" fitting x 1/4" NPT	A4TMC4	1.35
1/4" tubing-black		64441 NYC	.25

FORGED STEEL FLANGES

Description	Size	Part No.	Price
2" threaded-4 bolt	5/8" x 4-1/2"	AF200-FS	42.96
2" slip-4 bolt	5/8" 4-1/2"	AFS200-FS	34.42
2" blind-4 bolt	5/8" x 3"	AFB200-FS	34.49
3" threaded-4 bolt	5/8" x 5" or 5/8" x 5-1/2"	AF300-FS	61.51
3" slip-4 bolt	5/8" x 5" or 5/8" x 5-1/2"	AFS300FS	38.88
3" blind-4 bolt	5/8" x 3"	AFB300-FS	42.61
4" threaded-8 bolt	5/8" x 5-1/2"	AF400-FS	64.21
4" slip-8 bolt	5/8" x 5-1/2"	AFS400-FS	120.17
4" blind-8 bolt	5/8" x 3-1/2"	AFB400-FS	42.78

**Bolts to use would include a valve between threaded and slip flanges and no valve between blind flanges.*

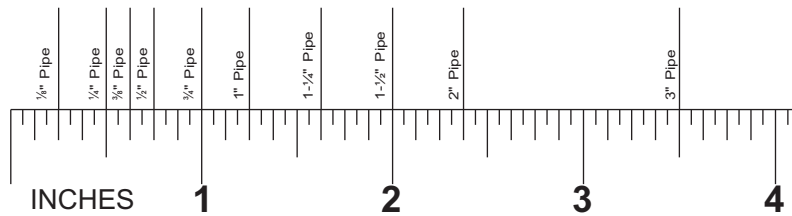
COMPANION FLANGE GASKETS

Description	Part No.	Price
Gasket flange 2" EPDM	AF200G	9.30
Gasket flange 2" Viton	AF200GV	90.84
Gasket flange 3" EPDM	AF300G	10.40
Gasket flange 3" Viton	AF300GV	119.93
Gasket flange 4" EPDM	AF400G	12.88
Gasket flange 4" Viton	AF400GV	54.48

PIPE & PIPE FITTINGS

A common error made when sizing threaded fittings occurs whenever a ruler or tape measure is used. Pipe sizes must be measured by a pipe size scale (see illustration to right).

PIPE SIZING SCALE



MANY PIPE FITTINGS SHOWN ARE AVAILABLE FROM STOCK IN BLACK IRON AND STAINLESS STEEL. SIZES RANGE FROM 1/8 IN. TO 6 IN. SPECIAL ORDER-SCH. 80 FORGED STEEL AVAILABLE.

SCHEDULE 40 BLACK IRON FITTINGS



45° ELBOW

Description	Part No.	Price
1/4"	EL025-45-BI	5.91
3/8"	EL038-45-BI	3.91
1/2"	EL050-45-BI	4.66
3/4"	EL075-45-BI	5.69
1"	EL100-45-BI	7.25
1-1/4"	EL125-45 BI	12.65
1-1/2"	EL150-45 BI	12.65
2"	EL200-45-BI	24.72
3"	EL300-45-BI	99.19
4"	EL400-45-BI	122.79



45° STREET ELBOW

Description	Part No.	Price
1/4"	SL025-45-BI	7.00
3/8"	SL038-45-BI	9.61
1/2"	SL050-45-BI	6.39
3/4"	SL075-45-BI	10.81
1"	SL100-45-BI	12.59
1-1/4"	SL125-45-BI	19.72
1-1/2"	SL150-45-BI	17.09
2"	SL200-45-BI	25.59



CROSS

Description	Part No.	Price
1/4"	CR025-BI	8.57
3/8"	CR038-BI	8.73
1/2"	CR050-BI	9.92
3/4"	CR075-BI	17.33
1"	CR100-BI	21.33
1-1/4"	CR125-BI	34.64
1-1/2"	CR150-BI	42.91
2"	CR200-BI	72.30
3"	CR300-BI	249.67
4"	CR400-BI	785.36



HALF COUPLING

Description	Part No.	Price
1/4"	1/2CPLG025-BI	3.60
3/8"	1/2CPLG038-BI	4.32
1/2"	1/2CPLG050-BI	4.32
3/4"	1/2CPLG075-BI	4.92
1"	1/2CPLG100-BI	6.86
1-1/4"	1/2CPLG125-BI	8.79
1-1/2"	1/2CPLG150-BI	11.10
2"	1/2CPLG200-BI	15.91
3"	1/2CPLG300-BI	53.33
4"	1/2CPLG400-BI	94.55



TEE

Description	Part No.	Price
1/4"	TEE025-BI	5.76
3/8"	TEE038-BI	6.52
1/2"	TEE050-BI	3.74
3/4"	TEE075-BI	5.27
1"	TEE100-BI	9.29
1-1/4"	TEE125-BI	15.09
1-1/2"	TEE150-BI	18.78
2"	TEE200-BI	31.88
3"	TEE300-BI	65.59
4"	TEE400-BI	268.47



UNION

Description	Part No.	Price
1/4"	UN025-BI	19.57
3/8"	UN038-BI	9.70
1/2"	UN050-BI	12.63
3/4"	UN075-BI	15.04
1"	UN100-BI	19.65
1-1/4"	UN125-BI	26.07
1-1/2"	UN150-BI	31.83
2"	UN200-BI	48.07
3"	UN300-BI	140.65
4"	UN400-BI	627.42

SCHEDULE 40 BLACK IRON FITTINGS



PLUG

Description	Part No.	Price
1/4"	PLUG025-BI	1.27
3/8"	PLUG038-BI	1.94
1/2"	PLUG050-BI	2.61
3/4"	PLUG075-BI	2.61
1"	PLUG100-BI	3.28
1-1/4"	PLUG125-BI	4.13
1-1/2"	PLUG150-BI	5.74
2"	PLUG200-BI	8.19
3"	PLUG300-BI	21.52
4"	PLUG400-BI	44.72



COUPLING

Description	Part No.	Price
1/8"	CPLG018-BI	4.52
1/4"	CPLG025-BI	3.79
3/8"	CPLG038-BI	4.55
1/2"	CPLG050-BI	4.81
3/4"	CPLG075-BI	6.14
1"	CPLG100-BI	8.60
1-1/4"	CPLG125-BI	10.98
1-1/2"	CPLG150-BI	13.91
2"	CPLG200-BI	19.92
3"	CPLG300-BI	79.58
4"	CPLG400-BI	141.06



CAP

Description	Part No.	Price
1/8"	CAP018-BI	1.24
1/4"	CAP025-BI	1.68
3/8"	CAP038-BI	2.31
1/2"	CAP050-BI	3.13
3/4"	CAP075-BI	4.24
1"	CAP100-BI	4.66
1-1/4"	CAP125-BI	6.09
1-1/2"	CAP150-BI	9.30
2"	CAP200-BI	10.83
3"	CAP300-BI	40.00
4"	CAP400-BI	45.79
6"	CAP600-BI	344.09

For Sealants and Teflon Tape see Page 94



KING NIPPLE (MPT X HOSE BARB)

Description	Part No.	Price
1/2"	HB050-BI	6.09
3/4"	HB075-BI	6.00
1"	HB100-BI	7.65
1-1/4"	HB125-BI	10.69
1-1/2"	HB150-BI	12.12
2"	HB200-BI	13.39
3"	HB300-BI	25.91
4"	HB400-BI	40.82

KING NIPPLE (WELD ON)

Description	Part No.	Price
3"	STB35	29.80



BELL REDUCER

Description	Part No.	Price
3/4" x 1/4"	RC075-025-BI	6.73
3/4" x 3/8"	RC075-038-BI	6.73
1" x 3/8"	RC100-038-BI	6.03
1" x 1/2"	RC100-050-BI	5.18
1-1/4" x 1/2"	RC125-050-BI	7.48
1-1/4" x 3/4"	RC125-075-BI	9.29
1-1/4" x 1"	RC125-100-BI	6.48
1-1/2" x 1/2"	RC150-050-BI	9.48
1-1/2" x 3/4"	RC150-075-BI	10.70
1-1/2" x 1"	RC150-100-BI	12.93
2" x 3/4"	RC200-075-BI	19.47
2" x 1"	RC200-100-BI	17.54
2" x 1-1/4"	RC200-125-BI	18.55
2" x 1-1/2"	RC200-150-BI	16.22
3" x 2"	RC300-200-BI	56.16
4" x 3"	RC400-300-BI	128.94



90° ST. ELBOW

Description	Part No.	Price
1/4"	SL025-BI	5.76
3/8"	SL038-BI	6.05
1/2"	SL050-BI	5.91
3/4"	SL075-BI	5.76
1"	SL100-BI	8.29
1-1/4"	SL125-BI	12.65
1-1/2"	SL150-BI	16.89
2"	SL200-BI	27.39
3"	SL300-BI	118.69
4"	SL400-BI	222.38



90° ELBOW

Description	Part No.	Price
1/8"	EL018-90-BI	4.21
1/4"	EL025-90-BI	3.81
3/8"	EL038-90-BI	3.81
1/2"	EL050-90-BI	2.86
3/4"	EL075-90-BI	3.46
1"	EL100-90-BI	6.07
1-1/4"	EL125-90-BI	9.82
1-1/2"	EL150-90-BI	12.93
2"	EL200-90-BI	22.16
3"	EL300-90-BI	71.73
4"	EL400-90-BI	111.83

SCHEDULE 40 BLACK IRON PIPE FITTINGS



NIPPLE

Description	Part No.	Price
1/4" x close	NIP025-SH-BI	2.37
1/4" x 1-1/2"	NIP025-1.50-BI	2.51
1/4" x 2"	NIP025-2-BI	2.51
1/4" x 3"	NIP025-3-BI	3.25
1/4" x 4"	NIP025-4-BI	3.73
1/4" x 6"	NIP025-6-BI	6.73
1/4" x 8"	NIP025-8-BI	10.31
1/4" x 10"	NIP025-10-BI	13.24
1/4" x 12"	NIP025-12-BI	14.58
3/8" x close	NIP038-SH-BI	2.40
3/8" x 1-1/2"	NIP038-1.50-BI	2.73
3/8" x 2"	NIP038-2-BI	2.73
3/8" x 3"	NIP038-3-BI	3.55
3/8" x 4"	NIP038-4-BI	4.18
3/8" x 6"	NIP038-6-BI	6.62
3/8" x 8"	NIP038-8-BI	11.68
3/8" x 10"	NIP038-10-BI	14.39
3/8" x 12"	NIP038-12-BI	16.70
1/2" x close	NIP050-SH-BI	2.03
1/2" x 1-1/2"	NIP050-1.50-BI	2.03
1/2" x 2"	NIP050-2-BI	2.03
1/2" x 3"	NIP050-3-BI	2.40
1/2" x 4"	NIP050-4-BI	2.92
1/2" x 6"	NIP050-6-BI	3.77
1/2" x 8"	NIP050-8-BI	6.80
1/2" x 10"	NIP050-10-BI	9.00
1/2" x 12"	NIP050-12-BI	9.76
3/4" x close	NIP075-SH-BI	2.37
3/4" x 1-1/2"	NIP075-1.50-BI	2.51
3/4" x 2"	NIP075-2-BI	2.51
3/4" x 3"	NIP075-3-BI	2.85
3/4" x 4"	NIP075-4-BI	3.55
3/4" x 5"	NIP075-5-BI	4.43
3/4" x 6"	NIP075-6-BI	5.03
3/4" x 8"	NIP075-8-BI	8.39
3/4" x 10"	NIP075-10-BI	10.58
3/4" x 12"	NIP075-12-BI	11.85

NIPPLE CONTINUED

Description	Part No.	Price
1" x close	NIP100-SH-BI	3.40
1" x 2"	NIP100-2-BI	3.73
1" x 3"	NIP100-3-BI	3.92
1" x 4"	NIP100-4-BI	4.92
1" x 6"	NIP100-6-BI	6.87
1" x 8"	NIP100-8-BI	11.16
1" x 10"	NIP100-10-BI	13.05
1" x 12"	NIP100-12-BI	15.00
1-1/4" x close	NIP125-SH-BI	4.32
1-1/4" x 2"	NIP125-2-BI	4.88
1-1/4" x 3"	NIP125-3-BI	5.21
1-1/4" x 4"	NIP125-4-BI	6.13
1-1/4" x 6"	NIP125-6-BI	8.72
1-1/4" x 8"	NIP125-8-BI	15.36
1-1/4" x 10"	NIP125-10-BI	16.85
1-1/4" x 12"	NIP125-12-BI	20.85
1-1/2" x close	NIP150-SH-BI	5.36
1-1/2" x 2"	NIP150-2-BI	5.76
1-1/2" x 3"	NIP150-3-BI	6.43
1-1/2" x 4"	NIP150-4-BI	7.24
1-1/2" x 6"	NIP150-6-BI	10.13
1-1/2" x 8"	NIP150-8-BI	17.58
1-1/2" x 10"	NIP150-10-BI	18.81
1-1/2" x 12"	NIP150-12-BI	21.73
2" x close	NIP200-SH-BI	7.28
2" x 3"	NIP200-3-BI	8.39
2" x 4"	NIP200-4-BI	10.13
2" x 6"	NIP200-6-BI	13.67
2" x 8"	NIP200-8-BI	22.84
2" x 10"	NIP200-10-BI	26.87
2" x 12"	NIP200-12-BI	33.82
2" x 24"	NIP200-24-BI	78.88
3" x close	NIP300-SH-BI	27.05
3" x 4"	NIP300-4-BI	34.85
3" x 6"	NIP300-6-BI	41.76
3" x 8"	NIP300-8-BI	56.36
3" x 10"	NIP300-10-BI	69.21
3" x 12"	NIP300-12-BI	70.22
4" x close	NIP400-SH-BI	40.76
4" x 4"	NIP400-4-BI	47.15
4" x 6"	NIP400-6-BI	57.58
4" x 8"	NIP400-8-BI	66.45
4" x 10"	NIP400-10-BI	75.68
4" x 12"	NIP400-12-BI	88.69
6" x close	NIP600-SH-BI	124.21

REDUCER BUSHING

Description	Part No.	Price
1/4" x 1/8"	RB025-018-BI	1.37
3/8" x 1/8"	RB038-018-BI	1.63
3/8" x 1/4"	RB038-025-BI	1.63
1/2" x 1/4"	RB050-025-BI	2.52
1/2" x 3/8"	RB050-038-BI	2.52
3/4" x 1/8"	RB075-018-BI	3.82
3/4" x 1/4"	RB075-025-BI	3.82
3/4" x 3/8"	RB075-038-BI	3.82
3/4" x 1/2"	RB075-050-BI	3.82
1" x 1/4"	RB100-025-BI	6.18
1" x 3/8"	RB100-038-BI	6.18
1" x 1/2"	RB100-050-BI	4.76
1" x 3/4"	RB100-075-BI	4.76
1-1/4" x 1/4"	RB125-025-BI	10.15
1-1/4" x 3/8"	RB125-038-BI	8.49
1-1/4" x 1/2"	RB125-050-BI	7.16
1-1/4" x 3/4"	RB125-075-BI	6.45
1-1/4" x 1"	RB125-100-BI	6.14
1-1/2" x 1/4"	RB150-025-BI	12.94
1-1/2" x 3/8"	RB150-038-BI	6.45
1-1/2" x 1/2"	RB150-050-BI	7.77
1-1/2" x 3/4"	RB150-075-BI	7.77
1-1/2" x 1"	RB150-100-BI	6.82
1-1/2" x 1-1/4"	RB150-125-BI	7.79
2" x 1/4"	RB200-025-BI	12.03
2" x 3/8"	RB200-038-BI	16.85
2" x 1/2"	RB200-050-BI	12.32
2" x 3/4"	RB200-075-BI	10.12
2" x 1"	RB200-100-BI	9.29
2" x 1-1/4"	RB200-125-BI	9.29
2" x 1-1/2"	RB200-150-BI	10.35
3" x 1"	RB300-100-BI	26.83
3" x 1-1/2"	RB300-150-BI	26.83
3" x 2"	RB300-200-BI	20.04
4" x 2"	RB400-200-BI	28.82
4" x 3"	RB400-300-BI	45.20
6" x 4"	RB600-400-BI	94.07

COUPLERS, VALVES, CAM LOCKS & PIPE FITTINGS

CUSTOM PIPING, MANIFOLDING & THREADING AVAILABLE

STAINLESS STEEL FITTINGS



CROSS

Description	Part No.	Price
1/4"	CR025-SS	13.21
3/8"	CR038-SS	15.76
1/2"	CR050-SS	19.42
3/4"	CR075-SS	33.21
1"	CR100-SS	49.15
1-1/4"	CR125-SS	58.36
1-1/2"	CR150-SS	72.30
2"	CR200-SS	103.48
3"	CR300-SS	201.00
4"	CR400-SS	218.52



PLUG

Description	Part No.	Price
1/4"	PLUG025-SS	6.00
3/8"	PLUG038-SS	7.55
1/2"	PLUG050-SS	9.03
3/4"	PLUG075-SS	12.18
1"	PLUG100-SS	18.67
1-1/4"	PLUG125-SS	43.09
1-1/2"	PLUG150-SS	45.97
2"	PLUG200-SS	53.70
3"	PLUG300-SS	55.94
4"	PLUG400-SS	77.91



TEE

Description	Part No.	Price
1/4"	TEE025-SS	7.612
3/8"	TEE038-SS	9.67
1/2"	TEE050-SS	10.15
3/4"	TEE075-SS	16.18
1"	TEE100-SS	20.58
1-1/4"	TEE125-SS	40.94
1-1/2"	TEE150-SS	50.91
2"	TEE200-SS	65.39
3"	TEE300-SS	129.22
4"	TEE400-SS	186.58



45° ELBOW

Description	Part No.	Price
1/4"	EL025-45-SS	7.16
3/8"	EL038-45-SS	8.42
1/2"	EL050-45-SS	9.24
3/4"	EL075-45-SS	13.48
1"	EL100-45-SS	16.48
1-1/4"	EL125-45-SS	26.39
1-1/2"	EL150-45-SS	31.39
2"	EL200-45-SS	44.18
3"	EL300-45-SS	172.42
4"	EL400-45-SS	186.46



90° ELBOW

Description	Part No.	Price
1/4"	EL025-90-SS	5.67
3/8"	EL038-90-SS	7.03
1/2"	EL050-90-SS	7.48
3/4"	EL075-90-SS	10.76
1"	EL100-90-SS	15.21
1-1/4"	EL125-90-SS	26.73
1-1/2"	EL150-90-SS	35.58
2"	EL200-90-SS	45.12
3"	EL300-90-SS	130.94
4"	EL400-90-SS	255.52



90° STREET ELBOW

Description	Part No.	Price
1/4"	SL025-SS	8.09
3/8"	SL038-SS	9.73
1/2"	SL050-SS	11.45
3/4"	SL075-SS	15.91
1"	SL100-SS	27.52
1-1/4"	SL125-SS	39.97
1-1/2"	SL150-SS	47.27
2"	SL200-SS	64.03
3"	SL300-SS	97.70
4"	SL400-SS	190.24



HALF COUPLING

Description	Part No.	Price
1/4"	1/2CPLG025-SS	2.70
3/8"	1/2CPLG038-SS	3.45
1/2"	1/2CPLG050-SS	4.79
3/4"	1/2CPLG075-SS	6.39
1"	1/2CPLG100-SS	8.21
1-1/4"	1/2CPLG125-SS	13.39
1-1/2"	1/2CPLG150-SS	17.18
2"	1/2CPLG200-SS	23.58
3"	1/2CPLG300-SS	30.97
4"	1/2CPLG400-SS	50.64

COUPLING

Description	Part No.	Price
1/4"	CPLG025-SS	4.64
3/8"	CPLG038-SS	8.07
1/2"	CPLG050-SS	7.67
3/4"	CPLG075-SS	11.06
1"	CPLG100-SS	16.82
1-1/4"	CPLG125-SS	26.73
1-1/2"	CPLG150-SS	31.73
2"	CPLG200-SS	64.76
3"	CPLG300-SS	100.18
4"	CPLG400-SS	155.73

STAINLESS STEEL FITTINGS



NIPPLE

Description	Part No.	Price
1/4" x close	NIP025-SH-SS	2.93
1/4" x 1-1/2"	NIP025-1.50-SS	3.64
1/4" x 2"	NIP025-2-SS	4.36
1/4" x 3"	NIP025-3-SS	5.98
1/4" x 4"	NIP025-4-SS	7.66
1/4" x 6"	NIP025-6-SS	10.88
1/4" x 8"	NIP025-8-SS	14.32
1/4" x 10"	NIP025-10-SS	17.55
1/4" x 12"	NIP025-12-SS	20.76
3/8" x close	NIP038-SH-SS	3.52
3/8" x 1-1/2"	NIP038-1.50-SS	4.28
3/8" x 2"	NIP038-2-SS	5.18
3/8" x 3"	NIP038-3-SS	7.15
3/8" x 4"	NIP038-4-SS	9.12
3/8" x 6"	NIP038-6-SS	13.07
3/8" x 8"	NIP038-8-SS	17.33
3/8" x 10"	NIP038-10-SS	11.24
3/8" x 12"	NIP038-12-SS	13.30
1/2" x close	NIP050-SH-SS	4.55
1/2" x 1-1/2"	NIP050-1.50-SS	5.48
1/2" x 2"	NIP050-2-SS	6.67
1/2" x 3"	NIP050-3-SS	9.17
1/2" x 4"	NIP050-4-SS	11.81
1/2" x 6"	NIP050-6-SS	17.03
1/2" x 8"	NIP050-8-SS	22.46
1/2" x 10"	NIP050-10-SS	14.61
1/2" x 12"	NIP050-12-SS	17.36
3/4" x close	NIP075-SH-SS	6.13
3/4" x 1-1/2"	NIP075-1.50-SS	6.53
3/4" x 2"	NIP075-2-SS	7.82
3/4" x 3"	NIP075-3-SS	10.97
3/4" x 4"	NIP075-4-SS	14.12
3/4" x 6"	NIP075-6-SS	20.41
3/4" x 8"	NIP075-8-SS	26.86
3/4" x 10"	NIP075-10-SS	33.16
3/4" x 12"	NIP075-12-SS	20.85
1" x close	NIP100-SH-SS	8.06
1" x 2"	NIP100-2-SS	10.09
1" x 3"	NIP100-3-SS	14.01
1" x 4"	NIP100-4-SS	18.07
1" x 6"	NIP100-6-SS	26.18
1" x 8"	NIP100-8-SS	34.17
1" x 10"	NIP100-10-SS	42.82
1" x 12"	NIP100-12-SS	27.24

NIPPLE CONTINUED

Description	Part No.	Price
1-1/4" x close	NIP125-SH-SS	10.83
1-1/4" x 2"	NIP125-2-SS	12.76
1-1/4" x 3"	NIP125-3-SS	17.68
1-1/4" x 4"	NIP125-4-SS	22.83
1-1/4" x 6"	NIP125-6-SS	33.10
1-1/4" x 8"	NIP125-8-SS	39.94
1-1/4" x 10"	NIP125-10-SS	28.42
1-1/4" x 12"	NIP125-12-SS	64.07
1-1/2" x close	NIP150-SH-SS	13.26
1-1/2" x 2"	NIP150-2-SS	14.54
1-1/2" x 3"	NIP150-3-SS	20.60
1-1/2" x 4"	NIP150-4-SS	26.67
1-1/2" x 6"	NIP150-6-SS	38.81
1-1/2" x 8"	NIP150-8-SS	47.64
1-1/2" x 10"	NIP150-10-SS	33.48
1-1/2" x 12"	NIP150-12-SS	39.91
2" x close	NIP200-SH-SS	20.59
2" x 3"	NIP200-3-SS	26.54
2" x 4"	NIP200-4-SS	34.45
2" x 6"	NIP200-6-SS	52.00
2" x 8"	NIP200-8-SS	66.85
2" x 10"	NIP200-10-SS	75.85
2" x 12"	NIP200-12-SS	52.00
2" x 24"	NIP200-24-SS	104.00
2" x 35"	NIP200-35-SS	182.03
3 x close	NIP300-SH-SS	58.73
3" x 4"	NIP300-4-SS	81.20
3" x 6"	NIP300-6-SS	109.34
3" x 8"	NIP300-8-SS	147.21
3" x 10"	NIP300-10-SS	95.00
3" x 12"	NIP300-12-SS	212.55
4" x close	NIP400-SH-SS	39.64
4" x 4"	NIP400-4-SS	52.24
4" x 6"	NIP400-6-SS	74.12
4" x 8"	NIP400-8-SS	100.00
4" x 12"	NIP400-12-SS	144.76

UNION

Description	Part No.	Price
3/4"	UN075-SS	52.61
1"	UN100-SS	76.36
1-1/2"	UN150-SS	164.92
2"	UN200-SS	208.21



REDUCER BUSHING

Description	Part No.	Price
1/2" x 1/4"	RB050-025-SS	9.73
1/2" x 3/8"	RB050-038-SS	9.73
3/4" x 1/2"	RB075-025-SS	13.36
3/4" x 3/4"	RB075-050-SS	13.36
1" x 3/8"	RB100-038-SS	19.36
1" x 1/2"	RB100-075-SS	19.36
1-1/4" x 3/4"	RB125-075-SS	37.55
1-1/4" x 1"	RB125-100-SS	37.55
1-1/2" x 3/4"	RB150-075SS	48.64
1-1/2" x 1"	RB150-100-SS	48.64
1-1/2" x 1-1/4"	RB150-125-SS	48.64
2" x 1"	RB200-100-SS	70.27
2" x 1-1/4"	RB200-125-SS	70.27
2" x 1-1/2"	RB200-150-SS	70.27
3" x 2"	RB300-200-SS	94.58
4" x 2"	RB400-200-SS	91.88
4" x 3"	RB400-300-SS	172.10

KING NIPPLE (MPT X HOSE BARB)



Description	Part No.	Price
1/2"	HB050-SS	24.82
3/4"	HB075-SS	24.88
1"	HB100-SS	25.00
1-1/4"	HB125-SS	31.88
1-1/2"	HB150-SS	43.48
2"	HB200-SS	52.94
3"	HB300-SS	156.58
4"	HB400-SS	245.61

CAP



Description	Part No.	Price
1/4"	CAP025-SS	5.09
3/8"	CAP038-SS	6.88
1/2"	CAP050-SS	7.06
3/4"	CAP075-SS	10.30
1"	CAP100-SS	15.12
1-1/4"	CAP125-SS	41.42
1-1/2"	CAP150-SS	47.85
2"	CAP200-SS	60.64
3"	CAP300-SS	69.36
4"	CAP400-SS	75.03

SEALANTS AND TAPE

JOMAR® SEAL

Rust colored, smooth flowing liquid.

- Threaded gases: 2500 PSI Liquids: 10,000 PSI
- -50° to 500° F. Allow to dry thoroughly before applying at high temperatures
- Dry time: dry to touch in 3-5 min. Completely dry in 45-60 min. at 2 mm thickness.



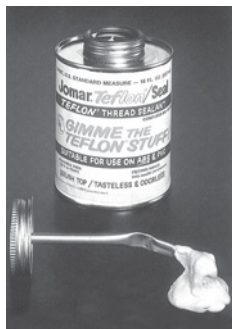
Description	Part No.	Price
¼ pint	400-302	11.94

JOMAR TEFLON/THREAD SEALANT

Recommended for residential and commercial applications. Non-seizing breaks out easily without stripping, galling or damaging threads. Free of halogens. Not affected by oils, dilute caustics, or dilute acids. Will not dry out, stain, harden or separate. Non-toxic. Will not destroy the seals of valves or faucets. Wipes clean from hands easily.

Use on all metal, plastic, PVC or ABS, Fiberglass CPVC, and Nylon threads. Recommended for use on: dilute acids, compressed gaseous air, ammonia, aliphatic solvents, brine, carbon dioxide, castor oils, dilute caustic alkalis, diesel fuel oil, all freons, gasoline, heating oils, gaseous helium, hydraulic oils, inert gases, jet fuel (JP 4,5,6), kerosene, liquefied petroleum gases, manufactured gases, mineral oils, natural gases, gaseous nitrogen, petroleum solvents, steamlines, liquid sugar, and potable water-hot or cold.

- Temperature range: -50 to 500° F; flash point 43° F; brushable to -50° F
- Pressure ranges: gases to 2000 PSI; liquids to 8000 PSI



Description	Part No.	Price
2 oz. tube	400-001	5.48
¼ pint	400-002	10.50
½ pint	400-003	19.09
1 pint	400-004	29.80

FEL-PRO ANTI-SEIZE

Copper-based formulation protects parts to 1800° F. Most requested anti-seize product for protecting nuts, bolts, fittings, ensuring easy assembly and disassembly of metal parts.



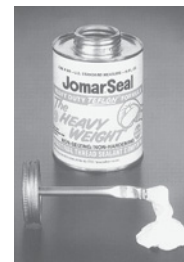
Description	Part No.	Price
1 lb brush top can	505	40.56

JOMAR SEAL “THE HEAVY WEIGHT”

All purpose, heavy duty thread sealing compound leakproof seals on threaded connections. Lubricates, seals and protects threads in an extensive variety of industrial, chemical and oil field threaded pipe connections over a wide range of services, temperatures and pressures.

Recommended for use on: dilute acids, compressed gaseous air, ammonia, aliphatic solvents, alcohols, anti-freeze, brine, carbon dioxide, dilute caustic alkalis, coal tar naphtha, diesel fuel oil, liquid fatty acids, all freons, 100% gasoline, 100% fuel oil, heating oils, reformulated gasoline, gasohol, gaseous helium, hydronic oils, inert gases, LPG, manufactured gases, motor oils, mineral oils, natural gases, gaseous nitrogen, petroleum solvents, steamlines, liquid sugar, and water-hot or cold.

- Temperature range: -200 to 500° F
- Pressure ranges: gases to 3000 PSI; liquids to 10,000 PSI



Description	Part No.	Price
1 pint can	400-204	47.86

JOMAR SEAL “GIMME THE GREEN STUFF”

Slow drying, soft setting, non-hardening pipe thread compound. Recommended for on-site or assembly line work. Lead free. Non-toxic. Will not harden in can. Will not dry out, stain, harden or separate. Non-toxic. Will not destroy the seals of valves or faucets. Wipes clean from hands easily.

Not for use on oxygen.

Recommended for use on: dilute acids, compressed gaseous air, ammonia, aliphatic solvents, brine, carbon dioxide, castor oils, dilute caustic alkalis, diesel fuel oil, all freons, gasoline, heating oils, gaseous helium, hydraulic oils, inert gases, jet fuel (JP4,5,6), kerosene, LPG, manufactured gases, mineral oils, natural gases, gaseous nitrogen, petroleum solvents, steamlines, liquid sugar, and potable water-hot or cold.

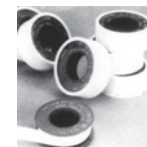
- Temperature range: -50 to 400° F; flash point 43° F; brushable to -50° F
- Pressure ranges: gases to 3000 PSI; liquids to 6000 PSI



Description	Part No.	Price
¼ pint can	400-102	10.29

TEFLON TAPE

Description	Part No.	Price
½" x 260"	TT50-260	1.00
¾" x 260"	TT75-260	1.64
½" x 520"	TT50-520	5.30
¾" x 520"	TT75-520	1.15



MODEL 122 & 126 STRAINERS

- Polypropylene construction with 200 PSI maximum pressure
- Available in threaded 1-¼" or 1-½" or in flanged version
- Flow rates to 70 GPM @ 5 PSI pressure drop
- Flush port on bottom of bowl
- Maximum pressure 150 PSI on 122 and 200 PSI on 126



MODEL 122

Description	Part No.	Price
½" x 16 Mesh	AA122-1/2-PP16	19.68
½" x 30 Mesh	AA122-1/2-PP30	19.68
½" x 50 Mesh	AA122-1/2-PP50	19.68
½" x 80 Mesh	AA122-1/2-PP80	19.68
½" x 100 Mesh	AA122-1/2-PP100	19.68
¾" x 16 Mesh	AA122-3/4-PP16	19.68
¾" x 30 Mesh	AA122-3/4-PP30	19.68
¾" x 50 Mesh	AA122-3/4-PP50	19.68
¾" x 80 Mesh	AA122-3/4-PP80	19.68
¾" x 100 Mesh	AA122-3/4-PP100	19.68

MODEL 122 REPLACEMENT PARTS

Description	Part No.	Price
½" Head	CP23171-1/2-PP	9.05
¾" Head	CP23171-3/4-PP	9.05
EPDM Gasket	CP23173-EPR	5.16
Viton Gasket	CP23173-VI	9.94
16 Mesh Screen	CP23174-1-304SS	6.82
30 Mesh Screen	CP23174-2-304SS	6.82
50 Mesh Screen	CP45102-3-SSPP	7.51
80 Mesh Screen	CP45102-4-SSPP	7.51
100 Mesh Screen	CP45102-5-SSPP	7.51
200 Mesh Screen	CP23174-7-304SS	12.57
Bowl	CP23172-PP	7.98



MODEL 126 FLANGED

Description	Part No.	Price
Flange x 16 Mesh	AA126ML-F75-16	74.43
Flange x 30 Mesh	AA126ML-F75-30	74.43
Flange x 50 Mesh	AA126ML-F75-50	74.43
Flange x 80 Mesh	AA126ML-F75-80	74.43

MODEL 126

Description	Part No.	Price
¾" x 16 Mesh	AA126ML-3-16	36.36
¾" x 30 Mesh	AA126ML-3-30	36.36
¾" x 50 Mesh	AA126ML-3-50	36.36
¾" x 80 Mesh	AA126ML-3-80	36.36
1" x 16 Mesh	AA126ML-4-16	36.36
1" x 30 Mesh	AA126ML-4-30	36.36
1" x 50 Mesh	AA126ML-4-50	36.36
1" x 80 Mesh	AA126ML-4-80	36.36
1-¼" NPT x 16 Mesh	AA126ML-5-16	74.43
1-¼" NPT x 30 Mesh	AA126ML-5-30	74.43
1-¼" NPT x 50 Mesh	AA126ML-5-50	74.43
1-¼" NPT x 80 Mesh	AA126ML-5-80	74.43
1-½" NPT x 16 Mesh	AA126ML-6-16	74.43
1-½" NPT x 30 Mesh	AA126ML-6-30	74.43
1-½" NPT x 50 Mesh	AA126ML-6-50	74.43
1-½" NPT x 80 Mesh	AA126ML-6-80	74.43

MODEL 126 REPLACEMENT PARTS

Description	Part No.	Price
Strainer Parts for Model 126 - ¾ in., 1 in.		
Strainer Head (¾" NPT)	CP50492-3/4-PP	13.34
Strainer Head (1" NPT)	CP50492-1-PP	13.34
Screen, SS, 16 Mesh (Gray)	CP16903-1-SSPP	14.59
Screen, SS, 30 Mesh (Yellow)	CP16903-3-SSPP	14.59
Screen, SS, 50 Mesh (Red)	CP16903-4-SSPP	14.59
Screen, SS, 80 Mesh (Blue)	CP16903-5-SSPP	14.59
Screen, SS, 100 Mesh (Green)	CP16903-6-SSPP	14.59
Gasket, EPDM Rubber	CP50494-EPR	2.43
Bowl, Polypropylene (Gray) (1" NPT)	CP50493-PP	13.17
Gasket, EPDM	CP63150-EPR	3.23
Cap, Polypropylene (Gray)	CP48655-PP	4.78
Strainer Parts for Model 126 - 1-¼ in., 1-½ in. and flanged		
Strainer Head (Flange)	CP63025-F-PP	27.23
Screen, 16 Mesh	CP15941-1-SSPP	20.55
Screen, 30 Mesh	CP15941-2-SSPP	20.55
Screen, 50 Mesh	CP15941-3-SSPP	20.55
Screen, 80 Mesh	CP15941-4-SSPP	20.55
Gasket, EPR	CP48656-EPR	4.92
Bowl, Polypropylene (Gray)	CP48654-PP	26.96
O-ring, Viton, Drain	CP7717-2/118-VI	3.23
Cap, Polypropylene (Gray)	CP48655-PP	4.78

MODEL 124 CAST IRON STRAINERS

For pressure up to 150 PSI and temperatures to 100° F. Cast iron head and nylon bowl with Viton or Buna-N gaskets



MODEL 124

Description	Part No.	Price
1" x 16 Mesh	AA124A-1-I-16	101.27
1" x 30 Mesh	AA124A-1-I-30	101.27
1" x 50 Mesh	AA124A-1-I-50	101.27
1" x 80 Mesh	AA124A-1-I-80	101.27
1-1/2" x 16 Mesh	AA124-1-1/2-I16	157.98
1-1/2" x 30 Mesh	AA124-1-1/2-I30	157.98
1-1/2" x 50 Mesh	AA124-1-1/2-I50	157.98
1" x 80 Mesh	AA124-1-1/2-I80	157.98
2" x 16 Mesh	AA124-2-I-16	358.50
2" x 30 Mesh	AA124-2-I-30	358.50
2" x 50 Mesh	AA124-2-I-50	358.50
2" x 80 Mesh	AA124-2-I-80	358.50

MODEL 124 REPLACEMENT PARTS

Description	Part No.	Price
Strainer Parts for Model 124 – 1 in.		
16 Mesh Screen	CP16903-1-SSPP	14.59
20 Mesh Screen	CP16903-2-SSPP	14.59
30 Mesh Screen	CP16903-3-SSPP	14.59
50 Mesh Screen	CP16903-4-SSPP	14.59
80 Mesh Screen	CP16903-5-SSPP	14.59
100 Mesh Screen	CP16903-6-SSPP	14.59
200 Mesh Screen	CP16903-7-SSPP	14.59
Bowl	CP15403-NY	31.87
O-Ring, Viton	CP7717-2/226-VI	13.15
1" Head	CP15402-1-I	96.13
Strainer Parts for Model 124 – 1-1/2 in.		
16 Mesh Screen	CP15941-1-SSPP	20.55
30 Mesh Screen	CP15941-2-SSPP	20.55
50 Mesh Screen	CP15941-3-SSPP	20.55
80 Mesh Screen	CP15941-4-SSPP	20.55
100 Mesh Screen	CP15941-5-SSPP	20.55
120 Mesh Screen	CP15941-6-SSPP	20.55
Bowl	CP12288-NY	55.37
Gasket, Viton	CP12291-VI	16.80
Gasket, Buna-N	CP12291-BU	5.36
1-1/2" Head	CP12287-1-1/2-I	154.31
Strainer Parts for Model 124 – 2 in.		
16 Mesh Screen	CP14634-1-SS	68.52
30 Mesh Screen	CP14634-2-SS	68.52
50 Mesh Screen	CP14634-3-SS	68.52
80 Mesh Screen	CP14634-4-SS	68.52
Bowl	CP14635-NY	103.87
Gasket, Viton	CP14633-VI	39.07
Gasket, Buna-N	CP14633-BU	8.33
2" Head	CP14632-2-I	242.74

SELF-CLEANING STRAINERS

The TeeJet self-cleaning strainer extends your spraying time by minimizing clogging. Mounted on the discharge side of the pump, the strainer uses access pump flow to bypass clogging particles back to the spray tank.

The tapered inner cylinder inside the entire length of the screen provides a gap between the screen face and the cylinder. This gap causes the inlet fluid to flow at a high velocity past the screen face providing for a continuous wash down of particles to the bypass line. In order for the wash down to occur, a minimum flow rate of 6 GPM (23 L/min.) for 3/4 and 1 inch sizes and 8 GPM (30 L/min.) for 1-1/4 and 1-1/2 inch sizes is required through the bypass line.

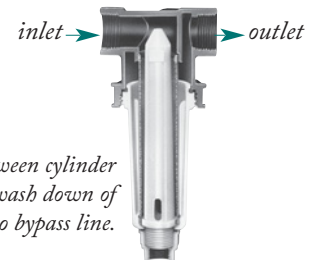
- Available with or without mounting lugs. Strainers with mounting lugs are designated by "ML".
- AA124 strainers are made of an aluminum head with a nylon bowl are available in 3/4", 1-1/4", 1", and 1-1/2" (F) NPT or BSPT thread.
- AA126 strainers are made of glass filled polypropylene and are available in 3/4", 1-1/4", 1", and 1-1/2" (F) NPT or BSPT thread as well as 50 and 75 Series flange connection.
- All stainless steel strainer element.



AA(B) 126ML-SC



AA(B) 124ML-SC-AL



High velocity of liquid stream between cylinder and screen provides continuous wash down of particles to bypass line.

STRAINER NUMBER	PIPE CONN.	MATERIAL		MAX. PRESSURE PSI (bar)	MIN. BYPASS REQUIRED GPM (l/min)	SCREEN	
		HEAD	BOWL			MESH	NUMBER
AA(B)126MLSC-3-*	3/4" (F)	Polypropylene		200 (14)	6 (23)	16	CP12285- ^s -SS
AA(B)124ML-3/4-SC-AL-*		Aluminum	Nylon	150 (10)		30	
AA(B)126MLSC-4-*	1" (F)	Polypropylene		200 (14)		50	
AA(B)124ML-1-SC-AL-*		Aluminum	Nylon	150 (10)		80	
AA(B)126MLSC-50F-*	Flange	Polypropylene		200 (14)	8 (30)	100	CP12290- ^s -SS
AA(B)126MLSC-5-*	1 1/4" (F)	Polypropylene		200 (14)		80	
AA(B)124ML-1-1/4-SC-AL-*		Aluminum	Nylon	150 (10)		100	
AA(B)126MLSC-6-*	1 1/2" (F)	Polypropylene		200 (14)		100	
AA(B)124ML-1-1/2-SC-AL-*		Aluminum	Nylon	150 (10)			
AA(B)126MLSC-75F-*	Flange	Polypropylene		200 (14)			

STRAINER NUMBER	PIPE CONN.	MATERIAL		MAX. PRESSURE PSI (bar)	MIN. BYPASS REQUIRED GPM (l/min)	SCREEN	
		HEAD	BOWL			MESH	NUMBER
AA(B)124A-3/4-SC-AL-*	3/4" (F)	Aluminum		150 (10)	6 (23)	16	CP12285- ^s -SS
AA(B)124A-1-SC-AL-*						30	
AA(B)124A-1-1/4-SC-AL-*	80						
AA(B)124A-1-1/4-SC-AL-*	30						
AA(B)124A-1-1/2-SC-AL-*	1 1/2" (F)				8 (30)	80	CP12290- ^s -SS
AA(B)124A-1-1/2-SC-AL-*	100						

HYPRO[®] LINE STRAINERS

NYLON STRAINERS

Nylon strainers have stainless steel screens and Viton gaskets and will handle most ag chemicals.

Rating: 150 PSI @ 70° F, 100 PSI @ 125° F.



POLYPROPYLENE STRAINERS

Poly strainers have a stainless steel screen and EPDM gasket. Poly material is most resistant to acids.

Rating: 80 PSI @ 70° F.



½ IN. STRAINERS

Description	Part No.	Price
½" x 20 Mesh, Nylon	3350-0085F	17.95
Replacement Parts		
20 Mesh Screen	3800-0048	6.70
50 Mesh Screen	3800-0046	3.29
80 Mesh Screen	3800-0047	6.58
Clear Nylon Bowl	3351-0020	5.45
Nylon Head	3351-0022	5.98
Viton Gasket	1700-0065	3.65
Buna Gasket	1700-0064	1.14

¾ IN. STRAINERS

Description	Part No	Price
¾" x 50 Mesh, Nylon	3350-0044	26.63
¾" x 80 Mesh, Nylon	3350-0045	30.22
¾" x 50 Mesh, Poly	3350-0034A	20.65
¾" x 80 Mesh, Poly	3350-0035A	22.14
Replacement Parts		
20 Mesh Screen	3800-0029	9.82
50 Mesh Screen	3800-0025	8.20
80 Mesh Screen	3800-0026	13.17
Nylon Bowl	3351-0005	8.08
Poly Bowl	3351-0039	6.04
Nylon Head	3351-0006	13.77
Poly Head	3351-0038	9.22
Viton Gasket	1700-0045	8.98
Buna Gasket	1700-0044	1.20
EPDM Gasket	1700-0091	1.68

1 IN. STRAINERS

Description	Part No	Price
1" x 50 Mesh, Nylon	3350-0061	41.59
1" x 80 Mesh, Nylon	3350-0062	46.98
1" x 50 Mesh, Poly	3350-0058A	28.13
1" x 80 Mesh, Poly	3350-0059A	31.42
Replacement Parts		
20 Mesh Screen	3800-0040	12.27
50 Mesh Screen	3800-0041	12.27
80 Mesh Screen	3800-0042	20.65
Nylon Bowl	3351-0013	17.66
Poly Bowl	3351-0043	23.94
Nylon Head	3351-0014	23.34
Poly Head	3351-0040	16.16
Viton Gasket	1700-0058	11.91
Buna Gasket	1700-0057	1.68
EPDM Gasket	1700-0092	2.09

1-¼ IN. STRAINERS

Description	Part No	Price
1-¼" x 50 Mesh, Nylon	3350-0075	47.88
1-¼" x 80 Mesh, Nylon	3350-0076	53.56
1-¼" x 50 Mesh, Poly	3350-0072A	31.42
1-¼" x 80 Mesh, Poly	3350-0073A	39.50
Replacement Parts		
20 Mesh Screen	3800-0043	12.27
50 Mesh Screen	3800-0044	12.27
80 Mesh Screen	3800-0045	23.34
Nylon Bowl	3351-0013	17.66
Poly Bowl	3351-0043	23.94
Nylon Head	3351-0016	27.83
Poly Head	3351-0041	19.15
Viton Gasket	1700-0058	11.91
Buna Gasket	1700-0057	1.68
EPDM Gasket	1700-0092	2.09

1-½ IN. STRAINERS

Description	Part No	Price
1-½" x 50 Mesh, Nylon	3350-0116	52.67
1-½" x 80 Mesh, Nylon	3350-0117	59.25
1-½" x 50 Mesh, Poly	3350-0113A	33.81
1-½" x 80 Mesh, Poly	3350-0114A	40.40
Replacement Parts		
20 Mesh Screen	3800-0065	20.35
50 Mesh Screen	3800-0066	17.95
80 Mesh Screen	3800-0067	28.73
Nylon Bowl	3351-0013	17.66
Poly Bowl	3351-0043	23.94
Nylon Head	3351-0026	30.82
Poly Head	3351-0042	22.74
Viton Gasket	1700-0058	11.91
Buna Gasket	1700-0057	1.68
EPDM Gasket	1700-0092	2.09

NORWESCO LINE STRAINERS



YLS POLY LINE STRAINER

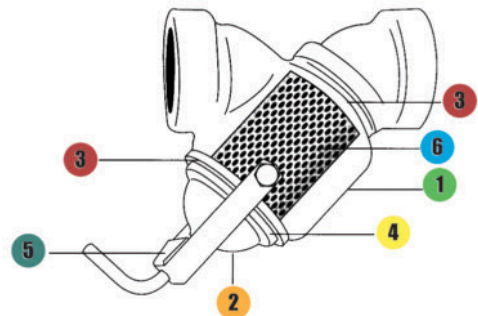
Size	Screen Mesh	Part No.	Price
1-1/4" x 1-1/4"	20	61738	28.04
1-1/4" x 1-1/4"	40	61740	28.04
1-1/4" x 1-1/4"	80	61741	31.34
1-1/2" x 1-1/2"	20	61488	54.93
1-1/2" x 1-1/2"	40	61489	60.24
1-1/2" x 1-1/2"	80	61490	60.24
2" x 2"	20	61493	54.92
2" x 2"	40	61494	60.24
2" x 2"	80	61495	60.24

YLS POLY LINE STRAINER REPLACEMENT PARTS

Description	Part No.	Price
1-1/4 in. Y-Line Strainers		
1-1/4" EPDM Gasket	61750	1.09
1-1/4" YLS w/o Screen	61748	20.24
20 Mesh Screen	61749	11.17
40 Mesh Screen	61746	11.17
80 Mesh Screen	61747	12.75
1-1/2 in. thru 2 in. Y-Line Strainers		
1-1/2" – 2" EPDM Gasket	61561	1.29
1-1/2" Y Strainer w/o Screen	61287	35.63
2" Y Strainer w/o Screen	61288	35.63
6 Mesh Screen	62306	27.08
12 Mesh Screen	62307	29.33
20 Mesh Screen	61508	20.99
40/20 Mesh Screen	61509	26.47
80/20 Mesh Screen	61510	26.47



Y STRAINERS



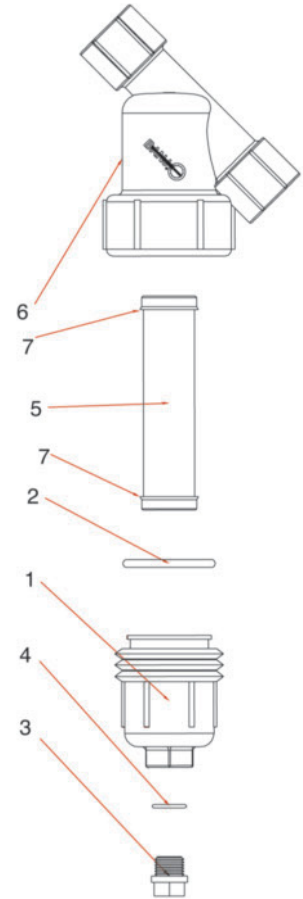
STAINLESS STEEL Y STRAINERS

- EPDM gaskets standard FKM (Viton type) available
- Corrosion resistant
- 200 PSI maximum
- Clean-out plug
- Stainless steel screens sold separately

Ref. No.	Description	Part No.	Price
1 & 2	3" SS Line Strainer (without screen)	LSS300-BC	1120.68
1	3" SS Line Strainer (body only)	LSS300-B	734.63
2	3" SS Line Strainer Replacement Cap	LSS300-C	204.80
3	Screen Seal (2 per strainer)	LSS300-S	7.13
4	Replacement Gasket (for cap)	LSS300-G	7.88
5	Clamp Assembly	LSS300H	74.20
6	8 Mesh Screen SS	LSS308	94.32
	12 Mesh Screen SS	LSS312	
	20 Mesh Screen SS	LSS320	
	30 Mesh Screen SS	LSS330	
	50 Mesh Screen SS	LSS350	

½ – 2 IN. POLYPROPYLENE Y STRAINERS

- Precision molded construction
- Corrosion resistant
- Lightweight
- Fiberglass reinforced
- Easy grip end cap
- EPDM gasket
- Stainless steel and polypropylene screens
- Heavy duty end cap threads
- ½ – 1-¾", 75 PSI max., 1-½ – 2", 150 PSI max
- Clean-out plug



Y STRAINER

Size	Screen Mesh	Part No.	Price
½" x ½"	20	LS050-20	35.37
½" x ½"	40	LS050-40	35.37
½" x ½"	80	LS050-80	35.37
¾" x ¾"	20	LS075-20	35.37
¾" x ¾"	40	LS075-40	35.37
¾" x ¾"	80	LS075-80	35.37
1" x 1"	20	LS100-20	35.37
1" x 1"	40	LS100-40	35.37
1" x 1"	80	LS100-80	38.84
1-¼" x 1-¼"	20	LS125-20	35.37
1-¼" x 1-¼"	40	LS125-40	35.37
1-¼" x 1-¼"	80	LS125-80	38.84
1-½" x 1-½"	6	LS150-06	77.83
1-½" x 1-½"	12	LS150-12	77.83
1-½" x 1-½"	20	LS150-20	77.83
1-½" x 1-½"	30	LS150-30	77.83
1-½" x 1-½"	50	LS150-50	77.83
1-½" x 1-½"	80	LS150-80	77.83
2" x 2"	6	LS200-06	77.83
2" x 2"	12	LS200-12	77.83
2" x 2"	20	LS200-20	77.83
2" x 2"	30	LS200-30	77.83
2" x 2"	50	LS200-50	77.83
2" x 2"	80	LS200-80	77.83

Y STRAINER ASSEMBLY *(see drawing to right)*

Ref. No.	Description	Part No.
1	End Cap (fits ½ & ¾" strainers)	LS-075-C
1	End Cap (fits 1 & 1-¼" strainers)	LS-100-C
1	End Cap (fits 1-½ & 2" strainers)	LS-150-C
1	End Cap (fits 1-½ & 2" strainers) New Style	LS-200-C
1	End Cap (fits 1-½ & 2" strainers) Old Style	LS-200-C
2	Gasket (fits ½" & ¾" strainers)	LS-075-G
2	Gasket (fits 1 & 1-¼" strainers)	LS-100-G
2	Gasket (fits 1-½ & 2" strainers) New Style O-ring (⅜")	LS-150-G
2	Gasket (fits 1-½ & 2" strainers) Old Style O-ring (⅛")	LS-200-G
3	Clean-Out Plug	LSQ-200PL
4	O-ring for Clean-Out Plug	LSQ-200R
5	20 Mesh Screen (fits ½ & ¾" strainers)	LS-720
5	40 Mesh Screen (fits ½ & ¾" strainers)	LS-740
5	80 Mesh Screen (fits ½ & ¾" strainers)	LS-780
5	20 Mesh Screen (fits 1 & 1-¼" strainers)	LS-120
5	40 Mesh Screen (fits 1 & 1-¼" strainers)	LS-140
5	80 Mesh Screen (fits 1" & 1-¼" strainers)	LS-180
5	6 Mesh Screen (fits 1-½ & 2" strainers)	LS-206
5	12 Mesh Screen (fits 1-½ & 2" strainers)	LS-212
5	12 Mesh Poly Screen (fits 1-½ & 2" strainers)	LS-212P
5	20 Mesh Poly Screen (fits 1-½ & 2" strainers)	LS-220
5	20 Mesh Poly Screen (fits 1-½ & 2" strainers)	LS-220P
5	30 Mesh Screen (fits 1-½ & 2" strainers)	LS-230
5	50 Mesh Screen (fits 1-½ & 2" strainers)	LS-250
5	50 Mesh Poly Screen (fits 1-½ & 2" strainers)	LS-250P
5	80 Mesh Screen (fits 1-½ & 2" strainers)	LS-280
6	Strainer body, 2"	LS200B
7	EDPM O-ring 1-½ & 2"	LS141G
7	EDPM O-ring 1 & 1-¼"	LS125G

STANDARD MESHES & DATA

Mesh Size	Wire Diameter	Opening	% Open Area	Rib Color
6	.035	.132	62.7	WHITE
12	.023	.060	51.8	BLACK
20	.016	.034	46.2	BEIGE
30	.012	.021	40.8	YELLOW
40	.012	.021	36.0	BROWN
50	.009	.011	30.3	RED
80	.0055	.007	31.4	BLUE



Y STRAINERS

3 IN. POLYPROPYLENE Y STRAINERS

(M300 FLANGED/3 IN. FPT)

- Lightweight and high volume
- Constructed of glass filled poly
- Stainless steel T handle clamp
- ½" drain plug in bottom of cap.
- Reinforced SS screen
- 50 PSI max

Warning: 3 inch polypropylene Y strainer to be used on suction side or non-pressure side in all applications.

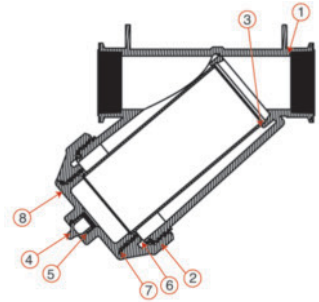


Y STRAINERS

Size	Screen Mesh	Part No.	Price
3" x 3"	4	LSM300-04	518.75
3" x 3"	8	LSM300-08	518.75
3" x 3"	12	LSM300-12	518.75
3" x 3"	20	LSM300-20	518.75
3" x 3"	50	LSM300-50	518.75

Y STRAINER ASSEMBLY *(see drawing to right)*

Ref. No.	Description	Part No.
1	3" Strainer	MLS300B1
2	3" Strainer Cap	MLS300CAP
3	4 Mesh Screen (Fits 3" strainer)	LS304
3	8 Mesh Screen (Fits 3" strainer)	LS308
3	12 Mesh Screen (Fits 3" strainer)	LS312
3	20 Mesh Screen (Fits 3" strainer)	LS320
3	50 Mesh Screen (Fits 3" strainer)	LS350
4	Clean-out Plug—½"	13777
5	O-ring Clean-out Plug-EPDM	13778
6	3" MLS EPDM Cap Gasket	LS300-G
7	End Cap Gasket	MLS300ECG
8	End Cap Only (Plug Sold Separately)	LS300EC



STANDARD MESHES & DATA

Mesh Size	Wire Diameter	Opening	% Open Area	Rib Color
4	.047	.203	65.9	—
8	.028	.097	60.2	—
12	.023	.060	51.8	BLACK
20	.016	.034	46.2	BEIGE



T STRAINERS

¾ & 1 IN. T LINE STRAINERS

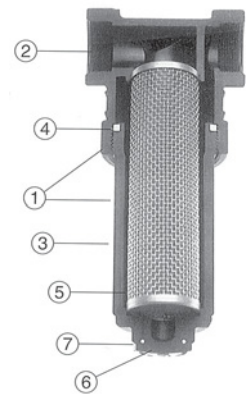
- Heavy-duty glass reinforced polypropylene T strainer
- EPDM gaskets
- Clean-out plug
- 150 PSI @ 70° F
- 304 stainless steel reinforced screens

T STRAINERS

Size	Screen Mesh	Part No.	Price
¾"	16	LST075-16	37.40
¾"	30	LST075-30	37.40
¾"	50	LST075-50	37.40
¾"	80	LST075-80	37.40
¾"	100	LST075-100	37.40
1"	16	LST100-16	37.40
1"	30	LST100-30	37.40
1"	50	LST100-50	37.40
1"	80	LST100-80	37.40
1"	100	LST100-100	37.40

T STRAINER ASSEMBLY *(see drawing to right)*

Ref. No.	Description	Part No.
5	16 Mesh Screen (fits ¾" and 1" "T" strainer)	LST116
5	30 Mesh Screen (fits ¾" and 1" "T" strainer)	LST130
5	50 Mesh Screen (fits ¾" and 1" "T" strainer)	LST150
5	80 Mesh Screen (fits ¾" and 1" "T" strainer)	LST180
5	100 Mesh Screen (fits ¾" and 1" "T" strainer)	LST1100
1	¾" Poly "T" Strainer Head and Bowl	LST075-HB
2	¾" Poly "T" Strainer Head	LST075-H
1	1" Poly "T" Strainer Head and Bowl	LST100HB
2	1" Poly "T" Strainer Head	LST100-H
3	Poly "T" Strainer Bowl (fits ¾" and 1")	LST100-B
4	Poly "T" Strainer Gasket (fits ¾" and 1")	LST100-G
4	Poly "T" Strainer Gasket-Viton (fits ¾" and 1")	LST100-GV
6	Clean-Out Plug	12777
7	O-ring for Clean-Out Plug	UV15163



STANDARD MESHES & DATA

Mesh Size	Wire Diameter	Opening	% Open Area	Rib Color
16	.018	.044	50.7	GRAY
30	.012	.021	40.8	YELLOW
50	.009	.011	30.3	RED
80	.0055	.007	31.4	BLUE
100	.0045	.005	30.3	GREEN

1-¼ & 1-½ IN. T LINE STRAINERS

- Heavy-duty glass reinforced polypropylene T strainer
- Clean-out plug
- 304 stainless steel reinforced screens
- EPDM gaskets
- 150 PSI @ 70° F

T STRAINERS

Size	Screen Mesh	Part No.	Price
1-¼"	16	LST125-16	74.51
1-¼"	30	LST125-30	74.51
1-¼"	50	LST125-50	74.51
1-¼"	80	LST125-80	74.51
1-¼"	100	LST125-100	74.51
1-½"	16	LST150-16	74.51
1-½"	30	LST150-30	74.51
1-½"	50	LST150-50	74.51
1-½"	80	LST150-80	74.51
1-½"	100	LST150-100	74.51

T STRAINER ASSEMBLY *(see drawing to right)*

Ref. No.	Description	Part No.
5	16 Mesh Screen (fits 1-¼" and 1-½" "T" strainer)	LST1516
5	30 Mesh Screen (fits 1-¼" and 1-½" "T" strainer)	LST1530
5	50 Mesh Screen (fits 1-¼" and 1-½" "T" strainer)	LST1550
5	80 Mesh Screen (fits 1-¼" and 1-½" "T" strainer)	LST1580
5	100 Mesh Screen (fits 1-¼" and 1-½" "T" strainer)	LST15100
1	1-¼" Poly "T" Strainer Head and Bowl	LST125-HB
2	1-¼" Poly "T" Strainer Head	LST125-H
1	1-½" Poly "T" Strainer Head and Bowl	LST150-HB
2	1-½" Poly "T" Strainer Head	LST150-H
3	Poly "T" Strainer Bowl (fits 1-¼" and 1-½")	LST150-B
4	Poly "T" Strainer Gasket (fits 1-¼" and 1-½")	LST150-G
4	Poly "T" Strainer Gasket-Viton (fits 1-¼" and 1-½")	LST150-GV
6	Clean-Out Plug	LSQ-200-PL
7	O-ring for Clean-Out Plug	LSQ-200-R
7	Standard EPDM O-ring	LST034G



STANDARD MESHES & DATA

Mesh Size	Wire Diameter	Opening	% Open Area	Rib Color
16	.018	.044	50.7	GRAY
30	.012	.021	40.8	YELLOW
50	.009	.011	30.3	RED
80	.0055	.007	31.4	BLUE
100	.0045	.005	30.3	GREEN

Manifold Y Line Strainers, See Page 84

2 IN. T LINE STRAINERS

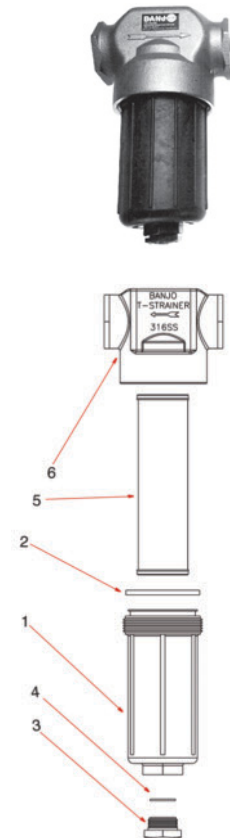
- 316 stainless steel head with glass reinforced polypropylene bowl
- Clean-out plug
- 316 SS reinforced screens
- Viton gaskets
- 150 PSI @ 70°F

T STRAINER

Size	Screen Mesh	Part No.	Price
2"	4	LST200-04SS	647.69
2"	6	LST200-06SS	647.69
2"	8	LST200-08SS	647.69
2"	10	LST200-10SS	647.69
2"	16	LST200-16SS	647.69
2"	30	LST200-30SS	647.69
2"	50	LST200-50SS	647.69
2"	80	LST200-80SS	647.69
2"	100	LST200-100SS	647.69

T STRAINER ASSEMBLY *(see drawing to right)*

Ref. No.	Description	Part No.
5	4 Mesh Screen (fits 2" "T" Strainer)	LST204SS
5	6 Mesh Screen (fits 2" "T" Strainer)	LST206SS
5	8 Mesh Screen (fits 2" "T" Strainer)	LST208SS
5	10 Mesh Screen (fits 2" "T" Strainer)	LST210SS
5	16 Mesh Screen (fits 2" "T" Strainer)	LST216SS
5	30 Mesh Screen (fits 2" "T" Strainer)	LST230SS
5	50 Mesh Screen (fits 2" "T" Strainer)	LST250SS
5	80 Mesh Screen (fits 2" "T" Strainer)	LST280SS
5	100 Mesh Screen (fits 2" "T" Strainer)	LST2100SS
6	2" "T" Strainer 316 SS Head and Poly Bowl	LST200-HBSS
6	2" "T" Strainer 316 S. S. Head	LST200-HSS
1	2" "T" Strainer Poly Bowl	LST200-B
2	2" "T" Strainer Gasket-Viton	LST200-GV
3	Clean-Out Plug	LSQ200-PL
4	O-ring for Clean-Out Plug	LSQ-200-RV





LINE STRAINERS

1-½ & 2 IN. LSQ POLY STRAINERS

- Precision molded in glass reinforced polypropylene
- Cam lever configuration for easy access for cleaning and servicing
- ¾" plug in cam lever cap for attaching ball valve for draining or back flushing
- Poly ribbed stainless steel screen
- EPDM lathe cut gasket
- FKM (Viton type) gaskets available
- 75 PSI maximum.

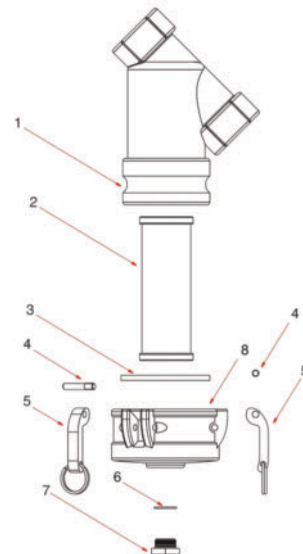


STRAINERS

Size	Screen Mesh	Part No.	Price
1-½" x 1-½"	6	LSQ150-06	112.41
1-½" x 1-½"	12	LSQ150-12	112.41
1½" x 1-½"	20	LSQ150-20	112.41
1-½" x 1-½"	30	LSQ150-30	112.41
1-½" x 1-½"	50	LSQ150-50	112.41
1-½" x 1-½"	80	LSQ150-80	112.41
1-½" x 1-½"	120	LSQ150-120	112.41
2" x 2"	6	LSQ200-06	112.41
2" x 2"	12	LSQ200-12	112.41
2" x 2"	20	LSQ200-20	112.41
2" x 2"	30	LSQ200-30	112.41
2" x 2"	50	LSQ200-50	112.41
2" x 2"	80	LSQ200-80	112.41
2" x 2"	120	LSQ200-120	112.41

STRAINER ASSEMBLY *(see drawing to right)*

Ref. No.	Description	Part No.
1	1½" LSQ Body	LSQ150-B
1	2" LSQ Body	LSQ200-B
2	6 Mesh Screen	LS206
2	12 Mesh Screen	LS212
2	20 Mesh Screen	LS220
2	30 Mesh Screen	LS230
2	50 Mesh Screen	LS250
2	80 Mesh Screen	LS280
2	120 Mesh Screen	LS2120
3	2" EPDM Gasket	LSQ200-G
3	2" FKM (Viton type)	LSQ200-GV
4	SS Cam Pin 1	300P
5	3" SS Cam Arm with Ring	300K
6	EPDM for Clean Out Plug	LSQ200R1
6	FKM (Viton) O-Ring for Clean Out Plug	LSQ200-RV
7	1" Clean Out Plug	PLUG075S
8	2" Cap	LSQ200-C



STANDARD MESHES & DATA

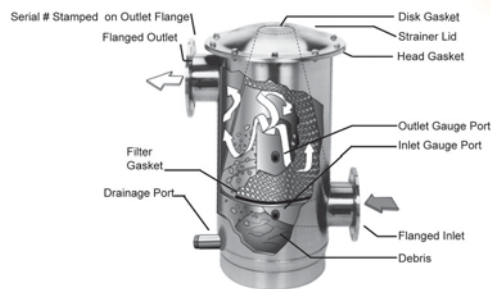
Mesh Size	Wire Diameter	Opening	% Open Area	Rib Color
6	.035	.132	62.7	WHITE
12	.023	.060	51.8	BLACK
20	.012	.021	40.8	BEIGE
30	.012	.021	40.8	YELLOW
50	.009	.011	30.3	RED
80	.0055	.007	31.4	BLUE
120	—	—	—	BLACK

THOMPSON FILTERS

- Mesh sizing available: 16, 30, 40, 50, 60, 80, 100, 120, 150, 200
- All 304 stainless steel construction
- Increased reservoir capacity
- Victaulic inlet & outlet available
- 4, 6, 8 & 10" filters also available



Inlet/Outlet Size	Max. GPM	Flush Port Size	Inlet/Outlet Type	Part No.
2"	100	½"	NPT	MLI-2
3"	200	1"	NPT	MLI-3



- Mesh sizing available: 16, 30, 40, 50, 60, 80, 100, 120, 150, 200
- All 304 stainless steel construction
- Less than 1 PSI pressure loss when clean
- 2, 3, 6, 8 & 10" filters also available



Inlet/Outlet Size	Max. GPM	Flush Port Size	Inlet/Outlet Type	Part No.
4"	350	2"	Flanged	MLI-4

- Centrifugal cleaning action minimizes maintenance
- High amount of filter surface area
- Flush particles while filter is in operation
- Several color coded mesh/micron options available (orange, red, green)
- Stainless steel screens also available
- Durable, corrosion-resistant injection molded construction
- Easily removable, quick clamp lid assembly



THOMPSON FILTERS ARE SPECIAL ORDERED TO FIT YOUR SPECIFICATIONS. CALL FOR PRICING AND AVAILABILITY.

NON-POSITIVE DISPLACEMENT PUMPS FOR SPRAYING ABRASIVE & CORROSIVE MATERIALS

Hypro centrifugal pumps deliver high volume reliability for today's larger ag spraying systems requiring up to 136 GPM or 180 PSI. This broad, versatile line includes models with rugged housing of cast iron and polypropylene. The pump features a gear drive, belt and pulley drive or a powerful hydraulic motor drive for closed-center (load-sensing or pressure-compensating type) and open-center systems.

- Corrosive, abrasive and general use chemical compatibility
- Handles solutions from liquid fertilizer to ag chemicals to wettable powders
- Hydraulic motor with special double lip Teflon seals for superior sealing and longer life expectancy
- Balanced, glass-filled nylon or polypropylene impeller for excellent corrosion resistance and continuously smooth operation
- Standard seals are Viton; Buna-N seals are available
- Made in U.S.



SERIES 9000 CAST IRON GEAR-DRIVEN MODELS

Description	Max. GPM	Max. PSI	Max. RPM	Est. Ship Weight	Part No.	Price
Cast Iron pump with oil lubricated gear drive and 1-3/8" 540 rpm PTO hub with locking collar and mounting clip. Clips pump to PTO shield of most tractors. 1-1/2" inlet, 1-1/4" outlet.	117	80	540	44 lb	9006C-O	1484.64
Cast Iron pump with oil lubricated gear drive and 1-3/8" pump to PTO shield of most tractors. 1-1/2" inlet, 1-1/4" outlet.	110	70	1000	46 lb	9008C-O	1541.70
Cast Iron pump with oil lubricated gear drive and 1" solid shaft, ports (NPT): 1-1/2" inlet, 1-1/4" outlet.	17	80	540	41 lb	9016C-O	1466.29
Cast Iron pump with oil lubricated gear drive and 1" solid shaft, ports (NPT): 1-1/2" inlet, 1-1/4" outlet.	110	70	1000	42 lb	9018C-O	1523.74
Cast Iron pump with oil lubricated gear drive and 1-3/4" 1000 rpm PTO hub with locking collar and mounting clip. Clips pump to PTO shield of most tractors. 1-1/2" inlet, 1-1/4" outlet.	110	70	1000	48 lb	9028C-O	1788.27

Note: Rotation, clockwise or counterclockwise, is determined when looking at the shaft end of the pump.



SERIES 9200 CAST IRON PEDESTAL MOUNT MODELS

Description	Max. GPM	Max. PSI	Max. RPM	Est. Ship Weight	Part No.	Price
Pedestal Mount Cast Iron pump with 5/8" solid shaft and Viton shaft seal. * 1-1/4" inlet; 1" outlet NPT ports.	105	180	6000	18 lb	9202C	608.06
Pedestal Mount Cast Iron pump with 5/8" solid shaft and Viton shaft seal. * 1-1/2" inlet; 1-1/4" outlet NPT ports.	136	180	6000	19 lb	9203C	615.24
Pedestal Mount clockwise rotation** Cast Iron pump, with 5/8" solid shaft, Viton seal and 1-1/2" x 1-1/4" NPT ports.	136	180	6000	17 lb	9203C-R	630.80
Pedestal Mount Cast Iron pump with 7/8" solid shaft and Viton shaft seal. 2" inlet, 1-1/2" outlet NPT ports.	190	190	4200	47 lb	9205C	1546.48



SERIES 9200 CAST IRON PEDESTAL MOUNT MODELS

Description	Max. GPM	Max. PSI	Max. RPM	Est. Ship Weight	Part No.	Price
Pedestal Mount, 316 Stainless Steel pump with 5/8" solid shaft and Viton, silicon carbide shaft seal. 1-1/2" inlet; 1-1/4" outlet NPT ports.	136	180	6000	19 lb	9203S	1388.48
Pedestal Mount, clockwise rotation, 316 stainless steel pump with 5/8" solid shaft and Viton, silicon carbide shaft seal. 1-1/2" inlet; 1-1/4" outlet NPT ports.	136	180	6000	37 lb	9203S-R	1402.85
Pedestal Mount, 316 Stainless Steel Pump, with 5/8" solid shaft and Viton, silicon carbide shaft seal. 2" x 1-1/2" NPT ports.	190	80	4200	23 lb	9206S	1660.20

HYPRO[®] CENTRIFUGAL PUMPS

SERIES 9000 POLYPROPYLENE GEAR-DRIVEN MODELS



Description	Max. GPM	Max. PSI	Max. RPM	Est. Ship Weight	Part No.	Price
Corrosion-Resistant and durable polypropylene pump with oil bath lubricated gear drive for PTO mounting. Viton seals and 1-3/8" 540 RPM PTO hub with Locking Collar Kit.	93	80	540	37 lb	9006P-O	1557.26
Corrosion-Resistant and durable polypropylene pump with oil bath lubricated gear drive for PTO mounting. Viton seals and 1-3/8" 1000 RPM PTO hub with Locking Collar Kit.	86	70	1000	37 lb	9008P-O	1557.26
Corrosion-Resistant and durable polypropylene pump with oil bath lubricated gear drive and 1" solid shaft. Viton seals.	93	80	540	40 lb	9016P-O	1539.30
Corrosion-Resistant and durable polypropylene pump with oil bath lubricated gear drive and 1" solid shaft. Viton seals.	86	70	1000	42 lb	9018P-O	1539.30

POLYPROPYLENE PEDESTAL & FLANGE MOUNTED MODELS



Description	Max. GPM	Max. PSI	Max. RPM	Est. Ship Weight	Part No.	Price
Pedestal mounted pump designed for direct drive with an electric motor or belt and pulley drive with an electric motor or gas engine, 7/8" solid keyed 316 stainless steel shaft.	92	80	4200	13 lb	9203P-S	762.47
Clockwise rotation pedestal mounted pump designed for direct drive with a gas engine or electric motor, 7/8" solid keyed 316 stainless steel shaft.	83	50	3600	14 lb	9500P-S	825.91
Vent line kit with a 25' long, 1/4" ID vinyl hose, 1/8" NPT x 1/4" HB 90° nylon elbow fitting, 1/8" NPT x 1/4" HB straight polypropylene fitting; plastic hose clamp and plastic cable tie.				1 lb	3430-0456	49.38



SERIES 9300 POLYPROPYLENE HYDRAULIC-MOTOR-DRIVEN

Description	Max. GPM	Max. PSI	Max. Hyd. GPM	Est. Ship Weight	Part No.	Price
The hydraulic motor features a fixed displacement internal design for smooth operation. A double lip Teflon shaft seal provides excellent reliability even with high hydraulic oil back pressure. The hardened stainless steel motor/pump open shaft is supported by two needle bearings and a ball bearing for dependable operation through years of use.	110	130	13	20 lb	9303P-HM1C	1405.24
	82	95	6	20 lb	9303P-HM2C	1405.24
	110	93	24	21 lb	9303P-HM3C	1490.23
	82	84	7	19 lb	9303P-HM4C	1405.24
Vent line kit w/ 25' long 1/4" ID vinyl hose, 1/8" NPT x 1/4" HB 90° nylon elbow fitting 1/8" NPT x 1/4" HB straight poly fitting; plastic hose clamp, & plastic cable tie.				1 lb	3430-0456	49.38
Seal and O-ring repair kit.				3 oz	3430-0445	87.68



SERIES 9200 PEDESTAL MODELS WITH 12 VOLT CLUTCHES

Description	Max. GPM	Max. PSI	Max. RPM	Est. Ship Weight	Part No.	Price
Pedestal mount cast iron pump with 12 Volt heavy duty clutch with 5" diameter A-section pulley, 1-1/4" NPT inlet, 1" NPT outlet, counterclockwise rotation**.	88	124	5000	22 lb	9262C-C	1150.29
Pedestal mount cast iron pump with 12 Volt heavy duty clutch with 5" diameter A-section pulley, 1-1/2" NPT inlet, 1-1/4" NPT outlet, counterclockwise rotation**.	140	124	5000	23 lb	9263C-C	1162.26
Pedestal mount cast iron pump with 12 volt heavy duty clutch with 5" diameter A-section pulley. (2526-0003) clockwise rotation**. 1-1/2" NPT inlet, 1-1/4" NPT outlet.	140	124	500	21 lb	9263C-CR	1175.42
Seal and O-ring repair kit.				3 oz	3430-0332	64.34

Note: Rotation, clockwise or counterclockwise, is determined when looking at the shaft end of the pump.

9700 AQUA TIGER



Description	Max. GPM	Max. PSI	Max. RPM	Est. Ship Weight	Part No.	Price
Bronze centrifugal transfer pump close-coupled to a 12 volt electric motor. The maximum current draw is 5.5 amps. 3/4" NPT outlet	19	7		6 lb	9700B	438.09
Viton seal				1 lb	19928	16.45

HYPRO[®] CENTRIFUGAL PUMPS



SERIES 9400 CAST IRON BELT-DRIVEN MODELS

Description	Max. GPM	Max. PSI	Max. RPM	Est. Ship Weight	Part No.	Price
Cast iron pump with positive timing belt drive and 1- ⁷ / ₈ " PTO shaft with locking collar Kit No. 3430-0207 ports (NPT): 1- ¹ / ₄ " inlet, 1" outlet.	76	95	600	45 lb	9402C-540	1468.68
Cast iron pump with positive timing belt drive and 1- ³ / ₈ " PTO shaft with locking collar Kit No. 3430-0207 ports (NPT): 1- ¹ / ₄ " inlet, 1" outlet.	76	95	1000	42 lb	9402C-1000	1490.23
Cast iron pump with positive timing belt drive and 1- ³ / ₈ " PTO shaft with locking collar Kit No. 3430-0190 ports (NPT): 1- ¹ / ₄ " inlet, 1" outlet.	76	95	1000	42 lb	9402C-1000L	1554.86
Cast iron pump with positive timing belt drive and 1" solid shaft, ports (NPT): 1- ¹ / ₄ " inlet, 1" outlet.	76	95	600	45 lb	9402C-540S	1492.62
Cast iron pump with positive timing belt drive and 1" solid shaft, ports (NPT): 1- ¹ / ₄ " inlet, 1" outlet.	76	95	1000	42 lb	9402C-1000S	1490.23
Cast iron pump with positive timing belt drive and 1- ³ / ₈ " PTO quick coupler shaft, ports (NPT): 1- ¹ / ₄ " inlet, 1" outlet.	76	95	600	45 lb	9402C-540Q	1492.62
Belt and seal repair kit for B1, B4, and B6 pumps.					3430-0341	134.06
Belt and seal repair kit for B2, B3 and B5 pumps.					3430-0342	113.71
Vent line kit with 25' long, ¹ / ₄ " ID vinyl hose, ¹ / ₈ " NPT x ¹ / ₄ " HB 90° nylon elbow fitting ¹ / ₈ " NPT x ¹ / ₄ " HB straight polypropylene fitting plastic hose clamp and plastic cable tie.				1 lb	3430-0456	49.38
Seal and O-ring repair kit.				3 oz	3430-0332	64.34



SERIES 9300 CAST IRON HYDRAULIC-MOTOR DRIVEN MODELS

Description	Max. GPM	Max. PSI	Est. Ship Weight	Part No.	Price
(10 GPM) hydraulic motor/cast iron pump for open center systems, ports (NPT): 1- ¹ / ₂ " inlet, 1- ¹ / ₄ " outlet.	114	130	22 lb	9303C-HM1C	1345.39
(5 GPM) hydraulic motor/cast iron pump for closed center systems, ports (NPT): 1- ¹ / ₂ " inlet, 1- ¹ / ₄ " outlet.	97	95	21 lb	9303C-HM2C	1345.39
(20 GPM) hydraulic motor/cast iron pump, large open center system, ports (NPT): 1- ¹ / ₂ " inlet, 1- ¹ / ₄ " outlet.	125	85	22 lb	9303C-HM3C	1430.38
(7 GPM) hydraulic motor/cast iron pump, closed/open center systems, ports (NPT): 1- ¹ / ₂ " inlet, 1- ¹ / ₄ " outlet.	115	93	22 lb	9303C-HM4C	1345.39
(10 GPM) hydraulic motor/cast iron pump, closed/open center systems, ports (NPT): 2" inlet, 1- ¹ / ₂ " outlet.	190	80	28 lb	9304C-HM1C	1733.21
(15 GPM) hydraulic motor/cast iron pump, closed/open center systems, ports (NPT): 2" inlet, 1- ¹ / ₂ " outlet.	190	130	28 lb	9304C-HM5C	1733.21
(20 GPM) hydraulic motor/cast iron pump, large open center systems, ports (NPT): 2" inlet, 1- ¹ / ₂ " outlet.	190	180	33 lb	9305C-HM3C	2279.03
(10 GPM) hydraulic motor/cast iron pump, open/closed center systems, ports (NPT): 2" inlet, 1- ¹ / ₂ " outlet.	207	130		9306C-HM1C	1575.21
(20 GPM) hydraulic motor/cast iron pump, open/closed center systems, ports (NPT): 2" inlet, 1- ¹ / ₂ " outlet.	214	135		9306C-HM3C	1660.20
(15 GPM) hydraulic motor/cast iron pump, large open center systems, ports (NPT): 2" inlet, 1- ¹ / ₂ " outlet.	212	150		9306C-HM5C	1575.21
Seal and O-ring repair kit.			3 oz	3430-0332	64.34



SERIES 9300 STAINLESS STEEL HYDRAULIC-MOTOR DRIVEN MODELS

Description	Max. GPM	Max. PSI	Est. Ship Weight	Part No.	Price
(10 GPM) hydraulic motor/316 SS pump for open/closed center systems with silicon carbide seals. (NPT): 1- ¹ / ₂ " inlet, 1- ¹ / ₄ " outlet.	114	130	26 lb	9303S-HM1C	2483.71
(5 GPM) hydraulic motor/316 SS pump for open/closed center systems with silicon carbide seals. (NPT): 1- ¹ / ₂ " inlet, 1- ¹ / ₄ " outlet.	97	95	26 lb	9303S-HM2C	2483.71
(20 GPM) hydraulic motor/316 SS pump for open/closed center system with silicon carbide seals. (NPT): 1- ¹ / ₂ " inlet, 1- ¹ / ₄ " outlet.	125	85	26 lb	9303S-HM3C	2573.48
(7 GPM) hydraulic motor/316 SS pump for open/closed center systems with silicon carbide seals. (NPT): 1- ¹ / ₂ " inlet, 1- ¹ / ₄ " outlet.	115	93	26 lb	9303S-HM4C	2483.71
(15 GPM) hydraulic motor/316 SS pump for open/closed center systems with silicon carbide seals. (NPT): 1- ¹ / ₂ " inlet, 1- ¹ / ₄ " outlet.	147	145	26 lb	9303S-HM5C	2483.71
(10 GPM) hydraulic motor/316 SS pump for open/closed center systems with silicon carbide seals. (NPT): 2" inlet, 1- ¹ / ₂ " outlet.	210	115	32 lb	9306S-HM1C	2937.36
(20 GPM) hydraulic motor/316 SS pump for open/closed center systems with silicon carbide seals. (NPT): 2" inlet, 1- ¹ / ₂ " outlet.	190	80	32 lb	9306S-HM3C	3027.14
(15 GPM) hydraulic motor/316 SS pump for open/closed center systems with silicon carbide seals. (NPT): 2" inlet, 1- ¹ / ₂ " outlet.	210	95	32 lb	9306S-HM5C	2937.36

HYPRO® CENTRIFUGAL PUMPS

SERIES 1521C

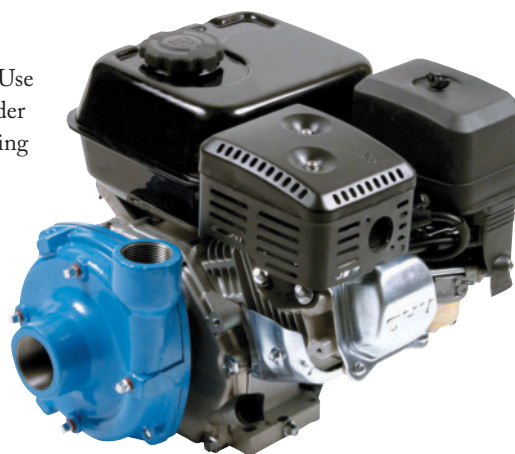
GAS ENGINE DRIVEN, CAST IRON CENTRIFUGAL PUMP

Pentair Hypro centrifugal pumps handle big, high-capacity spraying jobs with ease. Use them for spraying liquid fertilizers and other chemicals, including wetttable powder slurries for weed control. Make short work of other jobs, filling nurse tanks, watering seed beds, and transferring liquids.

Its rugged cast iron housing stands up to strong chemical herbicides.

- PowerPro engine
- Close coupled, engine driven
- Nylon impeller
- Pump seals: Viton/ceramic standard, BunaN/ceramic and Life Guard silicone carbide available
- Weight: 65 lb/29.4 kg
- Max. flow: 110 GPM
- Max. pressure: 70 PSI
- Max. liquid temp: 140°F/60°C

Part No. 1521C-65Price: \$1,590.77



PRESSURE WASHER

HYDRAULIC PRESSURE WASHER FOR AGRICULTURAL AND INDUSTRIAL USE

Hypro's hydraulic pressure washer Model 1802 is ideally suited for remote and explosive-proof environments where electricity can't be used. This smooth-operating triplex plunger pump features an HM1 gerotor motor with double-lip Teflon shaft seals, unloader gauge, and quick disconnect, complete with a 50 foot pressure wash hose, trigger gun, and insulated wand with a Hi-Lo adjustable nozzle.

- Triplex plunger pump flow: 3 GPM at 1000 PSI
- Unloader maximum pressure: 1000 PSI
- Water inlet: ½" NPT
- Water outlet: ¾" quick disconnect
- Hydraulic motor requirements: 5 GPM at 1000 PSI
- Motor inlet and outlet: ½" NPT (F)
- Pressure wash hose: ¾" I.D. 50 ft length, 3000 PSI rating
- Trigger gun: 4000 PSI rating: insulated 22" wand, Hi-Lo adjustable spray pattern nozzle
- Shipping weight: 40 lb

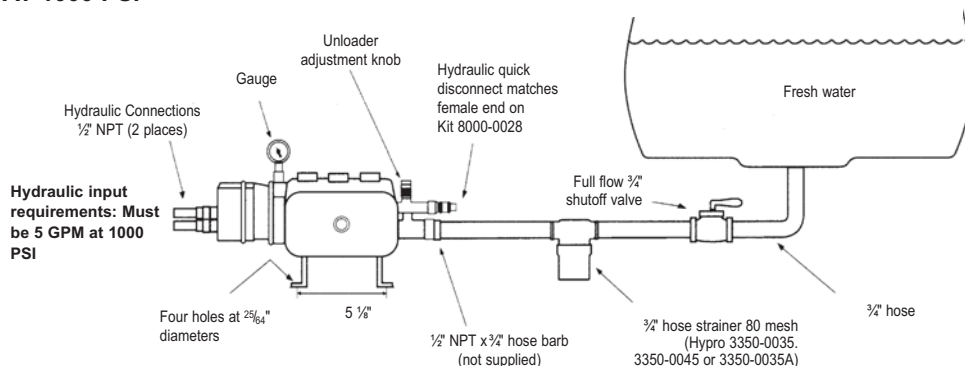
**Mount this washer on your Willmar Air Ride, or any rolling stock.*



Description	Part No.	Price
Complete unit	1802C	2731.48
Unit less hose gun and wand	1803C	2329.30

Some assembly is required to mount and plumb this washer to your equipment. If you have any questions please call our service department

HYDRAULIC PRESSURE WASHER HOOK-UP FOR FLOW OF 3 GPM AT 1000 PSI



- Use 3373-0020 orifice in the pressure port when using a pressure compensated hydraulic pump without flow control
- Requires 4-6 GPM hydraulic oil flow at 1100-1300 PSI inlet pressure 100-300 PSI outlet hydraulic oil pressure
- Kit 8000-0028 includes 50 ft pressure hose, gun wand nozzle, and female quick disconnect
- Tank is mounted even or above the pump. Mount the tank higher if an inlet hose length is over 15 ft

WARNING
DO NOT RUN THE PUMP DRY!

HYPRO® ROLLER PUMPS

POSITIVE DISPLACEMENT CAST IRON, NI-RESIST & SILVERCAST™ PUMP FOR MOST AG CHEMICALS & FLUID TRANSFER APPLICATIONS

Hypro roller pumps are known for their durability and long running capabilities, in fact, Hypro pumps last (on average) 2-½ times longer than the competition. This is due, in part, to the pumps' high "Brinell" rating. Other pumps use a softer iron that can't be finished as smoothly, and consequently, these pumps wear out earlier. Models range from 4-8 rollers per pump and come standard with Hypro's "Super Roller" material. The pumps operate efficiently at PTO speeds of 540 and 1000 RPM. Pressure ranges are up to 300 PSI with flow rates of 2-74 GPM. The pump should be run at maximum pressure for only short periods of time to prevent premature pump failure.

- Housing is available in cast iron, Ni-Resist or SilverCast. Ni-Resist is a high nickel-content alloy for better corrosion resistance. SilverCast is a custom alloy that provides the best corrosion resistance when used with herbicides such as Roundup®
- Self-priming operation; DO NOT run dry
- Easily adaptable to PTO or gas engine drives
- Standard seals are Viton or Buna-N
- Standard super rollers are made from a combination of materials that provide the chemical resistance of nylon and the life of polypropylene. Super Rollers are ideal for use with water-soluble chemicals and emulsifiable concentrates. Super Rollers should not be used with acidic fertilizer. Polypropylene and Teflon rollers are available.

4001 ROLLER SERIES PUMPS



Description	Max. GPM	Max. PSI	Max. RPM	Est. Ship Weight	Part No.	Price
Cast Iron 4-Roller pump with Super Rollers, Viton seals, ¾" NPT ports, and ⅝" solid shaft.	9.0	150	1800	5 lb	4001C-A	251.36
N-Resist 4-Roller pump with Super Rollers, Viton seals, ¾" NPT ports, and ⅝" solid shaft.	9.0	150	1800	5 lb	4001N-A	434.52
4001N pump with ½" hollow shaft	9.0	150	1800	5 lb	4001N-AH	456.06
12 Volt DC motor-driven, Ni-Resist, 4-Roller pump with Super Rollers, Viton seals, ¾" NPT ports, ½" hollow shaft designed for higher pressures.	9.9	60	1600	18 lb	4001N-AE2H	1040.18
SilverCast 4-Roller pump with Super Rollers Viton seal, ¾" NPT ports and ⅝" solid shaft.	9.0	150	1800	5 lb	4001XL-A	642.79
SilverCast 4001XL pump with ½" hollow shaft	9.0	150	1800	5 lb	4001XL-AH	661.94
12 Volt DC motor-driven, SilverCast, 4-Roller pump with Super Rollers, Viton seals, ¾" NPT ports, ½" hollow shaft.	10.4	30	1800	18 lb	4001XL-AEH	1145.52
12 Volt DC motor-driven, SilverCast 4-Roller pump with Super Rollers. Viton seals, ¾" NPT ports, ½" hollow shaft. Designed for Higher Pressures.	9.9	60	1600	18 lb	4001XL-AE2H	1249.64

4101 ROLLER SERIES PUMPS



Model 4101C



Model 4101N

Description	Max. GPM	Max. PSI	Max. RPM	Est. Ship Weight	Part No.	Price
Cast Iron 4-Roller pump with Super Rollers, Viton seals, ¾" NPT ports, and ⅝" solid shaft	7.0	150	2600	5 lb	4101C-A	234.61
4101N pump with ½" hollow shaft.	7.0	150	2600	5 lb	4101N-AH	439.30
12 Volt DC motor-driven, Ni-Resist, 4-Roller pump with Super Rollers, Viton seals, ¾" ports, ½" hollow shaft.	7.0	50	2600	16 lb	4101N-AEH	922.88
12 Volt DC motor-driven, Ni-Resist, 4-Roller pump with Super Rollers. Viton seals, ¾" ports, ½" hollow shaft. Designed for High Pressures.	5.9	100	1600	16 lb	4101N-AE2H	1024.61
SilverCast 4-Roller pump with Super-Rollers, Viton seals, ¾" NPT ports and ⅝" solid shaft.	7.0	150	2600	5 lb	4101XL-A	626.03
SilverCast 4101XL pump with ½" hollow shaft.	7.0	150	2600	5 lb	4101XL-AH	647.58
SilverCast, 12 Volt DC motor-driven, 4-Roller pump with Super Rollers, Viton seals, ¾" ports, ½" hollow shaft.	7.5	50	2600	18 lb	4101XL-AEH	1131.15
SilverCast, 12 Volt DC motor-driven, 4-Roller pump with Super Rollers, Viton seals, ¾" ports, ½" hollow shaft. Designed for Higher Pressures.	5.9	100	1600	18 lb	4101XL-AE2H	1234.09

6500 6-ROLLER SERIES PUMPS



Description	Max. GPM	Max. PSI	Max. RPM	Est. Ship Weight	Part No.	Price
Cast Iron 6-Roller pump with Super Rollers, Viton seals, ¾" NPT ports, and ⅝" solid shaft	22.0	300	1200	9 lb	6500C	253.76
Ni-Resist 6-Roller pump with Super Rollers, Viton seals, ¾" NPT ports, and ⅝" solid shaft	22.0	300	1200	9 lb	6500N	574.55
SilverCast 6-Roller pump with Super Roller, Viton seals, ¾" NPT ports, and ⅝" solid shaft	22.0	300	1200	9 lb	6500XL	809.15

Note: Rotation, clockwise or counterclockwise is determined when looking at the shaft end of the pump.

HYPRO[®] ROLLER PUMPS



1502 6-ROLLER SERIES PUMPS

Description	Max. GPM	Max. PSI	Max. RPM	Est. Ship Weight	Part No.	Price
Cast Iron 6-Roller pump with Super Rollers, Buna-N seal, 1-1/2" NPT ports, and 1/8" solid shaft	62.0	150	1000	27 lb	1502C	803.17
Ni-Resist 6-Roller pump with Super Rollers, Buna-N seals, 1-1/2" NPT ports, and 1/8" solid shaft	62.0	150	1000	26 lb	1502N	1327.44
SilverCast 6-Roller pump with Super Rollers, Viton seals, 1-1/2" NPT ports, and 1/8" solid shaft	62.0	150	1000	26 lb	1502XL	1830.17

Note: Rotation, clockwise or counterclockwise is determined when looking at the shaft end of the pump.



1700 6-ROLLER SERIES PUMPS

Description	Max. GPM	Max. PSI	Max. RPM	Est. Ship Weight	Part No.	Price
Cast Iron 5-Roller pump with Super Rollers, Viton seals, 1" NPT ports, and 1/8" solid shaft	45.0	200	1000	20 lb	1700C	521.88
Ni-Resist 5-Roller pump with Super Rollers, Viton seals, 1" NPT ports, and 1/8" solid shaft	45.0	200	1000	21 lb	1700N	1080.86
SilverCast 5-Roller pump with Super Rollers, Viton seals, 1" NPT ports, and 1/8" solid shaft	45.0	200	1000	20 lb	1700XL	1460.30

Note: Rotation, clockwise or counterclockwise is determined when looking at the shaft end of the pump.



7560 8-ROLLER SERIES PUMPS

Description	Max. GPM	Max. PSI	Max. RPM	Est. Ship Weight	Part No.	Price
Cast Iron 8-Roller pump with Super Rollers, Viton seals, 3/4" NPT ports, and 1/8" solid shaft	22.0	300	1000	13 lb	7560C	332.76
Ni-Resist 8-Roller pump with Super Rollers, Viton seals, 3/4" NPT ports, and 1/8" solid shaft	22.0	300	1000	14 lb	7560N	655.94
SilverCast 8-Roller pump with Super Rollers, Viton seals, 3/4" NPT ports, and 1/8" solid shaft	22.0	300	1000	13 lb	7560XL	962.36

Note: Rotation, clockwise or counterclockwise is determined when looking at the shaft end of the pump.



7700 7-ROLLER SERIES PUMPS

Description	Max. GPM	Max. PSI	Max. RPM	Est. Ship Weight	Part No.	Price
Cast Iron 7-Roller pump with Super Rollers, Viton seals, 3/4" NPT ports, and 1/8" solid shaft	22.4	200	800	14 lb	7700C	338.74
Ni-Resist 7-Roller pump with Super Rollers, Viton seals, 3/4" NPT ports, and 1/8" solid shaft	22.4	200	800	14 lb	7700N	655.94
SilverCast 7-Roller pump with Super Rollers, Viton seals, 3/4" NPT ports, and 1/8" solid shaft	22.4	200	800	14 lb	7700XL	986.30

Note: Rotation, clockwise or counterclockwise is determined when looking at the shaft end of the pump.



ROLLER PUMP ACCESSORIES

Description	Part No.	Price
540 RPM 1-3/8" PTO adapter for Series 6500	1320-0022	29.92
540 RPM 1-3/8" PTO adapter for Series 1502, 1700, 7560, and 7700	1320-0033	43.39
540 RPM 1-3/8" PTO adapter for Series 1200, 5200	1320-0081	90.37
540 RPM 1-3/8" Forged Steel PTO adapter for Series 1500, 1700, 7560 and 7700	1320-0076	48.18
1000 RPM 1-3/8" Forged Steel PTO adapter for Series 1500, 1700 and 7560	1320-0078	58.35
1000 RPM 1-3/4" Forged Steel PTO adapter for Series 1500, 1700 and 7560	1320-0080	87.68
Multi-Speed 1-3/8" Cast Quick Coupler for Series 6500	1321-0012	57.75
Multi-Speed 1-3/8" Cast Quick Coupler for Series 7560 and 7700	1321-0013	61.34
540 RPM 1-3/8" Quick Coupler for Model 6500	1321-0006	58.95
540 RPM 1-3/8" Quick Coupler for 1500,1700, 7560 & 7700	1321-0007	64.04
Shaft adapter (5/8" x 5/8" I.D. 3-1/4" long) for gas engine Mount (4101 only).	320-0016	46.38
Base Kit for electric motor drive - 3-1/2" Shaft Centerline (4001, 4101).	3420-0024	47.28
Base Kit for gas engine drive - 4- 3/16" shaft centerline (4101 only).	3420-0025	51.47
Repair Kit - consists of 4 Super Rollers, 1 cap-ring gasket, and 2 Viton seals	3430-0390	42.19

HYPRO® PISTON PUMPS

SERIES 5300 SMALL TWIN PISTON PUMPS

The Series 5300 twin piston is the ideal unit for many of the cleaning jobs around the house or farm. Weighing only 10 pounds, the pump still delivers up to 500 PSI for those tough jobs. Cast iron body, stainless steel shaft, heavy-duty ball bearings, and rubber piston cups handle water, soaps, and detergents.

- Bearings: ball-type factory lubricated
- Valves: stainless steel seat, unitized
- Ports: ½" national pipe thread
- Body: cast iron
- Max. capacity: 2 GPM (5320 Models)
3 GPM (5330 Models)
- Max. pressure: 500 PSI
- Max. speed: 1800 RPM
- Max. temp.: 140°F
- Ports: ½" national pipe thread
- Max. temp. Teflon: 180°F



SERIES 5300 PERFORMANCE CHART PERFORMANCE AT 1800 RPM

Model	50 PSI		100 PSI		200 PSI		300 PSI		400 PSI		500 PSI	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
5320	2.28	.26	2.26	.32	2.25	.44	2.22	.56	2.21	.66	2.20	.80
5330	3.29	.37	3.26	.46	3.22	.63	3.17	.79	3.12	.94	3.10	1.10

SERIES 5300 SMALL TWIN PUMPS

Description	Piston Cups	Max. GPM	Est. Ship Weight	Part No.	Price
Cast Iron - 5/8" solid shaft with base	Leather	2	10 lb	5320C-X	599.68
	Buna-N	2	10 lb	5320C-RX	599.68
	Teflon	2	10 lb	5320C-CX	640.38
Cast Iron - 5/8" hollow shaft with torque arm	Leather	2	10 lb	5320C-HX	599.68
	Buna-N	2	10 lb	5320C-HRX	599.68
	Teflon	2	10 lb	5320C-CHX	640.38
Cast Iron - 5/8" solid shaft with base	Leather	3	10 lb	5330C-X	599.70
	Buna-N	3	10 lb	5330C-RX	599.68
	Teflon	3	10 lb	5330C-CX	640.38
Cast Iron - 5/8" hollow shaft with torque arm	Leather	3	10 lb	5330C-HX	599.68
	Buna-N	3	10 lb	5330C-HRX	599.68
	Teflon	3	10 lb	5330C-CHX	640.38

SERIES 5200 TWIN PISTON PUMPS

The Series 5200 delivers volume and high pressure needed for efficient spraying or cleaning. Solid shaft models can be driven with belt and pulley while hollow shaft model is designed to mount directly on a 1-3/8 inch 540 RPM PTO. Maximum pressure to 400 PSI on both 6 and 10 gallon-per-minute models. See performance chart for specific pressure, volume and speed combinations.

- Bearings: ball-type factory lubricated
- Valves: stainless steel, unitized
- Ports: ¾" national pipe thread
- Body: cast iron
- Max. speed: 800 RPM
- Max. pressure: 400 PSI
- Ports: ¾" national pipe thread
- Max. temperature: 140°F



PISTON PUMPS SERIES 5200 BIG TWIN® PUMPS

Description	Piston Cups	Max. GPM	Part No.	Price
Cast Iron pump, Ni-Resist cylinder sleeves 1" solid shaft with Base	Leather	6	5206C	1048.55
Cast Iron pump, Ni-Resist cylinder sleeves 1-3/8" Fabric hollow shaft with base for 540 RPM PTO	Fabric	6	5206C-F	1065.30
Cast Iron pump, Ni-Resist cylinder sleeves 1-3/8" Fabric hollow shaft with base for 540 RPM PTO	Leather	6	5206C-H	1048.55
Cast Iron pump, Ni-Resist cylinder sleeves 1" solid shaft with base	Fabric	6	5206C-FH	1065.30
Cast Iron pump, Ni-Resist cylinder sleeves 1" solid shaft with base	Leather	10	5210C	1048.55
Cast Iron pump, Ni-Resist cylinder sleeves 1-3/8" fabric hollow shaft with base for 540 RPM PTO	Fabric	10	5210C-F	1065.30
Cast Iron pump, Ni-Resist cylinder sleeves 1-3/8" fabric hollow shaft with base for 540 RPM PTO	Leather	10	5210C-H	1048.30
	Fabric	10	5210C-FH	1065.30

HYPRO® DIAPHRAGM PUMPS

HEAVY-DUTY POSITIVE DISPLACEMENT PUMPS FOR ABRASIVE SLURRIES AND SUSPENSIONS

Hypro diaphragm pumps are compact and available in a wide spectrum of flows to suit most ag spraying requirements. These quality pumps feature oil bath design with pressures for row crop to treetop spraying applications.

There are multiple pump models to choose from, models that can be driven by 530 rpm PTOs or 3 to 25 hp gasoline engines. Pressure range from 0 to 850 PSI with flow rates from 3.2 to 62 GPM.

- Oil bath design and premium quality synthetic diaphragms provide longer life and greater reliability
- Self-priming operation
- Easily adaptable to PTO or gas engine drives
- Corrosive, abrasive, and general use chemical compatibility
- Visual oil-level sight glass
- Maximum fluid temperature: 140° F
- Can be run dry

LOW PRESSURE DIAPHRAGM PUMPS



Description	Max. GPM	Max. PSI	Max. RPM	Est. Ship Weight	Part No.	Price
2 diaphragm pump - 1" HB inlet, 3/4" HB outlet. Select shaft kit for desired drive.	19	290	550	25 lb	9910-D70	1515.36
3/4" hollow shaft with gear reduction for 5 hp gasoline engine	19	290	3600	31 lb	9910-D70GR	2520.82
3 diaphragm pump - 1-1/2" HB inlet, 1" HB outlet. Select shaft kit for desired drive.	30.1	290	550	34 lb	9910-D115	2275.44
3/4" hollow shaft with gear reduction for 5 hp gasoline engine	30.1	290	3600	44 lb	9910-D115GR34	3048.68
3 diaphragm pump - 1-1/2" HB inlet, 1" HB outlet. 1-3/8"-6B splined shaft.	34.8	290	550	38 lb	9910-D135	2452.59
4 diaphragm pump - 2" HB inlet, 1-1/2" HB outlet. 1-3/8"-6B male spline thru shaft.	42.5	290	550	66 lb	9910-D160	4031.39
6 diaphragm pump - 2" HB inlet, 1-1/2" HB outlet. 1-3/8"-6B male spline thru shaft.	66	290	550	90 lb	9910-D250	5078.74

MEDIUM PRESSURE DIAPHRAGM PUMPS



Description	Max. GPM	Max. PSI	Max. RPM	Est. Ship Weight	Part No.	Price
2 diaphragm pump 3/4" HB inlet, 3/8" NPT outlet. D19 3/4" solid keyed shaft. D19GRGI-D19 with control unit 809060 and gearbox for 3 hp gas engine. 3/4" ID	5.3	363	650	12 lb	9910-D252	1092.53
				14 lb	9910-D252GRGI	1511.77
2 diaphragm pump 1" HB inlet. 1/2" HB outlet. D30AP-A 3/4" solid extended shaft. Select shaft kit or gear reduction.	9.5	580	550	23 lb	9910-D30	1365.74
				24 lb	9910-D30AP-A	1456.71
2 diaphragm pump with GS40GI control unit & gear reduction fits 5 hp gas engine B version with Buna-N diaphragms	9.5	580	3600	33 lb	9910-D30GRGI	2449.00
				32 lb	9910-D30-B-GRGI	2449.00
3 diaphragm pump 1" H.B. inlet, 1/2" H.B. outlet	10.6	580	550	23 lb	9910-D403	1412.42
3 diaphragm pump with GR40 control unit & gear reduction that fits 5 - 6 hp gas engines.	10.6	580	3600	32 lb	9910-D403GRGI	2571.09
2 diaphragm pump 1-1/4" HB inlet, 1/2" HB outlet.	14.0	580	550	35 lb	9910-D50	1934.30
D50AP-A 1" solid extended shaft. Select shaft kit with base or gear reduction.				37 lb	9910-D50AP-A	2026.47
3 diaphragm pump 1-1/4" HB inlet, 3/4" NPT outlet.	15.0	580	550	28 lb	9910-D503	1934.30
3 diaphragm pump-assembled with gearbox 9910-KIT1642 & control 9910-RM40 for mounting on 8 hp gas engines.	15.0	580	3600	41 lb	9910-D503GRGI	3280.89
3 diaphragm pump-assembled with gearbox 9910-KIT1640 & control 9910-RM40 for mounting on 5 - 6-1/2" hp gas engines.	15.0	300	3600	41 lb	9910-D503GRGI34	3091.77

HIGH PRESSURE DIAPHRAGM PUMPS



Description	Max. GPM	Max. PSI	Max. RPM	Est. Ship Weight	Part No.	Price
3 diaphragm pump 1-1/4" HB inlet, 3/4" NPT outlet. Select shaft kit or gearbox. 1-3/8" 6B male spine extended shaft.	21.4	725	550	48 lb	9910-D813	2408.30
3 diaphragm pump assembled with gearbox 9910-KIT 1642 and control 9910-VDR50 for mounting on 11 hp gas engines.	21.4	725	3600	66 lb	9910-D813GRGI	4122.36
4 diaphragm pump 1-1/2" HB inlet, 3/4" NPT outlet. Select shaft kit or gearbox. 1-3/8" 6B male 6 spline extended shaft.	28	725	550	54 lb	9910-D1064	2727.89
4 diaphragm pump assembled with gearbox 9910-KIT 1642 and control 9910-VDR50 for mounting on 18 hp gas engines.	28	725	3600	76 lb	9910-D1064GRGI	4440.76
5 diaphragm pump 1-1/2" HB inlet, 3/4" NPT outlet. 1-3/8" 6B splined thru-shaft.	33.2	725	550	67 lb	9910-DBA140	4134.33

Due to size & weight of pump, only truck routing is recommended. Hypro will not be responsible for damage in shipment for other transit requests.

HYPRO[®] DIAPHRAGM PUMP CONTROL UNITS

CONTROL UNITS



Description	Max. GPM	Max. PSI	Est. Ship Weight	Part No.	Price
Control unit for Model 9910-12GRGI. Includes relief valve and two 3/8" hose barb outlets.	3.5	290	1 lb	9910-KIT1994	191.52
Control unit for mounting on Model 9910-D252 pumps Includes relief valve and pressure/bypass selector. 5/8" HB bypass port and 3/8" HB outlet.	6	290	1 lb	9910-KIT1990	175.95
Control unit for mounting Model 9910-D30 and 9910-D50 pumps. Includes high pressure relief valve and two 1/2" HB outlets with individual shutoffs.	21	580	3.5 lb	9910-GS40GI	384.23
Remote mounting kit for 9910-GS40GI or 9910-GR40 control unit.			1 lb	9910-KIT1741	83.49
Control unit for 9910-D303 & D403 Model pumps include adjustable high pressure relief valves, complete bypass lever, 2-1/2" gauge, outlet barbs & 5/8" bypass barb.	11	580	2 lb	9910-GR40	472.80
Remote control unit for Model 9910-D503 pumps Includes high pressure relief valve and two 1/2" HB outlets with individual shutoffs.	24	580	3.5 lb	9910-RM40	472.80
Remote mounting kit for 9910-RM40.			2 lb	9910-KIT1897	210.67
Control unit for mounting on Model 9910-D813, -D1064, -D1265, -D1516, -D1554 pumps. Includes high pressure relief valve and three 1/2" HB outlets with individual shutoffs.	48	725	8.5 lb	9910-GS50GI	749.30
Remote mounting kit for 9910-GS50GI control unit.			1 lb	9910-KIT1742	146.03
Remote control unit for Model 9910-D503, -D703, -D904 and -D1105 pumps. Includes high pressure relief valve and three 1/2" HB outlets with individual shutoffs.	35	700	3.5 lb	9910-VDR50	902.52
Remote control unit for Models 9910-D60,-D100, -D120 and -D150 pumps. Includes built-in relief valve and three 3/4", 1/2", & 3/8" HB outlets with individual shutoffs.	40	275	7.75 lb	3300-0087	749.30
3300-0088 includes main shutoff valve.			7 lb	3300-0088	1104.80
Remote control unit for Model 9910-D230 pumps Includes built-in relief valve, main shutoff valve, and four 3/4" HB outlets with individual shutoffs.	63	250	18 lb	3300-0082	1703.29

HYPRO CLEANLOAD™ CHEMICAL EDUCTOR

The optional Cleanload Suction Lance is a snap-in attachment for remote loading of bulk chemical containers. The suction lance works with 05T5 models only.

The Cleanload Base Kit easily bolts onto Cleanload frame for floor mounting, making it ideal for use on nurse tanks. The Cleanload Base Kit works with all Cleanload models.

- Mix liquid and dry chemicals safely and quickly
- All crop protection is mixed at ground level increasing operator safety
- 5.5 gal. hopper
- Stainless steel venturi provides highest eduction rate and durability against all chemicals
- Standard tank and bottle rinse
- Optional suction lance and base frame

Description	Part No.	Price
Chemical Eductor	3374P-05T5	1902.00
Suction Lance	3430-0594	252.56
Base Kit	3430-0596	118.20
SS Eductor	3371-0034S	408.17



HYPRO® SPRAY GUNS AND ACCESSORIES



ADJUSTABLE PATTERN SPRAY GUNS

Barrel Length	Port- NPT	Max. Pressure	Max.Capacity	Est. Ship Weight	Part No.	Price
17"	½" inlet (M)	1200 PSI	25 GPM	5 lb	3381-0010	289.67
21"	½" inlet (M)	1200 PSI	30 GPM	6 lb	3381-0011	397.39
—	½" inlet (M)	700 PSI	19 GPM	1.4 lb	3381-0013	251.36
21"	¾" - ½" hose barb	120 PSI	78 oz	1 lb	3381-0021	40.40
7-¼"	¾" - ½" hose barb	600 PSI	4.5 GPM	2 lb	3381-0043	150.82
18"	¾" - ½" hose barb	600 PSI	4.5 GPM	2 lb	3381-0043L	168.77

Note: Guns come equipped with ½" hose barb inlet simply remove hose barb for ½" NPT (M) inlet.



9910-KIT1640



9910-KIT1642

GEAR REDUCTION KITS

Description	Est. Ship Weight	Part No.	Price
For Model 9910-D30 pumps 6:1 gear box for standard 5 hp gas engine with ¾" shaft	6.5 lb	9910-KIT1640	892.94
For Model 9910-D50, D503, D703, D904, D1265 pumps 6:1 gear box for standard 8-18 hp gas engine with 1" shaft.	8.5 lb	9910-KIT1642	1115.58

Note: Guns come equipped with ½" hose barb inlet simply remove hose barb for ½" NPT (M) inlet.



1 IN. SOLID SHAFT KITS

Description	Est. Ship Weight	Part No.	Price
For Model 9910-D30 pumps	2.5 lb	9910-KIT1703	226.23
For Model 9910-D50 pumps	3.75 lb	9910-KIT1707	280.09
For Model 9910-D60 and Model 9910-D100 pumps	5 lb	9910-KIT1711	396.20
For Model 9910-D503 pumps	3.75 lb	9910-KIT2202	203.48
For Model 9910-D703, D904, D1265 pumps	3.75 lb	9910-KIT2203	203.48

Kits include solid shaft adapter, mounting bracket and necessary hardware.



1-¾ IN. - 6B FEMALE PTO SHAFT KITS

Description	Est. Ship Weight	Part No.	Price
For Model 9910-D50 pumps	7 lb	9910-KIT1704	377.05
For Model 9910-D60 and Model 9910-D100 pumps	5.25 lb	9910-KIT1708	342.33
For Model 9910-D503 pumps	7 lb	9910-KIT2204	339.94

Kits include female PTO coupler and retaining clamp, torque arm and mounting bracket, chains, and necessary hardware.



1-¾ IN. - 6B MALE PTO SHAFT KITS

Description	Est. Ship Weight	Part No.	Price
For Model 9910-D30 pumps	3 lb	9910-KIT1702	226.23
For Model 9910-D50 pumps	4.25 lb	9910-KIT1706	280.09
For Model 9910-D60 and Model 9910-D100 pumps	5.5 lb	9910-KIT1710	397.39
For Model 9910-D503 pumps	4.25 lb	9910-KIT2200	203.48
For Model 9910-D703, D904, D1265 pumps	4.25 lb	9910-KIT2201	203.48

Kits include male PTO shaft adapter, mounting bracket and necessary hardware.

HYPRO® PUMP PARTS BREAKDOWNS

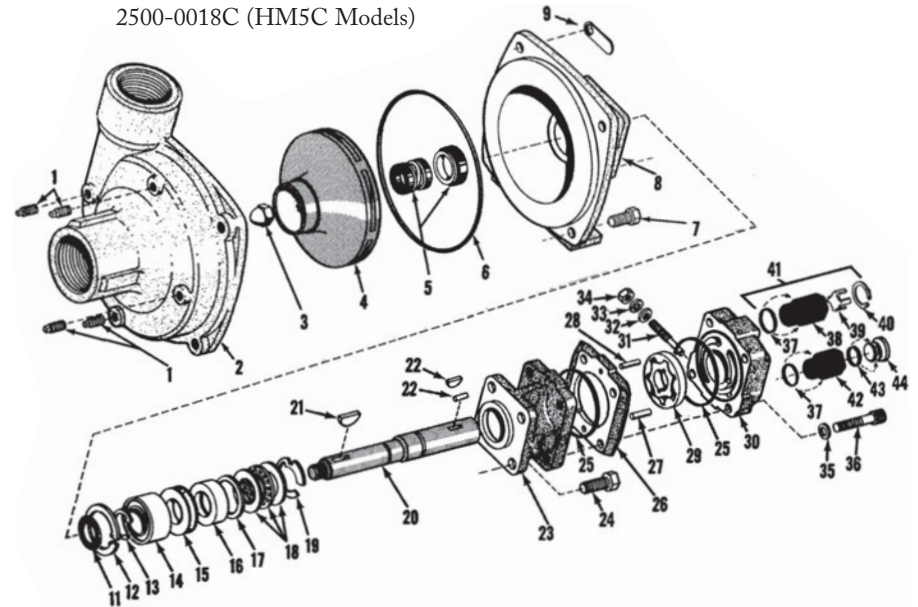
MODELS 9303C-HM1C, 9303C-HM2C, 9303C-HM3C, 9303C-HM4C, & 9303C-HM5C

Seal, O-ring Repair Kit. No. 3430-0332
 Includes: (1) O-ring, ref. 5
 (1) Mechanical seal (Viton), ref. 6

Parts Kit No. 3430-0748
 Includes: (1) Ball bearing, ref. 14,
 (1) Motor shaft seal, ref. 16
 (1) Thread seal gasket, ref. 32
 (1) Washer, ref. 33
 (2) Motor housing O-rings, ref. 25
 (2) Port adapter O-rings, ref. 37

Adapter Kit No. 3430-0187
 (HM4 models only):
 Includes: (1) O-ring, ref. 37
 (1) Pressure port adapter, ref. 42
 (1) Metering orifice, ref. 44
 (3) Orifice O-ring, ref. 43
 (3) Metering orifices
 (1) No. 3373-0020 (Size #1)
 (1) No. 3373-0021 (Size #2)
 (1) No. 3373-0022 (Size #3)

Hydraulic Motor Part Numbers
 2500-0009C (HM1 Models)
 2500-0010C (HM2 Models)
 2500-0011C (HM3 Models)
 2500-0012C (HM4 Models)
 2500-0018C (HM5C Models)



Ref. No.	Qty. Req'd	Part No.	Description
1	4	2406-0007	Drain/vent plug
2	1	0150-9000C	Pump casing (Volute)
3	1	2253-0002	Impeller nut
4	1	0401-9100P	Impeller (standard Nyglass)
4	1	0402-9100P	Impeller (optional polypropylene)
5	1	2120-0008	Mechanical seal (Buna-N) 9301 Models
5	1	2120-0009	Mechanical seal (Viton) 9303 Models
6	1	1720-0083	O-ring
7	4	2210-0020	Hex head capscrew
8	1	0750-9300C	Mounting flange
11	1	1410-0056	Slinger ring
12	1	1820-0013	Retaining ring
13	1	1810-0014	Snap ring
14	1	2000-0010	Ball bearing
15	1	1410-0073	Spacer
16	1	2104-0005	Shaft seal
17	1	1410-0074	Seal spacer
18	1	2029-0014	Thrust bearing assembly - consists of: (1) thrust bearing & (2) thrust bearing races
19	1	1810-0026	Snap ring
20	1	0509-2500	Shaft (HM2 & HM4 Models) 6-3/4" long
20	1	0511-2500	Shaft (HM1 Model) 7" long
20	1	0510-2500	Shaft (HM3 Model) 7-1/2" long
21	1	1610-0012	Woodruff key
22	1	1610-0032	Roll pin (HM2 & HM4 Models)
22	1	1610-0031	Roll pin (HM1 Models)
22	1	1610-0030	Woodruff key (HM3 Models)
23	1	0151-2500A	Front motor body (includes main bearing)
24	4	2210-0005	Hex head capscrew
25	2	1720-0110	O-ring
26	1	0701-2500A	Gerotor housing (HM2 Model) 1/4" Wide

Ref. No.	Qty. Req'd	Part No.	Description
26	1	0700-2500A	Gerotor housing (HM1 Model) 1/2" wide
26	1	0703-2500A	Gerotor housing (HM4 Model) 5/16" wide
26	1	0702-2500A	Gerotor housing (HM3 Model) 1" wide
27	1	1600-0045	Dowel pin (HM2 & HM4 Models)
27	1	1600-0044	Dowel pin (HM1 Models)
27	1	1600-0052	Dowel pin (HM3 Models)
28	1	1600-0042	Dowel pin (HM2 & HM4 Models)
28	1	1600-0037	Dowel pin (HM1 Models)
28	1	1600-0051	Dowel pin (HM3 Models)
29	1	3900-0023	Gerotor (HM2 Models)
29	1	3900-0022	Gerotor (HM1 Models)
29	1	3900-0025	Gerotor (HM4 Models)
29	1	3900-0024	Gerotor (HM3 Models)
30	1	0251-2500A	Motor end plate (includes main bearing)
31	1	3220-0029	Bypass adjusting screw
32	1	1700-0047	Gasket
33	1	2270-0027	Washer
34	1	2250-0038	Lock nut
35	4	2270-0039	Washer
36	4	2220-0045	Capscrew (HM2 & HM4 Models)
36	4	2220-0021	Capscrew (HM1 Model)
36	4	2220-0044	Capscrew (HM3 Model)
37	2	1720-0108	O-ring
38	1	3320-0016	Tank port adapter
39	1	3260-0039	Poppet
40	1	1820-0023	Retaining ring
42	1	3360-0021	Pressure port adapter
43	1	1720-0105	Orifice O-ring (HM2 & HM4 Models only)
44	1	3373-0020	Metering orifice (HM2 & HM4 Models only)
		3373-0021	
		3373-0022	
45	1	1700-0100	Rubber gasket

HYPRO® PUMP PARTS BREAKDOWNS

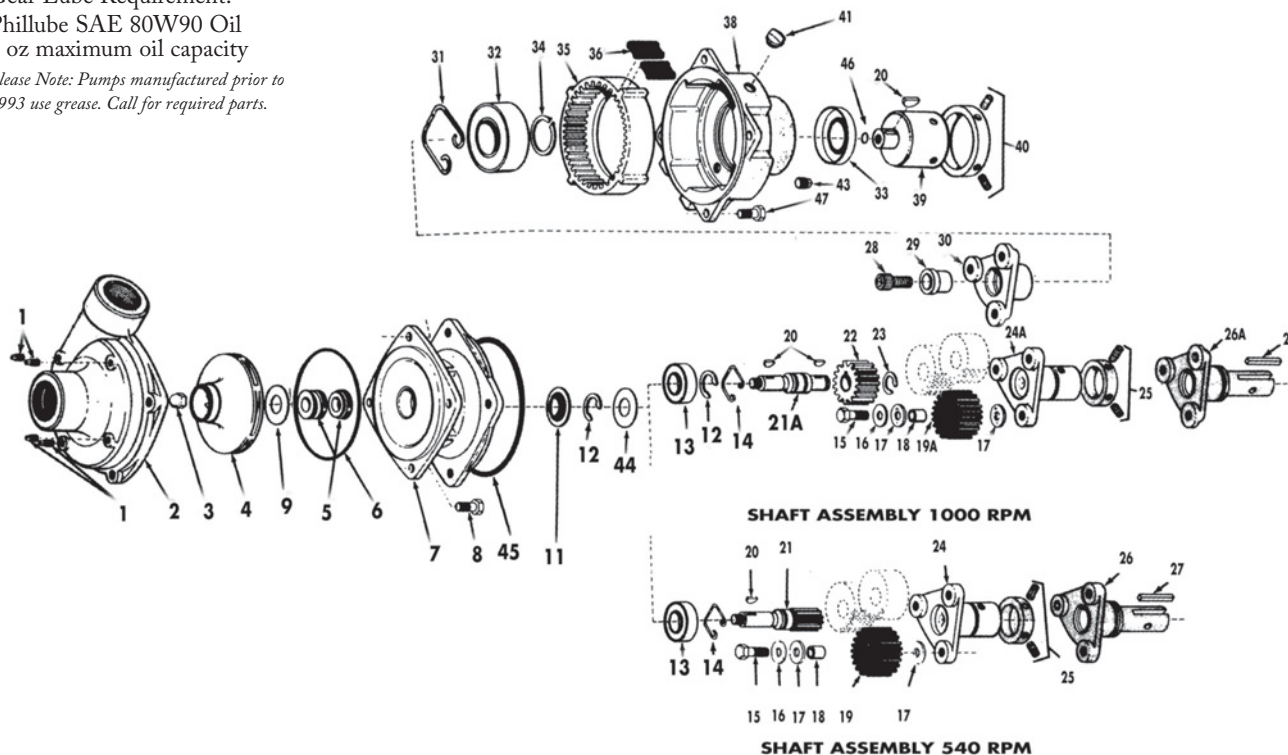
MODELS 9000C-0, 9002C-0, 9006C-0, 9008C-0, 9016C-0, 9018C-0, 9022C-0, & 9028C-0

Seal, O-ring Repair Kit No. 3430-0334

- Includes: (1) Mechanical seal, ref. 5
- (1) O-ring, ref. 6

Gear Lube Requirement:
Phillube SAE 80W90 Oil
6 oz maximum oil capacity

Please Note: Pumps manufactured prior to 1993 use grease. Call for required parts.



Ref. No.	Qty. Req'd	Part No.	Description
1	4	2406-0007	Drain plug
2	1	0150-9000C	Pump casing
3	1	2253-0001	Impeller nut
4	1	0400-9000P	Impeller (nylon)
5	1	2120-0010	Mechanical seal (optional Buna-N)
5	1	2120-0011	Mechanical seal (standard Viton)
6	1	1720-0083	O-ring
7	1	0752-9000C	Mounting flange adapter
8	4	2210-0020	Hex head capscrew
9	1	1700-0101	Gasket
11	1	2130-0018	Bearing lip seal
12	*	1810-0013	Retaining ring – (1) required for 540 RP (2) for 1-3/8" and (3) for 1-3/4" 1000 RPM
13	1	2008-0001	Ball bearing
14	1	1820-0025	Retaining ring
15	3	2210-0046	Capscrew
16	3	2270-0003	Washer
17	6	2265-0003	Thrust washer
18	3	2007-0022	Bearing inner race
19	3	3900-0039	Driver gear with bearing (540 RPM)
19A	3	3900-0040	Driver gear with bearing (1000 RPM)
20	**	1610-0012	Woodruff key ** (1) req'd for 540 RPM (2) req'd for 1000 RPM models
21	1	3900-0010	Impeller shaft/pinion gear (540 RPM)
21A	1	0500-9002	Impeller shaft (1000 RPM)

Ref. No.	Qty. Req'd	Part No.	Description
22	1	3900-0013	Sun gear (1000 RPM)
23	1	1810-0011	Retaining ring (1000 RPM)
24	1	0562-9000D	Driver hub (Models 9000C, 9006C)
24A	1	0562-9002D	Driver hub (Models 9002C, 9008C)
25	1	3430-0176	Locking Collar Kit (hollow shaft only)
26	1	0501-9016D	Driver hub (Models 9010C, 9016C)
26A	1	0501-9018D	Driver hub (Models 9012C, 9018C, 9038C)
27	1	1610-0005	Key
28	1	2220-0035	Capscrew (9022C, 9028C)
29	1	2403-0012	Bushing (Models 9022C, 9028C)
30	1	0501-9018D1	Driver hub (Models 9022C, 9028C)
31	1	1800-0014	Retaining ring
32	1	2005-0002	Ball bearing
33	1	2102-0025	Oil seal
34	1	1810-0001	Retaining ring
35	1	3900-0009	Ring gear
36	8	1450-0004	Cushion bumper
37	4	2210-0026	Hex head capscrew
38	1	0754-9000C	Gear casing
39	1	0550-1322F4	Driver hub (9022C, 9028C)
40	1	3430-0190	Locking Collar Kit (9022C, 9028C)
41	1	2404-0193	Breather vent
43	3	2406-0019	Oil plug
44	1	1700-0098	Gasket
45	1	1720-0139	O-ring
46	1	1720-0022	O-ring

HYPRO® PUMP PARTS BREAKDOWNS

MODELS 9304C-HM1C, 9304C-HM3C, & 9304C-HM5C

Repair Parts Kit No. 3430-0332

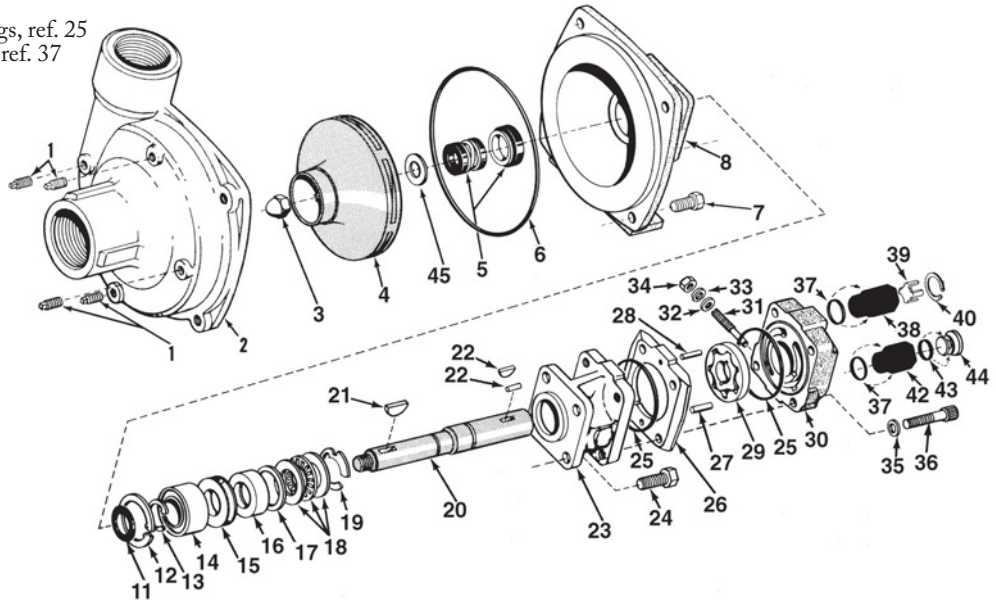
- Includes: (1) Mechanical seal, ref. 5,
 (1) O-ring, ref. 6
 (1) Rubber gasket, ref. 45

Parts Kit No. 3430-0748

- Includes: (1) Ball bearing, ref. 14
 (1) Motor shaft seal, ref. 16
 (1) Thread seal gasket, ref. 32
 (1) Washer, ref. 33
 (2) Motor housing O-rings, ref. 25
 (2) Port adapter O-rings, ref. 37

Hydraulic Motor Part Numbers

- 2500-0011C (HM3C Models)
 2500-0018C (HM5C Models)
 2500-0009C (HM1C Models)



Ref. No.	Qty. Req'd	Part No.	Description
1	4	2406-0007	Drain/vent plug
2	1	0151-9200C	Pump casing (Volute) (includes stainless steel wear ring)
3	1	2253-0002	Impeller nut
4	1	0401-9200P1	Impeller
5	1	2120-0009	Mechanical seal (Viton)
6	1	1720-0083	O-ring
7	4	2210-0020	Hex head capscrew
8	1	0750-9300C	Mounting flange
11	1	1410-0056	Slinger ring
12	1	1820-0013	Retaining ring
13	1	1810-0014	Snap ring
14	1	2000-0010	Ball bearing
15	1	1410-0073	Spacer
16	1	2104-0005	Shaft seal
17	1	1410-0074	Seal spacer
18	1	2029-0014	Thrust bearing assembly - consists of: (1) thrust bearing & (2) thrust bearing races
19	1	1810-0026	Snap ring
20	1	0510-2500	Shaft (HM3C Model) 7-1/2" long
20	1	0511-2501	Shaft (HM1C & HM5C Models) 7" long
21	1	1610-0012	Woodruff key
22	1	1610-0030	Woodruff key (HM3C Models)
22	1	1610-0031	Roll pin (HM1C and HM5C Models)
23	1	0151-2500C	Front motor body (includes main bearing)
24	4	2210-0005	Hex head capscrew
25	2	1720-0110	O-ring

Ref. No.	Qty. Req'd	Part No.	Description
26	1	0700-2500C	Gerotor housing (HM1C Model) 1/2" wide
26	1	0702-2500C	Gerotor housing (HM3C Model) 1" wide
26	1	0704-2500C	Gerotor housing (HM5C Model) 5/8" wide
27	1	1600-0052	Dowel pin (HM3C Models)
27	1	1600-0044	Dowel pin (HM1C and HM5C Models)
28	1	1600-0051	Dowel pin (HM3C Model)
28	1	1600-0037	Dowel pin (HM1C and HM5C Models)
29	1	3900-0022	Gerotor (HM1C Model)
29	1	3900-0024	Gerotor (HM3C Model)
29	1	3900-0048	Gerotor (HM5C Model)
30	1	0251-2500C	Motor end plate (includes main bearing)
31	1	3220-0029	Bypass adjusting screw
32	1	1700-0047	Gasket
33	1	2270-0027	Washer
34	1	2250-0038	Lock nut
35	4	2270-0039	Washer
36	4	2220-0044	Capscrew (HM3C Models)
36	4	2220-0021	Capscrew (HM1C)
36	4	2840-0039	Right shield half (1000 RPM)
36	1	2220-0032	Capscrew (HM5C Models)
37	2	1720-0108	O-ring
38	1	3320-0016	Tank porter adapter
39	1	3260-0039	Poppet
40	1	1820-0023	Retaining ring
42	1	3360-0021	Pressure port adapter
45	1	1700-0100	Rubber gasket
46	1	2270-0071	Washer

HYPRO[®] PUMP PARTS BREAKDOWNS

MODEL 9306C

Repair Parts Kit No. 3430-0332

- Includes: (1) Mechanical seal, ref. 7
 (1) O-ring, ref. 5
 (1) Rubber gasket, ref. 6

Parts Kit No. 3430-0748

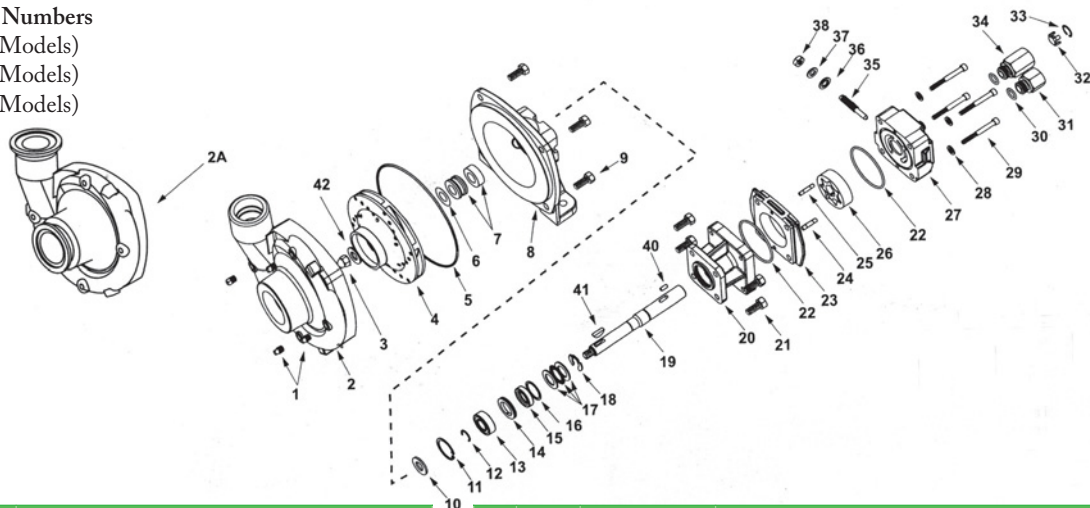
- Includes: (1) Ball bearing, ref. 13
 (1) Motor shaft seal, ref. 15
 (1) Thread seal gasket, ref. 36
 (1) Washer, ref. 37
 (2) Motor housing O-rings, ref. 22
 (2) Port adapter O-rings, ref. 30

Hydraulic Motor Part Numbers

2500-0009C (HM1C Models)

2500-0011C (HM3C Models)

2500-0018C (HM5C Models)



Ref. No.	Qty. Req'd	Part No.	Description
1	4	2406-0007	Drain/vent plug
2	1	0154-9200C1	Pump casing (Volute) (includes stainless steel wear ring)
2	1	0151-9200C	Pump casing (Volute)(includes stainless steel wear ring) (9034C)
2A	1	0157-9200C	Pump casing (universal flange)
3	1	2253-0002	Impeller nut
4	1	0401-9200P2	Impeller
5	1	1720-0083	O-ring
6	1	1720-0100	Rubber gasket
7	1	2120-0009	Mechanical seal (Viton/Ceramic) (Std)
7	1	3430-0589	Mechanical seal (silicon carbide) (Opt.)
8	1	0750-9300C2	Mounting flange
8	1	0750-9300C	Mounting flange (9034C)
9	4	2210-0020	Hex head cap screw
10	1	1410-0056	Slinger ring
11	1	1820-0013	Retaining ring
12	1	1810-0014	Snap ring
13	1	2000-0010	Ball bearing
14	1	1410-0073	Spacer
15	1	2104-0005	Shaft seal
16	1	1410-0074	Seal spacer
17	1	2029-0014	Thrust bearing assembly - consists of: (1) thrust bearing & (2) thrust bearing races
18	1	1810-0026	Snap ring
19	1	0510-2500	Shaft (HM3C Model) 7-1/2" long
19	1	0533-2500	Shaft (HM1C & HM5C Models) 7" long
20	1	0151-2500C	Motor body (includes Main bearing)
21	4	2210-0005	Hex head capscrew

Ref. No.	Qty. Req'd	Part No.	Description
22	2	1720-0110	O-ring
23	1	0700-2500C1	Gerotor housing (HM1C Model) 1/2" wide
23	1	0702-2500C1	Gerotor housing (HM3C Model) 1" wide
23	1	0704-2500C1	Gerotor housing (HM5C Model) 5/8" wide
24	1	1600-0052	Dowel pin (HM3C Models)
24	1	1600-0044	Dowel pin (HM1C and HM5C Models)
25	1	1600-0068	Dowel pin (HM3C Model)
25	1	1600-0037	Dowel pin (HM1C and HM5C Models)
26	1	3900-0022	Gerotor (HM1C Model)
26	1	3900-0024	Gerotor (HM3C Model)
26	1	3900-0048	Gerotor (HM5C Model)
27	1	0251-2500C2	Motor end plate (includes main bearing)
28	4	2270-0039	Washer
29	4	2220-0044	Capscrew (HM3C)
29	4	2220-0021	Capscrew (HM1C)
29	4	2220-0032	Capscrew (HM5C)
30	2	1720-0108	O-ring
31	1	3360-0021	Pressure port adapter
32	1	3260-0068	Poppet
33	1	1820-0038	Retaining ring
34	1	3320-0049	Tank port adaptor
35	1	3220-0029	Bypass adjusting screw
36	1	1700-0047	Gasket
37	1	2270-0027	Washer
38	1	2250-0038	Lock nut
39	1	1610-0055	Roll pin (HM3C Models)
40	1	1610-0031	Roll pin (HM1C and HM5C Models)
41	1	1610-0012	Woodruff key
42	1	2270-0071	Washer

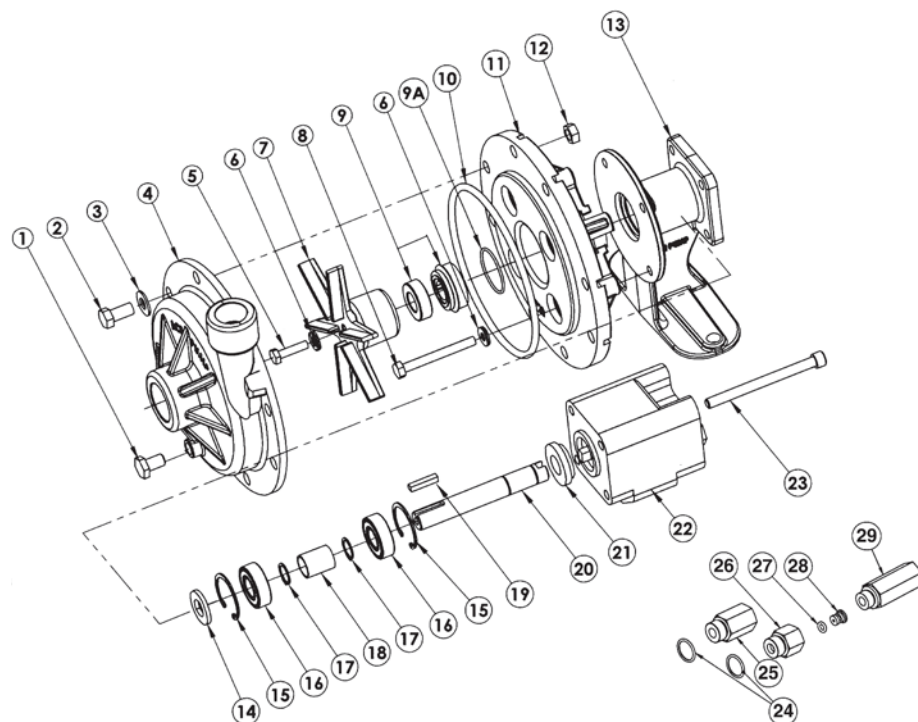


CENTRIFUGAL PUMPS & BREAKDOWN

POLYPROPYLENE HYDRAULIC MOTOR DRIVEN

- Suction 1", discharge 3/4"
- 204 motor requires 4 GPM (15.1 LPM) hydraulic flow on PC closed and open center systems
- 206 motor requires 7 GPM (26.75 LPM) hydraulic flow on LS closed and open center systems
- Integral needle valve bypasses up to 9 GPM (34 LPM) on open center systems
- Standard Viton® carbon/ceramic or optional severe duty silicon carbide mechanical seal
- Polypropylene corrosion resistant construction
- Stainless steel shaft and hardware

FMC-75-HYD-204.....Price: \$1,089.41



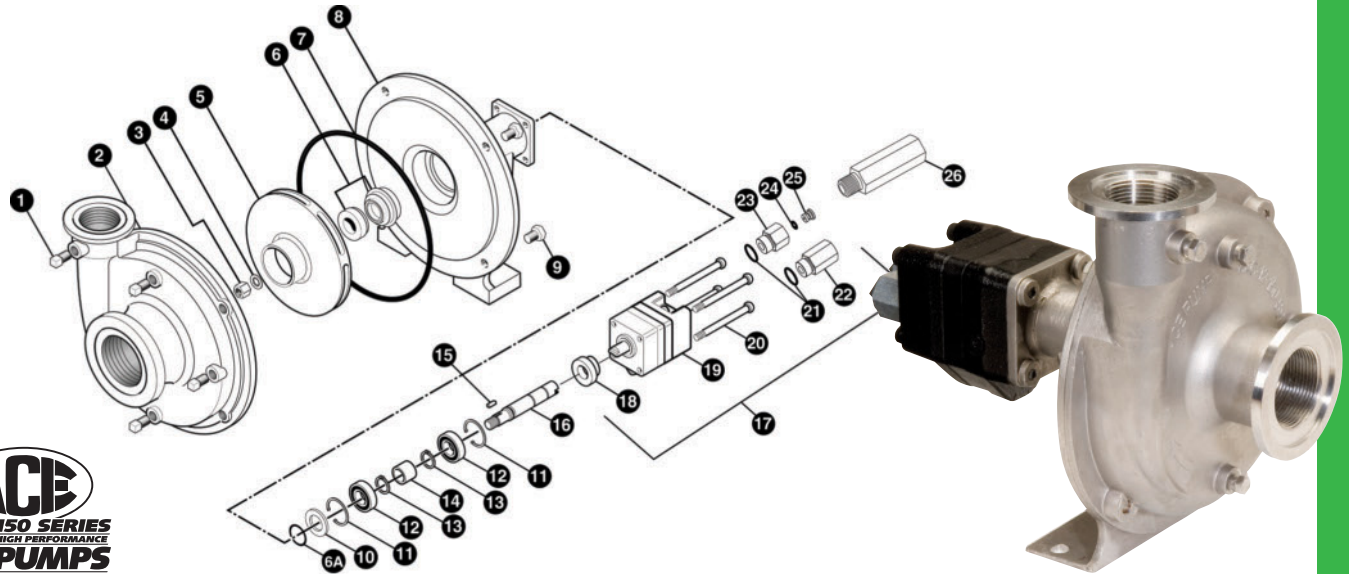
Ref. No.	Part No.	EDP	Description	Required
1	BAC-53-P	41109	Pipe plug, 1/8" NPT, plastic	1
2	80250	80250	Cap screw, 3/8"-16 x 7/8", hex head	8
3	42701	42701	Washer, 3/8" flat	8
4	GE-12-75	42700	Volute, 3/4" x 1", polypropylene	1
5	42240	42240	Cap screw, 1/4"-28 x 1", hex, SS	1
6	30028	30028	Washer, sealing	5
7	GE-26-75	42710	Impeller, with keyway, polypropylene	1
8	42238	42238	Cap screw, 5/16" NF x 2-1/4"	4
9	BAC-7-75V	42730	Seal, 5/8", Viton/carbon/ceramic	1
9	BAC-7SC-75V	42731	Seal, 5/8", Viton/silicon carbide (opt.)	1
9A	40159	40159	O-ring, seal seat	1
10	40017	40017	O-ring, volute seal	1
11	GE-14-75	42720	Bracket, polypropylene	1
12	BAC-45	41010	Nut, hex, 3/8"	8
13	BAC-14-75-HYD	40293	Mounting frame (for BAC-75-HYD-204R, 206R hydraulic motor)	1
14	BAC-54	41130	Slinger	1
15	BAC-33	40810	Snap ring, internal, BAC-14 mounting frame	2
16	BAC-37	40870	Bearing, BAC-6 driven shaft	2
17	BAC-32	40790	Snap ring, external, BAC-6 driven shaft	2
18	BAC-32-S	40795	Spacer for BAC-6 shaft	1
19	41082	41082	Key, 3/16" x 3/16" x 1 1/16"	1
20	BAC-6-75-HYD-SS	40048	Shaft, 5/8" driven shaft with tang slot, stainless steel	1
21	S200	40161	Seal support spacer for 200 series hydraulic lip seal	1
22	BAC-75-HYD-204R	41437	Hydraulic motor, 4 GPM	1
22	BAC-75-HYD-206R	41438	Hydraulic motor, 7 GPM	1
23	41253	41253	Cap screw, 5/16" NC x 3-1/2" socket head (for 204 motor)	4
23	41255	41255	Cap screw, 5/16" NC x 3-3/4" socket head (for 206 motor)	4
24	41875	41875	O-ring, #8 SAE fitting	2
25	BAC-78-8SAE	41441	Reverse check assembly, #8 SAE male x 1/2" NPT female	1
26	BAC-80-8SAE	41455	Body, restrictor orifice, #8 SAE male x 1/2" NPT female	1
27	41448	41448	O-ring, orifice insert	1
28	BAC-79-5	41457	Orifice, restrictor insert, .078 (204)	1
28	BAC-79-7	41456	Orifice, restrictor insert, .109 (206)	1
29	LS-204N	41417	Flow limiting valve (204), #8 SAE male x 1/2" NPT female	1
29	LS-206N	41418	Flow limiting valve (206), #8 SAE male x 1/2" NPT female	1

STAINLESS STEEL HIGH PERFORMANCE HYDRAULIC MOTOR DRIVEN

- Suction 220 flange & 1-1/2" NPT
- Discharge 200 flange & 1-1/4" NPT
- 316 stainless steel
- Recommended for use on the following hydraulic systems:
 - Pressure compensating closed center
 - Load sensing or pressure flow compensating closed center
 - Open center up to 16 GPM (60.6 LPM)

- Integral needle valve bypasses up to 9 GPM (34 LPM) on open center systems
- Standard Viton® carbon/ceramic seal or optional severe duty silicon carbide mechanical seal
- Chemical resistant Valox® or optional cast iron impeller
- Stainless steel shaft and wear ring

FMC-150FSHYD-206Price: \$2,295.00



Ref. No.	Part No.	EDP	Description	Required
1	BAC-53	41110	Pipe plug	4
1	41120	41120	Pipe plug, stainless steel (optional)	4
2	BAC-12-150-SS	40249	Volute, 316 stainless steel , NPT & flanged (for 150FS models)	1
3	BAC-23-A	40391	Nut, 3/8" NF, cad plated	1
3	BAC-23-A-SS	40392	Nut, 3/8" NF, stainless steel (optional)	1
4	BAC-24-HYD-SS	40400	Washer, 3/8" star, stainless steel	1
5	BAC-26-150-P	40446	Impeller, Valox, keyway	1
6	BAC-7V	40151	Seal, carbon/ceramic/Viton (includes 40160 O-ring)	1
6	BAC-7SC	40152	Seal, silicon carbide/Viton (includes 40160 O-ring) (optional)	1
6A	40160	40160	O-ring, shaft seal	1
7	BAC-4-150	40015	O-ring, body seal	1
8	BAC-14-150-HYD-SS	40319	Mounting frame, 316 stainless steel (for 150FS models)	1
9	40950	40950	Cap screw, 3/8" NC x 3/4" hex head	4
9	40930	40930	Cap screw, 3/8" NC x 3/4" hex head, stainless steel (optional)	4
10	BAC-54	41130	Slinger	1
11	BAC-33	40810	Snap ring, internal, BAC-14 mounting frame	2
12	BAC-37	40870	Ball bearing, sealed, BAC-6 shaft	2
13	BAC-32	40790	Snap ring, external, BAC-6 shaft	2
14	BAC-32-S	40795	Spacer for BAC-6 shaft	1
15	BACH-25	40420	Key, 1/8" x 1/8" x 1/2"	1
16	BAC-6-HYD-SS	40061	Shaft, 5/8" diameter, keyway and tang slot, stainless steel	1
17	BAC-75-HYD-206	41372	Hydraulic motor, 7 GPM (includes parts 18 - 25)	1
18	S200	40161	Seal support spacer for 200 Series HYD motor	1
19	BAC-75-HYD-206N	41397	Hydraulic motor, 7 GPM (motor only - no external fittings)	1
20	41255	41255	Cap screw, 5/16" N. C. x 3- 3/4" socket head (for 206N motor)	4
21	41875	41875	O-ring, #8 SAE fitting	2
22	BAC-78-8SAE	41441	Reverse check valve, #8 SAE male x 1/2" NPT female	1
23	BAC-80-8SAE	41455	Adapter, restrictor body, #8 SAE male x 1/2" NPT female	1
24	41448	41448	O-ring, orifice insert	1
25	BAC-79-7	41456	Orifice, restrictor insert, .109 (206N)	1
26	LS-206N	41418	Flow limiting valve (206N), #8 SAE male x 1/2" NPT female	1



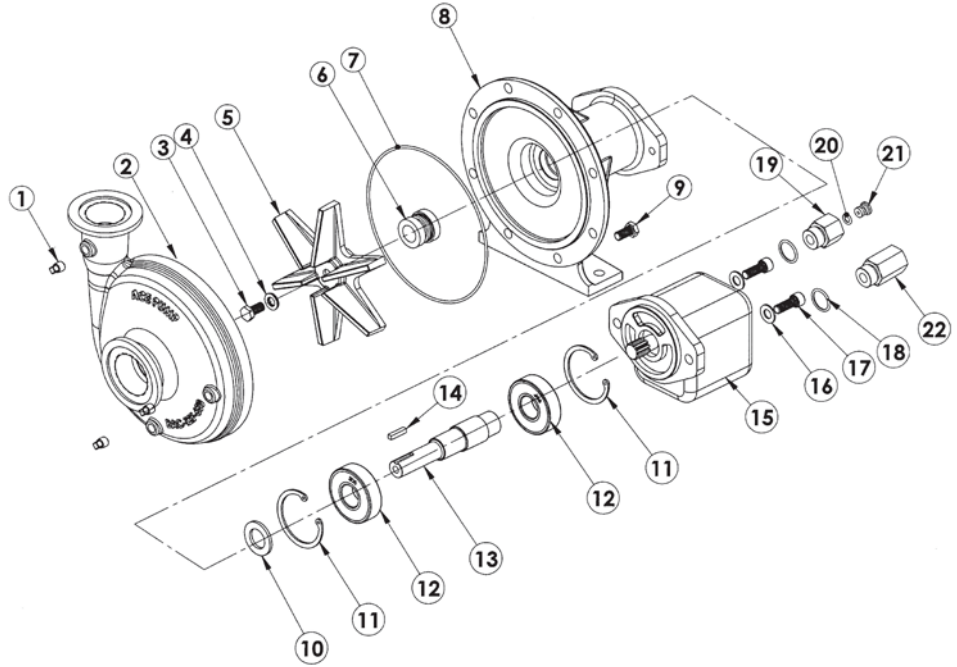
CENTRIFUGAL PUMPS & BREAKDOWN

Consult the internet Selection Guide at www.AcePumps.com to determine which pump is right for you.

HIGH PERFORMANCE HYDRAULIC MOTOR DRIVEN

- Suction 220 flange & 1-1/2" NPT
- Discharge 200 flange & 1-1/4" NPT
- High performance pump pressure compensating closed center
 - Maximum flow 170 GPM (644 LPM)
 - Maximum pressure 160 PSI (11 BAR)
 - Modified impeller design for higher pressure at lower RPM
- Maximum reliability
 - Operates at lower RPM for longer life
 - Oversized bearings
 - E-coat corrosion protection
 - Stainless steel shaft with splined motor connection
 - High efficiency 4000 PSI (275 BAR) pressure plated gear motor

FMC-650F-HYD.....Price: \$1,994.32



Ref. No.	Part No.	EDP	Description	Required
1	BAC-53	41110	Pipe plug, 1/8" NPT, square head	3
1	41120	41120	Pipe plug, 1/8" NPT, hex head, stainless steel (optional)	3
2	BAC-12-650-FLG	30159	Volute, NPT & 220 flange x NPT & 200 flange (F model)	1
3	40930	40930	Cap screw, 3/8" NC x 3/4" hex head, stainless steel	1
4	30029	30029	Washer, 3/8" O.D., sealing, stainless steel	1
5	BAC-26-650	30169	Impeller, cast iron, e-coated	1
6	BAC-7-650	40145	Seal, carbon/ceramic/Viton, 3/4"	1
6	BAC-7SC-650	40146	Seal, silicon carbide/Viton, 3/4" (optional)	1
6	BAC-7-650B	40144	Seal, carbon/ceramic/Buna N, 3/4" (for aqua ammonia)	1
7	BAC-4-150	40015	O-ring, volute seal	1
8	BAC-14-650-HYD	40325	Mounting frame, cast iron, e-coated	1
9	40950	40950	Cap screw, 3/8" NC x 3/4" hex head	8
9	40930	40930	Cap screw, 3/8" NC x 3/4" hex head, stainless steel (optional)	8
10	BAC-54-650	41132	Slinger, 1.5" OD x 7/8" ID	1
11	41943	41943	Snap ring, internal, mounting frame	2
12	40875	40875	Ball bearing, sealed	2
13	BAC-6-650-HYD-SS	40051	Shaft, 1.13" dia., 11T female spline, stainless steel	1
14	41085	41085	Key, .188 x .188 x .875, FMC-650 models	1
15	BAC-75-HYD-M16	41359	Motor, hydraulic, pressure plated gear	1
16	42701	42701	Washer, 3/8"	2
17	41907	41907	Cap screw, 3/8" NC x 1", socket head	2
18	41445	41445	O-ring, #10 SAE fitting	2
19	41446	41446	Body, adapter/restrictor, #10 SAE male x 1/2" NPT female	1
20	41448	41448	O-ring, restrictor insert	1
21	41447	41447	Restrictor orifice insert, .125	1
22	41442	41442	Reverse check, #10 SAE male x 1/2" NPT female	1



HYDRAULIC MOTOR DRIVEN CENTRIFUGAL PUMPS

Consult the internet Selection Guide at www.AcePumps.com to determine which pump is right for you.



1-1/4 IN. SUCTION X 1 IN. DISCHARGE

Description	EDP No	Est. Ship Weight	Part No.	Price
Max. pressure 100 PSI at 4600 RPM & 72 GPM at open discharge. 2 GPM hydraulic motor can be used on Open Center Systems rated 2-11 GPM.	49825	26 lb	FMC-HYD-202	1347.55
Max. pressure 100 PSI at 4600 RPM & 75 GPM at open discharge. 3 GPM hydraulic motor can be used on Open Center Systems rated 3-12 GPM.	49826	26 lb	FMC-HYD-203	1347.55
Max. pressure 100 PSI at 4600 RPM & 75 GPM at open discharge. 4 GPM hydraulic motor can be used on Pressure Compensating Closed Center Systems or Open Center Systems rated at 4-13 GPM. Equipped with restrictor orifice.	49800	26 lb	FMC-HYD-204	1327.91
Max. pressure 100 PSI at 4600 RPM & 75 GPM at open discharge. 8 GPM hydraulic motor can be used on Load Sensing Closed Center Systems or Open Centered Systems rated at 8-17 GPM. Equipped with restrictor orifice.	49810	26 lb	FMC-HYD-210	1327.91
Max. pressure 60 PSI at 3950 RPM & 75 GPM at open discharge. 16 GPM hydraulic motor can be used on Open Center Systems rated 16-24 GPM.	49850	26 lb	FMC-HYD-310	1374.55



1-1/2 IN. SUCTION X 1-1/4 IN. DISCHARGE

Separate motor and pump shafts simplify repair and replacement.

Description	EDP No	Est. Ship Weight	Part No.	Price
Cast iron centrifugal driven by a 7 GPM hydraulic motor with integral needle valve. Max. flow: 135 GPM. Max. pressure: 120 PSI	49920	31 lb	FMC-150-HYD-20	1368.41
NEW Cast iron self-priming centrifugal driven by a 7 GPM hydraulic motor with integral needle valve. Max. flow: 130 GPM. Max. pressure: 120 PSI	49956	45 lb	FMC-150SP-HYD-206	1859.32
NEW Cast iron centrifugal driven by a 7 GPM hydraulic motor with integral needle valve & flanged and NPT ports. Inlet 220 full port flange & 1-1/2" NPT outlet 200 standard port flange & 1-1/4" NPT. Max. flow: 145 GPM. Max. pressure: 120 PSI	49942	31 lb	FMC-150F-HYD-206	1435.91
NEW 316 SS centrifugal driven by a 7 GPM hydraulic motor with integral needle valve. Inlet 220 full port flange & 1-1/2" NPT outlet 200 standard port flange & 1-1/4" NPT. Max. flow: 145 GPM. Max. pressure: 120 PSI	49965	28 lb	FMC-150FS-HYD-206	2295.00
NEW E-coated cast iron centrifugal driven by a 14.5 GPM hydraulic motor. Max. flow: 140 GPM. Max. pressure: 160 PSI	49951	39 lb	FMC-650-HYD	1902.27
NEW E-coated cast iron centrifugal driven by a 14.5 GPM hydraulic motor. 220 x 200 flange and 1-1/2" X 1-1/4" NPT. Max. flow: 170 GPM. Max. pressure: 160 PSI	49954	39 lb	FMC-650F-HYD	1994.32



2 IN. SUCTION X 1-1/2 IN. DISCHARGE

Description	EDP No	Est. Ship Weight	Part No.	Price
Cast iron centrifugal driven by a 10 GPM hydraulic motor with integral needle valve. Max. flow: 180 GPM. Max. pressure: 80 PSI	49840	33 lb	FMC-200-HYD-210	1613.86
Cast iron centrifugal driven by a 11 GPM hydraulic motor with integral needle valve. Max. flow: 200 GPM. Max. pressure: 120 PSI	49859	38 lb	FMC-200-HYD-304	1613.86
Cast iron centrifugal driven by a 25 GPM hydraulic motor with integral needle valve. Max. flow: 200 GPM. Max. pressure: 120 PSI	49860	38 lb	FMC-200-HYD-310	1712.05
NEW Cast iron centrifugal driven by a 13 GPM hydraulic motor with integral needle valve. Inlet 300 series standard port flange outlet 220 series full port flange. Max. flow: 240 GPM. Max. pressure: 120 PSI	49980	38 lb	FMC-200F-HYD-304	1705.91
NEW 316 SS wet end centrifugal driven by an 11 GPM hydraulic motor with integral needle valve. Includes stainless impeller. Max. flow: 200 GPM. Max. pressure: 120 PSI	50060	36 lb	FMC-200SS-HYD-304	2227.50



HYDRAULIC ACCESSORIES

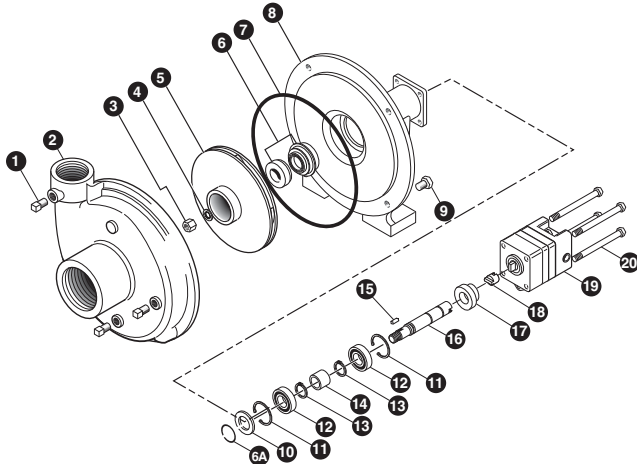
Description	EDP No	Est. Ship Weight	Part No.	Price
Flow limiting valve for the BAC-75-HYD-204 motor when used on Load Sensing Closed Center Systems	41409	1 lb	LS-204N	77.32
Flow limiting valve for the BAC-75-HYD-206 motor when used on Load Sensing Closed Center Systems	41408	1 lb	LS-206N	77.32
Flow limiting valve for the BAC-75-HYD-210 motor when used on Load Sensing Closed Center Systems	41411	1 lb	LS-210N	77.32
Flow limiting valve for the BAC-75-HYD-304 motor when used on Load Sensing Closed Center Systems	41413	1 lb	LS-304N	89.59



CENTRIFUGAL PUMPS & BREAKDOWN

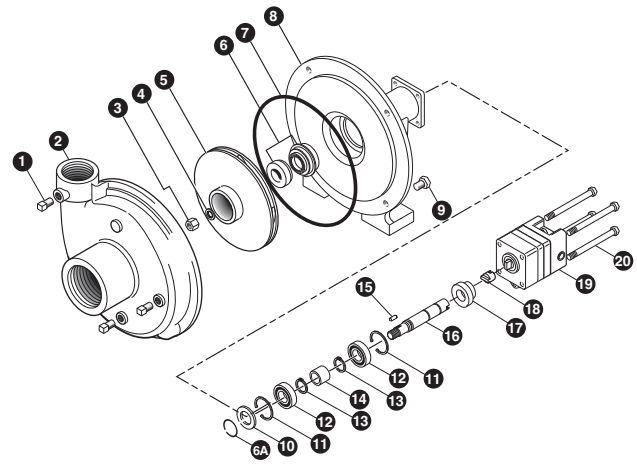
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Part No. FMC-HYD-204
 Part No. FMC-HYD-210
 Part No. FMC-HYD-310



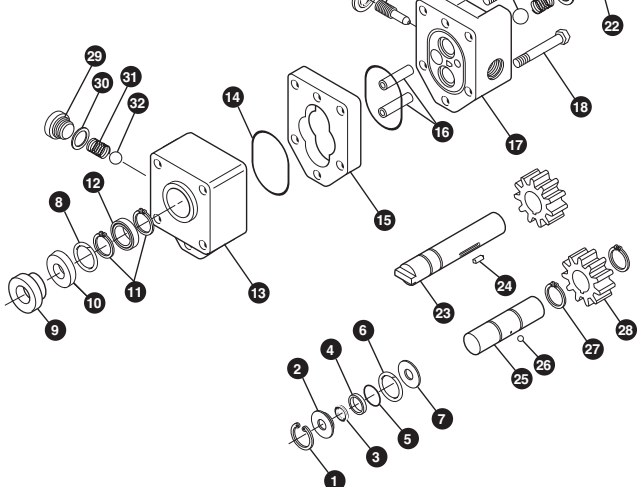
REF. #	PART NUMBER	EDP #	DESCRIPTION	REQ.
1	41110	41110	Pipe plug	3
1	41120	41120	Pipe plug, stainless steel (optional)	3
2	BAC-12	40250	Volute, 1 1/4" x 1"	1
3	BAC-23-A	40391	Nut, 3/8" NF, cad plated	1
4	BAC-24-HYD-SS	40400	Washer, 3/8" star, stainless steel	1
5	BAC-26-HYD-VALOX	40440	Impeller, Valox, keyway	1
5	BAC-26-HYD-CI	40442	Impeller, cast iron, keyway (optional)	1
*6	BAC-7V	40151	Seal, mechanical, Viton (includes 40160)	1
6	BAC-7SC	40152	Seal, mechanical, silicon carbide (includes 40160), (optional)	1
6A	40160	40160	O-ring, shaft seal	1
*7	BAC-4	40010	Gasket, 4 hole, (obsolete 1996)	1
7	BAC-4A	40005	O-ring, body seal	1
8	BAC-14-HYD	40300	Mounting frame (for -200 Series hydraulic motors)	1
8	BAC-14-HYD-300	40301	Mounting frame (for -310 hydraulic motor)	1
9	40950	40950	Cap screw, 3/8" NC x 3/4" hex head	4
9	40930	40930	Cap screw, 3/8" NC x 3/4" hex head, stainless steel (optional)	4
10	BAC-54	41130	Slinger	1
11	BAC-33	40810	Snap ring, internal, BAC-14 mounting frame	2
12	BAC-37	40870	Ball bearing, sealed, BAC-6 shaft	2
13	BAC-32	40790	Snap ring, external, BAC-6 shaft	2
14	BAC-32-S	40795	Spacer for BAC-6 shaft	1
15	BACH-25	40420	Key, 1/8" x 1/8" x 1/2"	1
16	BAC-6-HYD	40060	Shaft, 5/8" diameter, keyway and tang slot (optional)	1
16	BAC-6-HYD-SS	40061	Shaft, 5/8" diameter, keyway and tang slot, stainless steel	1
17	S200	40161	Seal support spacer for 200 series HYD motor with -L seal	1
18	BAC-76-HYD	41380	Coupling for hydraulic motor	1
19	BAC-75-HYD-204	41370	Hydraulic motor, 4 GPM	1
19	BAC-75-HYD-210	41375	Hydraulic motor, 8 GPM	1
19	BAC-75-HYD-310	41378	Hydraulic motor, 16 GPM	1
20	31256	41256	Cap screw, 5/16" N.C. x 3 1/2" Hex head (for 204 motor)	4
20	41257	41257	Cap screw, 5/16" N.C. x 4" Hex head (for 210 motor)	4
20	41330	41330	Cap screw, 5/16" N.C. x 3/4" Hex head (for 310 motor)	4
#	RK-FMC	52700	Repair kit for FMC series	-
#	RK-BAC-75-HYD	41371	Repair kit for 204 and 210 motor	-
#	RK-BAC-75-HYD-L	41374	Repair kit for 204 and 210 motor with high pressure lip seal	-
#	RK-BAC-75-HYD-310	41379	Repair kit for 310 motor	-
#	RK-BAC-75-HYD-300-L	41362	Repair kit for 310-L motor, effective 04/01	-

Part No. FMC-150-HYD-206



REF. #	PART NUMBER	EDP #	DESCRIPTION	REQ.
1	BAC-53	41110	Pipe plug	4
1	41120	41120	Pipe plug, stainless steel (optional)	4
2	BAC-12-150	40255	Volute, 1-1/2" x 1-1/4"	1
3	BAC-23-A	40391	Nut, 3/8" NF, cad plated	1
4	BAC-24-HYD-SS	40400	Washer, 3/8" star, stainless steel	1
5	BAC-26-150-P	40446	Impeller, Valox, keyway	1
5	BAC-26-150-CI	40445	Impeller, cast iron, keyway (optional)	1
*6	BAC-7V	40151	Seal, mechanical, Viton (includes 40160 O-Ring)	1
6	BAC-7SC	40152	Seal, mechanical, silicon carbide (includes 40160 O-Ring) (optional)	1
6A	40160	40160	O-ring, shaft seal	1
*7	BAC-4-150	40015	O-ring, body seal	1
8	BAC-14-150-HYD	40305	Mounting frame (for 200 Series hydraulic motor)	1
9	40950	40950	Cap screw, 3/8" NC x 3/4" hex head	4
9	40930	40930	Cap screw, 3/8" NC x 3/4" hex head, stainless steel (optional)	4
10	BAC-54	41130	Slinger	1
11	BAC-33	40810	Snap ring, internal, BAC-14 mounting frame	2
12	BAC-37	40870	Ball Bearing, sealed, BAC-6 shaft	2
13	BAC-32	40790	Snap ring, external, BAC-6 shaft	2
14	BAC-32-S	40795	Spacer for BAC-6 shaft	1
15	BACH-25	40420	Key, 1/8" x 1/8" x 1/2"	1
16	BAC-6-HYD	40060	Shaft, 5/8" diameter, keyway and tang slot	1
16	BAC-6-HYD-SS	40061	Shaft, 5/8" diameter, keyway and tang slot, stainless steel (optional)	1
17	S200	40161	Seal support spacer for 200 Series HYD motor, effective 6/00	1
18	BAC-76-HYD	41380	Coupling for hydraulic motor	1
19	BAC-75-HYD-206	41372	Hydraulic motor, 7 GPM	1
20	41258	41258	Cap screw, 5/16" N. C. x 3-3/4" Hex head (for 206 motor)	4
#	RK-FMC-150	52710	Repair kit for FMC-150 series pump	-
#	RK-BAC-75-HYD	41371	Repair kit for 200 Series motor	-
#	RK-BAC-75-HYD-L	41374	Repair kit for 200-L Series motor	-

Part No. BAC-75-HYD-204
 Part No. BAC-75-HYD-206
 Part No. BAC-75-HYD-210



REF. #	MODEL 204	MODEL 206	MODEL 210	DESCRIPTION	REQUIRED
1	41890	41890	41890	Retaining ring, shaft seal	1
2	41770	41770	41770	Seal retainer, steel	1
3	41880	41880	41880	Quad ring shaft seal	1
4	41840	41840	41840	Collar, quad ring shaft seal	1
5	41870	41870	41870	"O" ring, seal collar	1
6	41860	41860	41860	"O" ring, seal retainer	1
7	41810	41810	41810	Backup washer, steel	1
8	41830	41830	41830	Bearing spacer, wire ring	1
9	40161	40161	40161	Seal support spacer ("L" models)	1
10	40153	40153	40153	Seal cartridge ("L" models)	1
11	41941	41941	41941	Snap ring, bearing	2
12	41961	41961	41961	Ball bearing, 7/16" I.D.	1
13	41731	41731	41731	Drive plate	1
14	41850	41850	41850	"O" ring, housing seal	2
15	41720	41721	41725	Gear housing	1
16	41800	41801	41805	Dowel pin, housing	2
17	41740	41740	41740	End plate	1
18	41900	41900	41905	Cap screw, 1/4" N.C. hex head	2
19	41950	41950	41950	Ball, reverse flow check	1
20	41780	41780	41780	Spring, reverse flow check	1
21	41820	41820	41820	Washer, nylon, reverse flow check	1
22	41790	41790	41790	Valve cap, reverse flow check	1
23	41761	41764	41766	Drive shaft	1
24	41920	41921	41925	Dowel pin, drive shaft	1
25	41970	41971	41975	Idler shaft	1
26	41990	41990	41990	Ball, idler shaft	1
27	41980	41980	41980	Retaining ring, idler gear	1
28	41750	41751	41755	Gear	2
29	42041	42041	42041	Valve cap, coasting check	1
30	42044	42044	42044	"O" ring, coasting check	1
31	42042	42042	42042	Spring, coasting check	1
32	42043	42043	42043	Ball, coasting check	1
33	40960	40960	40960	Nut, 3/8" N.C. jam, needle valve	1
34	42040	42040	42040	Washer, flat steel, needle valve	1
35	42030	42030	42030	Thread seal, 3/8", needle valve	1
36	42010	42010	42010	Adjusting screw, needle valve	1
	41371	41371	41371	Repair Kit, RK-BAC-75-HYD	--
	41374	41374	41374	Repair Kit, RK-BAC-75-HYD-L	--



1-1/4 IN. SUCTION X 1 IN. DISCHARGE

Description	EDP No	Est. Ship Weight	Part No.	Price
Cast iron straight centrifugal with pulleys and 10 groove belt arranged for direct mounting on 1-3/8" 600 RPM PTO shaft. 0-70 PSI. Equipped with 6 spline PTO drive shaft. Viton mechanical seal. Fully guarded for operator safety.	47620	45 lb	PTOC-600-6SP	1497.27
Cast iron straight centrifugal with pulleys and 10 groove belt arranged for direct mounting on 1-3/8" 600 RPM PTO shaft. 0-70 PSI. Equipped with 6 spline quick coupler PTO drive shaft. Viton mechanical seal. Fully guarded for operator safety.	47640	46 lb	PTOC-600-QC	1521.82
Cast iron straight centrifugal with pulleys and 10 groove belt. 1" diameter stub shaft and integral mounting base. 600 RPM Tumblerod drive shaft. 0-70 PSI. Equipped with Viton mechanical seal. Fully guarded for operator safety.	48400	42 lb	PTOC-600-B	1521.82
Cast iron straight centrifugal with pulleys and 10 groove belt arranged for direct mounting on 1-3/8" 1000 RPM PTO shaft. 0-70 PSI. Equipped with 21 spline split PTO drive shaft and split ring locking collar. Viton mechanical seal. Fully guarded for operator safety.	47800	43 lb	PTOC-1000-21SP	1527.95
Cast iron straight centrifugal with pulleys and 10 groove belt arranged for mounting on 1-3/4" 1000 RPM PTO shaft. 0-70 PSI. Equipped with 20 spline split PTO drive shaft and split ring locking collar. Viton mechanical seal. Fully guarded for operator safety.	47810	45 lb	PTOC-1000-20SP	1595.45
Cast iron straight centrifugal with pulleys and 10 groove belt. 0-70 PSI. 1" diameter stub shaft and integral mounting base for 1000 RPM Tumblerod drive shaft. Viton mechanical seal. Fully guarded for operator safety.	48505	40 lb	PTOC-1000-B	1521.82
Cast iron straight centrifugal pump only for PTOC models. Machined for idler arm.	47000	18 lb	FMC-MIA	638.18



1-1/2 IN. SUCTION X 1-1/4 IN. DISCHARGE

Description	EDP No	Est. Ship Weight	Part No.	Price
0-100 PSI, cast iron straight centrifugal with pulleys and 10 groove belt assembled for direct mounting on 1-3/8", 600 RPM PTO shaft. Viton mechanical seal. Fully guarded for operator safety.	48404	51 lb	PTOC-150-600-6SP	1693.64
0-100 PSI, cast iron straight centrifugal with pulleys and 10 groove belt assembled for direct mounting on 1-3/8", 600 RPM PTO shaft; equipped with Quick Coupler. Viton mechanical seal. Fully guarded for operator safety.	48403	51 lb	PTOC-150-600-6SPQC	1718.18
0-100 PSI, cast iron straight centrifugal with pulleys and 10 groove belt. 1" diameter stub shaft and integral mounting base for 600 RPM Tumblerod drive shaft. Viton mechanical seal. Fully guarded for operator safety.	48402	52 lb	PTOC-150-600-B	1718.18
0-100 PSI, cast iron straight centrifugal with pulleys and 10 groove belt arranged for direct Viton mechanical seal. Fully guarded for operator safety.	47802	48 lb	PTOC150-100021S	1791.82
0-100 PSI, cast iron straight centrifugal with pulleys and 10 groove belt arranged for direct mounting on 1-3/8", 1000 RPM PTO shaft. Equipped with 20 spline PTO shaft and locking collar. Viton mechanical seal. Fully guarded for operator safety.	47812	50 lb	PTOC150-100020S	1725.32
0-100 PSI, cast iron straight centrifugal with pulleys and 10 groove belt. 1" diameter stub shaft and integral mounting base for 1000 RPM Tumblerod drive shaft. Viton mechanical seal. Fully guarded for operator safety.	48506	45 lb	PTOC-150-1000-B	1718.18
Cast iron straight centrifugal pump only for PTOC-150 models. Machined for idler arm.	47008	23 lb	FMC-150-MIA	646.77



GASOLINE ENGINE DRIVEN CENTRIFUGAL PUMPS

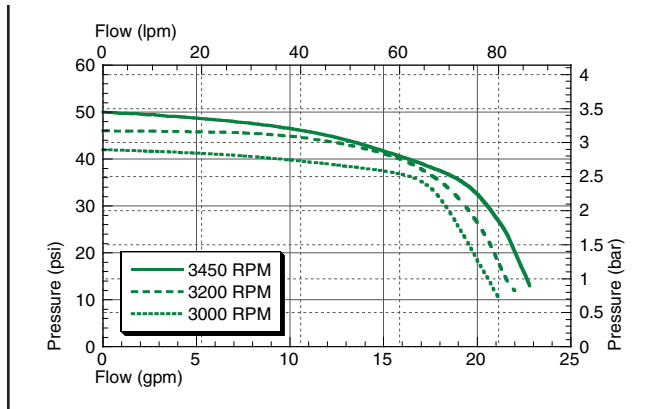
Consult the internet Selection Guide at www.AcePumps.com to determine which pump is right for you.

- Barske tall blade impeller design, higher pressures at standard engine speeds
- Suction 1", discharge 3/4"
- Maximum pressure: 65 PSI
- Maximum flow: 24 GPM
- Impeller attaches directly to 5/8" keyed shaft engine
- Fits economical Honda or Briggs & Stratton engines
- All polypropylene corrosion resistant construction



Part No. GE-75-LE.....Price: \$337.50
 Part No. GE-75-HONDA.....Price: \$1,834.77

PERFORMANCE DATA CHART

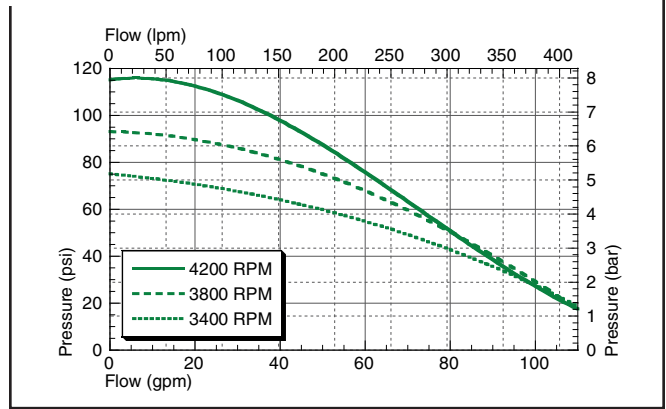


- Suction 1-1/2", discharge 1- 1/4"
- Maximum pressure: 115 PSI
- Maximum flow: 110 GPM
- Impeller attaches directly to 3/4" keyed shaft on 5.5 hp engine
- Large vent area between pump and engine
- Optional electric start engine
- Available complete or less engine

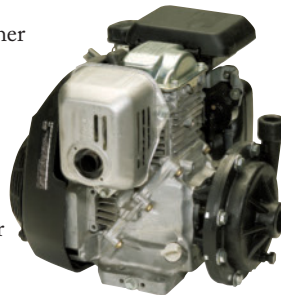


Part No. GE-660-LE.....Price: \$736.36
 Part No. GE-660-HONDAPrice: \$2,515.91
 Part No. GE-660-BRIGGSPrice: \$2,012.73

PERFORMANCE DATA CHART

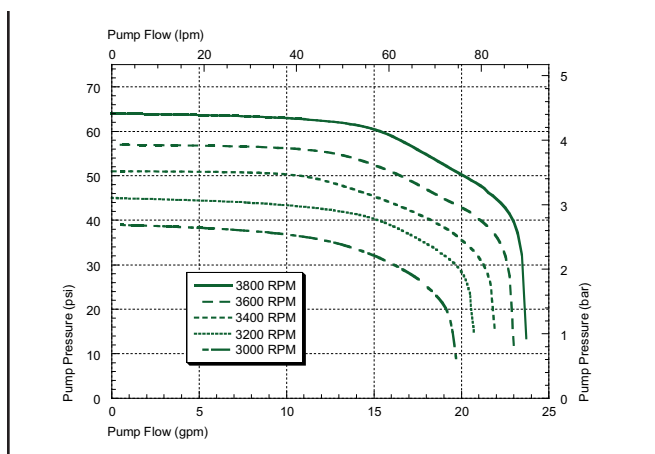


- Barske tall blade impeller design, higher pressures at standard engine speeds
- Suction 1" NPT, discharge 3/4" NPT
- Maximum pressure: 57 PSI
- Maximum flow: 22.5 GPM
- Impeller attaches directly to 3/4" keyed shaft engine
- Standard viton carbon/ceramic seal or optional severe duty silicon carbide mechanical seal
- All polypropylene corrosion resistant construction



Part No. GE-85-LE.....Price: \$337.50

PERFORMANCE DATA CHART



- Suction 2", discharge 1-1/2"
- Maximum pressure: 140 PSI
- Maximum flow: 140 GPM
- Impeller attaches directly to 1" keyed shaft on 8-10 hp engines
- Large vent area between pump and engine
- Optional electric start engine
- Available complete or less engine



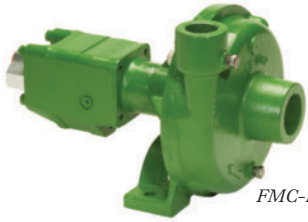
Part No. GE-860-LE.....Price: \$1,343.86
 Part No. GE-860-HONDAPrice: \$4,105.23

PERFORMANCE DATA CHART

Engine Shaft Speed	20 PSI GPM	40 PSI GPM	60 PSI GPM	80 PSI GPM	100 PSI GPM	120 PSI GPM	140 PSI GPM
3800 RPM	140	120	103	80	60	40	5
3400 RPM	140	120	95	70	32	—	—
3000 RPM	140	110	70	15	—	—	—

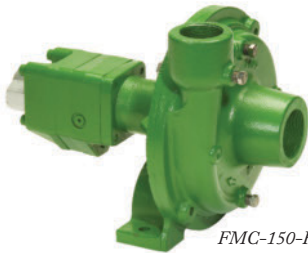


HYDRAULIC MOTOR DRIVEN CENTRIFUGAL PUMPS

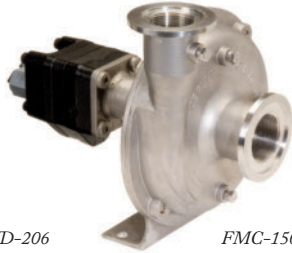


FMC-HYD-204

Description	EDP No	Est. Ship Weight	Part No.	Price
Max. pressure 100 PSI at 4600 RPM & 75 GPM at open discharge. 4 GPM hydraulic motor can be used on Pressure Compensating Closed Center Systems or Open Center Systems rated at 4 - 13 GPM. Equipped with restrictor orifice.	49800	26 lb	FMC-HYD-204	1327.91
Max. pressure 100 PSI at 4600 RPM & 75 GPM at open discharge. 8 GPM hydraulic motor can be used on Load Sensing Closed Center Systems or Open Center Systems rated at 8-17 GPM. Equipped with restrictor orifice.	49810	26 lb	FMC-HYD-210	1327.91



FMC-150-HYD-206

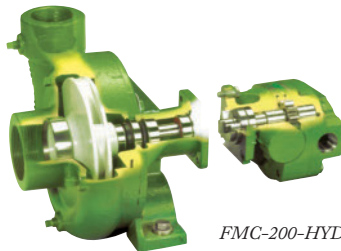


FMC-150FS-HYD-206

Description	EDP No	Est. Ship Weight	Part No.	Price
Max. pressure 120 PSI at 5100 RPM & 120 GPM at open discharge. 7 GPM hydraulic motor can be used on Pressure Compensating Closed Center Systems, Load Sensing Closed Center Systems & Open Center Systems rated at 7-16 GPM. Equipped with restrictor orifice.	49920	31 lb	FMC-150-HYD-206	1368.41
Max. pressure 100 PSI at 4600 RPM & 75 GPM at open discharge. 8 GPM hydraulic motor can be used on Load Sensing Closed Center Systems or Open Center Systems rated at 8-17 GPM. Equipped with restrictor orifice.	49942	31 lb	FMC-150F-HYD-206	1435.91
220 x 200 flanged connections. Max. pressure 120 PSI at 5100 RPM & 145 GPM at open discharge. 7 GPM hydraulic motor can be used on Pressure Compensating Closed Center Systems, Load Sensing Closed Center Systems & Open Center Systems rated at 7-16 GPM. Equipped with restrictor orifice.	49965	28 lb	FMC-150FS-HYD-206	2295.00
316 Stainless steel pump with flanged connections. Max. pressure 120 PSI at 5100 RPM & 145 GPM at open discharge. 7 GPM hydraulic motor can be used on Pressure Compensating Closed Center Systems, Load Sensing Closed Center Systems & Open Center Systems rated at 7-16 GPM. Equipped with restrictor orifice.	49956	45 lb	FMC-150SP-HYD-206	1859.32



FMC-200-HYD-304



FMC-200-HYD-304 cut away

Description	EDP No	Est. Ship Weight	Part No.	Price
Max. pressure 60 PSI at 3950 RPM & 180 GPM at open discharge. 8 GPM hydraulic motor can be used on Pressure Compensating Closed Center Systems, Load Sensing Closed Center Systems & Open Center Systems rated at 8-17 GPM. Equipped with restrictor orifice.	49840	33 lb	FMC-200-HYD-210	1613.86
Max. pressure 120 PSI at 5100 RPM & 200 GPM at open discharge. 11 GPM hydraulic motor can be used on Pressure Compensating Closed Center Systems, Load Sensing Closed Center Systems & Open Center Systems rated at 11-20 GPM. Equipped with restrictor orifice.	49859	38 lb	FMC-200-HYD-304	1613.86
316 Stainless steel pump. Max. pressure 120 PSI at 5100 RPM & 200 GPM at open discharge. 11 GPM hydraulic motor can be used on Pressure Compensating Closed Center Systems, Load Sensing Closed Center Systems & Open Center Systems rated at 11-20 GPM. Equipped with restrictor orifice.	50060	36 lb	FMC-200SS-HYD-304	2227.50
300 x 220 flanged connections. Max. pressure 120 PSI at 5100 RPM & 240 GPM at open discharge. 13 GPM hydraulic motor can be used on Pressure Compensating Closed Center Systems, Load Sensing Closed Center Systems & Open Center Systems rated at 13-20 GPM. Equipped with restrictor orifice.	49980	38 lb	FMC-200F-HYD-304	1705.91



OASIS WETSEAL PUMPS

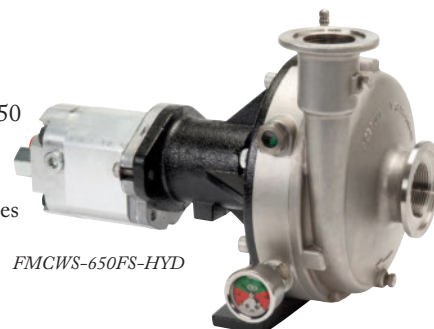
Ace Oasis™ Wet Seal Technology prevents the pumped liquid from contacting the shaft seals. The seals operate in a reservoir filled with a specially formulated barrier fluid for seal face lubrication and heat dissipation. Additionally, air pressure is introduced to prevent pump fluid from contaminating the seal reservoir. This isolation of the seals prevents abrasive wear of the seal faces and run dry seal failures.



FMCWS-650F-HYD

FMCWS-650F-HYD

Oasis™ WetSeal Technology is now available on popular 650 MAX Series pumps. The Oasis™ WetSeal system prevents run dry and abrasive wear seal failures by isolating seals from the pumped liquid. The innovative impeller design provides higher pressure (up to 160 PSI) and more consistent pressure over the entire flow range. The combination of Ace MAX series features and Oasis™ sealing system ensure maximum reliability and prevent costly downtime.



FMCWS-650FS-HYD



FMC-750F-HYD-M22

FMC-750F-HYD

The new Ace 750 MAX Series pump brings the ultimate in reliability and performance to the sprayer market. Downtime is unacceptable to applicators now more than ever. Oasis™ WetSeal Technology prevents run dry and abrasive seal failures which result in lost opportunity, time, and income. Oversized bearings, e-coated castings, a 4000 psi hydraulic motor, and slower operating speeds also contribute to the exceptional reliability. A maximum pressure of 150 psi and a maximum flow of 290 gpm satisfy today's most demanding application requirements.

HYDRAULIC DRIVEN

Description	EDP No	Est. Ship Weight	Part No.	Price
220 x 200 flange and 1-1/2" X 1-1/4" NPT, Max. flow: 170 GPM, Max. pressure: 160 PSI, E-coated cast iron centrifugal driven by a 14.5 GPM hydraulic motor.	50026	49 lb	FMCWS-650F-HYD	2804.32
220 x 200 flange and 1-1/2" X 1-1/4" NPT, Max. flow: 170 GPM, Max. pressure: 160 PSI, 316 Stainless steel centrifugal driven by a 14.5 GPM hydraulic motor.	50041	49 lb	FMCWS-650FS-HYD	3816.82
300 flange suction x 220 flange discharge, Max. flow: 290 GPM, Max. pressure: 150 PSI, E-coated cast iron centrifugal driven by a 18 GPM hydraulic motor.	50020	72 lb	FMC-750F-HYD-M22	3755.45
300 flange suction x 220 flange discharge, Max. flow: 290 GPM, Max. pressure: 150 PSI, E-coated cast iron centrifugal driven by a 20 GPM hydraulic motor.	50021	72 lb	FMC-750F-HYD-M25	3755.45



REMOTE MOUNT RESERVOIR FOR OASIS WETSEAL PUMPS

The reservoir allows for easy viewing of critical maintenance features of the Oasis Wetseal pumps. Easily check fluid level and pressure while also being able to add fluid as needed.

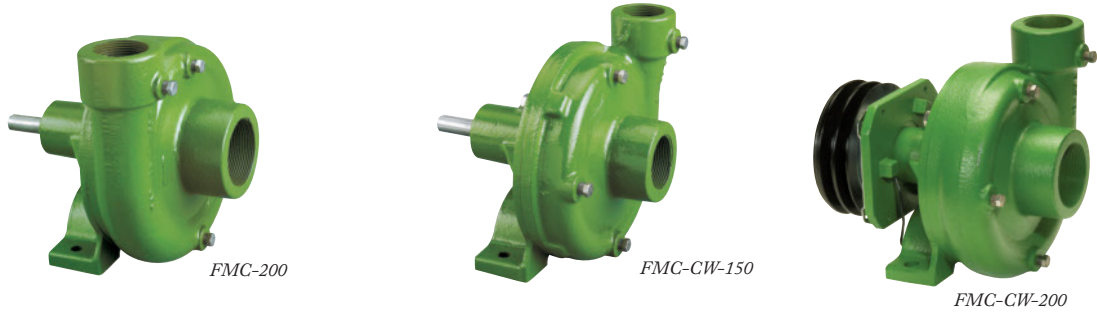
- Excellent visibility and easy service regardless of the pump location
- Provides extra barrier fluid for extended service intervals
- Connect air supply to machine air or charge manually
- Regulator assures ideal air pressure at all times

OASIS WETSEAL ACCESSORIES

Description	EDP No	Est. Ship Weight	Part No.	Price
External remote resevoir for Oasis pumps	45281	8 lb	OASIS-RES	613.64

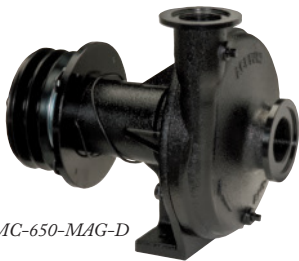
FRAME MOUNT ADVANTAGES

Ace belt driven pumps are available in a variety of models which can be belt driven or direct coupled to a power source. The pumps are available in either clockwise or counterclockwise rotation. The standard bare shaft pumps are designed with a keyway for mounting a drive pulley or coupling.



KEY SHAFT DRIVEN

Description	EDP No	Est. Ship Weight	Part No.	Price
1-1/4" x 1" NPT, Max. 70 GPM, Max. 130 PSI	46800	18 lb	FMC	619.77
1-1/2" x 1-1/4" NPT, Max. 80 GPM, Max. 100 PSI	47200	11 lb	FMC-CW-150	628.36
2" x 1-1/2" NPT, Max. 200 GPM, Max. 120 PSI	47400	24 lb	FMC-CW-200	822.27
2" x 1-1/2" NPT, Max. 180 GPM Max. 170 PSI	47550	42 lb	FMC-CW-800-DRB	1761.41



MAGNETIC CLUTCH DRIVEN ADVANTAGES

The integral magnetic clutch driven centrifugal pump design was first offered by Ace in 1982. These models enabled the operator to free the PTO shaft and hydraulic system for other uses. The 12 volt DC magnetic clutch is driven by a v-belt from the engine drive shaft. The clutch is idle until engaged by an on-off toggle switch located at the driver's seat.

MAGNETIC CLUTCH BELT DRIVEN

Description	EDP No	Est. Ship Weight	Part No.	Price
1-1/4" x 1" NPT, Max. 70 GPM, Max. 130 PSI	47040	23 lb	FMC-MAG-D	1178.18
1-1/4" x 1" NPT, Max. 70 GPM, Max. 130 PSI	47195	23 lb	FMC-CW-MAG-D	1178.18
1-1/2" x 1-1/4" NPT, Max. 130 GPM, Max. 120 PSI	47030	25 lb	FMC-150-MAG-D	1196.59
1-1/2" x 1-1/4" NPT, Max. 80 GPM, Max. 100 PSI	47237	25 lb	FMC-CW-150-MAG-D	1200.27
220 x 200 flange, Max. 140 GPM, Max. 160 PSI	47055	35 lb	FMC-650-MAG-D	2055.68
2" x 1-1/2" NPT, Max. 180 GPM, Max. 170 PSI	47570	45 lb	FMC-CW-800-MAG-D	3000.68



BELT DRIVEN

Description	EDP No	Est. Ship Weight	Part No.	Price
220 X 200 flange and 1-1/2" X 1-1/4" NPT, Max. flow: 170 GPM Max. pressure: 160 PSI, E-coated cast iron centrifugal driven by a 7/8" keyed CCW rotating shaft.	47057	40 lb	FMCWS-650F	2190.68
1-1/2" NPT suction X 1-1/4" NPT discharge, Max. flow: 170 GPM Max. pressure: 160 PSI, E-coated cast iron centrifugal driven by a 7/8" keyed CW rotating shaft.	47058	40 lb	FMCWS-CW-650	2098.64
300 flange suction X 220 flange discharge, Max. flow: 290 GPM Max. pressure: 150 PSI, E-coated cast iron centrifugal driven by a 7/8" keyed CCW rotating shaft.	47070	48 lb	FMC-750F	2432.45



CAST IRON PUMPS

222 SERIES PUMPS

Maximum Engine Protection

- Pump end separated from engine
- Heavy duty slinger seal on motor shaft
- Large weep holes between pump end and engine
- “V” shaped for quick priming

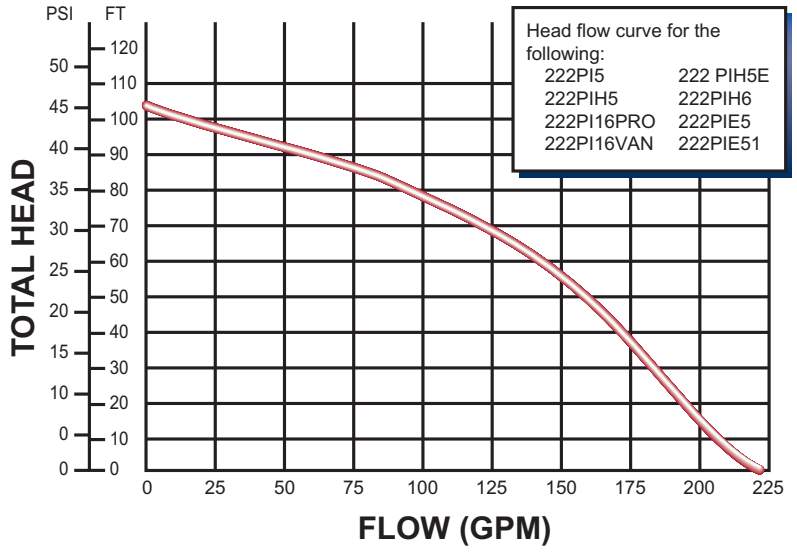
Pump Features:

- More gallons per minute
- Higher pressure
- Cast iron construction for rugged dependable service
- Carbon ceramic seal with stainless steel cup and spring with FKM (Viton type) rubber
- Replaceable inlet and outlet flanges
- Dynamically balanced impeller

Complete pump available with all FKM (Viton type)

Note: Engine warranty service available at authorized Briggs & Stratton and Honda dealers.

Shipping: Truck shipments only.



Performance Chart @ 3450 RPM										
Head (FT)	0	11	23	34	45	57	69	80	92	103
Pressure (PSI)	0	5	10	15	20	25	30	35	40	45
Flow (GPM)	225	205	195	180	165	145	120	95	50	0

Note: Curve based on water and pump spinning at 3450 RPM

5.5 INTEK MOTOR

- Aluminum cylinder
- Heavy duty flywheel
- Overhead valve
- Dual oil fill/drain
- 3.0 qt (2.85 L) molded fuel tank
- Breather through air cleaner



HONDA ENGINE

- Commercial grade GX series
- Legendary reliability/durability
- Powerful overhead valve (OHV)
- Oil alert
- Quiet, easy starting
- Industrial 2-stage air filter
- 2 year commercial and home warranty



PISTON PUMPS SERIES 5200 BIG TWIN PUMPS

Description	Qty.	Size	Part No.	Price
2" CI pump, 5.5 hp Intek OHV Briggs & Stratton	1	2" x 2"	222PI6PRO	909.09
2" CI pump, 6.5 hp Intek OHV Vanguard Briggs & Stratton	1	2" x 2"	222PI6VAN	2548.60

Note: -LE is a pumpless unit.

PISTON PUMPS SERIES 5200 BIG TWIN PUMPS

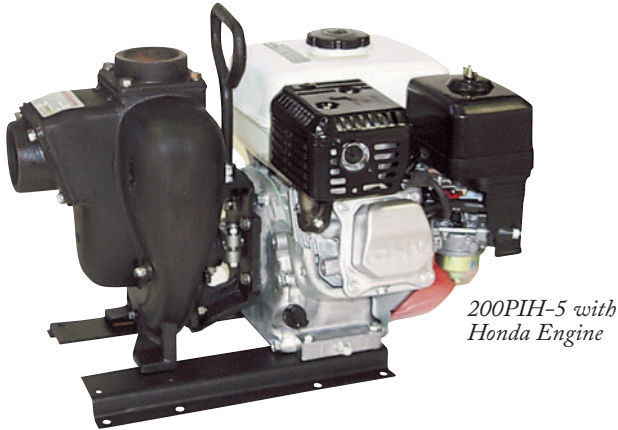
Description	Qty.	Size	Part No.	Price
2" CI pump, 5.5 hp OHV GX160 Honda	1	2" x 2"	222PIH5*	2372.46
2" CI pump, 5.5 hp OHV GX200 Honda	1	2" x 2"	222PIH6	2548.60
2" CI pump, 5.5 hp Electric Start GX160 Honda	1	2" x 2"	222PIH5E	2962.33

**Recommended for use with 10 pound per gal. material or more.*

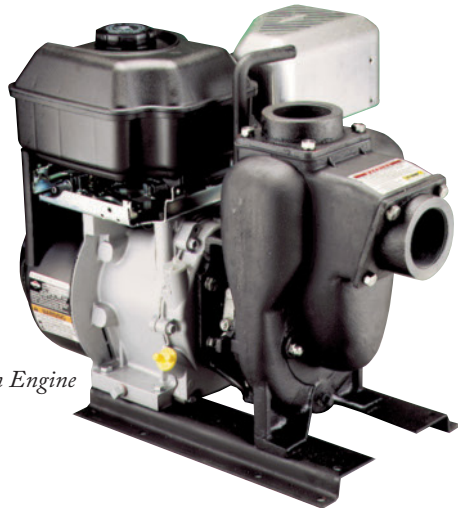
GAS ENGINE PUMPS

- Cast iron construction for rugged, dependable service
- Stainless steel shaft sleeve to protect engine shaft
- Carbon ceramic seal with stainless steel housing and Viton® rubber parts
- Replaceable inlet and outlet flanges
- Dynamic balanced impeller

Warning: Please do not run pumps dry, restrict or reduce port sizes or dead head pumps. This could cause component failure to pump.



200PIH-5 with Honda Engine



200PI-3 with Briggs & Stratton Engine

Description	Size Inlet & Outlet	HP	Part No.	Price
Complete pump with Briggs engine	1-1/2" x 1-1/2"	3	150PI-3	1276.00
Complete pump with Briggs engine	2" x 2"	3	200PI-3	1276.00
Complete pump with Briggs engine	2" x 2"	5	200PI6PRO	1362.70
Complete pump with Honda engine	2" x 2"	5	200PIH-5	1475.76
Complete pump with Briggs Engine	3" x 3"	8	300PI11PRO	3216.70
Electric Start Honda engine	3" x 3"	8	300PIH-8	4148.19
Electric Start Honda engine	3" x 3"	11	300PIH-11	4525.64

HYDRAULIC MOTOR DRIVEN SELF-PRIMING PUMP

Pump:

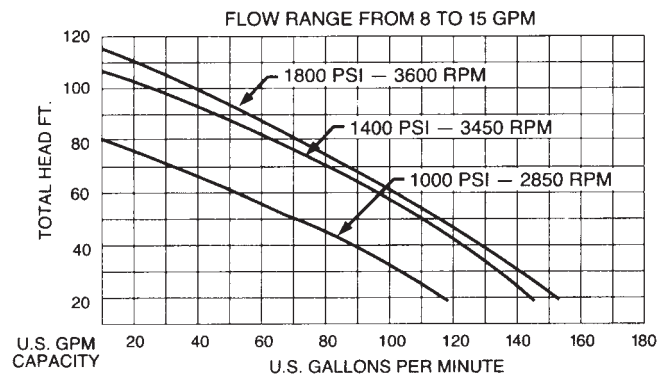
- Cast iron construction for rugged, dependable service
- Carbon ceramic seal with stainless steel housing and Viton® rubber parts
- Stainless steel shaft sleeve
- 3600 RPM

Hydraulic Motor:

- 0.88 in³ per revolution
- Pressures to 3000 PSI
- Journal bearings, pressure balanced construction



Description	Size Inlet & Outlet	Part No.	Price
Complete pump with hydraulic motor - cast	1-1/2" x 1-1/2"	150PIHY	2415.46
Complete pump with hydraulic motor - cast	2" x 2"	200PIHY	2415.46
Complete pump with hydraulic motor - cast	3" x 3"	300PIHY	4904.42
Complete pump with hydraulic motor - SS	2" x 2"	200PHYSS	5336.94
Complete pump with hydraulic motor - SS	3" x 3"	300PHYSS	8887.37

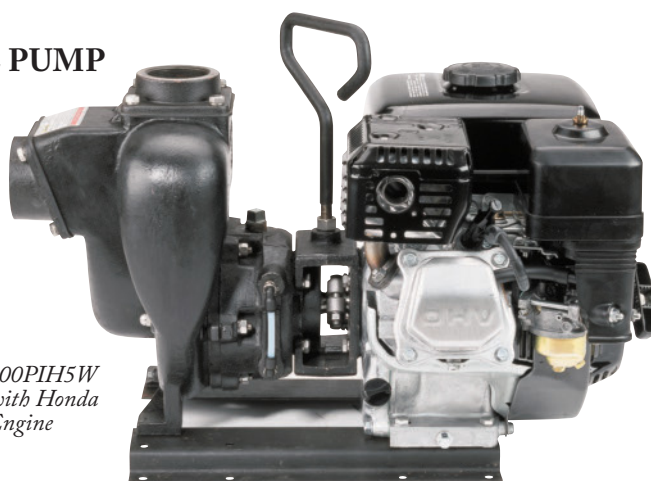


WET SEAL SELF-PRIMING CENTRIFUGAL PUMP

The Banjo Wet Seal Pump is equipped with a double seal arrangement where the seal is contained in an ethylene glycol (antifreeze) reservoir. This enables the pump to run dry for short periods of time without damaging the seal.

Extended service of the seal substantially adds life to the pump and engine.

- Viton double seal contained in ethylene glycol reservoir
- Sight tube indicator
- Dynamic balanced impeller
- All stainless steel hardware
- Available in cast iron or 316 stainless steel, with bearing pedestal, gas engine or pump only



200PIH5W
with Honda
Engine

316 STAINLESS STEEL WET SEAL PUMPS GAS DRIVEN

Description	Size Inlet & Outlet	HP	Part No.	Price
Complete pump with Honda engine	2" x 2"	5	200PH5-SSW	4652.08
Stainless steel pump	3" x 3"	13	301PH13SSW	12,774.73

BEARING PEDESTAL

Description	Size Inlet & Outlet	Part No.	Price
2" pump/bearing pedestal 3/4" shaft	2" x 2"	201PBSSW	3870.23

PUMP ONLY

Description	Size Inlet & Outlet	Part No.	Price
Pump only	2" x 2"	201POSSW	2965.25

CAST IRON WET SEAL PUMPS GAS DRIVEN

Description	Size Inlet & Outlet	HP	Part No.	Price
Complete pump with Briggs engine	2" x 2"	5	201PI6PROW	2185.79
Complete pump with Honda engine	2" x 2"	5	200PIH5W	2710.28
Cast Iron pump (wet seal)	3" x 3"	11	301PIH-13W	4166.67

NOTE: Engine warranty service available at authorized Briggs & Stratton and Honda dealers.

BEARING PEDESTAL PUMPS FOR ELECTRICAL ENGINES

Description	Size Inlet & Outlet	Part No.	Price
1-1/2" pump/bearing pedestal 3/4" shaft	1-1/2" x 1-1/2"	151PBIW	1400.55
Pump/bearing pedestal 3/4" shaft	2" x 2"	201PBI-W	1281.82
Pump/bearing pedestal 1" shaft	3" x 3"	301PBI-W	2363.64

PUMP ONLY FOR GAS ENGINES

Description	Size Inlet & Outlet	Part No.	Price
2" pump only	2" x 2"	201POI-W	1213.99
3" pump only	3" x 3"	301POI-W	2012.12

POLYPROPYLENE SELF-PRIMING CENTRIFUGAL PUMP

The pump is molded from a special high strength polypropylene which is glass reinforced for strength and toughness. The rubber parts are made of EDPM compound. Also available in Buna "N" and Viton rubber parts. Consult factory for specific chemical resistance.

- Precision molded construction
- Corrosion resistant
- Low maintenance
- Lightweight
- Innovative design

Warning: Please do not run pump dry, restrict or reduce port sizes or dead head pump. This could cause compound failure to pump.



200PH-5
Honda



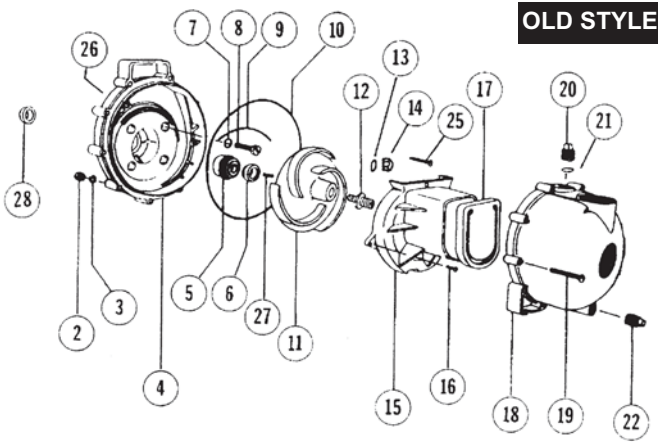
200P6PRO
Briggs & Stratton

CAST IRON WET SEAL PUMPS GAS DRIVEN

Description	Size Inlet & Outlet	HP	Est. Ship Weight	Part No.	Price
Complete pump and gas engine	1-1/2" x 1-1/2"	3	40	150P-3	918.19
Complete pump and gas engine	2" x 2"	3	40	200P-3	918.19
Complete pump and gas engine	2" x 2"	5	45	200P6PRO	1008.87
Complete pump and Honda gas engine	2" x 2"	5	48	200PH-5	1862.40

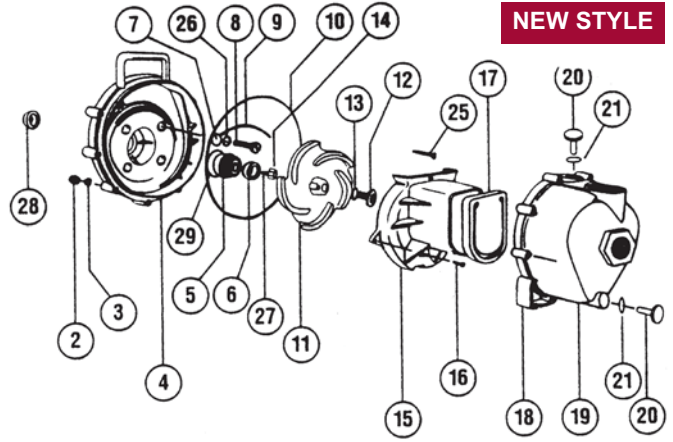
2 IN. PUMP END ONLY WITH 3 VANE IMPELLER

Part No. 200POPrice: \$361.19



2 IN. PUMP END ONLY WITH 5 VANE IMPELLER

Part No. 205POPrice: \$361.19



POLY PUMP REPAIR PARTS LIST FOR PUMPS MANUFACTURED PRIOR TO SEPT. 1996

Ref. No.	Description	Per Pump	Part No.	
			1-1/2"	2"
2	Body	10	V07019	V07019
3	Lock washer	10	V07018	V07018
4	Rear bracket	1	12703	12703
5 & 6	Seal assembly* +	1	12713	12713
7	O-ring for screw heads* +	4	12717	12717
8	Bracket screws	4	12715	12715
9	O-ring segment*	1	12754	12754
10	Body O-ring* +	1	12719	12719
11	Impeller +	1	12771	12771
12	Impeller stud	1	12765	12765
13	O-ring Acorn nut* +	1	12774V	12774V
14	Acorn nut	1	12775	12775
15	Volute	1	12702	12702
16	Volute screws	2	12725	12725
17	Check valve +	1	12705	12705
18	Body	1	12011	12012
19	Body screws	10	12720	12720
20	Prime plug	1	12776	12776
21	O-ring prime plug* +	1	12722	12722
22	Drain plug	1	12723	12723
25	Upper Volute screw	1	12900	12900
26	1/4" SS washer	4	12901	12901
27	Impeller key	1	12902	12902
28	Slinger O-ring* +	3	12722	12722
29	Seal O-ring* +	1	12710	12710
	Pump Repair Kit (consists of items marked with +)	1	12000	12000
	Pump Seal/O-ring Kit (consists of items marked with *)	1	12999	12999

POLY PUMP REPAIR PARTS LIST FOR PUMPS MANUFACTURED BEGINNING SEPT. 1996

Ref. No.	Description	Per Pump	Part No.	
			1-1/2"	2"
2	Body nuts SS	10	V07019	V07019
3	Lock washer SS	10	V07018	V07018
4	Poly pump rear bracket	1	12703A	12703A
6	Seal assembly* +	1	12713	12713
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	1 5/16 vane poly pump Impeller +	1	12771A	12772
12	Impeller blt SS	1	12765A	12765A
13	Impeller blt gasket* +	1	12774VA	12774VA
14	Impeller hex nut	1	12775A	12775A
15	Poly pump Volute	1	12702A	12702A
16	Volute screws SS	2	12725	12725
17	Poly pump check valve +	1	12705	12705
18	Poly pump body assembly	1	12711A	12712A
19	Body screws SS	10	12720	12720
20	Prime/drain plug	1	12777	12777
21	Prime/drain plug O-ring* +	1	UV15163	UV15163
25	Upper Volute screw SS	1	12900	12900
26	Rear bracket washer SS	1	12901	12901
27	Impeller key	1	12902A	12902A
28	Poly pump Slinger* +	1	12706	12706
29	O-ring for seal assembly* +	1	12710	12710
	Pump Repair Kit (consists of items marked with +)	1	12000A	12000A
	Pump Seal/O-ring Kit (consists of items marked with *)	1	12999A	12999A

CAST IRON C-FLANGED PUMP

- C-flanged pump packs complete and ready for quick and easy assembly. Impellers cut to size as needed.
- Pump only packs complete and ready for attachment to gasoline engine.

Warning: Please do not run pumps dry, restrict or reduce port sizes or dead head pumps. This could cause component failure to pump.



Description	Specify	Part No.	Price
1-1/2" x 1-1/2" pump	5/8" shaft sleeve	150POICF5/8	819.01
1-1/2" x 1-1/2" pump	7/8" shaft sleeve	150POICF7/8	819.01
2" x 2" pump	5/8" shaft sleeve	200POICF5/8	819.01
2" x 2" pump	7/8" shaft sleeve	200POICF7/8	819.01
3" x 3" pump	1-1/8" shaft sleeve	17703	13.26

PUMP ONLY-GASOLINE ENGINES

Description	Part No.	Price
1-1/2" pump only	150POI	738.90
2" pump only	200POI	738.90
3" pump only	300POI	1697.36

PEDESTAL PUMPS

With the addition of the Banjo bearing pedestal, the pump is easily adaptable to electric power.



BEARING PEDESTAL PUMPS

Description	Part No.	Price
1-1/2" pump/bearing pedestal 3/4" shaft	150PBI	1008.94
2" pump/bearing pedestal 3/4" shaft	200PBI	1008.94
3" pump/bearing pedestal 1" shaft	300PBI	1977.79
Bearing pedestal for 1-1/2" & 2" pumps	12882A	215.53
Bearing pedestal for 3" pump	18500	447.27

PEDESTAL PUMP FOR ELECTRICAL MOTORS

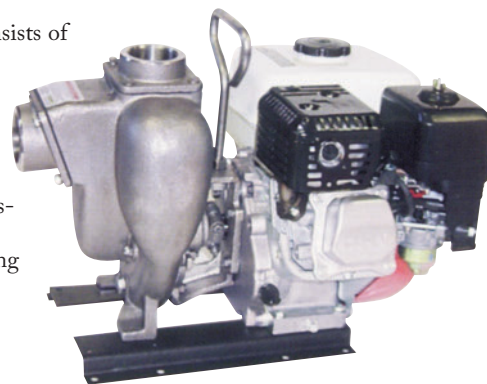
Description	Size Inlet & Outlet	Part No.	Price
2" pump/bearing pedestal 1-3/4" shaft	2" x 2"	200PB-SS	3184.85
3" pump/bearing pedestal 1" shaft	3" x 3"	300PB-SS	5978.55

POLY BEARING PEDESTAL PUMP FOR ELECTRICAL MOTORS

Description	Size Inlet & Outlet	Part No.	Price
Pedestal pump poly 2" 3/4"	2" x 2"	200PB	639.46
Pedestal pump poly 3"	3" x 3"	300PB	969.31

316 STAINLESS STEEL CENTRIFUGAL SELF-PRIMING PUMP

- Carbon ceramic seal consists of 316 stainless steel cup and spring with Viton Elastomer.
- All 316 stainless steel wettable internal components: impeller, sleeve, wear plate and fasteners.
- 316 stainless steel housing
- Dynamic balanced impeller



GAS ENGINE PUMPS

Description	Size Inlet & Outlet	HP	Part No.	Price
Complete pump with Briggs engine	2" x 2"	5	200P6PRO-SS	4226.78
Complete pump with Honda engine	2" x 2"	5.5	200PH5-SS	4652.08
Complete pump with Electric Start Honda engine	3" x 3"	11	300PH11-SS	8914.68

PUMP ONLY FOR GAS ENGINES

Description	Size Inlet & Outlet	Part No.	Price
Pump only	2" x 2"	200PO-SS	2890.16
Pump only	3" x 3"	300PO-SS	5544.81

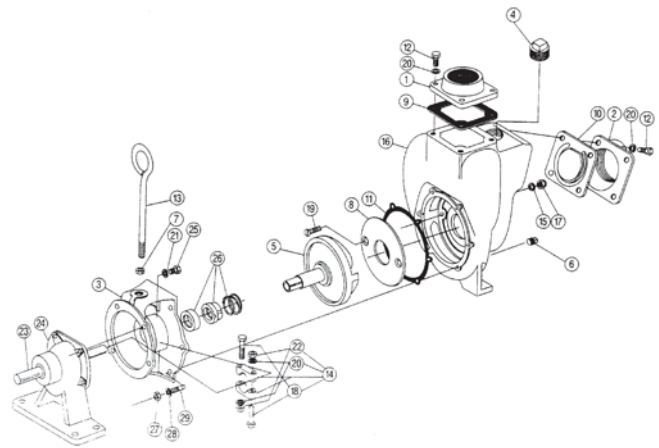
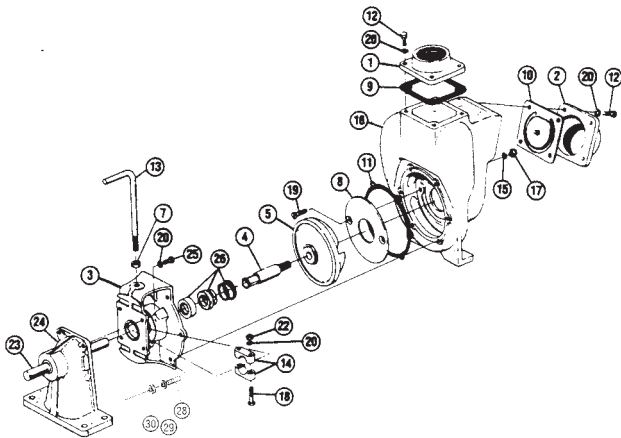
CAST IRON PUMP MANIFOLD FLANGES



2 IN. & 3 IN. CAST IRON PUMP MANIFOLD FLANGES

Description	Part No.	Price
2" manifold outlet flange	M17000	27.31
2" manifold inlet flange	M17002	27.31
3" manifold outlet flange	M18008	50.66
3" manifold inlet flange	M18012	50.66

CAST IRON CENTRIFUGAL SELF-PRIMING PUMP REPLACEMENT PARTS



1-1/2 IN. & 2 IN. PUMP REPLACEMENT PARTS

Ref. No.	Description	Part No.
1	Flange- outlet 2"	17000
1	Flange-outlet 1-1/2"	17001
2	Flange-inlet 20° 2"	17002
2	Flange-inlet 20° 1-1/2"	17003
3	Adapter - gas engine	17004
3	CF adapter for close coupled electric drive pump	17046
4	Sleeve drive 5/8"	17005
4	Sleeve drive 3/4"	*17006
4	Sleeve drive 7/8"	17007
5	Impeller - 5"	*17008
5	Impeller - 4.6"	17008-4.6
5	Impeller - 4.1"	17008-4.1
7	Nut. hex 1/2" - 13 UNC	17010
8	Wear plate	*17011
9	EPDM gasket	17013
10	Gasket - check valve assembly	17016
11	Gasket adapter	*17018
12	Capscrew 5/16" - 18 x 3/4"	17019
13	Handle	17022
14	Clamp, 5/8", 3/4" shaft assembly	17023
14	Clamp, 7/8" shaft assembly	17024
15	Wear plate gasket	*17025
16	Pump housing	17026
17	SS Acorn nut 5/16" - 18	17027
18	Cap screw 5/16" x 18 - 1-3/4"	17029
19	Flat head 820 C screw	*17130
20	5/16" lockwasher	V10118
22	5/16" - 18 hex nut SS	V10119
23	Brg. shaft assembly	12883
24	Complete pedestal assembly	12882A
25	Cap screw 5/16" - 24 NF	17040
26	Seal assembly (EPDM)	17028
26	Seal assembly (Viton)	*17035
28	Stud	17042
29	Lock washer 5/16"	V10118
30	Nut 5/16" - 18 UNC SS hexnut	V10119
N/S	1/4" drain plug	17032
N/S	SS flap washer (Sm)	17020
N/S	SS flap washer (Lg)	17021
N/S	Z-Rails	17033
N/S	Pump Repair Kit (1-1/2" & 2") (consists of items marked*)	17100

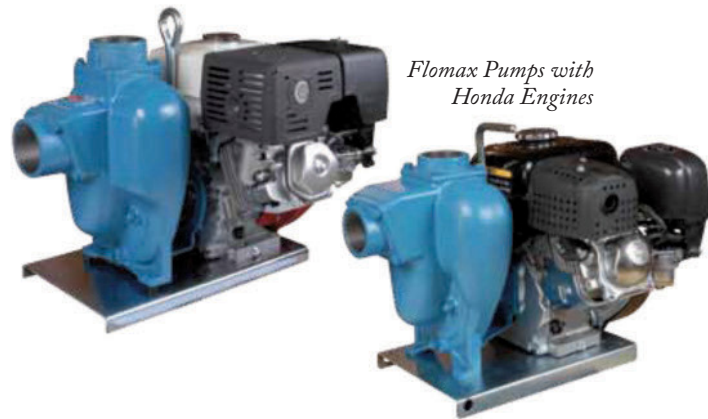
N/S= Not Shown

3 IN. PUMP REPLACEMENT PARTS

Ref. No.	Description	Part No.
1	Flange- outlet 2"	17000
1	Flange - outlet 3" NPT	18008
2	Flange - inlet 3" NPT	18012
3	Gas engine - adapter	18026
3	3" C-flange adapter	18048
3	C.I. hydraulic motor adapter 3"	18049
N/S	Hydraulic adapter shaft 3"	18055
4	Plug 1" NPT flush	18002
5	Impeller & drive shaft 1"	18023*
5	Impeller & drive shaft 1-1/8"	18023-1.125
6	Plug 1/2" NPT	18003
7	Nut, jam 5/8" - 11 thread SS	18034
8	Wear plate	18004*
9	Gasket, outlet EPDM	18009
10	Gasket, check valve assembly	18013
11	Gasket, adapter	18021*
12	Capscrew HX HD. 3/8" - 16 x 1-1/8" Lg. SS	18010
13	Handle 5/8"-11 Thd.	18033
14	Clamp assembly SS (old style)	18029
14	Clamp assembly (keyed) (new style)	18129
15	Gasket, wear plate	*18005
16	3" pump housing	18001
17	3/8" -16 SS Acorn nut	18007
18	Bolt 3/8" - 24 x 2-1/4" LG	18030
19	Bolt 3/8" - 16 x 1-1/4"	18006*
20	Lock washer 3/8"	V20018
22	Nut 3/8" x 24 hex SS	18032
23	1" shaft for 3" pedestal	18504
24	3" bearing pedestal	18500
25	Capscrew	18027
26	Seal assembly (Viton)	18025*
27	Nut 3/8" - 24, hex SS	18032
28	Washer 3/8" lock SS	V20018
29	Stud 3/8" - 16 x 3/8" - 24 x 1-1/2" LG SS	18018
N/S	Z-Rail mounting bracket	18035
N/S	3" Pump Repair Kit (consists of items marked*)	18100

N/S= Not Shown

Note: When ordering replacement parts for the 316 stainless steel centrifugal pump, put a "SS" behind the part numbers on this page.



Flomax Pumps with Honda Engines

See pages 68-69 for all your hose needs and page 87 for your strainer needs

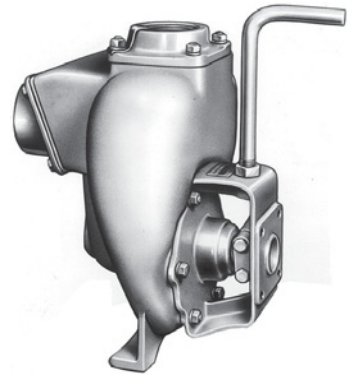


FLOMAX PUMPS WITH HONDA ENGINES

Description	Part No.	Price
5 hp Honda engine with 2" Flomax 8 pump	50172	2952.03
9 hp Honda engine with 2" Flomax 10 pump	50186	4979.79
9 hp Honda engine, electric start, with 2" Flomax 10 pump	50187	5681.82
9 hp Honda engine with 3" Flomax 15 pump	50188	5063.12
9 hp Honda engine, electric start, with 3" Flomax 15 pump	50189	5765.15
13 hp Honda engine, electric start, with 3" Flomax 15 pump	50339	6244.94



See pages 95-102 all your valve and coupler needs



PUMP END FOR USE WITH STANDARD ENGINE

Description	Material	Est. Ship Weight	Part No.	Price
Flowmax 5 replacement PUMPAK for use with 3/4" crankshaft engines	Cast Iron	37 lb	21312	160.61
Flowmax 8 replacement PUMPAK for use with 3/4" crankshaft engines	Cast Iron	37 lb	21327	865.15
PUMPAK	Stainless	49 lb	28396	2772.73

PUMP END FOR USE WITH STANDARD ENGINE

Description	Material	Est. Ship Weight	Part No.	Price
Flowmax 10 replacement PUMPAK for use with 1" crankshaft engines	Cast Iron	68 lb	21354	1542.42
Flowmax 15 replacement PUMPAK for use with 1" crankshaft engines	Cast Iron	68 lb	21372	1592.42



FLOMAX PUMPS



FLOMAX 5

Self-Priming Pumps
Pipe Size: 1-1/2" x 1-1/2"
5,800 GPH @ 3,600 RPM

FLOMAX 8

Self-Priming Pumps
Pipe Size: 2" x 2"
8,400 GPH @ 3,600 RPM



FLOMAX 10

Self-Priming Pumps
Pipe Size: 2" x 2"
11,100 GPH @ 3,600 RPM

FLOMAX 15

Self-Priming Pumps
Pipe Size: 3" x 3"
15,900 GPH @ 3,600 RPM

GASOLINE ENGINE DRIVEN

Description	Material	Est. Ship Weight	Part No.	Price
5 hp value drive for Flowmax 5	Cast Iron	75 lb	36765	2059.09
5 hp Briggs for Flowmax 5	Cast Iron	75 lb	23985	1825.67
5 hp Briggs for Flowmax 8	Cast Iron	75 lb	23955	1804.91

Bronze and aluminum pumps also available.

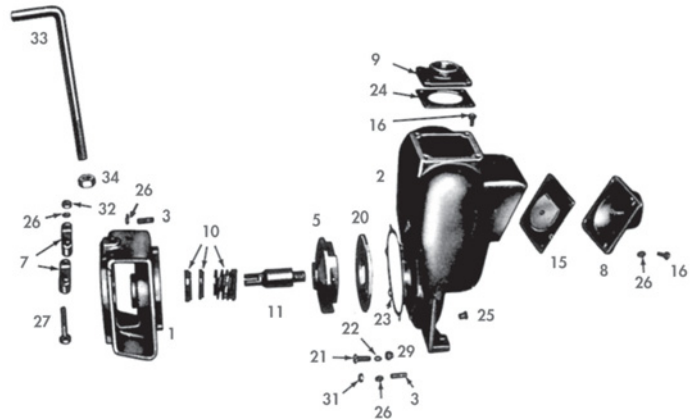
FLOMAX 10 AND 15 REPLACEMENT PARTS

Ref. No.	Description	Part No.	Price
1	Adapter—Cast Iron	22247	185.45
2	Housing assembly—Cast Iron	23021	486.45
5	Impeller—Cast Iron	22293	74.52
7	Clamp assembly	23002	37.94
8	Flange—inlet—1-1/2" Cast Iron	22263	35.06
8	Flange—inlet—2" Cast Iron	22387	38.64
9	Flange—outlet—1-1/2" Cast Iron	22266	28.24
9	Flange—outlet—2" Cast Iron	22311	34.91
10	Seal assembly—self-lubricated	17035	68.59
11	Shaft (drive sleeve)	22286	94.45
15	Flapper assembly	23022	38.12
20	Wear plate assembly—steel	23024	45.52
23	Gasket—housing to adapter	22255	3.18
24	Gasket—outlet flange	17013	6.15
29	Acorn nut—SS—5/16"	22655	2.97
N/S	Impeller jam nut—SS	21237	4.79

N/S=Not Shown

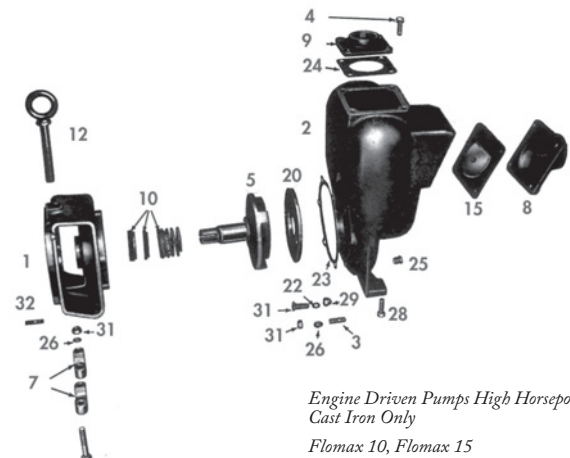
Self-Priming Centrifugal Engine Driven Pumps
Cast Iron Only

Flomax 5—1-1/2 in. Pipe Size, Flomax 8—2 in. Pipe Size



FLOMAX 5 AND 8 REPLACEMENT PARTS

Ref. No.	Description	Part No.	Price
1	Adapter—Cast Iron	22348	312.76
2	Housing assembly—Cast Iron	24304	1001.97
5	Impeller assembly—Cast Iron	23038	265.00
7	Impeller Clamp assembly	23039	67.33
8	Flange—inlet—2" Cast Iron	22369	47.21
8	Flange—inlet—3" Cast Iron	22468	83.12
9	Flange—outlet—2" Cast Iron	22372	40.55
9	Flange—outlet—3" Cast Iron	22471	71.03
10	Seal assembly—self-lubricated	18025	113.00
15	Flapper assembly	23040	90.36
20	Wear plate assembly—steel	22376	83.82
23	Gasket—housing to adapter	22240	7.41
24	Gasket—outlet flange	22358	9.53



Engine Driven Pumps High Horsepower
Cast Iron Only

Flomax 10, Flomax 15

PEDESTAL PUMP FOR BELT OR DIRECT DRIVE

Description	Material	Est. Ship Weight	Part No.	Price
PUMPAK with pedestal mount right hand rotation with 3/4" shaft for Flowmax 5	Cast Iron	44 lb	21312	1060.61
PUMPAK with pedestal mount right hand rotation with 3/4" shaft for Flowmax 8	Cast Iron	44 lb	28399	2968.28
	Stainless	49 lb	21339	1075.76
Double Seal pump for Flowmax 8	Cast Iron		33961	2021.21

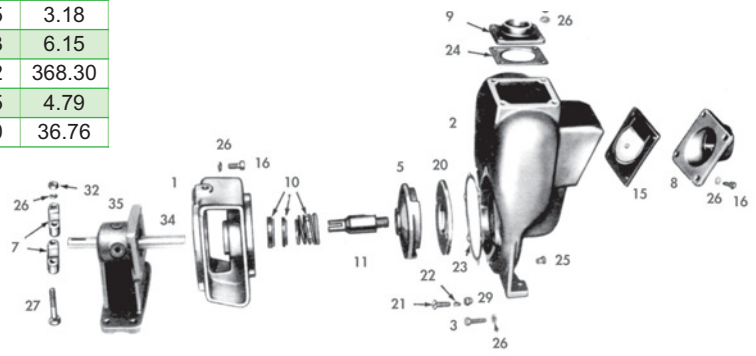
FLOMAX 5 AND 8 REPLACEMENT PARTS

Ref. No.	Description	Part No.	Price
1	Adapter—Cast Iron	22247	185.45
2	Housing assembly—Cast Iron	23021	486.45
5	Impeller—Cast Iron—5.0" Dia.	22293	74.52
7	Clamp assembly	23002	38.12
8	Flange—inlet—1-1/2" Cast Iron	22263	35.06
8	Flange—inlet—2" Cast Iron	22387	38.64
9	Flange—outlet—1-1/2" Cast Iron	22266	28.24
9	Flange—outlet—2" Cast Iron	22311	34.91
10	Seal assembly—self-lubricated	17035	68.49
11	Drive sleeve—SS—3/4" bore	22286	94.45
15	Flapper assembly	23022	37.94
20	Wear plate assembly—steel	23024	45.52
23	Gasket—housing to adapter	22255	3.18
24	Gasket—outlet flange	17013	6.15
34	Pedestal assembly	26142	368.30
36	Impeller lock nut—SS	22655	4.79
N/S	Bearing pedestal (2 required)	22300	36.76

*Pedestal Mount Pumps For Belt or Direct Drive
Cast Iron Only*

Flomax 5—1-1/2 in. Pipe Size

Flomax 8—2 in. Pipe Size



PEDESTAL PUMP FOR BELT OR DIRECT DRIVE

Description	Material	Est. Ship Weight	Part No.	Price
PUMPAK with pedestal mount right hand rotation with 1" shaft for Flowmax 10	Cast Iron	77 lb	21363	1825.76
PUMPAK with pedestal mount right hand rotation with 1" shaft for Flowmax 15	Cast Iron	77 lb	21381	1866.67

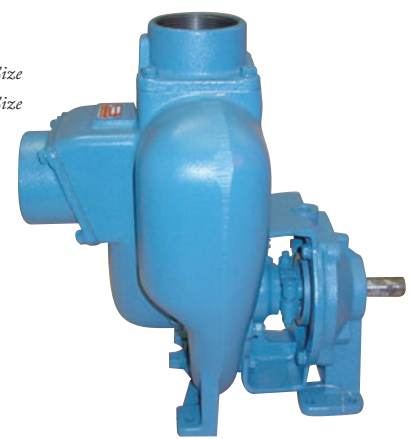
FLOMAX 10 AND 15 REPLACEMENT PARTS

Ref. No.	Description	Part No.	Price
1	Adapter—Cast Iron—standard seal	22348	312.76
2	Housing assembly - Cast Iron	24304	1001.97
5	Impeller assembly—Cast Iron	23038	265.00
7	Impeller clamp assembly	23039	67.33
8	Flange—inlet—2" Cast Iron	22369	47.21
8	Flange—inlet—3" Cast Iron	22468	83.12
9	Flange—outlet—2" Cast Iron	22372	40.55
9	Flange—outlet—3" Cast Iron	22471	71.03
10	Seal assembly—self-lubricated	18025	113.00
12	Pedestal assembly	26164	464.91
15	Flapper assembly	23040	90.36
20	Wear plate assembly—steel	22376	83.82
23	Gasket—housing to adapter	22240	7.41
24	Gasket—outlet flange	22358	9.53
N/S	Bearing pedestal (2 required)	25474	51.73

*Self-Priming Pedestal Mount Pumps For
Belt or Direct Drive
Cast Iron Only*

Flomax 10—2 in. Pipe Size

Flomax 15—3 in. Pipe Size



N/S=Not Shown



HYDRAULIC MOTOR DRIVEN PUMP

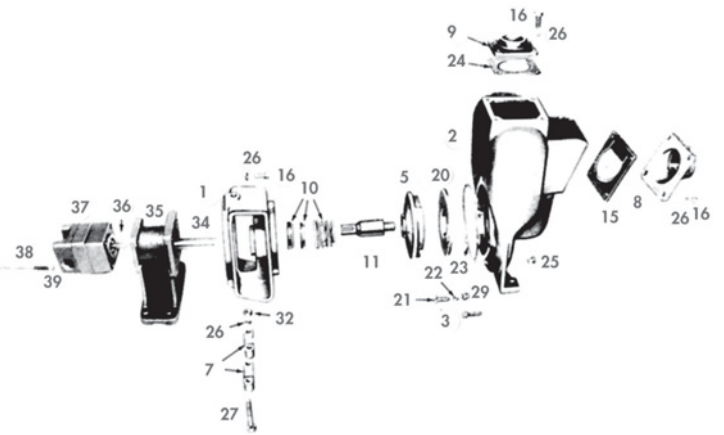
Description	Material	Est. Ship Weight	Part No.	Price
Pedestal pump with mechanical seal for Flowmax 5	Cast iron	48 lb	36587	2145.15
Pedestal pump with mechanical seal for Flowmax 8	Cast iron	48 lb	36588	2160.61

FLOMAX 5 AND 8 REPLACEMENT PARTS

Ref. No.	Description	Part No.	Price
1	Adapter—Cast Iron	22247	185.95
2	Housing assembly—Cast Iron	23021	486.45
5	Impeller—Cast Iron	22293	74.52
7	Clamp assembly	23002	38.12
8	Flange—inlet—1-1/2" Cast Iron	22263	35.06
8	Flange—inlet—2" Cast Iron	22387	38.64
9	Flange—outlet—1-1/2" Cast Iron	22266	28.24
9	Flange—outlet—2" Cast Iron	22311	34.91
10	Seal assembly—Self-lubricated	17035	68.59
11	Drive Sleeve—SS— 3/4" Bore	22286	94.45
15	Flapper assembly	23022	37.94
20	Wear plate assembly—steel	23024	45.52
23	Gasket—housing to adapter	22255	3.18
24	Gasket—outlet flange	17013	6.15
29	Acorn nut— 3/16" —18	21237	2.97
37	Hydraulic motor	36447	1308.09
N/S	O-ring Kit (hydraulic motor)	26374	27.58
N/S	Bearing - Pedestal (2 required)	22301	27.55
N/S	Impeller lock nut—SS	22655	4.79

N/S=Not Shown

Self-Priming Pedestal Mount Hydraulic Motor Drive Pumps
Cast Iron Only
Flomax 5—1-1/2 in. Pipe Size
Flomax 8—2 in. Pipe Size



HYDRAULIC MOTOR DRIVEN PUMP

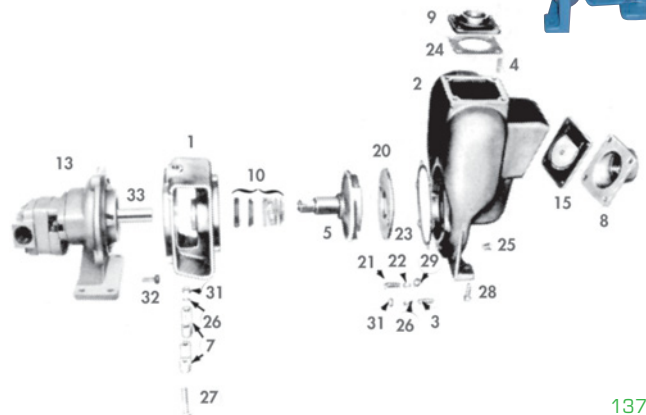
Description	Material	Est. Ship Weight	Part No.	Price
Pedestal pump with mechanical seal for Flowmax 10	Cast iron	94 lb	28552	3195.45
Pedestal pump with mechanical seal for Flowmax 15	Cast iron	94 lb	28553	3245.45

FLOMAX 10 AND 15 REPLACEMENT PARTS

Ref. No.	Description	Part No.	Price
1	Adapter—Cast Iron (self-lubricated seal)	22348	312.76
5	Impeller assembly—Cast Iron	23038	265.00
7	Impeller clamp assembly	23039	67.33
8	Flange—inlet—2" Cast Iron	22369	47.21
8	Flange—inlet—3" Cast Iron	22468	83.12
9	Flange—outlet—2" Cast Iron	22372	40.55
9	Flange—outlet—3" Cast Iron	22471	71.03
10	Seal assembly—self-lubricated	18025	113.00
13	Hydraulic motor (ultra)	28544	1151.82
15	Flapper assembly	23040	90.36
20	Wear plate assembly—steel	22376	83.82
23	Gasket—housing to adapter	22240	7.41
24	Gasket—outlet flange	22358	9.53
33	Pedestal assembly only	25772	469.24
N/S	Hydraulic motor seal (ultra)	30045	362.39
N/S	O-ring kit (MTE hydraulic motor)	26385	39.82

N/S=Not Shown

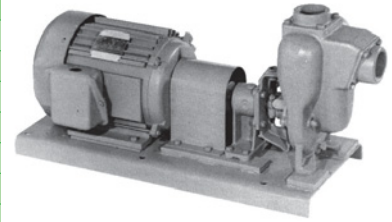
Self-Priming Pedestal Mount Pumps
Hydraulic Motor Driven
Cast Iron Only
Flomax 10—2 in. Pipe Size
Flomax 15—3 in. Pipe Size





LONG COUPLED ELECTRIC PUMP & MOTOR

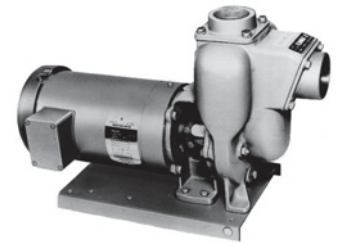
Description	NEMA Frame	Phase	Impeller Diameter	Est. Ship Weight	Part No.	Price
Flowmax 5, 3 hp	182T	3	5"	125 lb	50173	5102.45
Flowmax 8, 3 hp	182T	3	5"	125 lb	50177	5766.06
Flowmax 5, 5 hp	184T	3	5"	145 lb	50174	6009.91
Flowmax 8, 5 hp	184T	3	5"	145 lb	50129	6115.21
Flowmax 5, 3 hp	182T	1	5"	145 lb	50175	5886.06
Flowmax 8, 3 hp	182T	1	5"	145 lb	50178	6891.52
Flowmax 5, 5 hp	184T	1	5"	160 lb	50176	6866.27
Flowmax 8, 5 hp	184T	1	5"	160 lb	50179	6891.52



Description	NEMA Frame	Phase	Impeller Diameter	Est. Ship Weight	Part No.	Price
Flowmax 10, 7.5 hp	213T	3	6"	248 lb	50180	8648.67
Flowmax 15, 7.5 hp	213T	3	6"	275 lb	50183	8079.36
Flowmax 10, 10 hp	215T	3	6"	290 lb	50181	8775.30
Flowmax 15, 10 hp	215T	3	6"	290 lb	50184	8852.91
Flowmax 10, 7.5 hp	213T	1	6"	280 lb	50182	9177.55
Flowmax 15, 10 hp	215T	1	6"	290 lb	50185	10,486.03

ELECTRIC MOTOR DRIVEN

Description	NEMA Frame	Phase	Impeller Diameter	Est. Ship Weight	Part No.	Price
Flowmax 5, 2 hp	145TC	3	4.625"	95 lb	50138	3879.24
Flowmax 8, 2 hp	145TC	3	4.625"	95 lb	50137	3917.12
Flowmax 5, 3 hp	145TC	3	5"	100 lb	50145	4158.48
Flowmax 8, 3 hp	145TC	3	5"	100 lb	50146	4196.36
Flowmax 5, 2 hp	56C	1	4.625"	100 lb	50139	4175.24
Flowmax 8, 2 hp	56C	1	4.625"	100 lb	50135	4213.12



Base Not Included

Three phase motors are 230/460 Volt 60 HZ—3450 RPM—TEFC

Single Phase motors are 115/230 Volt 60 HZ—3450 RPM—TEFC

Description	NEMA Frame	Phase	Impeller Diameter	Est. Ship Weight	Part No.	Price
Flowmax 10, 7.5 hp	184TC	3	6"	248 lb	50143	6289.48
Flowmax 15, 7.5 hp	184TC	3	6"	248 lb	50144	6317.27

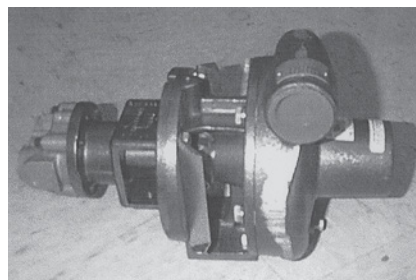
Cast-Iron Electric Motor Driven Flowmax 10

SERIES 120 HYDRAULIC PUMP

Description	Part No.	Price
Pump with hydraulic motor	30359	2824.24
Hydraulic motor only	30357	1834.67

HI SPEED HYDRAULIC PEDESTAL WITH SERIES 80 STRAIGHT CENTRIFUGAL PUMP

Description	Part No.	Price
Pump with hydraulic motor	36701	2418.18
Hydraulic motor only	36450	1519.03



PUMP END FOR USE WITH CLOSE-COUPLED MOTOR

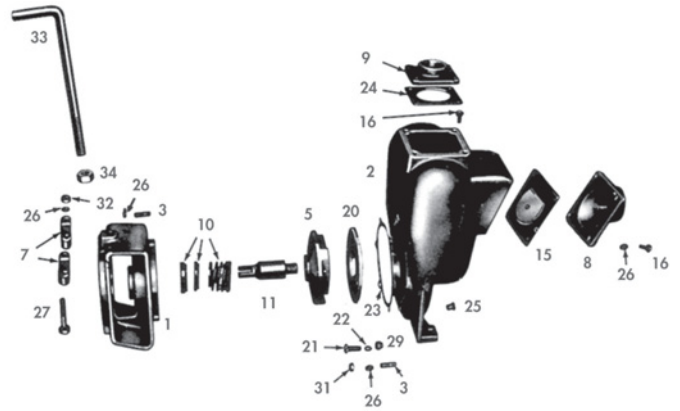
Description	Material	Est. Ship Weight	Part No.	Price
PUMPAK (7/8" sleeve with foot adapter) for Flowmax 5	Cast Iron	38 lb	26531	1137.88
PUMPAK (7/8" sleeve with foot adapter) for Flowmax 8	Cast Iron	38 lb	27578	1160.61

FLOMAX 5 AND 8 REPLACEMENT PARTS

Ref. No.	Description	Part No.	Price
1	Adapter—Cast Iron	25904	244.94
2	Housing assembly—Cast Iron	23021	486.45
5	Impeller—Cast Iron	22293	74.52
7	Clamp assembly for 5/8" sleeve 56C frame	23002	38.12
8	Flange—inlet—1-1/2" Cast Iron	22263	35.06
8	Flange—inlet—2" Cast Iron	22387	38.64
9	Flange—outlet—1-1/2" Cast Iron	22266	28.24
9	Flange—outlet—2" Cast Iron	22311	34.91
10	Seal assembly—Self-lubricated	17035	68.59
11	Drive Sleeve—SS—5/8" Bore	22253	102.06
11	Drive Sleeve—SS—7/8" Bore	25664	99.76
15	Flapper assembly	23022	37.94
20	Wear plate assembly—steel	23024	45.52
23	Gasket—housing to adapter	22255	3.18
24	Gasket—outlet to housing	17013	6.15
29	Acorn nut—SS—5/16"	21237	2.97
36	Impeller lock nut—SS—5/8"	22655	4.79

Close Coupled to Electric Motors NEMA 56C, 145TC and 184C
Cast Iron Only

Flomax 5—1-1/2 in. Pipe Size, Flomax 8—2 in. Pipe Size



PUMP END FOR USE WITH CLOSE-COUPLED MOTOR

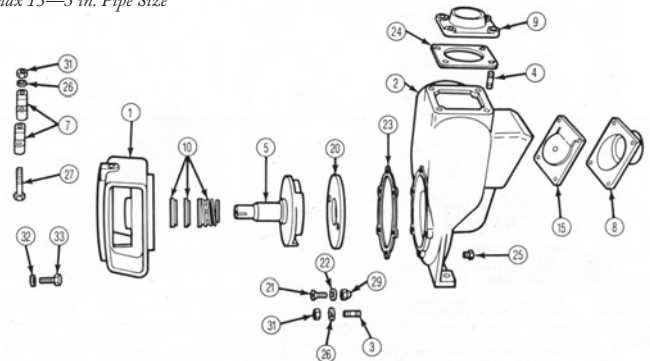
Description	Material	Est. Ship Weight	Part No.	Price
PUMPAK to close-couple to NEMA 182TC/184TC frame motors for Flowmax 10	Cast Iron	68 lb	21366	1737.88
PUMPAK to close-couple to NEMA 182TC/184TC frame motors for Flowmax 15	Cast Iron	68 lb	21384	1754.55

FLOMAX 10 AND 15 REPLACEMENT PARTS

Ref. No.	Description	Part No.	Price
1	Adapter—Cast Iron	18048	489.85
2	Housing assembly—Cast Iron	24304	1001.94
5	Impeller assembly—Cast Iron	22499	394.61
7	Impeller Clamp assembly	23039	67.33
8	Flange—inlet—2" Cast Iron	22369	47.21
8	Flange—inlet—3" Cast Iron	22468	83.12
9	Flange—outlet—2" Cast Iron	22372	40.55
9	Flange—outlet—3" Cast Iron	22471	71.03
10	Seal assembly—Self-lubricated	18025	113.00
15	Flapper assembly	23040	90.36
20	Wear plate assembly—steel	22376	83.82
23	Gasket—housing to adapter	22240	7.41
24	Gasket—outlet flange	22358	9.53

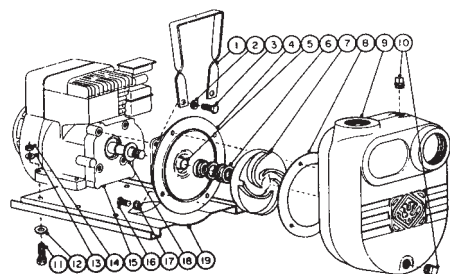
Close Coupled to Electric Motors NEMA 213/215, 184TC
Cast Iron Only

Flomax 10—2 in. Pipe Size, Flomax 15—3 in. Pipe Size



MONARCH PUMPS

The Monarch BSGF Series of self-priming engine driven pumps are designed primarily for liquid fertilizer transfer using a semi open impeller. It is also excellent for water transfer and can be used for flood irrigation, general dewatering and many other such applications.



Models

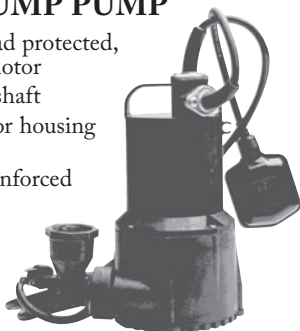
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- c=BSGF-10, BSGF-10H
- d=BSGF-12
- e=8BSGF-12, 8BSGF-12H, 8BSGF-12IC, 8BSGF-12IP

**Suggested Parts to Stock.*

Important: when ordering parts, specify the model and type, code number and part description. N/S=Not Shown

SUBMERSIBLE SUMP PUMP

- ½ hp, 115V thermal overload protected, continuous duty “oil free” motor
- Stainless steel heat treated shaft
- Stainless steel internal motor housing for maximum reliability
- Fully corrosion resistant, reinforced thermoplastic construction
- Automatic, mercury free, mechanical float switch
- Removable filter screen for easy cleaning
- CSA approved



Part No. 620135**Price: \$264.79**

BSGF SERIES-GASOLINE ENGINE DRIVEN-LIQUID FERTILIZER TRANSFER PUMP

Description	Suct. & Dis. NPT	HP	Est. Ship Weight	Part No.	Price
Briggs & Stratton Model 80232, with 3 qt. fuel tank	2"	3.5	64	616810	1271.45
Briggs & Stratton Model 190432, with 4 qt. fuel tank	3"	8	126	616850	3168.48
Honda 5.5 hp, with 4 qt. fuel tank	2"	5.5	70	616886	2466.87
Briggs & Stratton Intek engine	2"	5.5	67	616835	1443.41

BSGF SERIES PERFORMANCE CHART

Total Head In Feet	30	40	50	60	70	80	90	100
Part No.	Capacity In US GPM							
BSGF-8 & 5BSGF-8	135	120	105	85	65	37		
8BSGF-12	310	285	255	220	175	120	60	

Ref. No.	Description	Quantity Required for					Part No.
		a	b	c	d	e	
1	Handle				1		414145
1	Handle					1	414149
1	Handle (8BSGF-12 & 8BSGF-12IC)					1	414142
1	Handle (8BSGF-12H)					1	433184
1	Handle (BSGF-8IP)	1					401666
1	Handle (5BSGF-8, 5BSGF-8IC, BSGF-10)		1				401664
1	Handle	1	1	1			401662
2	Toothlock washer, 5/16" Zinc plated	4	4	4	4		176687
3	Bolt, 5/16" UNF x 3/4" Zinc plated	4	4	4			225961
3	Bolt, 5/16" UNF x 7/8" Zinc plated					4	225971
3	Bolt, 3/8" UNF x 1-1/4" Zinc plated					2	226220
3	Bolt, 3/8" UNF x 1-1/2" Zinc plated					2	226230
4	Adapter						438275
4	Adapter	1	1	1			438280
4	Adapter					1	438480
4	Adapter					1	438481
5*	Sleeve	1	1	1	1		266000
5*	Sleeve SST					1	266006
6*	Mechanical seal, 3/4" I.D.	1	1	1	1		240344
6*	Mechanical seal, 1-1/4" I.D.					1	240359
7*	Impeller						438180
7*	Impeller	1	1				438191
7*	Impeller				1		438200
7*	Impeller					1	438477
7*	Impeller					1	438475
8*	Gasket	1	1	1			193930
8*	Gasket					1	193919
9	Casing-yellow	1	1	1			438040
9	Casing				1	1	438471
10	Pipe plug, 3/4" NPT galvanized	2	2	2	2	2	185650
11	Bolt, 5/16" UNC x 1-1/2" Zinc plated	4	4	4	4	4	226000
11	Bolt, 5/16" UNC x 1-3/4" Zinc plated					4	22601
13	Spring washer, 5/16" Zinc plated	4	4	4	4	4	176220
14	Nut 5/16" UNC Zinc plated	4	4	4	4	4	227820
15	Engine, B&S, 3.5 hp	1					201950
15	Engine, B&S/IC, 3.5 hp	1					201952
15	Engine, Honda, 4 hp/#GX120TX	1					202000
15	Engine, B&S/IP, 3.5 hp	1					201905
15	Engine, B&S Vanguard, 4 hp	1					201907
15	Engine, B&S Intek, 5.5 hp		1	1	1		201915
15	Engine, Honda, 5.5 hp/#GX160TX		1	1			202001
15	Engine, B&S Intek I/C, 5.5 hp		1				201910
15	Engine, B&S Vanguard, 5.5 hp	1					201909
15	Engine, B&S Intek/OG, 5.5 hp		1				201908
15	Engine, B&S, 8 hp					1	201918
15	Engine, Honda, 9 hp/#GX270PX					1	202002
15	Engine, B&S/IC, 8 hp					1	201919
15	Engine, B&S Intek I/C, 8 hp					1	201929
15	Engine, B&S Vanguard, 9 hp					1	201930
16	Bolt, 3/8" UNC x 3/4" SST	4	4	4		4	124191
16	Bolt, 3/8" UNC x 1-1/4" SST					4	172970
17*	Aluminum washer, 5/16"	4	4	4			175500
18*	Flinger (except 5BSGF-8H & BSGF-8IP)		1	1	1		191141
18*	Flinger	1				1	191142
18*	Finger (8BSGF-12IC)					1	191270
18*	Finger (8BSGF-8IC & BSGF-8V)	1				1	194140
19	Base plate	1	1	1	1		414140
19	Base (not as shown)					1	414143
N/S	Nut, 3/8" UNC Zinc plated					4	227830

N/S=Not Shown



SELF-PRIMING CENTRIFUGAL PUMPS

“S” SERIES ENGINE DRIVEN PUMPS

- Housing, Volute and Impeller: 30% glass-filled polyester
- 1-½, 2, or 3" ports
- Flows to 285 GPM
- Working pressures up to 50 PSI
- 316 stainless steel internal and external fasteners
- Rubber parts: EPDM
- Can be used with most ag chemicals



“S” SERIES PEDESTAL MOUNT

- Self-priming centrifugal
- Glass reinforced polyester
- 316 stainless steel internal and external fasteners
- Rubber parts: EPDM
- Can be used with most ag chemicals

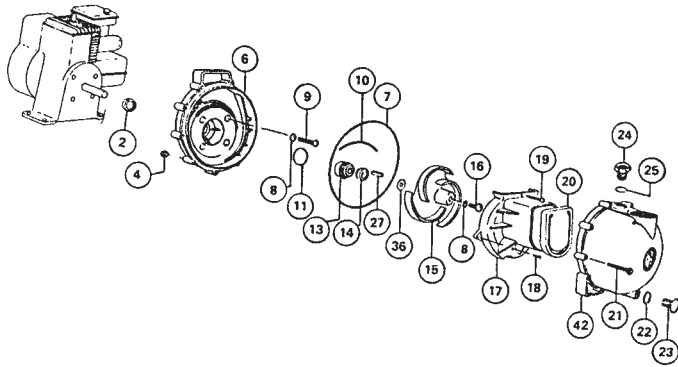


“S” SERIES ENGINE DRIVEN PUMP PRICING

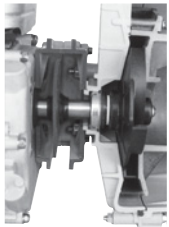
Description	Part No.	Price
3.5 hp 1½" ports (Briggs Engine)	SE1 1/2PLE4CP	572.73
3.5 hp 2" ports (Briggs Engine)	SEB2PLE 4CP	572.73
5.5 hp 2" ports (Briggs Engine)	SEB2ULE5IC	727.27
6.5 hp 3" ports (Briggs Engine)	SE3SL E6CP	1000.00

“S” SERIES PEDESTAL PUMP PRICING

Description	Part No.	Price
1-½" port, ¾" shaft	SE1 1/2AL PE	484.85
2" port, ¾" shaft	SE2FL PE	484.85
3" port, ¾" shaft	SE3LL PE	560.61



PROTEX KIT



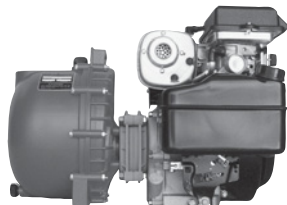
PROTEX Kit only to retrofit existing Pacer “S” Series pumps

- Large cavity to handle even catastrophic seal failure
- Oversized slinger prevents liquid from contacting engine
- Extra large weep hole

Part No. P-58-0015Price: \$143.73

PACER APPLICATOR PUMP

- “S” Series self-priming centrifugal
- Glass reinforced polyester construction
- 316 stainless steel internal and external fasteners
- Flows to 240 GPM
- Rubber parts: EPDM
- Can be used with most ag chemicals
- Pacer’s PROTEX Engine Protection System. Used to protect engine in the event of seal failure.



2" x 2" “S” Series Pump with PROTEX engine protection and 5 hp B&S engine.
Part No. SE2RLE5ICPRTOKPrice: \$878.79

REPAIR PARTS FOR "S" SERIES PEDESTAL PUMP

Ref. No.	Description	Qty./ Pump	Part No.	Price
4	Body nut	105	P-58-0721	1.55
4	SS body nut	10	P-58-0721 10	1.55
6	Bracket	1	P-58-0703 30B	98.91
7	O-ring, body	1	P-58-0719 72	20.09
8	O-ring, screw	5	P-58-0717 72	1.55
9	Screw, bracket	4	P-58-0715 10	6.18
10	O-ring, segment	1	P-58-0754 72	4.64
11	O-ring, shaft seal	1	P-58-0976 72	4.64
13 & 14	Viton seal assembly	1	12713	44.24
15	Impeller	1	P-58-0704 30	40.18
16	Screw, impeller	1	P-58-0716 10	6.18
17	Volute	1	P-58-0702 30	80.37
18	Screw, side Volute	2	P-58-0725 10	1.55
19	Screw, top Volute	1	P-58-0771 10	4.64
20	Check valve	1	P-58-0705 72	37.09
21	Screw, body	10	P-58-0720	1.55
21	SS screw, body	10	P-58-0720 10	3.09
22	O-ring, drain plug	1	P-58-1009 72	3.09
23	Plug, drain	1	P-58-0723 30	4.64
24	Plug, filler	1	P-58-0722 30B	6.18
25	O-ring, filler plug	1	P-58-0765 72	1.55
27	Key	*	P-58-0718 30	3.09
36	Shim (.006")		P-58-0778 11	1.55
36	Shim (.015")		P-58-0778 12	1.55
36	Shim (.030")		P-58-0778 13	1.55
42	Body, 1-½"	1	P-58-1001 30B	136.00
42	Body, 2"	1	P-58-1002 30B	136.00
42	Body, 3"		P-58-0755 30B	244.18
N/S	Repair Kit (seal & O-rings)		P-58-0074	58.73
N/S	Repair Kit		P-58-0025	63.36
N/S	Adapter Kit		P-58-0015	143.73
N/S	Roll cage (Banjo/Pacer)		P-58-0009	244.18
N/S	O-ring Repair Kt		P-58-0005	80.37

*As Required N/S= Not Shown



SELF-PRIMING CENTRIFUGAL PUMPS

PAC 160 2" TRANSFER PUMP

- Corrosion resistant polyester for use with Nitrogen, Roundup, Atrazine, and many other chemicals.
- Stainless steel internal fasteners and EPDM elastomers
- Pump end is molded and assembled in the United States
- Fast suction lifts to 25 ft
- Pacer's No. 704 impeller ensures the performance you've come to expect from a Pacer®
- Maximum shut off pressure: 52 PSI for increased pumping distance and sprinkler head applications.
- Maximum flow rate: 160 GPM for quick transfers

Engine:

- LCT MAXX Series overhead valve engine provides the power you need for maximum pumping performance
- Cast iron cylinder sleeve
- Low oil shutoff for extra engine protection
- Electronic ignition
- 3 qt fuel tank
- 1 year warranty
- EPA and CARB compliant



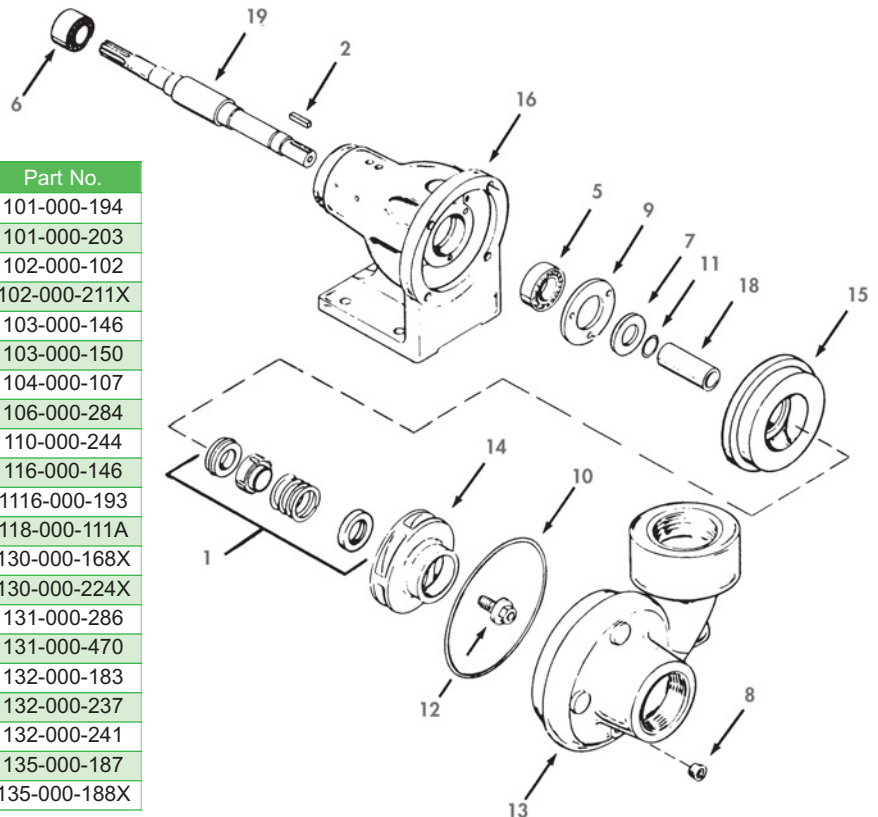
Part No. SEB2PLE5.5Price: \$575.76

SCOT CENTRIFUGAL CAST IRON SPRAYER PUMP

Call for Pricing

2 IN. x 2 IN. OR 3 IN. x 3 IN. SCOT PUMP REBUILD KIT: 118-000-352

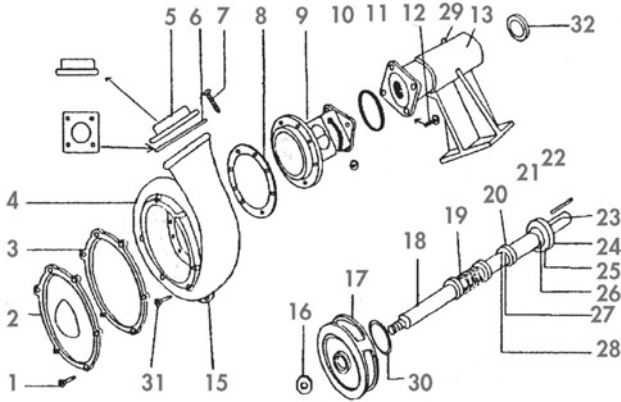
Ref. No.	Description	Qty.	Part No.
➡1A	Seal, Viton—ceramic	1	101-000-194
1B	Seal, Viton—lime duty	1	101-000-203
➡2	Impeller key	1	102-000-102
*	Splined coupling	1	102-000-211X
5	Bearing (pump end)	1	103-000-146
6	Bearing (shaft end)	1	103-000-150
➡7	Flinger	1	104-000-107
8	Drain plug	1	106-000-284
9	Bearing retainer	1	110-000-244
➡10	O-ring case	1	116-000-146
➡11	O-ring shaft		1116-000-193
➡12	Impeller retainer assembly	1	118-000-111A
13	Case 2" x 2"	1	130-000-168X
*	Case 3" x 3"		130-000-224X
	Impeller 3" x 3"		131-000-286
14	Impeller 2" x 2"	1	131-000-470
15	Backplate	1	132-000-183
16	Pedestal	1	132-000-237
*	Hydraulic motor adapter	1	132-000-241
➡18	Sleeve	1	135-000-187
19	Shaft	1	135-000-188X



* Not shown in exploded view ➡ Indicates Parts in rebuild kit

C-2500 SERIES PUMP

Description	Part No.	Price
Pump, PTO	C-2500F	4117.45
Seal Kit	A-2514	376.25



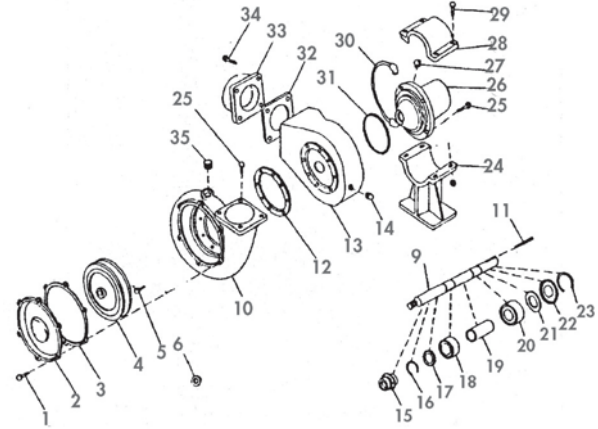
C-2500 PUMP REPLACEMENT PARTS

Ref. No.	Description	Qty.	Part No.
1	Cap screw	6	A-2505-1
2	Cover plate	1	A-2503F
3	Cover plate gasket	1	A-2502
4	Impeller case, iron	1	A-2501
5	Pipe flange	2	A-2545A-F
6	Flange gasket	2	A-2513
7	Coupling bolt & nut	8	A-2521
8	Impeller case gasket	1	A-2511
9	Suction housing, iron assembly	1	A-2515FA
10	View gauge	1	A-2576-10
11	Gasket	1	A-2516
12	Bolt & nut	1	A-2526
13	Bearing housing, iron	1	C-2518F
15	Pipe plug 6/pkg	1	A-2533
16	Lock nut	3	A-2507
17	Impeller, ductile iron	1	A-2506D
18	Impeller shaft	1	A-2508D
19	Rotary seal assembly	1	A-2517
20	Small bearing	1	A-7602
21	Bearing spacer	1	A-2527-D
22	Key	1	A-2519-1
23	Large snap ring	1	A-2532
24	Large bearing	1	A-7603
25	Dust seal washer	1	A-2531
26	Dust seal	1	A-2529
27	Snap ring retainer	2	A-2523
28	Small snap ring	2	A-2524
29	Alemite Fitting	1	A-946
30	Impeller seal ring	1	A-2509C
31	Screw (price-each)	8	A-2512
32	Seal	1	A-2535
N/S	Shaft assembly (C-2500F-D)		A-2508D-A
N/S	Shaft assembly (B-2500D-HD)		B-2508D-HD-A

N/S= Not Shown

A-7600 SERIES PUMP

Description	Part No.	Price
Pump, PTO	A-7600F	4324.19
Seal Kit	A-7614	309.83
Hydraulic pump, less motor	B-7600FD	4658.04



A-7600 PUMP REPLACEMENT PARTS

Ref. No.	Description	Qty.	Part No.
1	Cap screw	6	A-2505-1
2	Cover plate	1	A-2503F
3	Cover plate gasket	1	A-2502
4	Impeller	1	A-7606-7F
5	Screw (price shown is ea.)	8	A-2512
6	Lock nut	1	A-2507
9	Shaft	1	A-7608D
9A	Shaft, hydraulic	1	B-7600D-HD
9B	Shaft with bearing	1	B-7608D-HDA
10	Impeller case	1	A-7601F
11	Key	1	A-2519-1
12	Impeller case gasket	1	A-2511
13	Suction housing	1	A-7615F
14	Plug 12/pkg	3	A-168
15	Rotary seal assembly	1	A-2517
16	Snap ring	2	A-2524
17	Snap ring retainer	2	A-2523
18	Small bearing.	1	A-7602
19	Bearing spacer	1	A-2527-D
20	Large bearing	1	A-7603
21	Dust seal	1	A-2529
22	Dust seal washer	1	A-2531
23	Snap ring	1	A-2532
24	Pedestal assembly	1	A-7607-6F
25	Cap screw (4/pkg)	4	A-7626
26	Bearing housing	1	A-7618F
27	Zerk fitting	1	A-7639
28	Pedestal cap (in assy DF/A-7607-6)	1	A-7609
29	Nut & bolt (in assembly DF/A-7607-6)	1	A-2521
30	View gauge	1	A-2576-10
31	Seal reservoir gasket	1	A-2516
32	Flange gasket	2	A-2513
33	3" flange	2	A-2545AF
34	Cap screw (4/pkg)	4	A-7627
35	Plug (6/pkg)	3	A-2533
N/S	Shaft assembly (A-7600F-D)		A-7608D-A
N/S	Shaft assembly (B-7600D-HD)		B-7608D-HD-A

N/S= Not Shown



NEXT GENERATION PISTON PUMPS

CDS-John Blue Company makes the best even better with NGP, maintaining historical accuracy, performance, and dependability, while taking serviceability to a new level. All CDS-John Blue NGP and existing piston pumps have been engineered and field-tested to achieve the best liquid applicator pump available today.

The NGP offers excellent enhancements, plus all the features and benefits of the proven “L” and “LM” pumps growers have successfully used for years. CDS-John Blue’s reputation for superior quality has been proven by meeting the demands of generations of agricultural professionals.

Illustration of the CDS-John Blue NGP

1. **Single Valve Cap:** One piece piston pump valve cap allows for easy check valve access without removing the hoses.
2. **Outboard Cylinder:** Plunger packing can be inspected or replaced without removing the hoses.
3. **Main Shaft Seals:** The newly designed main shaft seals incorporate a dual wiper that is enclosed in a grease cavity to flush out contamination.
4. **Check Valve Design:** The addition of an O-ring seal offers enhanced priming and is more forgiving in handling debris.
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 and increases pump life.

Description	Part No.	Price
21.0 single piston pump	NGP-6055	2895.14
34.2 single piston pump	NGP-7055	3391.30
42.0 dual piston CM MFD pump	NGP-8055	4583.44
68.4 dual piston CM MFD pump	NGP-9055	5098.82

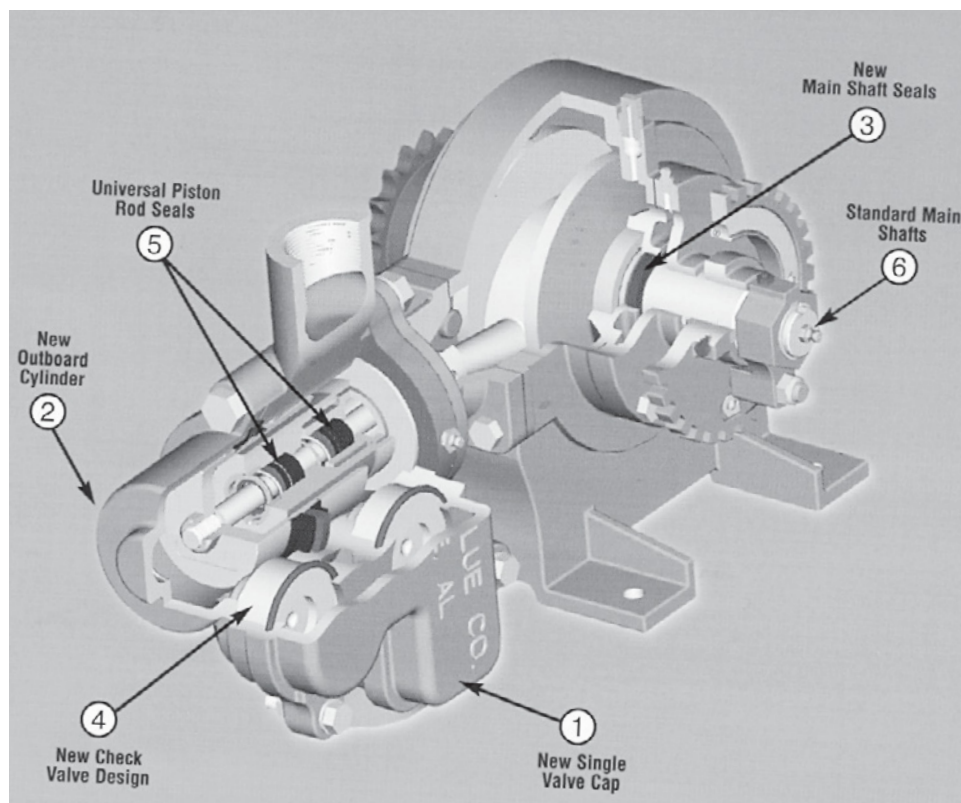
Note: Pumps are also available in stainless steel.

LM Series Piston pumps are no longer available, however Independent Ag Equipment can still service and stock parts for your LM Series pumps.

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.

Common or Independent Manifolds: The larger capacity NGP double metering pumps come standard with a common inlet and outlet. The manifold can be removed for independent pumping chambers allowing dual flow divider usage or half width applications.

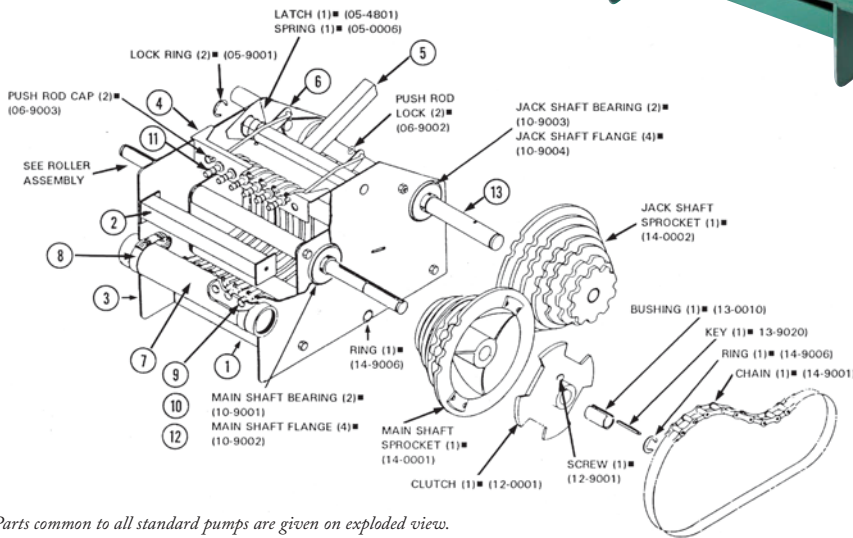
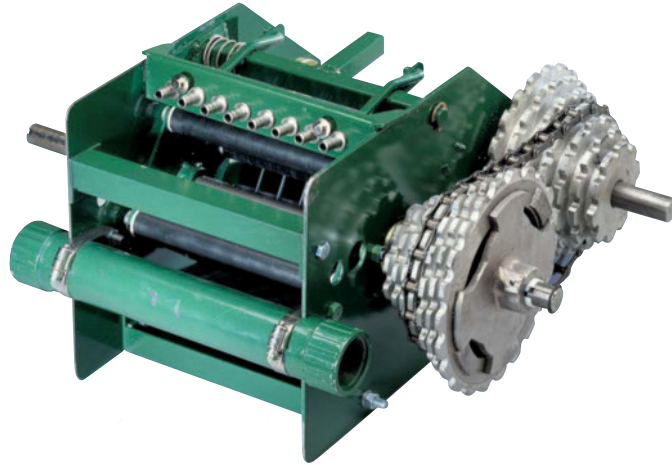
Variable Rate Ready: The new modular design means you can expand the basic NGP to variable rate applications in the future.



The CDS-John Blue Squeeze Tube pumps are designed for accuracy, built for durability, and proven year after year in the field. You can choose from a pump with oval-shaped tubes and the backing plate built right into the tubes or from a pump with round hoses and the patented spring loaded backing plate. The choice is yours, oval or round tubes, each squeeze tube pump offers unique features for your specific application needs.

- Sealed-for-life bearings require no lubrication
- Rubber-coated rollers reduce abrasion, resist corrosion and etching by fertilizers, easily replaceable in the field
- Heavy Duty PVC manifolds are ideal for all fertilizers including acid based products
- Oval shaped tubes with built-in backing plate ensure accurate rates, positive shutoff is due to positive sealing tubes
- 8-48 outlets are available, outlets can be doubled for higher rates
- Pump shaft lets you drive the unit from either side
- Multiple-coned sprockets come standard allowing for seven different delivery rates
- Sturdy, all metal frame

	MPH	12 in.	30 in.	36 in.
B Pump	3.5	90	36	30
	4.5	69	28	23
	5.0	62	25	20
	6.0	51	20	17
L Pump	3.5	180	72	60
	4.5	139	56	47
	5.0	125	50	41
	6.0	103	41	34



*Parts common to all standard pumps are given on exploded view. Number needed per pump shown in parenthesis.

Part No.	Outlets	Tube Size
8B-1	8	3/8"
8L	8	5/8"
12B-1	12	3/8"
12L	12	5/8"
8B-1/8L	16	3/8" & 5/8"
14B-1/12L	26	3/8" & 5/8"
16B-1	16	3/8"
16L	16	5/8"
24B-1	24	3/8"

Most commonly used CDS-John Blue Squeeze Tube Pumps. "B" pumps for low gallon applications and "L" pumps for higher gallon applications. For additional pumps available, see your sales consultant.

Ref. No.	Description	Req.	Pump Model Number									
			26B	24B	20B	16L	16B	14B	12L	12B	8L	8B
1	Base channel	2	01-2610	01-2410	01-1620	01-1620	01-1610	01-1220	01-1220	01-0820	01-0820	01-0810
2	Frame support	1	02-2610	02-2410	02-1620	02-1620	02-1610	02-1220	02-1220	02-0820	02-0820	02-0810
3	Frame end plate	2	03-2610	03-2410	03-2410	03-2410	03-1610	03-2410	03-2410	03-1610	03-1610	03-1610
4	Outlet fitting rack	1	04-2610	04-2410	04-1620	04-1620	04-1610	04-1220	04-1220	04-1210	04-0820	04-0810
5	Tube tension rack	1	05-2610	05-2410	05-2010	05-1620	05-1610	05-1410	05-1220	05-1210	05-0820	050810
6	Push rod	2	06-0011	06-0011	06-0021	06-0021	06-0011	06-0021	06-0021	06-0011	06-0021	06-0011
7	Supply manifold	1	07-2610	07-2410	07-2010	07-1620	07-1610	07-1410	07-1220	07-1210	07-0820	07-0810
8	Manifold clamp	2	07-9002	07-9002	07-9002	07-9002	07-9001	07-9002	07-9002	07-9001	07-9001	07-9007
9	Squeeze tube	*	08-0010	08-0010	08-0010	08-0020	08-0010	08-0010	08-0020	08-0010	08-0020	08-0010
10	Inlet fitting	*P	08-0011	08-0011	08-0011	08-0021	08-0011	08-0011	08-0021	08-0011	08-0021	08-0011
		*S	08-0015	08-0015	08-0015	08-0016	08-0015	08-0015	08-0016	08-0016	08-0016	08-0015
11	Outlet fitting	*P	08-0012	08-0012	08-0012	08-0022	08-0012	08-0012	08-0022	08-0012	08-0022	08-0012
		*S	08-0013	08-0013	08-0013	08-0018	08-0013	08-0013	08-0017	08-0013	08-0017	08-0013
12	SS screw clamps	*	08-9003	08-9003	08-9003	08-9004	08-9003	08-9003	08-9004	08-9003	08-9004	08-9003
13	Jack shaft	1	10-2611	10-2411	10-1621	10-1621	10-1611	10-1221	10-1221	10-0821	10-0821	10-0811

SHURFLO® PUMPS

MODEL 2088 PUMPS

The high performance Shurflo 2088 Series represents over 20 successful years of electric pump development, from the patented three chamber pump-head to its heavy duty motor and bearings. Count on the 2088 and the complete line of Shurflo pumps for long life, unmatched reliability and trouble-free performance.

- Designed for high volume fluid transfer and heavy duty spraying applications
- Self-priming to 12 ft
- Can be run dry without damage
- Available in a variety of chemical resistant materials
- Available with 12, 24, or 36 volt DC and 115 or 230 volt AC motors



Description	Part No.	Price
Standard pump 3.0 GPM, Viton valves, Santoprene diaphragm, 45 PSI demand switch, 1/2" MPT ports, 12V	2088-343-135	209.47
Standard pump 3.2 GPM, Viton valves, Santoprene diaphragm, 40 PSI demand switch, 1/2" MPT ports, 110V	2088-394-154	294.45
Premium pump w/ cooling fins, 3.6 GPM, 45 PSI, 1/2" MPT, 12V DC	2088-313-145	344.73
Standard pump, 4.0 GPM, 45 PSI, 1/2" MPT, 12V DC with switch	2088-313-544	317.20
By-pass pump, 4.0 GPM, 1/2" MPT, 12V DC, no switch	2088-514-500	290.88

MODEL 8000 PUMPS

The Shurflo 8000 Series is ideal for the toughest industrial applications requiring high pressure with flow rates up to 1.8 GPM with low amp draw. Available with valving in a wide variety of elastomers, the 8000 Series can accommodate a broad spectrum of chemical products. Count on the compact 8000 and the complete line of Shurflo pumps for long life, unmatched reliability and trouble-free performance.

- Designed for high pressure fluid transfer and heavy duty spraying applications
- Self-priming up to 8 ft
- Can be run dry without damage
- Available in a variety of chemical resistant materials
- Available with 12, 24, or 36 volt DC and 115 or 230 volt AC motors



Description	Part No.	Price
All Viton pump 1.2 GPM, Viton elastomers, 60 PSI demand switch, 3/8" FPT ports, 12V	8000-343-236	229.82
Standard pump 1.4 GPM, Viton valves, Santoprene diaphragm, 60 PSI demand switch, 3/8" FPT ports, 12V	8000-543-236	175.95
By-pass pump 1.8 GPM Viton valves, Santoprene diaphragm, 45 PSI internal by-pass, 3/8" FPT ports, no switch, 12V	8000-543-250	171.17
100 PSI - GVM exterior pressure wash pump	8002-793-238	210.67
By-pass pump, no switch, 1.4 GPM, 12VDC 3/8" FPT	8000-543-210	171.18
1.0 GPM, 12 VDC 3/8" FPT, Simpson foam marker	8000-541-250	172.36
Standard pump, 1.0 GPM, 60 PSI, 3/8" FPT ports, 115V AC	8000-033-236	297.45

POWER TWIN PUMP DEMAND PUMP

Take all the performance and features of the 2088 series, double it, and the result is the high flow Power Twin. One of the most efficient high flow self-priming pumps available today, the Power Twin is excellent for transferring, spraying, and use as a 1:1 proportioning pump.

6.25 GPM open flow, Viton valves, Santoprene diaphragm, 45 PSI demand switch, 1/2" MPT ports, 12V DC.

Part No. 4211-035Price: \$503.92



POLYPROPYLENE ADAPTER FITTINGS FOR SHURFLO PUMPS

These twist-on strainers will protect the pumps filtering dirt and other foreign particles often found in tanks used in ag spraying. Mounts directly on pump head using integral molded-in threads. Their transparent design makes it easy to see when it's time to clean out the strainer.

SWIVEL WINGNUT STRAIGHT FITTINGS



Description	Part No.	Price
1/2" FPT x 5/8" barb with wing nut (swivel)	234-2936	1.42
1/2" FPT x 3/4" barb with wing nut (swivel)	234-2946	1.42
1/2" FPT x 1/2" barb with wing nut (swivel)	234-2926	1.42
1/2" FPT x 3/8" barb with wing nut (swivel)	234-2916	1.42

SWIVEL HEXNUT ELBOW FITTINGS



Description	Part No.	Price
1/2" FPT x 3/4" barb with wing nut (swivel)	8-157-01	1.42
1/2" FPT x 5/8" barb with wing nut (swivel)	234-3936	1.42
1/2" FPT x 1/2" barb with wing nut (swivel)	234-3926	1.42
1/2" FPT x 3/8" barb with wing nut (swivel)	234-3916	1.42

TWIST-ON STRAINERS

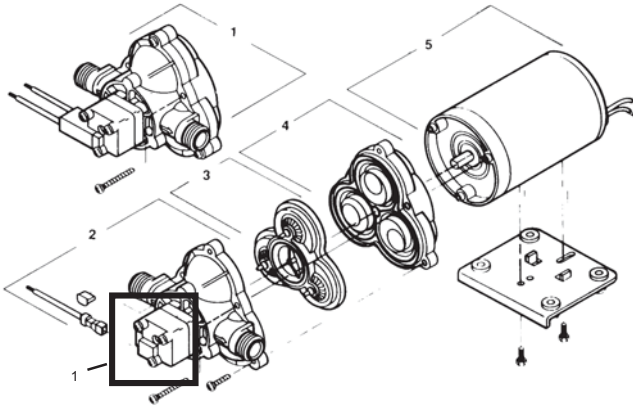


Description	Part No.	Price
1/2" hose barb connector	255-223	11.30
1/2" MPT connector	255-213	11.30

SHURFLO® BREAKDOWN & REPAIR KITS

2088 PARTS KITS

- 1: Switch Kit
- 2: Upper housing & Switch
- 3: Valve Kit
- 4: Diaphragm & Drive
- 5: Motor



Technical Specifications

Design: Positive displacement, 3 chamber diaphragm pump
 Motor: Permanent magnet w/ solid state rectifier on 115V & 230V
 Voltage: 12 Volt DC; 115 VAC; 230 VAC
 Duty Cycle: Available in intermittent and continuous duty
 Construction materials: Polypropylene, EPDM, Santoprene, Viton, BUNA, stainless steel
 Liquid temperature: 170°F max.
 Weight: 3.5-7.5 lb
 Prime: Self-priming to 12 ft male threaded

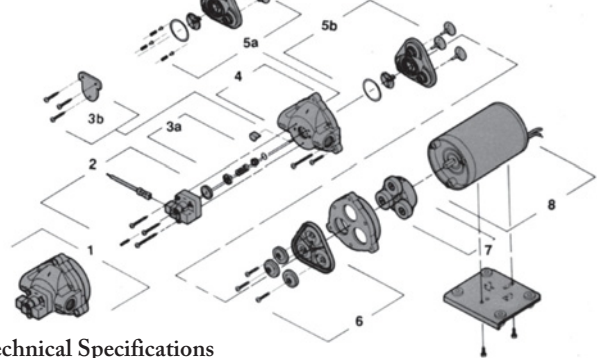
MODEL 2088 PARTS KITS

Ref. No.	Description	Part No.	Price
1	Switch Kits		
	Viton 40-45 PSI adjustable (LP), for 2088-343-135 & 2088-394-154	94-230-36	31.12
	Splash Proof, Viton 40-45 PSI adjustable, for Model 2088-313-145	94-230-55	39.50
2	Upper Housing Kits		
	½" MPT x ½" MPT Poly-Pro, for all listed 2088 Models except 2088-343-170 & 2088-343-500	94-231-30	17.66
	With Switch kit, Viton, 40-45 PSI adjustable (LP), or all Viton models with Mini-Micro switch	94-231-05	69.42
3	Valve Kits		
	Poly/Viton, for all listed 2088 Models	94-232-05	61.94
	Check Valve Kit, Viton, for Model 2088-313-145, 2088-343-135, & 2088-394-154	94-237-05	29.33
4	Diaphragm/Drive Kit: Santo, 3.0" cam, for all listed 2088 Models	94-238-03	44.59

Note: Complete pump head available.

8000 PARTS KITS

- 1: Complete pump head
- 2: Switch assembly
- 3a: Check valve assembly
- 3b: No control plate
- 4: Upper housing
- 5a: Bypass valve assembly
- 5b: Non-Bypass valve assembly
- 6: Diaphragm
- 7: Drive assembly
- 8: Motor



Technical Specifications

Design: Positive displacement 3 chamber diaphragm pump
 Motor: Permanent magnet w/ solid state rectifier on 115V & 230V
 Duty Cycle: Available in intermittent and continuous duty
 Voltage: 12, 24, 36, Volt DC; 115 VAC; 230 VAC
 Construction materials: Polypropylene, nylon, EPDM, Santoprene, Viton, Geolast, BUNA, zinc plating, stainless steel
 Liquid temperature: 180°F max.
 Weight: 3.0- 5.5 lb
 Prime: Self-priming to 8 ft
 Ports: ⅜" NPT female, ½" NPT male, Snapfit™ (different size adapters available)

8000 PARTS KITS

Ref. No.	Description	Part No.	Price
2	Switch Kits		
	Viton, 60 PSI for all 8000 Models except 8000-543-250, 8007-543-250, 8000-533-250, 8000-543-290, or 8000-543-238	94-375-05	35.01
	Viton, 80-100 PSI for Model 8000-543-238	94-375-15	36.81
	Santoprene for Model 8002-793-283	94-375-18	29.33
3a	Check Valve Kit: Viton, 1-way check valve for all listed 8000 Models	94-374-05	14.36
4	Upper Housing Kits		
	Polypro, ½" male for 8000-543-136	94-378-00	23.33
	Polypro, ⅜" female for all 8000 Models except 8000-543-136	94-379-00	24.54
5	Valve Kits		
	Viton for all listed 8000 Models except 8000-543-250, 8007-543-250, 8000-533-250 and 8000-542-296	94-390-05	51.18
	Viton, 45 PSI bypass for 8000-543-250 and 8000-533-250	94-391-09	61.06
	Viton, 60 PSI by-pass for Models 8007-543-250 & 8000-542-296	94-391-07	58.67
6	Diaphragm Kits		
	Viton for Model 8000-343-236 & 8000-033-236	94-395-05	70.03
	Santoprene for all listed 8000 Models except 8000-343-236 & 8000-033-236	94-395-06	24.24
7	Drive Assembly Kits		
	3.0 cam for all listed 8000 Models except 8000-033-236, 8000-541-236, 8000-542-296, & 8000-343-236	94-385-03	31.73
	2.5 cam for Models 8000-542-296, 8000-033-236, & 8000-343-236	94-385-04	31.73
	2.0 cam for Model 8000-541-236	94-385-02	31.72

Note: Complete pump head available.

SOTERA DEF PUMPS & ACCESSORIES



AIR OPERATED DIAPHRAGM PUMP

The most advanced air-operated double diaphragm pump on the market. In grueling industrial environments, Sotera Systems Diaphragm pumps deliver exceptional performance for years of dependable operation. The SP100 Series Air-Operated Double Diaphragm Pump can be configured in materials that are resistant to industrial chemicals and is proven to provide complete compatibility coverage for a wide range of fluids.

Unique Diaphragm Construction

A stainless steel shaft with a reinforced diaphragm nut fully supports the diaphragm and prevents cross threading. The uniform seal hinge minimizes wear, increasing life of the diaphragm.

Easy-off Threaded Ring Construction

The unique patented QuikSeal® is designed for quick-turn access to clear ball checks to replace diaphragms.

Ceramic Air Valve

The innovative, patented, non-centering ceramic QuikFlow® air valve design provides an extremely fast trip-over, resulting in a 60 percent reduction in pulsation.

Part No. SP100-10N-PP-SSS.....**Price: \$1,630.00**

HAND LEVER PUMP

- Fast delivery - 11 oz per stroke
- Suitable for low volume shops - great for an emergency backup
- Bung adapter included - securely fastens pump to drum
- Polypropylene construction, fluorocarbon seals
- Telescoping suction pipe included.

Part No. FRHP32V**Price: \$167.30**

Hose and Valve kit: ¾ x 8 in. hose with ball tap valve

Part No. KITHA32V**Price: \$71.27**

ROTARY VANE PUMPS

Sotera Professional Series Rotary Vane pumps are perfect for DEF transfer pump applications. Stainless steel construction and Viton® seals ensure clean, dependable handling of DEF products with durable, long-lasting performance.

True Self-priming Technology

No priming chamber to be filled. The rotary vane pump design provides excellent suction lift and application flexibility.

Internal Bypass

Spring is installed in the pump housing for continuous pump operation.



Short-term Dry-run Capabilities

High-efficiency pump with self-priming, short-term dry-run capabilities for completely emptying totes.

Part No. FRSA120800MN**Price: \$1,710.79**

Part No. FRSD120800MN**Price: \$1,525.64**

TOTE UNIT MOUNTING PACKAGE

Mount on a 55 gallon drum or up-size to the 275 or 300 gallon tote with the same mounting bracket (also compatible with wall mount applications).



KIT180MAMPS includes:

- Digital meter (825D075BSPP) and union
- Stainless steel mounting plate
- ¾ x 6 in. hard wall suction plate
- ¾ x 12 in. discharge hose
- ¾ in. automatic nozzle

Part No. KIT180MAMPS**Price: \$1,556.52**

55 GALLON DRUM KIT DOLLEY

- Heavy duty cart for 55 gallon drum kit
- For use with either KIT180MAPS or KIT180MAMPS
- Heavy duty locking casters allow for easy maneuvering of cart
- Stainless steel construction

Part No. KITFR55DU**Price: \$1,441.91**

(Stainless steel mounting plate Part No. KIT180MPPS sold separately)

DRUM/TOTE UNIT MOUNTING CONNECTION

- Reusable stainless valve 4 pin dispense coupler
- Horizontal ¾ in. barbed outlet
- Viton seals

Part No. MMSS075RSV**Price: \$418.36**

ELECTRIC MOTORS & COUPLINGS

BALDOR ELECTRIC MOTORS

- Sturdy steel frame with steel base for rigidity in NEMA 182T and larger
- Cast aluminum endplates assure longer bearing life
- Generous size, conduit box, rotatable through 90° increments
- High pressure ventilation
- High volume
- Lubricated fittings provided, with relief
- Internal baffle assures uniform air distribution for cooler operating temperatures
- Ball bearings, locked shaft end-mount in any position
- High efficiency design, torques exceed NEMA standards
- Copper windings
- CSA approved
- 1.15 service factor



ELECTRIC MOTOR PRICING

Horsepower	Phase	RPM	Enclosure	Frame	Weight	Part No.	Price
3	1	3450	TEFC	182T	74 lb	L3606T	1662.82
5	1	3450	TEFC	184T	88 lb	L3608T	2079.73
5	3	3450	TEFC	184T	70 lb	EM3613T	1582.85
7.5	3	1770	TEFC	213T	128 lb	EM3710T	1863.69
10	3	3490	TEFC	215T	120 lb	EM3711T	2481.21

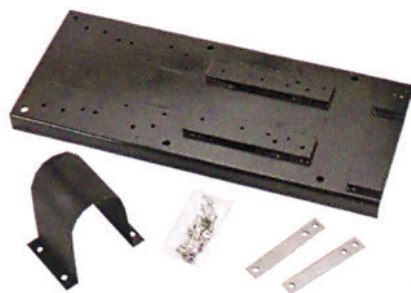
TEFC – Totally enclosed fan cooled.

XP – Explosion Proof. Class I Group D-Propane, Natural Gas.

T – Frame motors bolt on a standard baseplate assembly without any drilling.

The pricing on this page is for Baldor Electric Motors.

Independent Ag Equipment reserves the right to substitute an equal or better replacement depending on availability.



UNIVERSAL BASE PLATE ASSEMBLY

Description	Part No.	Price
Base Plate Assembly	18700	450.70

Complete with bolts, washer, shims and coupling guard

Recommended Frame Sizes for Electric Motors

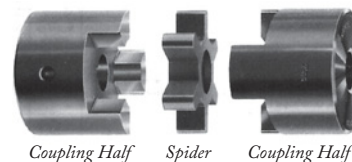
hp	Phase	Frame	Shaft Dia.
*2	Single	56	5/8"
*2	Three	56	5/8"
3	Single	182T	1-1/8"
3	Three	56	5/8"
5	Single	184T	1-1/8"
5	Three	184T	1-1/8"
7.5	Three	184T	1-1/8"

(Recommended RPM 3450)

*(Recommended RPM 1750 for 2 hp Units)

LOVEJOY COUPLING COMPONENTS

- Easy inspection of load carrying Spider
- Flexibility of angular or parallel misalignment of shafts by Buna-N Spider member permits smooth "Power Transmission"
- No lubrication
- Easy installation
- No metal to metal contact
- Resistant to oil, dirt, sand, moisture, grease



LOVEJOY COUPLING HALF ONLY

Description	Part No.	Price
5/8" Coupling Half	L095-5/8	33.55
3/4" Coupling Half	L095-3/4	33.55
7/8" Coupling Half	L095-7/8	33.55
1" Coupling Half	L095-1	33.55
1-1/8" Coupling Half	L095-1 1/8	33.55
1" Coupling Half	L100-1	76.45
1-3/8" Coupling Half	L100-1 3/8	76.45

REPLACEMENT SPIDER

Description	Part No.	Price
Spider - ML095 up to 1-1/8" BUNA	L095-S	17.21
Spider - ML099 up to 1-3/8" BUNA	L100-S	36.18
Spider - ML110 up to 1-5/8" BUNA	L110-S	39.18
Spider - ML150 up to 1-7/8" BUNA	L150-S	56.33
Spider 1" Hytrel	L090/095-HY	69.39

FERTILIZER METERS

PROCES-DATA MAG METER

A very accurate, low maintenance meter for multiple products. All wetted parts are stainless steel and have no moving parts, making them less susceptible to wear and higher repair costs.

PROCES-DATA meters are available with a variety of options from standard digital register head to automatic programmable controller with ticket printing options, including five product presets.

- 1": 3.5 - 35 GPM
- 1-½": 8 - 88 GPM
- 2": 17 - 176 GPM
- 2-½": 35 - 350 GPM
- 3": 52 - 528 GPM



Five product preset with programmable controller and air purge option.



Single Product Preset Control



HOFFER FLOW TECHNOLOGIES STAR SERIES METERS

The battery operated digital register head, works with a full range of flow applications, including starter fertilizer, nitrogen, and other clear liquids.

- System accuracy of 1% or better
- 316 SS body
- Flow ranges from .35 - 650 GPM
- Water tight register
- Displays rate, total, and accumulated total
- Can be used in conjunction with a programmable controller, or custom designed preset boxes
- Flow meter and register are sold separately.

- ½": 1.25 - 9.5 US GPM
- 1": 4 - 60 US GPM
- 2": 15 - 225 US GPM
- 3": 40 - 650 US GPM



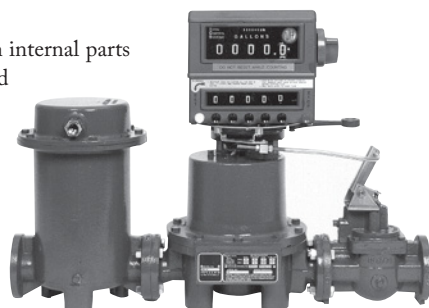
BULK CHEMICAL METERS

TOTAL CONTROL SYSTEMS

600 AF SERIES POSITIVE DISPLACEMENT METER

The 682 Total Control System is a 1-½ inch positive displacement meter designed to provide the most accurate measurement of liquid between 0 to 40 GPM. The 682, approved for resale use, is ideally suited for use with chemicals, acids, fertilizer, molasses, petroleum and other commercial products.

- Cast iron housings
- Stainless steel and iron internal parts
- Teflon gaskets standard
- Standard measurements in U.S. gallons, quarts, liters, imperial gallons, pounds or any other volumetric units are options



Description	Part No.
Meter & register	TSC682AF-2
Meter, register & ticket printer	TSC682AF-3
Meter, register & air eliminator	TSC682AF-4
Meter, register, air eliminator & printer	TSC682AF-6
Meter, register, preset & valve	TSC682AF-8
Meter, register, preset & valve & printer	TSC682AF-9
Meter w/ Schlumberger 600 Series register	TSC682AF-2S

STEALTH OVAL GEAR METERS

Accurate, positive displacement meters for bulk transfer applications. Two precision machined gears rotate in a close-tolerance measuring chamber providing accuracy for measuring both high and low viscosity, clear fluids. Only two moving parts ensure the Stealth Oval Gear Meter is economical to own, service and operate.

Stainless steel meters provide superior chemical compatibility and long life. These meters feature a rugged Electronic Large Numeral Counter (ELNC) mounted to the meter in a NEMA-4 weatherproof case, so they can be used in-plant, on the delivery truck, or at outdoor facilities. Provides both resettable batch totals and non-resettable "life" totalizer. A Veeder-Root Mechanical Counter is available as an option.



Description	Part No.
1" stainless steel meter	SS10DF04A
1-½" stainless steel meter	SS15CF04A
2" stainless steel meter	SS20CF04A

SOTERA METERS

BASIC METER

- Glass-filled polypropylene construction
- Digital LCD display
- 1" inlets and outlets
- 180° inlet and outlet

Part No. 825Price: \$407.03



BASIC METER

- Corrosion-resistant glass-filled polypropylene body
- Digital LCD display
- Two 1" inlet/outlet ports, female threads
- Can distinguish between fluid and air
- 180° inlet and outlet
- 2 - 20 U.S. GPM flow range
- 120 PSI of pressure @ 70°F
- Powered by 2 AA batteries

Part No. 850Price: \$521.58



This upgrade of Model 825 comes with air sensing feature!

SCIENCO METERS

POLY METER

Scienco SEM-10 poly meter 1 inch inlet and outlet 2-30 GPM, + or - .5% accuracy Resettable display, and built in totalizer.

- Simple, one-touch operation
- Choice of three calibration procedures
- Extended battery life
- Large, positive touch buttons

Part No. SEM-10.....Price: \$460.61

Flow through meter.

Part No. SEM-10FTPrice: \$460.61



STAINLESS STEEL METER

Scienco SEM-10SS electric flow meters can meter liquids of various viscosities with an accuracy of 0.5% and a minimum loss of pressure. Stainless steel fluid housing and form cover is extremely corrosion resistant and durable. 1 inch rear mounting port allows meter to be mounted directly to the pump discharge.

Part No. SEM-10SSPrice: \$710.61



FILL-RITE® METERS

3-WHEEL MECHANICAL METER

The 807CMK 3-wheel mechanical flow meter is designed for transfer pumps with a flow rate of 5 to 20 GPM

- ± 1% accuracy
- UL/cUL, CE listed, 5-20 GPM
- 50 PSI pressure
- ¾" inlet and outlet NPT threads
- Rated for gasoline, diesel, kerosene, mineral spirits, stoddard solvents and neptane

Part No. 807CMKPrice: \$437.73



IN-LINE DIGITAL METER

The FR1118A10 is ideal for metering the transfer of diesel fuel and kerosene. It can be installed in line or at the end of the hose.

- ± 1% accuracy
- Flow rate: 2-25 GPM
- Maximum pressure: 50 PSI
- 1" inlet/outlet
- Five-digit readout with resettable totalizer
- Turbine measuring system
- Made out of anodized aluminum
- Measures in: gallons, quarts, liters and pints
- Reduces down from a 1" inlet/outlet to a ¾" using a reducer bushing
- **Do Not Use** with gasoline, water, Diesel Exhaust Fluid (DEF), or chemical fluids

Part No. FR1118A10Price: \$180.88



DIGITAL METER

The battery operated 900DB, Digital Flow Meter has easy to read 4 digit LCD counter display. It's powder coated housing is weather and fuel resistant for durability. The DB digital meter can be mounted to most standard pumps.

- ± 1.25 % accuracy
- 6-40 GPM
- 50 PSI pressure
- 1" inlet and outlet NPT threads
- Measures in gallons, quarts, pints, ounces, liters, user defined units
- Rated for gasoline, E15, biodiesel, diesel, kerosene, standard solvents and heptane's
- Seven digit resettable and non resettable totalizer
- Memory backup in case of power failure
- Operating temperature -40° to 180°F

Part No. 900DBPrice: 746.24



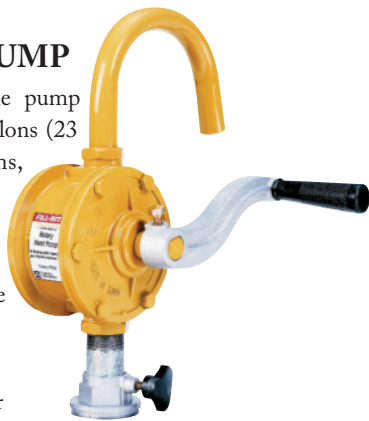
FILL-RITE HEAVY DUTY HAND PUMPS

ROTARY HAND PUMP

This easy to use rotary vane pump delivers approximately 7.5 gallons (23 liters) per 100 revolutions, dependably and quickly.

Smoothly pumps medium viscosity oils, diesel fuel, non-corrosive fluids, E15, kerosene and B20.

- One year warranty
- 2" NPT threaded tank adapter
- 7.5 gal. per 100 revolutions



Part No. SD62Price: \$108.88

HEAVY DUTY PISTON HAND PUMP

This compact, high flow, dual-action design delivers up to 20 GPM (76 LPM) per 100 strokes. Lightweight and portable, with a variety of options, these pumps meet a full range of applications. Ideal for gasoline, diesel fuel, hydraulic oil, and non-corrosive petroleum-based fluids.

- Two year warranty
- Aluminum body with stainless steel liner
- Flow rate: 20 gal. (76 L) per 100 strokes
- 2" NPT threaded tank adapter
- 1" NPT inlet, 3/4" outlet tube
- UL approvals
- External anti-siphoning valve
- Check valve and strainer
- Pump can be set up for reverse flow
- Adaptable for drums, kegs and storage tanks
- Telescoping suction pipe extends from 22 - 40" (56 cm to 102 cm)

Options:

- Series 800C flow meter
- Gooseneck spout and pail hook
- 8' hose and nozzle

Part No. FR152Price: \$373.88



FILL-RITE HIGH FLOW PUMPS & NOZZLES

FR3200 HIGH-FLOW PUMP

The FR3200 makes you mobile for all your application needs. The FR3200 Series Pump delivers up to 25 gallons per minute, the FR3200 can fill a 500-gallon tank in just 20

minutes. That means less downtime, greater productivity, and more reward for your hard work. And it's built strong to provide long-lasting reliability in the most demanding off-road environments.

- 12V DC, 1/2 hp, thermally protected motor
- 30-minute duty cycle
- Heavy-duty cast-iron construction
- Self-priming, up to 12' of lift
- Theft-deterrent lockable nozzle
- 2" NPT tank adapter
- 20', 10-gauge battery cable included
- Diesel, gasoline, kerosene, E15, and BD up to B20



FR3204: Pump only
Part No. FR3204Price: \$1,470.48

FR3210B: Pump, ultra-high-flow nozzle, 18' hose and connecting elbow. Part No. FR3210B (Fuel).....Price: \$1,746.06

ULTRA HI-FLOW NOZZLE

For transfer of gasoline, diesel, or kerosene to large fuel capacity farm, fleet, or construction equipment.

- Angled inlet places the hose in a more natural downward position
- Trigger provides variable flow rates and features three locking positions
- Integral hook and spout spring
- Revised, high efficiency internal seal technology lets you tame or unleash the flow while delivering maximum flow with as little as 10 PSI
- Automatic shutoff
- UL listed



Part No. N100DAU13 (red handle)Price: \$282.73

Part No. N100DAU13G (yellow handle)Price: \$282.73

Part No. N100DAU13Y (green handle)Price: \$282.73

FILL-RITE HEAVY DUTY PUMPS

DC 12V ROTARY VANE PUMP

This industry standard DC pump dispenses up to 15 GPM (56.8 L/min.)



- Explosion-proof UL/cUL listed ¼ hp motor
- Bronze rotor vanes
- Built-in strainer
- 12' (3.7 m) hose with static ground wire
- Manual nozzle
- 2" base for tank openings
- Telescoping steel suction pipe from 22 – 40" (56 to 102 cm)
- Compatible with diesel, gasoline, kerosene, E15 and biodiesel up to B20

Options:

- Series 800/880 meter in gallons/liters
- Automatic nozzle

Part No. FR1210G (Fuel)Price: \$801.79

Part No. FR1210GA1 (Diesel)Price: \$898.00

AC 115V ROTARY VANE PUMP

Safely transfers diesel fuel, gasoline, kerosene, mineral spirits, E15 and biodiesel up to B20.

- One year warranty
- ¾" x 12' hose and manual nozzle
- Cast iron pump body construction
- Maximum flow rate: 13 GPM (49 LPM) (with factory provided hose and nozzle)
- Bronze rotor and vanes
- ¼ hp explosion-proof motor
- Thermal overload protection
- 1" inlet
- ¾" NPT outlet
- Built-in strainer
- UL/cUL listed pump and motor



Options:

- Automatic nozzle
- Series 800 flow meter in gallons/liters
- Particulate (gas) and hydrosorb (diesel) filter kits

Part No. SD602GPrice: \$785.10

115V AC UTILITY VANE PUMP

These rugged, positive displacement, economy pumps are UL listed and deliver flow rates up to 20 GPM (75.7 L/min.)



- Explosion-proof, UL listed ½ hp motor (115V AC-60 Hz)
- Carbon Rotor Vanes and ceramic/carbon seal reduce wear & repair expense
- Easily removable strainer assembly
- Automatic bypass valve
- 2" base for tank openings

Options:

- Explosion-proof UL listed ½ hp motor (220/240V AC- 50/60Hz)
- Series 800/880 meter in gallons/liters
- Automatic nozzle

Part No. FR701V (Fuel).....Price: \$1,587.30

DC ROTARY VANE PUMP

Safely transfers diesel fuel, gasoline, kerosene, mineral spirits, E15 and biodiesel up to B20.

- One year warranty
- ¾" x 10' hose and manual nozzle
- Cast iron pump body construction
- Maximum flow rate: 13 GPM (49 LPM) (with factory provided hose and nozzle)
- Bronze rotor and vanes
- ¼ hp explosion-proof motor
- Thermal overload protection
- 1" inlet
- ¾" NPT outlet
- 2" NPT threaded tank adapter
- Built-in strainer
- UL/cUL motor approvals (motor only)



Options:

- Automatic nozzle
- Series 800 flow meter in gallons/liters
- Particulate (gas) and hydrosorb (diesel) filter kits

Part No. SD1202G.....Price: \$677.55

FLOWSERVE PUMPS

PH6 PANTHER DIAPHRAGM TRANSFER PUMP

The PH6 Panther diaphragm pump is a versatile, transfer pump engineered for use with low and high viscosity fluids. The standard for many ag-chem mini-bulk systems, the PH6 pump is chemically resistant, easily portable and highly reliable.

- Chemically resistant nylon construction; polypropylene available
- Vertical or horizontal container top mount
- Removable cartridge containing diaphragm, valves and bypass assembly
- Multiple pump-chamber design for increased dependability
- EPDM seals standard; Viton seals optional
- SEM-10 flow meters available
- Discharge hose available
- Ball valve and spout available
- Wetted materials of construction: Glass-filled Nylon, Glass-filled polypropylene, Polyphenylene sulfide (PPS), stainless steel, Viton elastomer and Santoprene diaphragm
- 5-year service program on most systems

Operating Parameters:

- Flows to 10 GPM (38 l/m) at 60°F (16°C)
- Pressures to 25 PSI (1.7 bar)
- Temperatures to 130°F (55°C)
- 12V battery operated motor with 20' (6.1 m) cable; 110V motor optional

Part No. CES-PH6-13



PH6 MOTOR ONLY

Battery operated electric motor assembly for the PH6 pump.

- 12V motor with 20' (6.1 m) cable
- Polypropylene motor housing
- Wobble plate assembly
- On/off toggle switch
- 5-year service program

Part No. PH6M01



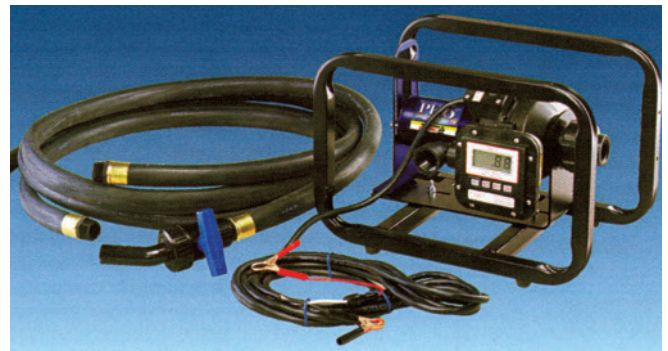
PH6 PANTHER DIAPHRAGM PUMP SYSTEM

The horizontally mounted, configuration allows users to attach the pumping system on top of a container.

Includes:

- PH6 pump
- SEM-10 or SEM-30 electronic flow meters
- 1" x 12' 2-band, 4-ply EPDM discharge hose
- 1" suction port is adaptable to most container fittings such as the clean-lock and micromatic coupling system or a camlock fitting
- Available with a 9" gem cap

Part No. CES-PH6



PH6 SHUTTLE PUMP SYSTEM WITH CADDY

This PH6 configuration was designed for maximum flexibility, portability, and ease in handling for the user of multiple containers.

Includes:

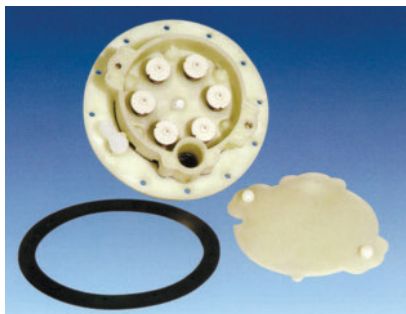
- PH6 pump
- SEM-10 or SEM-30 electronic flow meter
- 1" x 12' 2-braid, 4-ply EPDM suction hose all mounted in a tubular stand
- 1" suction port is adaptable to most container fittings such as the clean-lock and micromatic coupling system of camlock fitting

Part No. CADDY-PH6

FLOWERVE PUMPS & ACCESSORIES

DD6 SELF-PRIMING DIAPHRAGM PUMP

The DD6 diaphragm pump mounts directly into the mini-bulk container. The DD6 will pump low to high viscosity liquids with an internal recirculating feature for agitation capabilities. The discharge port configuration features a check valve to prevent chemical container leakage as the motor discharge hose is designed to break away in the event of an accident. This pump includes a vent, rain cover, mounting hardware, and gasket. The flow rate is 7 – 9 U.S. GPM. and dip tubes are not included.



Motor Part No. DD6 Pump/CKVLVPrice: \$562.21

DRIVE UNIT PACKAGE

Designed to fit the DD6 pump.

- 12V motor w/ 20' cable
- EPDM discharge hose
- Ball valve and spout
- Aluminum discharge elbow
- Aluminum quick coupler



Part No. Drive Unit PKG-10
Includes SEM-10 flow meterPrice: \$1,705.24

Part No. Drive Unit PKG-10FT
Includes SEM-10FT flow meterPrice: \$1,705.24

Part No. Drive Unit PKG-10SS
Includes SEM-10SS flow meterPrice: \$1,891.61

DD6 MOTOR

12V motor for the DD6 pump.

- 12V motor w/ 20' cable
- Motor speeds up to 2600 rpm
- Operating current: 12–16 amps
- 110V motor optional



Part No. DD6 MotorPrice: \$674.03

ACCESSORIES

ELBOW KITS

Not threaded

Part No. KD-23-ACPrice: \$185.73



Threaded

Part No. KD-23-01Price: \$169.70



EPDM HOSE

1" x 12'

Part No. EP-58-09Price: \$86.76



BATTERY CLIPS

Repair kit for the PH6 power cable

Part No. EP-80RPrice: \$12.76



ADJUSTABLE DIP TUBE

Description	Part No.	Price
Adjusts from 26.5 - 47", EPDM O-ring	XTUBE-E	40.45
Adjusts from 26.5 - 47", Viton O-ring	XTUBE-V	71.85



THREADED ADJUSTABLE DIP TUBE

Description	Part No.	Price
Adjusts from 26.5 - 47", EPDM O-ring	XTUBE-TE	40.45
Adjusts from 26.5 - 47", Viton O-ring	XTUBE-TV	44.24

SOTERA SYSTEMS MINI-BULK PUMPING SYSTEMS

SERIES 400B DUAL DIAPHRAGM PUMP

The Sotera Basic 400B pump can adapt to a variety of applications that require 15 GPM in lieu of existing 6-8 GPM pumps. This model has the capabilities of pumping brine solutions, corrosive chemicals, motor oils, hydraulic oils, antifreeze, and thick materials. Especially suited for Glyphosate and other chemicals that thicken.

Kit includes: pump, suction hose, discharge hose, battery cable and clamps (DC only), hose clamps, camlock, 7 dip tube



Description	Part No.	Price
12V DC, Pump-N-Go	SS415BX731PG	1390.88
12V, pump only*	SS415BX731	1104.52
115V, pump only AC	SS460BX731	1104.52
115V AC, santoprene diaphragm, Pump-N-Go, & all items needed to pump from a tote or drum	SS460BX731PG	1390.88

SS415B BASIC 12V PUMP

- Santoprene™ diaphragm
- 2' battery cable
- 2" NPT bung adapter



Part No. SS415BPrice: \$1,231.33

SS420B BASIC 12V PUMP

- Santoprene™ diaphragm
- 1" x 12' EPDM hose
- Ball valve nozzle & nozzle boot
- Polypropylene suction pipe
- 20' battery cable
- 2" NPT bung adapter



Part No. SS420BPrice: \$1,417.48

SS445B BASIC 12V PUMP

- Santoprene diaphragm
- 1" x 12" EPDM hose
- Ball valve nozzle
- 20' battery cable
- 825 digital meter
- Liquid recirculation
- GEM cap tank mounting



Part No. SS445Price: \$1,863.36

CHEMTRAVELLER™

- Basic Pump with:
- Santoprene™ diaphragm
 - 1" x 12' EPDM discharge hose
 - 1" x 9' EPDM suction hose
 - Ball valve nozzle
 - 12V DC
 - 20' battery cable and clips
 - 825 digital meter
 - Low profile tubular frame



Part No. SS435Price: \$2,288.82

HAND PUMPS—VOLUMETRIC QUART STROKE PUMP

PACER HAND DISPENSING PUMP

Pacer's HP Series Hand Dispensing pump is a double-acting piston type to handle a wide range of solutions. The pump body, valves, valve seats, and piston are all made of chemically resistant, performance engineered plastics, compounded to give the pump strength and rigidity. All internal metal parts in contact with liquid are made of stainless steel. The O-ring and gasket materials are cork-nitrile, Viton, or EPDM.

- Viscosities up to 2000 SSU
- Controlled discharge rate
- Tamper proof handle
- Suction lift: tested for 15' minimum
- Discharge head: up to 25'
- Self-lubricating Teflon® Piston Ring: operates wet or dry for long life
- Barrel Bung Adapter: 2" NPT, 2" buttress in polypropylene optional
- 1" NPT suction, 3/4" NPT discharge
- 1 year warranty



Description	Part No.	Price
Hand pump	P-59-0002 1A	247.25
Repair Kit	P-58-0167-P	71.09
Buttress fitting	P-58-0031P	41.73





FLOWERVE DRUM PUMP

- Excellent for chemicals, oils, lubricants and a wide range of fluids
- High volume delivery at low pressure makes pumping chemical safer.
 - Double action means you get delivery on both the up and down stroke
 - No wearing parts
 - Anti-pumping/safety device
 - 2 drum attachment fittings per pump
 - 2 year warranty
 - Outlet spout swivels, no drips
 - Extender hose can attach to outlet spout



Description	Part No.	Price
Fits 15 & 30 gallon	HP-30	170.36
Fits 30 & 55 gallon	HP-55	170.36

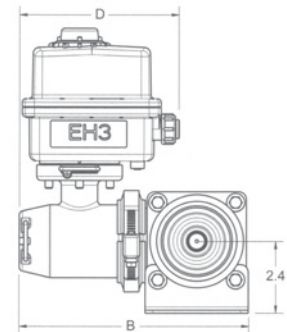
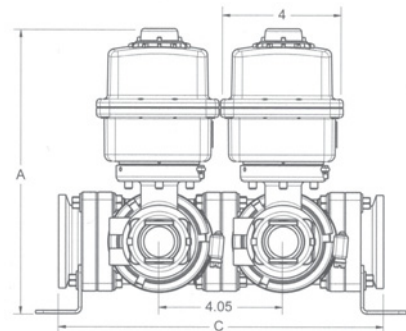
Note: It is not recommended that the Drum Pump be used in solvents, gasoline or flammable liquids

- 
 Anti-drip nozzle spout for Banjo® nozzles.
 Part No. 400KTF0236Price: \$29.55
- 
 Anti-drip nozzle spout for Norwesco® nozzles.
 Part No. 40KTF0237Price: \$60.36
- 
 2" Drum faucet.
 Part No. 400F6783Price: \$73.06
- 
 3/4" Drum faucet.
 Part No. 67244Price: \$20.09

2-WAY, FULL-PORT MODULAR VALVE MANIFOLD

The KZ Valve QX Series Modular Valve Manifolds are assembled with ball valves that are engineered for actuation and designed to work with KZ Valve actuators.

- 1" full port valves
- 2 - 9 valves on the manifold
- 316 stainless steel ball and stem
- Polypropylene valve/manifold body
- Virgin PTFE valve seat
- Dual Viton O-ring stem seal
- EPDM body seal
- Available with FNPT outlet
- UV-modified, glass-filled nylon housing is drapable, impact resistant, provides long life and lower maintenance costs
- Waterproof actuator housing is rated NEMA 6P protect internal components from corrosion and extends actuator life
- Actuator housing is ignition safe (rated NEMA 7D and meets the USCG Electrical Systems Standard) to support user and environmental protection



1 IN. POLYPROPYLENE BALL VALVE MANIFOLD

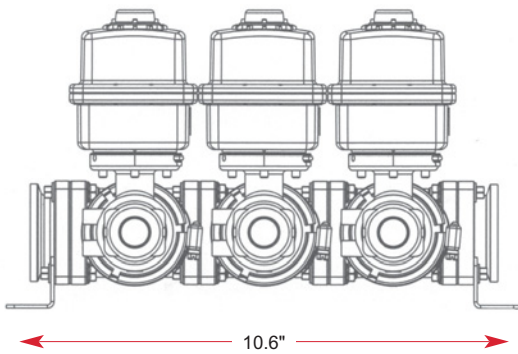
2-way, full port stainless steel ball, FNPT, ball valve manifold, 12 volt DC motor. Maximum PSI: 150 PSI at 70° F (polypropylene).

Note: add 4.3 lb. per each additional section and 4.05 inches per each additional section

Part No.	Size	Valves	Control	Cycle Time	A	B	C	D
KZ1SFM	1"	1	On/Off	0.8 sec.	9.4"	7.5"	6.55"	5.2"
KZ2SFM	1"	2	On/Off	0.8 sec.	9.4"	7.5"	10.60"	5.2"
KZ3SFM	1"	3	On/Off	0.8 sec.	9.4"	7.5"	14.65"	5.2"
KZ4SFM	1"	4	On/Off	0.8 sec.	9.4"	7.5"	18.70"	5.2"
KZ5SFM	1"	5	On/Off	0.8 sec.	9.4"	7.5"	11.75"	5.2"

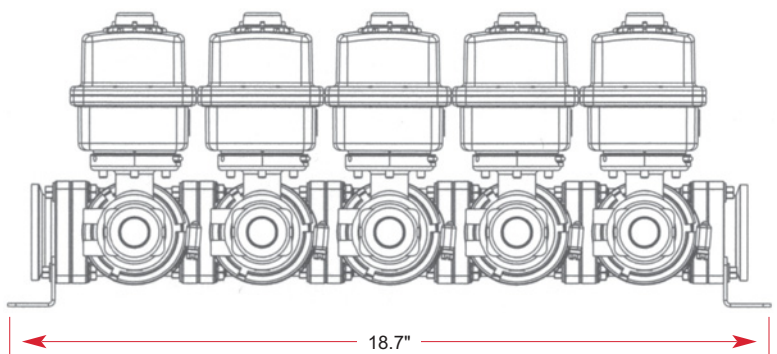
KZ3SFM

3 stack manifold with 1" full port valves.



KZ5SFM

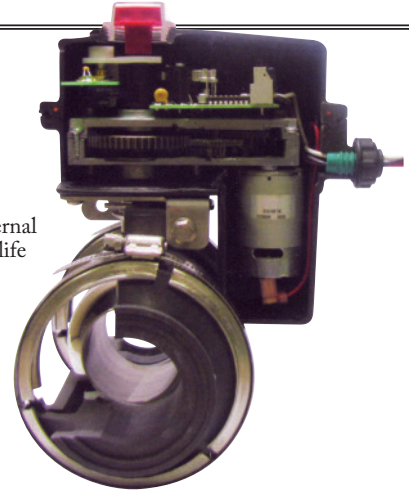
5 stack manifold with 1" full port valves.



ELECTRIC MOTORIZED VALVES

KZ Valve actuated valves are field tested to prove they are waterproof and durable, and to ensure maintenance free performance and long operating life.

- Waterproof actuator housing is rated NEMA 6P protect internal components from corrosion and extends actuator life
- Two year limited warranty
- Constructed with solid state components for increased durability and maintenance-free performance
- Custom products built for your system
- Valves engineered for actuation, internal components provide long operating life and superior performance
- CAN and ISOBUS control of individual electric valves give you flexible and reliable valve control



EH2 ACTUATOR

- Valve Sizes: ¼ - 3"
- 12/24V DC and 24V AC
- Weight: 4 lb

Cycle Time	Maximum Breakaway Torque	Maximum Operating Torque
0.5 sec.	168" lb.	120" lb.
1.5 sec.*	308" lb.	220" lb.
3.0 sec.	308" lb.	220" lb.
7.0 sec.	308" lb.	220" lb.

*Standard line cycle times

EH3 ACTUATOR

- Valve Sizes: ¼ - 1"
- 12/24V DC and 24V AC
- Weight: 2 lb

Cycle Time	Maximum Breakaway Torque	Maximum Operating Torque
.08 sec.	105" lb.	75" lb.
1.5 sec.*	75" lb.	55" lb.
2.5 sec.	56" lb.	40" lb.
7.0 sec.	56" lb.	40" lb.

*Standard line cycle times

EH5 ACTUATOR

- Valve Sizes: 1-½ - 4"
- 12/24V DC and 24V AC
- Weight: 6 lb

Cycle Time	Maximum Breakaway Torque	Maximum Operating Torque
3.0 sec.	550" lb.	350" lb.
1.5 sec.*	550" lb.	350" lb.
3.0 sec.	550" lb.	350" lb.
7.0 sec.	550" lb.	350" lb.

*Standard line cycle times

HI/TORQUE CONTROLLED VALVES



99 SERIES

¼ - 3 in. Full Port Poly Pro valves with #60 Monitor Special Wiring, ½ Second Motors *Y = 1-½ Second Motor

Description	PSI	Part No.	Price
1"	150	F2F33-000-60B-N	553.33
1-½"	125	F2H22-IADY0-P01	832.58
2"	125	F2I22-IADY0-P01	972.18
3"	100	99K22-IADY0-P01	1365.21

88 SERIES

¼ - 2 in. Standard Port Stainless Valves with #60 Monitor Special Wiring, ½ Second Motors



Description	PSI	Part No.	Price
¼"	2000	880E33-IAD20-P01	695.00
1"	2000	88F22-000-60B-Y	832.58

POWER HEAD ONLY

Description	Number	Part No.	Price
Power Head Only	60	000-60B-Y	517.12

Description	Part No.	Price
Electric Butterfly Valve 2"	50667	1548.67



ELECTRIC BYPASS VALVES

These boom shutoff valves are designed to provide bypass control and maintain a constant system pressure through the use of an orifice in the bypass line. The orifice should be equal in size to the volume of the nozzles on the boom section. The inlet is ¼ inch and outlets are ½ inch.

144A - flows to 8 GPM and pressures to 65 PSI; EPDM seat washers and diaphragms.

144P - flows to 8 GPM and pressures to 65 PSI; also features stainless steel, corrosion resistant armature as well as a heavier duty coil. The 144P requires no armature adjustment. Seat washers and diaphragms are Viton.



Part No. AA144A-1-3Price: \$234.10



Part No. AA144P-1-3Price: \$283.44

SIMPSON FOAM MARKER VALVE

Part No.	Price
AA144F-1-3	192.75

MODEL AA 144A-1-3 - REPAIR KIT

Part No.	Price
PK-AB144A-1-3-KIT	35.45
PK-AB144A-1-3VI	50.83

MODEL AA 144P-1-3 - REPAIR KIT

Part No.	Price
PK-AB144P-1-KIT	46.21

These boom shutoff valves operate on 12 volt DC and feature a large internal flow chamber without pilot hole to eliminate clogging. All wetted parts are stainless steel.

144A - flows to 10 GPM and pressures to 100 PSI; EPDM seat washers and diaphragms.

144P - flows to 10 GPM and pressures to 100 PSI; also features stainless steel, corrosion resistant armature as well as a heavier duty coil. The 144P requires no armature adjustment. Seat washers and diaphragms are Viton.

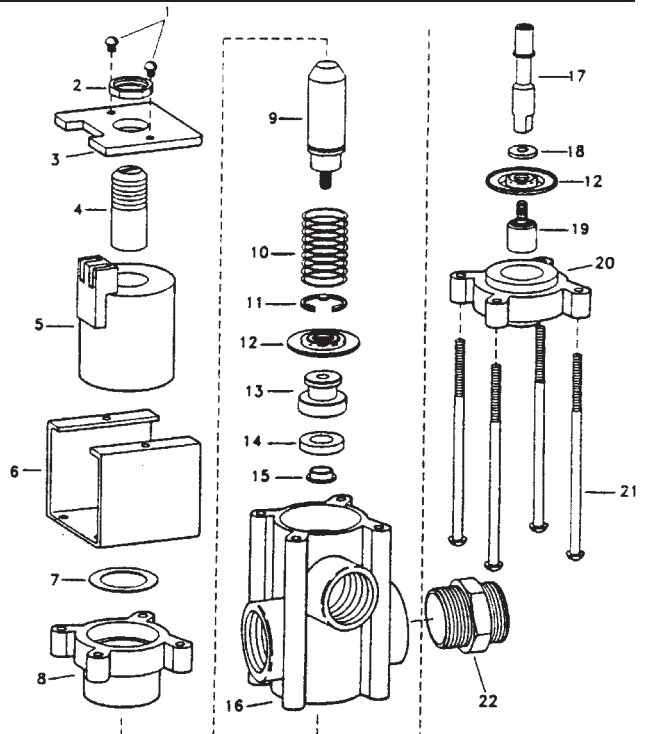
145H - flows to 15 GPM and pressures to 100 PSI.

MODEL 144A REPAIR PARTS

Ref. No.	Part No.	Description	Price
1	CP14933-SS	Screw, SS	1.72
2	CP15168-IENP	Jam Nut	5.77
3	CP15166-I	Coil Cover	5.04
4	CP15161-IENP	Armature Stop	12.32
5	CP15163-NYB	Coil Assembly	56.94
6	CP14927-3-I	Strap Sub Assembly	9.38
7	CP15169-SS	Washer, SS	2.21
8	CP15164-NYB	Upper Diaphragm Housing	6.00
9	CP15170-IENP	Armature	22.72
10	CP15167-302SS	Spring	6.02
11	CP14813-1-IENP	Retaining Ring	2.21
12	CP36101-EPR	Diaphragm, EPDM	8.05
13	CP14807-SS	Seat Retainer	18.40
14	CP14802-EPR	Seat Washer	6.22
15	CP14811-SS	Spacer, SS	5.29
16	CP14801-PP	Body, Polypropylene	16.33
17	CP14812-SS	Stem, SS	20.80
18	CP14806-SS	Washer, SS	6.06
19	CP15162-SS	Lower Diaphragm Piston SS	11.57
20	CP15165-NYB	Lower Diaphragm Housing	22.42
21	CP14819-SS	Screw, SS	2.02
22	CP21737-NYB	Connecting Nipple	5.20



MODEL 144A REPAIR PARTS DIAGRAM

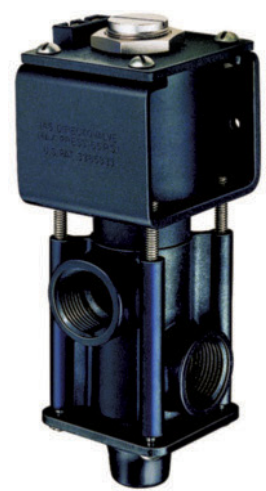


Part No.	Size	Price	Repair Kit. No.	Price
AA144A-1	¼" x ½"	172.04	PK-AB144A-1-KIT	30.89
			PK-AB144A-1-VI	46.21

MODEL 145 REPAIR PARTS

Ref. No.	Part No.	Description	Price
1	CP7698-SS	Screw, SS	2.02
2	CP18602-IENP	Jam Nut	13.50
3	CP18603-1-I	Coil Cover	15.13
4	CP18618-IENP	Armature Stop	39.57
5	CP18606-IENP	Armature	62.08
6	CP18605-NYB	Coil Assembly	120.72
7	CP18607-NYB	Upper Diaphragm Housing	39.22
8	CP18621-EPR	Diaphragm, EPDM	13.00
9	CP18610-SS	Seat Retainer	21.95
10	CP18611-EPR	Seat Washer	12.06
11	CP18612-SS	Spacer, SS	4.51
12	CP18613-SS	Stem, SS	21.78
14	CP18601-1-NYB	Body, Nylon 145—1"	26.40
15	CP18609-SS	Washer, SS	6.62
16	CP18614-NYB	Lower Diaphragm Housing	40.43
17	CP18617-SS	Lower Diaphragm Piston	16.02
18	CP18620-304SS	Spring Retainer	8.21
19	CP18622-EPR	Boot, EPDM	10.67
20	CP18619-SS	Screw, SS	5.76

Part No.	Size	Price	Repair Kit. No.	Price
AA145H-1	1" x 1"	393.90	PK-AB145H-KIT	55.65



MODEL 145 REPAIR PARTS DIAGRAM



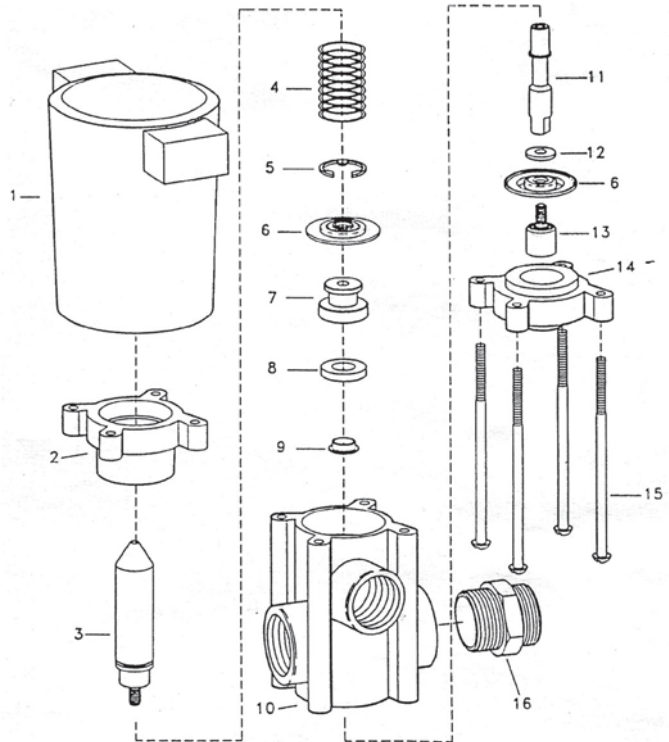
MODEL 144P REPAIR PARTS

Ref. No.	Part No.	Description	Price
1	CP45632	Coil Assembly, Nylon Encapsulated (BK) & Alum.	156.96
2	CP15164-NYB	Upper diaphragm housing Nylon, glass filled (black)	6.00
3	CP45634-430FRS	Armature, Type 430FR SS	39.58
4	CP45637-302SS	Spring, Type 302 SS	6.02
5	CP14813-1-IENP	Retaining Ring, Steel, Electroless Nickel Plated	2.21
6	CP36101-VI	Diaphragm, Viton Rubber 2	18.17
7	CP14807-SS	Seat washer retainer, SS	18.40
8	CP14802-VI	Seat washer, Viton rubber	21.90
9	CP14811-SS	Spacer, SS	5.29
10	CP14801-PP	Body, Polypropylene (black)	16.33
11	CP14812-SS	Stem, SS	20.80
12	CP14806-SS	Washer, SS	6.06
13	CP15162-SS	Lower Diaphragm Piston SS	11.57
14	CP15165-NYB	Lower Diaphragm Housing Glass filled nylon (black)	22.42
15	CP14819-SS	Screw, SS	2.02
16	CP21737-NYB	Connecting nipple, nylon (black) Use only for multiple units	5.20

Part No.	Size	Price	Repair Kit. No.	Price
AA144P-1	¼" x ½"	237.09	PK-AB144P-1-KIT	46.21



MODEL 144P REPAIR PARTS DIAGRAM



MODEL 6815 RELIEF VALVES

Piston type available in brass or aluminum with stainless steel springs. Adjustable to maintain control of line pressure by bypassing excess liquid.

Part No.	Size	Pressure	Price
6815-1/2-300	1/2"	up to 300	81.63
6815-3/4-300	3/4"	up to 300	81.63
6815-3/4-700	3/4"	300 to 700	81.63



MODEL 8460 RELIEF VALVE

Diaphragm type nylon inlet body with aluminum bonnet. Choice of 1/2 or 3/4 inch connections. For pressures up to 300 PSI.

Part No.	Size	Price
8460-1/2	1/2"	70.33
8460-3/4	3/4"	70.33

REPAIR KIT INCLUDES STEM SEAL, SPRINGS, AND DIAPHRAGM.

Part No.	Price
PK-AB8460-KIT	25.38



MODEL 110 RELIEF VALVES

The 110 piston type regulating valves are available in sizes 1/4, 3/8, 1, 1-1/4 or 1-1/2 inch in choice of ductile iron, brass or aluminum. Removable bonnet for servicing unit without removing valve from line.

Part No.	Size	Pressure	Material	Price
AA110-3/8-300	3/8"	up to 300	Brass	61.45
AA110-3/8-700	3/8"	300 to 700	Brass	61.45
AA110-1	1"	up to 150	Brass	271.92
AA110-1-1/2	1-1/2"	up to 150	Brass	279.33

PRESSURE REGULATOR

All polypropylene/stainless steel pressure regulator handles pressures up to 150 PSI.

Part No.	Price
23120-1/2-PP	38.31
23120-3/4-PP	38.31



MODEL 12690 THROTTLING VALVE

For regulating flow in systems equipped with centrifugal pumps where sensitive regulation is required, or to control flow in agitation lines. Handles pressures up to 125 PSI.

Part No.	Size	Price
12690-1/2-NYB	1/2"	103.35
12690-3/4-NYB	3/4"	103.35



DIAPHRAGM CHECK VALVE

Made of nylon with Celcon bonnet. Opens at 7 PSI. Not for use with thick suspensions.

Part No.	Description	Price
12328-1/2-NYB	1/2"	96.34
12328-3/4-NYB	3/4"	96.34
CP12332-1/2-NYB	1/2" body only	23.92
CP12332-3/4-NYB	3/4" body only	23.92
CP12335-FA	Standard diaphragm	4.47
CP12335-VI	Viton diaphragm	10.64

THROTTLING VALVE

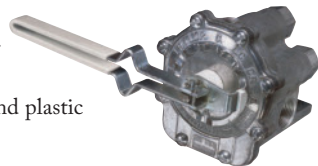
Polypropylene construction that handles pressures up to 150 PSI.

Part No.	Size	Price
23520-1/2-PP	1/2"	33.21
23520-3/4-PP	3/4"	33.21



TEEVALVE BOOM CONTROL

- Use to open any combination of three boom sections
- Aluminum with stainless steel and plastic internal parts
- 300 PSI maximum



Part No.	Inlet Size	Outlet Size	Bypass Size	GunJet Size	Price
AA17L	3/4"	3/4"	3/4"	3/4"	143.70
AA17Y	1"	3/4"	3/4"	3/4"	143.70

MODEL 6B SHUTOFF VALVE

- 12.5 GPM flow rate
- 150 PSI pressure rating
- Valves can be ganged together
- Mounting flange and 1/4" gauge port

Part No.	Price
AA6B	56.58



MODEL 356 BOOM SHUTOFF VALVE

- Flow rate: 1-1/4" full port provides 100 GPM @ 5 PSI pressure loss
- Maximum pressure rating: 150 PSI
- Response time: 0.6 sec. from time closed to fully open
- Materials: 316 stainless steel, polypropylene, Viton, carbon filled Teflon
- Permanently sealed, quick release motor head for manual operation
- Double wall gearbox with all metal gears; silicone encapsulated circuit board
- Inlet and outlet uses TeeJet flanges
- Trunnion ball design and carbon filled Teflon seal for longer wear life



Part No.	Size	Description	Price
356BEC-C	1" Flange	2-way shutoff	457.97
50515-25CP05		Motor only for 356 BEC-C	281.52
356BEC-CVX (Prowler)	2" Flange	2-way shutoff	474.16
50515-2 (Prowler)	—	Motor only	304.77

MODEL 344 BOOM SHUTOFF VALVE

- Flow rate: port provides 32 GPM @ 5 PSI pressure loss
- Maximum pressure rating: 300 PSI
- Available with 1/4" or 1" threaded inlet/outlet
- Response time: 0.6 sec. from time closed to fully open
- Available in 2-way or 3-way models
- 344BEC uses single pole on/off switch; 344BE uses double pole-double throw switch



Part No.	Size	Description	Price
344BEC-23-C	3/4"	2-way single pole switch	340.63
344BEC-24-C	1"	2-way single pole switch	340.63
50668	1"	2-way valve with GVM conn.	356.82
AE34212		Toggle switch for AA344BEC	21.20
344BE-23-C	3/4"	2-way-DPDT switch	340.63
344BE-24-C	1"	2-way-DPDT switch	340.63
344BE-33-C	3/4"	3-way-DPDT switch	416.88
344BE-34-C	1"	3-way-DPDT switch	416.88
AE34577		Toggle switch for AA344BE	23.57
50515-22CP05		Motor only for 344BEC Valves	288.55
50533-22C05		Motor only for 344BE Valves	288.55
50515-8		Motor only for 50668	304.82
CP50517-SSPV		U clip (attaches motor to value)	3.24

MODEL 244

- Butterfly valve
- 100 PSI maximum
- 28 GPM flow rate
- 20 sec. response



Part No.	Price
35-50049	171.30

MODEL 344BPR-2

- Low flow regulation
- 300 PSI maximum
- 12 GPM flow rate
- 26 sec. response



Part No.	Size	Price
344BPR-23-01C	3/4"	336.31
344BPR-24-01C	1"	336.31

MODEL 344BRL

- 300 PSI maximum
- 27 GPM flow rate
- 6 sec. response



Part No.	Size	Price
344BRL-23-03C	3/4"	350.08
344BRL-24-03C	1"	350.08

430 ELECTRIC BALL VALVE MANIFOLD

- Manifolds from 1 to 15 valves
- 12 GPM with 5 PSI pressure drop
- 215 PSI maximum pressure
- 0.6 sec. response time
- Wetted parts are SS, polypropylene, Viton and Teflon
- SS ball and stem
- Available in 2-way, 3-way metered bypass or flow back models

HOW TO ORDER 2-WAY:

58430-1-43_EC-2

- “_” insert number of valve sections
- Comes complete with 1-½" NPT inlets and cables
- Must order 45529 outlets separately (next page)

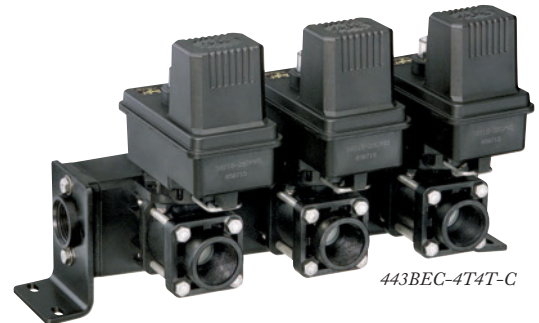


440 ELECTRIC BALL VALVE MANIFOLD

- Manifolds from 1 to 5 valves
- 26 GPM with 5 PSI pressure drop
- 300 PSI maximum pressure
- 0.7 sec. shutoff fully open to close
- Wetted parts are SS, polypropylene, Viton and Teflon
- Available in 2-way model

3 Sections 1" NPT
Part. No. 443BEC-4T4T-C

15 Sections 1" NPT
Part. No. 445BEC-4T4T-C



450 ELECTRIC BALL VALVE MANIFOLD

- Manifolds from 1 to 9 valves w/ flange fittings
- 32 GPM with 5 PSI pressure drop
- 200 PSI maximum pressure
- 0.7 sec. shutoff fully open to close
- Wetted parts are SS, polypropylene, Viton and Teflon
- Available in 2-way model (narrow or standard) or flow back models

3 Sections narrow flange outlet
Part. No. 453BEC-2NF-C

5 Sections narrow flange outlet
Part. No. 455BEC-2FS-C



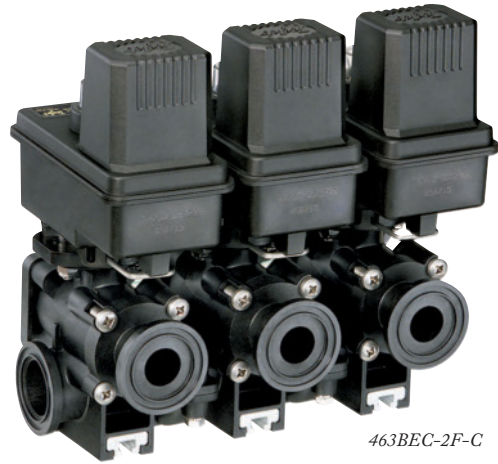
INLET AND OUTLET CONNECTION OPTIONS FOR 430, 450 AND 460 MANIFOLDS

Fitting Type	430		450		460	
	INLET LQC	OUTLET QC	INLET 75 Series	OUTLET 50 Series	INLET 75 Series	OUTLET 50 Series
¾" FNPT	58456-3/4					
1" FNPT	58456-1			CP48154-PP	CP48154-PP	CP48154-PP
1-¼" FNPT	58456-1-1/4			CP45512-PP	CP45512-PP	CP45512-PP
1-½" FNPT	58456-1-1/2		CP46066-PP			
½" Straight Hose Barb		45529-1/2				
¾" Straight Hose Barb		45529-3/4		CP48150-PP	CP48150-PP	CP48150-PP
1" Straight Hose Barb	58456-1000		45529-1	CP45504-PP	CP45504-PP	CP45504-PP
1-¼" Straight Hose Barb	58456-1250		CP48160-PP	CP45505-PP	CP45505-PP	CP45505-PP
1-½" Straight Hose Barb	58456-1500		CP46067-PP	CP45506-PP	CP45506-PP	CP45506-PP
2" Straight Hose Barb	58456-2000		CP48161-PP			
¼" NPT Gauge Port	58456-1/4		CP46127-1/4-PP	CP45508-1/4-PP	CP45508-1/4-PP	CP45508-1/4-PP
⅜" NPT Gauge Port			CP46127-3/8-PP	CP45539-3/8-PP	CP45539-3/8-PP	CP45539-3/8-PP
Blank	58456-C	45529-C	CP46069-PP	CP45507-PP	CP45507-PP	CP45507-PP
430 & 450 Flow Back Plug	45529-P		45529-P			

*Other Flanges/Fittings Available

460 ELECTRIC BALL VALVE MANIFOLD

- Manifolds from 1 to 9 valves with flange fittings
- 25 GPM with 5 PSI pressure drop
- 300 PSI maximum pressure
- 0.7 sec. shutoff fully open to close
- Wetted parts are SS, polypropylene, Viton and Teflon
- SS ball and stem
- 50 Series inlet and outlet fittings
- Available in 2-way, 3-way metered bypass, or flow back models



463BEC-2F-C

TEEJET FLOW BACK MANIFOLDS

- Flow back valves provide instant nozzle shutoff to improve accuracy and save chemicals by relieving boom pressure back to the tank upon shutoff
- Up to 80% faster tip shutoff
- Available in the 430, 450 (shown right), & 460 style manifolds
- Ideal for automatic boom shutoff systems
- 1" return to tank recommended



Flow back line to tank

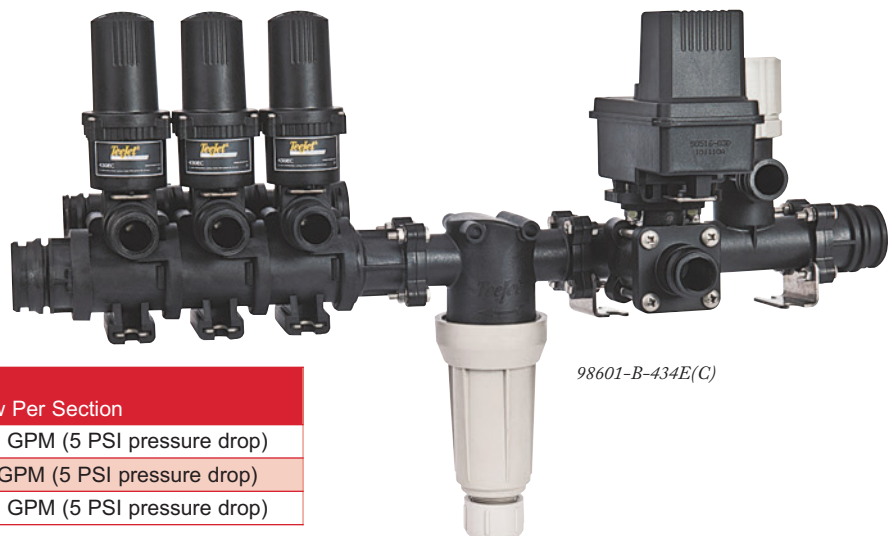
453BEC-34FB4-C

CONTROL UNIT FOR TEEJET CONTROLLERS

Includes:

- Section valves in 2-way, flow back, or 3-way style
- Pressure relief valve (98510-PP)
- Electric regulating valve, bypass mode
- Liquid strainer (AA126ML-M50-80-VI)

Part No. 98601-B-433E(C)



98601-B-434E(C)

Model Number	Valve Sections	Valve Type	PSI	Flow Per Section
98600-B-433E(C)	3	2-Way	215	11.7 GPM (5 PSI pressure drop)
98601-B-434E(C)	5	Flow Back	215	9.2 GPM (5 PSI pressure drop)
98602-B-435E(C)	4	3-Way	215	11.7 GPM (5 PSI pressure drop)

Note: Valves can be ordered in 1-9 sections configuration.

USEFUL FORMULAS

$$\text{GPM} = \frac{\text{GPA} \times \text{mph} \times \text{W}}{5,940}$$

(Per Nozzle)

$$\text{GPA} = \frac{5,940 \times \text{GPM (per Nozzle)}}{\text{MPH} \times \text{W}}$$

GPM: Gallons Per Minute
 GPA: Gallons Per Acre
 MPH: Miles Per Hour
 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.

SUGGESTED MINIMUM SPRAY HEIGHTS

Nozzle Type	Spray Angle	Nozzle Height		
		20" Spacing	30" Spacing	40" Spacing
TeeJet (Flat Spray)	65°	22-24"	33-35"	NR*
TeeJet, XR TeeJet	80°	17-19"	26-28"	NR*
TeeJet, XR TeeJet	110°	15-18"	20-22"	NR*
FullJet	120°	10-18" **	14-18" **	14-18" **
FloodJet	120°	***	***	***

*Not recommended.
 **Nozzle height based on 30° to 45° angle of orientation.
 ***Wide angle spray tip height is influenced by nozzle orientation. The critical factor is to achieve a double spray pattern overlap.

DROP SIZE CLASSIFICATION

Nozzle selection is often based upon droplet size. Droplet size from a nozzle becomes very important when the efficacy of a particular plant protection chemical is dependent on coverage, or the prevention of spray leaving the target area is a priority.

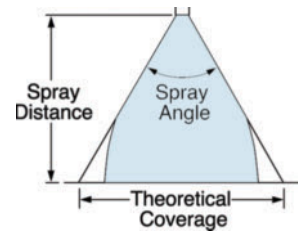
The majority of the nozzles used in agriculture can be classified as producing droplets from fine to ultra coarse droplets. Nozzles that produce droplets from the finer to middle portion of the range are usually recommended for post-emergence contact applications, which require excellent coverage on the intended target area. This may include herbicides, insecticides and fungicides. Nozzles producing droplets from the middle to coarse end of the range, offer less thorough surface coverage, provide significantly improved drift control. These nozzles are commonly used for systemic and pre-emergence surface applied herbicides.

An important point to remember when choosing a spray nozzle is that one nozzle can produce different droplet size classifications at different pressures. A nozzle might produce medium droplets at low pressures, while producing fine droplets as pressure is increased.

Category	Symbol	Color Code	Approximate Dv0.5 (VMD) (microns)
Extremely Fine	XF	Purple	≈50
Very Fine	VF	Red	<136
Fine	F	Orange	136-177
Medium	M	Yellow	177-218
Coarse	C	Blue	218-349
Very Coarse	VC	Green	349-428
Extremely Coarse	XC	White	428-622
Ultra Coarse	UC	Black	>622

Droplet size classifications are based on BCPC specifications and in accordance with ASABE Standard S572.1 at the date of printing. Classifications are subject to change.

This table lists the theoretical coverage of spray patterns as calculated from the included spray angle of the spray and the distance from the nozzle orifice. These values are based on the assumption that the spray angle remains the same throughout entire spray distance. In actual practice, actual coverage is more narrow than theoretical coverage.



Included Spray Angle	Theoretical Coverage at Various Spray Heights							
	8"	10"	12"	15"	18"	24"	30"	36"
15°	2.1"	2.6"	3.2"	3.9"	4.7"	6.3"	7.9"	9.5"
20°	2.8"	3.5"	4.2"	5.3"	6.4"	8.5"	10.6"	12.7"
25°	3.5"	4.4"	5.3"	6.6"	8.0"	10.6"	13.3"	15.9"
30°	4.3"	5.4"	6.4"	8.1"	9.7"	12.8"	16.1"	19.3"
35°	5.0"	6.3"	7.6"	9.5"	11.3"	15.5"	18.9"	22.7"
40°	5.8"	7.3"	8.7"	10.9"	13.1"	17.5"	21.8"	26.2"
45°	6.6"	8.3"	9.9"	12.4"	14.9"	19.9"	24.8"	29.8"
50°	7.5"	9.3"	11.2"	14.0"	16.8"	22.4"	28.0"	33.6"
55°	8.3"	10.3"	12.5"	15.6"	18.7"	25.0"	31.2"	37.5"
60°	9.2"	11.5"	13.8"	17.3"	20.6"	27.7"	34.6"	41.6"
65°	10.2"	12.7"	15.3"	19.2"	22.9"	30.5"	38.2"	45.8"
73°	11.8"	14.8"	17.8"	22.0"	27.0"	36.0"	44.0"	53.0"
80°	13.4"	16.8"	20.2"	25.2"	30.3"	40.3"	50.4"	60.4"
85°	14.7"	18.3"	22.0"	27.5"	33.0"	44.0"	55.4"	66.4"
90°	16.0"	20.0"	24.0"	30.0"	36.0"	48.0"	60.0"	72.0"
95°	17.5"	21.8"	26.2"	32.8"	40.3"	52.4"	65.5"	78.6"
100°	19.1"	23.8"	28.6"	35.8"	43.0"	57.2"	71.6"	85.9"
110°	22.8"	28.5"	34.3"	42.8"	51.4"	68.5"	85.6"	103"
120°	27.7"	34.6"	41.6"	52.0"	62.4"	83.2"	104"	
130°	34.3"	42.9"	51.5"	64.4"	77.3"	103"		
140°	43.8"	54.8"	65.7"	82.2"	98.6"			
150°	59.6"	74.5"	89.5"					

SPRAYING SOLUTIONS OTHER THAN WATER

All tabulations in this catalog are based on spraying water, which weighs 8.34 lb per US gallon. Conversion factors must be used when spraying any solution heavier or lighter than water. To determine the proper size nozzle for the spraying solution 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:

$$\text{GPA (solution)} \times \text{conversion factor} = \text{GPA (from table)}$$

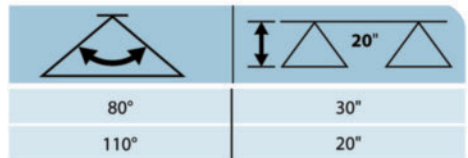
$$20 \text{ GPA (28\%)} \times 1.13 = 22.6 \text{ GPA (water)}$$

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 Factors
7.0 lb per gallon	.84	.92
8.0 lb per gallon	.96	.98
8.34 lb per gallon - WATER	1.00	1.00
9.0 lb per gallon	1.08	1.04
10.0 lb per gallon	1.20	1.10
10.65 lb per gallon - 28% nitrogen	1.28	1.13
11.0 lb per gallon	1.32	1.15
12.0 lb per gallon	1.44	1.20
14.0 lb per gallon	1.68	1.30


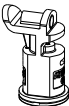

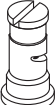





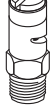

SELECTION GUIDE




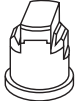




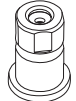


Nozzle	PSI	XR/XRC	TT	TTJ60	AIXR	AI3070	AITTJ60	AI/AIC	TTI	GPM	GPA 20°												
											4 mph	5 mph	6 mph	7 mph	8 mph	9 mph	10 mph	12 mph	14 mph	16 mph	18 mph	20 mph	
015 AI AIC AIXR AI3070 TT TTI XR XRC (100)	20	F	C	—	VC	VC	—	—	UC	0.11	8.2	6.5	5.4	4.7	4.1	3.6	3.3	2.7	2.3	2.0	1.8	1.6	
	30	F	M	—	VC	C	—	UC	UC	0.13	9.7	7.7	6.4	5.5	4.8	4.3	3.9	3.2	2.8	2.4	2.1	1.9	
	40	F	M	—	C	C	—	XC	UC	0.15	11.1	8.9	7.4	6.4	5.6	5.0	4.5	3.7	3.2	2.8	2.5	2.2	
	50	F	M	—	C	M	—	XC	UC	0.17	12.6	10.1	8.4	7.2	6.3	5.6	5.0	4.2	3.6	3.2	2.8	2.5	
	60	F	M	—	M	M	—	VC	XC	0.18	13.4	10.7	8.9	7.6	6.7	5.9	5.3	4.5	3.8	3.3	3.0	2.7	
	70	—	F	—	M	M	—	VC	XC	0.20	14.9	11.9	9.9	8.5	7.4	6.6	5.9	5.0	4.2	3.7	3.3	3.0	
	80	—	F	—	M	M	—	VC	XC	0.21	15.6	12.5	10.4	8.9	7.8	6.9	6.2	5.2	4.5	3.9	3.5	3.1	
	90	—	F	—	M	F	—	C	XC	0.23	17.1	13.7	11.4	9.8	8.5	7.6	6.8	5.7	4.9	4.3	3.8	3.4	
	02 AI AIC AIXR TT TTI XR XRC (50) AI3070 AITTJ60 TTJ60 (100)	20	F	C	C	XC	XC	XC	—	UC	0.14	10.4	8.3	6.9	5.9	5.2	4.6	4.2	3.5	3.0	2.6	2.3	2.1
30		F	M	C	VC	VC	VC	UC	UC	0.17	12.6	10.1	8.4	7.2	6.3	5.6	5.0	4.2	3.6	3.2	2.8	2.5	
40		F	M	C	C	C	C	XC	UC	0.20	14.9	11.9	9.9	8.5	7.4	6.6	5.9	5.0	4.2	3.7	3.3	3.0	
50		F	M	M	C	C	C	C	XC	UC	0.22	16.3	13.1	10.9	9.3	8.2	7.3	6.5	5.4	4.7	4.1	3.6	3.3
60		F	M	M	C	C	C	C	VC	UC	0.24	17.8	14.3	11.9	10.2	8.9	7.9	7.1	5.9	5.1	4.5	4.0	3.6
70		—	M	M	C	M	C	C	VC	XC	0.26	19.3	15.4	12.9	11.0	9.7	8.6	7.7	6.4	5.5	4.8	4.3	3.9
80		—	M	M	M	M	C	C	VC	XC	0.28	21	16.6	13.9	11.9	10.4	9.2	8.3	6.9	5.9	5.2	4.6	4.2
90		—	F	M	M	M	C	C	C	XC	0.30	22	17.8	14.9	12.7	11.1	9.9	8.9	7.4	6.4	5.6	5.0	4.5
025 AI AIC AIXR TT TTI XR XRC (50) AI3070 AITTJ60 TTJ60 (100)		20	M	C	VC	XC	XC	XC	—	UC	0.18	13.4	10.7	8.9	7.6	6.7	5.9	5.3	4.5	3.8	3.3	3.0	2.7
	30	F	C	C	XC	VC	VC	UC	UC	0.22	16.3	13.1	10.9	9.3	8.2	7.3	6.5	5.4	4.7	4.1	3.6	3.3	
	40	F	M	C	VC	C	VC	XC	UC	0.25	18.6	14.9	12.4	10.6	9.3	8.3	7.4	6.2	5.3	4.6	4.1	3.7	
	50	F	M	C	C	C	C	C	XC	UC	0.28	21	16.6	13.9	11.9	10.4	9.2	8.3	6.9	5.9	5.2	4.6	4.2
	60	F	M	C	C	C	C	C	XC	UC	0.31	23	18.4	15.3	13.2	11.5	10.2	9.2	7.7	6.6	5.8	5.1	4.6
	70	—	M	M	C	C	C	C	VC	XC	0.33	25	19.6	16.3	14.0	12.3	10.9	9.8	8.2	7.0	6.1	5.4	4.9
	80	—	M	M	C	C	C	C	VC	XC	0.35	26	21	17.3	14.9	13.0	11.6	10.4	8.7	7.4	6.5	5.8	5.2
	90	—	F	M	C	M	C	C	VC	XC	0.38	28	23	18.8	16.1	14.1	12.5	11.3	9.4	8.1	7.1	6.3	5.6
	03 AI AIC AITTJ60 AIXR AI3070 TT TTI TTJ60 XR XRC (50)	20	M	VC	VC	XC	XC	UC	—	UC	0.21	15.6	12.5	10.4	8.9	7.8	6.9	6.2	5.2	4.5	3.9	3.5	3.1
30		F	C	C	XC	XC	XC	UC	UC	0.26	19.3	15.4	12.9	11.0	9.7	8.6	7.7	6.4	5.5	4.8	4.3	3.9	
40		F	C	C	VC	VC	VC	XC	UC	0.30	22	17.8	14.9	12.7	11.1	9.9	8.9	7.4	6.4	5.6	5.0	4.5	
50		F	M	C	C	C	C	VC	XC	0.34	25	20	16.8	14.4	12.6	11.2	10.1	8.4	7.2	6.3	5.6	5.0	
60		F	M	C	C	C	C	C	XC	UC	0.37	27	22	18.3	15.7	13.7	12.2	11.0	9.2	7.8	6.9	6.1	5.5
70		—	M	C	C	C	C	C	VC	XC	0.40	30	24	19.8	17.0	14.9	13.2	11.9	9.9	8.5	7.4	6.6	5.9
80		—	M	M	C	C	C	C	VC	XC	0.42	31	25	21	17.8	15.6	13.9	12.5	10.4	8.9	7.8	6.9	6.2
90		—	M	M	C	C	C	C	VC	XC	0.45	33	27	22	19.1	16.7	14.9	13.4	11.1	9.5	8.4	7.4	6.7
04 AI AIC AITTJ60 AIXR AI3070 TT TTI TTJ60 XR XRC (50)		20	M	VC	VC	XC	UC	UC	—	UC	0.28	21	16.6	13.9	11.9	10.4	9.2	8.3	6.9	5.9	5.2	4.6	4.2
	30	M	C	C	XC	XC	XC	UC	UC	0.35	26	21	17.3	14.9	13.0	11.6	10.4	8.7	7.4	6.5	5.8	5.2	
	40	M	C	C	XC	VC	VC	XC	UC	0.40	30	24	19.8	17.0	14.9	13.2	11.9	9.9	8.5	7.4	6.6	5.9	
	50	F	C	C	VC	VC	VC	XC	UC	0.45	33	27	22	19.1	16.7	14.9	13.4	11.1	9.5	8.4	7.4	6.7	
	60	F	C	C	VC	VC	C	XC	UC	0.49	36	29	24	21	18.2	16.2	14.6	12.1	10.4	9.1	8.1	7.3	
	70	—	M	C	C	C	C	C	VC	XC	0.53	39	31	26	22	19.7	17.5	15.7	13.1	11.2	9.8	8.7	7.9
	80	—	M	C	C	C	C	C	VC	XC	0.57	42	34	28	24	21	18.8	16.9	14.1	12.1	10.6	9.4	8.5
	90	—	M	M	C	C	C	C	VC	XC	0.60	45	36	30	25	22	19.8	17.8	14.9	12.7	11.1	9.9	8.9
	05 AI AIC AITTJ60 AIXR AI3070 TT TTI TTJ60 XR XRC (50)	20	M	VC	VC	XC	UC	UC	—	UC	0.35	26	21	17.3	14.9	13.0	11.6	10.4	8.7	7.4	6.5	5.8	5.2
30		M	VC	C	XC	XC	XC	UC	UC	0.43	32	26	21	18.2	16.0	14.2	12.8	10.6	9.1	8.0	7.1	6.4	
40		M	C	C	XC	VC	VC	XC	UC	0.50	37	30	25	21	18.6	16.5	14.9	12.4	10.6	9.3	8.3	7.4	
50		M	C	C	VC	VC	VC	XC	UC	0.56	42	33	28	24	21	18.5	16.6	13.9	11.9	10.4	9.2	8.3	
60		F	C	C	C	VC	VC	XC	UC	0.61	45	36	30	26	23	20	18.1	15.1	12.9	11.3	10.1	9.1	
70		—	C	C	C	C	C	C	VC	XC	0.66	49	39	33	28	25	22	19.6	16.3	14.0	12.3	10.9	9.8
80		—	M	C	C	C	C	C	VC	XC	0.71	53	42	35	30	26	23	21	17.6	15.1	13.2	11.7	10.5
90		—	M	C	C	C	C	C	VC	XC	0.75	56	45	37	32	28	25	22	18.6	15.9	13.9	12.4	11.1
06 AI AIC AITTJ60 AIXR TT TTI TTJ60 XR XRC (50)		20	C	XC	XC	XC	—	UC	—	UC	0.42	31	25	21	17.8	15.6	13.9	12.5	10.4	8.9	7.8	6.9	6.2
	30	M	VC	VC	XC	—	XC	UC	UC	0.52	39	31	26	22	19.3	17.2	15.4	12.9	11.0	9.7	8.6	7.7	
	40	M	C	C	XC	—	XC	UC	UC	0.60	45	36	30	25	22	19.8	17.8	14.9	12.7	11.1	9.9	8.9	
	50	M	C	C	VC	—	VC	XC	UC	0.67	50	40	33	28	25	22	19.9	16.6	14.2	12.4	11.1	9.9	
	60	M	C	C	VC	—	VC	XC	UC	0.73	54	43	36	31	27	24	22	18.1	15.5	13.6	12.0	10.8	
	70	—	C	C	VC	—	C	XC	XC	0.79	59	47	39	34	29	26	23	19.6	16.8	14.7	13.0	11.7	
	80	—	C	C	C	—	C	VC	XC	0.85	63	50	42	36	32	28	25	21	18.0	15.8	14.0	12.6	
	90	—	M	C	C	—	C	VC	XC	0.90	67	53	45	38	33	30	27	22	19.1	16.7	14.9	13.4	

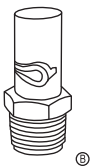

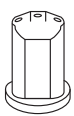


XR/XRC	TT	TTJ60	AI3070	AITTJ60	AIXR	AI/AIC	TTI
15-60 PSI	15-90 PSI	20-90 PSI		15-90 PSI	30-115 PSI	15-100 PSI	

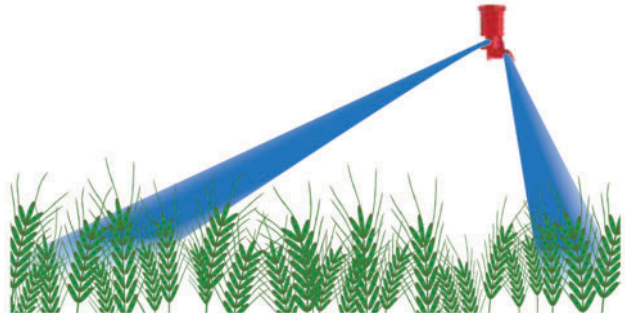
TYPE (BROADCAST NOZZLES)		SIZE	ORIFICE INSERT/ TIP BODY MATERIAL	EXAMPLE TIP NO.	U.S. DOLLARS
	XR TeeJet[™] Extended Range Tips (Tapered Flat Fan Spray) VisiFlo Color-Coded	All Sizes	Stainless Steel	XR8010SS	9.12
			Stainless Steel/Acetal	XR8001VS	7.68
			Acetal (110° Only)	XR11002-VP	3.44
			Ceramic/Polypropylene	XR11003-VK	5.94
	<i>Tip with Quick TeeJet[®] cap and gasket assembly</i>	015 -02	Acetal (110° Only)	XR11002-VP-C	4.78
	XRC TeeJet[™] Extended Range Tips (Tapered Flat Fan Spray) VisiFlo Color-Coded	All Sizes	Stainless Steel/Nylon	XRC8004-VS	8.82
			Ceramic/Nylon	XRC11004-VK	7.20
			Acetal/Nylon	XRC110025-VP	4.10
	Turbo TeeJet[™] Spray Tips (Tapered Flat Fan Spray) VisiFlo Color-Coded	All Sizes	Acetal	TT11001-VP	7.25
			Acetal	TT11002-VP-C	8.64
	AIXR TeeJet[™] Air Induction XR Flat Spray Tips(Tapered Flat Spray) VisiFlo Color-Coded	All Sizes	UHMWPE Polymer	AIXR11004VP	7.99
		<i>Tip with Quick TeeJet[®] cap and gasket assembly</i>	All Sizes	UHMWPE Polymer	AIXR11003VP-C
	AI TeeJet[™] Air Induction Spray Tips (Tapered Flat Fan Spray) VisiFlo Color-Coded	All Sizes	Stainless Steel/Acetal	AI110015-VS	14.69
	AIC TeeJet[™] Air Induction Spray Tips (Tapered Flat Fan Spray) VisiFlo Color-Coded	All Sizes	Stainless Steel/Nylon	AIC11004-VS	15.93
			Acetal/Nylon	AIC11004-VP	7.36
			Ceramic/Nylon	AIC110025-VK	12.97
	Turbo TeeJet[™] Induction Air Induction Spray Tips (Tapered Flat Fan Spray) VisiFlo Color-Coded	All Sizes	Acetal	TTI11004-VP	7.99
		<i>Tip with Quick TeeJet[®] cap and gasket assembly</i>	All Sizes	Acetal	TTI11005VP-C
	DG TeeJet[™] Drift Guard Tips (Tapered Flat Fan Spray) VisiFlo Color-Coded	All Sizes	Stainless Steel/Acetal	DG8002VS	10.64
			Acetal	DG11002-VP	6.33
	TeeJet[™] Spray Tips (Tapered Flat Fan Spray) VisiFlo Color-Coded	All Sizes	Stainless Steel/Acetal	TP11001VS	6.86
			Acetal	TP8002VP	0.97
	TeeJet[™] Spray Tips (Tapered Flat Fan Spray)	-0050 or Smaller	Brass	TP800050	4.62
		Larger than -0050	Brass	TP800067	4.62
		Smaller than -01	Stainless Steel	TP800067-SS	26.48
		-01 and Larger	Stainless Steel	TP11001-SS	11.83
Hardened Stainless Steel	TP11001-HSS	16.30			
	TwinJet[™] Spray Tips (Twin Tapered Flat Fan Spray) VisiFlo Color-Coded	All Sizes	Stainless Steel/Acetal	TJ60-8003VS	13.37
	Turbo TeeJet[™] Duo Double Outlet QJ Adapter with 2 Turbo TeeJet [®] Tips (Twin Tapered Flat Fan Spray) VisiFlo Color-Coded	All Sizes	Acetal /Nylon	QJ90- 2XTT11004-VP	21.53
	Turbo TwinJet[™] Spray Tips (Twin Tapered Flat Fan Spray) VisiFlo Color-Coded	All Sizes	Acetal	TTJ60-11004VP	8.68
		<i>Tip with Quick TeeJet[®] cap and gasket assembly</i>	All Sizes	Acetal	TTJ60- 11005VP-C

TYPE (BROADCAST NOZZLES)		SIZE	ORIFICE INSERT/ TIP BODY MATERIAL	EXAMPLE TIP NO.	U.S. DOLLARS
	AI Turbo TwinJet[™] Twin Tapered Flat Fan Spray <i>VisiFlo</i> Color-Coded	All Sizes	Acetal	AITTJ60-11004VP	9.01
	<i>Tip with Quick TeeJet[®] cap and gasket assembly</i>	All Sizes	Acetal	AITTJ60-11003VP-C	9.01
	AI3070 Spray Tips (Dual Pattern Tapered Flat Fan Spray) <i>VisiFlo</i> Color-Coded	All Sizes	Acetal	AI3070-02VP	9.04
	<i>Tip with Quick TeeJet[®] cap and gasket assembly</i>	All Sizes	Acetal	AI3070-04VP-C	11.33
	DG TwinJet[™] Drift Guard TwinJet Spray Tips (Twin Tapered Flat Fan Spray) <i>VisiFlo</i> Color-Coded	All Sizes	Stainless Steel/Acetal	DGTJ60-11004VS	16.32
	Turbo FloodJet[™] Spray Tips (Wide Angle Flat Fan Spray) <i>VisiFlo</i> Color-Coded	All Sizes	Stainless Steel/Acetal	TF-VS4	14.54
			Acetal	TF-VP4	3.30
	FloodJet[™] Spray Tips (Wide Angle Flat Fan Spray) <i>VisiFlo</i> Color-Coded	All Sizes	Brass	TK-3	7.56
			Stainless Steel	TK-SS3	13.77
			Stainless Steel/Acetal	TK-VS3	13.10
	FloodJet[™] Spray Tips (Wide Angle Flat Fan Spray) <i>VisiFlo</i> Color-Coded	All Sizes	Acetal	TK-VP3	1.07
	FloodJet[™] Nozzles (Wide Angle Tapered Flat Fan Spray)	See Example	Brass	1/8K-	5.82
				1/4K-	9.17
				3/8K-	14.56
				1/2K-	20.51
				3/4K-90 to 120	33.61
				3/4K-140 to 210	62.02
				1K-300	116.12
				1K-450	135.86
			Stainless Steel	1/8K-SS	17.57
				1/4K-SS	21.23
				3/8K-SS	28.47
				1/2K-SS	34.45
				3/4K-SS80 to 120	46.96
				3/4K-SS140 to 210	84.46
				1K-SS300	171.73
				1K-SS450	200.99
	Quick Turbo FloodJet[™] Spray Nozzles (Wide Angle Tapered Flat Fan Spray) <i>VisiFlo</i> Color-Coded	All Sizes	Stainless Steel/Acetal	QCTF-VS15 to 80 QCTF-VS100 to 120	38.53 52.59
	QCK Quick FloodJet[™] (Wide Angle Tapered Flat Fan Spray) <i>VisiFlo</i> Color-Coded	All Sizes	Stainless Steel/Acetal	QCK-SS20 to 40 QCK-SS50 to 80 QCK-SS100 & 120 QCK-SS150 to 210	41.44 45.30 56.54 89.36
	TurfJet[™] Spray Tips (Wide Angle Flat Fan Spray) <i>VisiFlo</i> Color-Coded	All Sizes	Stainless Steel/Acetal	1/4TTJ05-VS	18.84
			Acetal	1/4TTJ06-VP	9.74
	FL FullJet[™] Spray Tips (Wide Angle Full Cone Spray) <i>VisiFlo</i> Color-Coded	All Sizes	Stainless Steel/Acetal	FL-5VS	13.09
			Acetal	FL-5VC	8.31

TYPE (BANDING & DIRECTED NOZZLES)		SIZE	ORIFICE INSERT/ TIP BODY MATERIAL	EXAMPLE TIP NO.	U.S. DOLLARS
	AI TeeJet[®] Air Induction Even Spray Tips (Even Flat Fan Spray) VisiFlo Color-Coded	All Sizes	Stainless Steel/Acetal	AI95015EVS	15.04
	DG TeeJet[®] Even Spray Tips (Even Flat Fan Spray) VisiFlo Color-Coded	All Sizes	Stainless Steel/Acetal	DG9504EVS	10.64
	TeeJet[®] Spray Tips (Even Flat Fan Spray) VisiFlo Color-Coded	-01 And Larger	Brass	TP8001E	4.69
			Stainless Steel	TP8001E-SS	12.04
			Hardened Stainless Steel	TP8001E-HSS	16.57
		-01 And Larger	Stainless Steel/Acetal	TP8001EVS	6.86
	TwinJet[®] Spray Tips (Twin Even Flat Fan Spray) VisiFlo Color-Coded	All Sizes	Stainless Steel/Acetal	TJ60-8003EVS	18.64
	TeeJet[®] Spray Tips (Double Outlet Flat Fan Spray)	All Sizes	Brass	TQ150-01	10.04
			Stainless Steel	TQ150-01-SS	18.16
	AIUB TeeJet[®] Air Induction (Underleaf Banding Spray Tips) VisiFlo Color-Coded	All Sizes	Stainless Steel/Acetal	AIUB8504VS	18.58
	TeeJet[®] UB (Underleaf Banding Spray Tips)	All Sizes	Brass	D25143-UB-8504	16.34
			Stainless Steel	D25143-UB-8504-SS	31.10
	TeeJet[®] OC Spray Tips (Off Center Flat Fan Spray)	-01 to -08, -12, -16	Brass	OC-02	12.28
			Stainless Steel	OC-SS02	18.16
	TG FullJet[®] Spray Tips (Full Cone Spray)	Smaller than 1	Brass	TG-0.9	17.39
			Stainless Steel	TG-SS0.9	47.16
		1 and Larger	Brass	TG-1	10.00
			Stainless Steel	TG-SS1	22.07
	TX ConeJet[®] Spray Tips (Hollow Cone Spray)	All Sizes	Brass	TX-1	6.48
			Stainless Steel	TX-SS1	40.70
	TX, TXA, TXB ConeJet[®] (Hollow Cone Spray) VisiFlo Color-Coded	All Sizes	Ceramic/Polypropylene	TXA8004VK TXB8003VK TX-VK3	6.56 6.56 6.56
			Stainless Steel/Polypropylene	TX-VS4	7.26
	TXR ConeJet[®] (Hollow Cone Spray) Color-Coded	All Sizes	Ceramic/Polypropylene	TXR8002VK	6.39
	AITX ConeJet[®] Air Induction (Hollow Cone Spray) VisiFlo Color-Coded	All Sizes	Ceramic/Polypropylene	AITXA8001VK AITXB8004VK	14.69 14.69
	TeeJet[®] Orifice Discs	All Sizes	Acetal	DVP-2	1.03
			Hardened Stainless Steel	D2	1.63
			Stainless Steel	DE2	1.47
			Ceramic	DCER-2	4.53
	TeeJet[®] Cores	All Sizes	Nylon	DC23-NY	1.47
			Brass	DC23	2.85
			Hardened Stainless Steel	DC23-HSS	6.84
			Ceramic	DC25-CER	6.88

TYPE (BOOMLESS NOZZLES)		SIZE	ORIFICE INSERT/ TIP BODY MATERIAL	EXAMPLE TIP NO.	U.S. DOLLARS
	BoomJet Large Capacity Nozzles and Swivels (Boomless Flat Spray)	All Sizes	Brass	4418-3/4-2TOC 4629-3/4-TOC 5430-3/4-2TOC 5880-3/4-2TOC	244.90 189.02 253.55 286.32
	TeeJet OC Spray Tips (Large Capacity Off-Center Flat Spray Tips)	See Example	Brass	OC-20	51.24
			Stainless Steel	OC-SS20	99.68
	XPBoomJet Nozzles (Boomless Flat Spray) VisiFlo Color-Coded	1/4" 10, 20, 25	Acetal	1/4XP25R-VP 1/4XP25L-VP	55.37 55.37
		1/2" 40 or 80	Acetal	1/2XP40R-VP 1/2XP40L-VP	65.96 65.96
	FieldJet Nozzles (Boomless Flat Spray)	All Sizes	Brass	1/4KLC 3/4KLC	46.64 65.18
			Stainless Steel	1/4KLC-SS18 3/4KLC-SS108	76.31 95.82
	TFW Turbo FloodJet Nozzles (Extra Wide Angle Tapered Flat Fan Spray)	All Sizes	Brass	TFW-12	11.09
TYPE (FERTILIZER NOZZLES)		SIZE	ORIFICE INSERT/ TIP BODY MATERIAL	EXAMPLE TIP NO.	U.S. DOLLARS
	StreamJet Fertilizer Nozzles (Solid Stream Nozzle)	0002-0080	Stainless Steel	H1/4U-SS0002	15.80
	StreamJet SJ7 Fertilizer Nozzles (7 Orifices with Quick TeeJet® Connection) VisiFlo Color-Coded	All Sizes	Acetal	SJ7-04-VP	12.52
	StreamJet SJ3 Fertilizer Nozzles (3 Solid Stream Orifices) VisiFlo Color-Coded	All Sizes	Acetal	SJ3-04-VP	9.84
	TeeJet Flow Regulators (Orifice Regulating Plates and Components)	See Example	Brass	4908-1/4T	10.04
			Stainless Steel	4908-1/4T-SS CP4928-SS CP4916-28	44.36 38.90 3.44

AIR INDUCTION DUAL PATTERN FLAT SPRAY TIPS



The AI3070 TeeJet dual flat spray tip, utilizing a patent-pending design, provides two spray patterns at complementary angles of 30° and 70° from vertical. The leading pattern provides coverage of the rear of the crop and penetration for coverage within the canopy. The trailing pattern provides thorough coverage across the top of the crop canopy. The AI3070 is ideal for fungicide application and disease control in cereal crops.

Typical Applications: Excellent penetration and seed head coverage for fungicide spraying on cereal crops

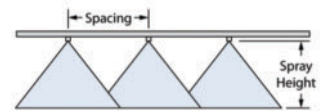
- AI3070 produces two wide angle, flat spray patterns for uniform coverage in broadcast applications
- 30° forward tilted spray penetrates dense crop canopies, while the backward tilted 70° spray maximizes coverage of the crop seed head
- Drift resistant drops are produced through the use of a venturi air aspirator
- Large, round, free passages minimize clogging
- All acetal construction for excellent chemical and wear resistance
- Removable pre-orifice for fast and easy cleaning
- Automatic alignment with the use of CP98578-1-NY cap and 98579-1-NYR cap and gasket
- Suggested spray pressure range of 20 - 90 PSI (1.5 - 6 bar)

TIPO	PSI	DROPSIZE	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE OZ/MIN	GPA										GALLONS PER 1000 SQ. FT.				
					20°														
					4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH			
AI3070-015VP (100)	20	VC	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	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			
	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			
AI3070-02VP (100)	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			
	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			
AI3070-025VP (100)	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	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			
	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	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			
AI3070-03VP (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			
AI3070-04VP (50)	20	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			
	30	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			
	40	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			
	50	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			
	60	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			
AI3070-05VP (50)	20	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			
	30	XC	0.55	70	41	33	27	20	16.3	13.6	10.9	8.2	1.9	1.2	0.94	0.75			
	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	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			
	60	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			
AI3070-05VP (50)	20	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			
	30	VC	0.56	72	42	33	28	21	16.6	13.9	11.1	8.3	1.9	1.3	0.95	0.76			
	40	VC	0.61	78	45	36	30	23	18.1	15.1	12.1	9.1	2.1	1.4	1.0	0.83			
	50	C	0.68	87	50	40	34	25	20	16.8	13.5	10.1	2.3	1.5	1.2	0.92			
	60	C	0.75	96	56	45	37	28	22	18.6	14.9	11.1	2.6	1.7	1.3	1.0			

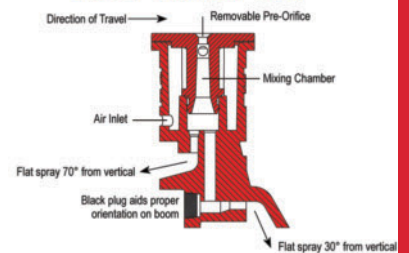
Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C).



CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
EXCELLENT	EXCELLENT	VERY GOOD



CROSS SECTION VIEW

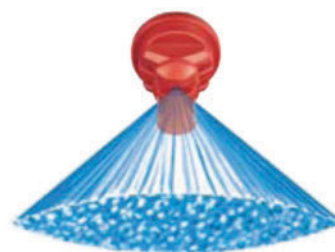




TURBO TEEJET WIDE ANGLE FLAT SPRAY TIPS

- 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 (1–6 bar)

- Automatic spray alignment with 25612*-NYR Quick TeeJet® cap and gasket
- Blockage-free passage for less clogging
- Unique internal configuration for substantially longer wear life

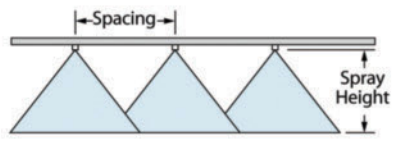


TIPOLOGY	PSI	DROP SIZE	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	20°												GALLONS PER 1000 SQ. FT.				
					GPA																
					4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH					
TT11001 (100)	15	C	0.061	7.8	4.5	3.6	3.0	2.3	1.8	1.5	1.2	0.91	0.21	0.14	0.10	0.08					
	20	M	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	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					
TT110015 (100)	15	C	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	C	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	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	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	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	7.1	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20					
	20	C	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	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					
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	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					
	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	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					
TT11008 (50)	15	M	0.75	96	56	45	37	28	22	18.6	14.9	11.1	2.6	1.7	1.3	1.0					
	20	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					
	30	VC	0.57	73	42	34	28	21	16.9	14.1	11.3	8.5	1.9	1.3	0.97	0.78					
	40	VC	0.69	88	51	41	34	26	20	17.1	13.7	10.2	2.3	1.6	1.2	0.94					
	50	C	0.80	102	59	48	40	30	24	19.8	15.8	11.9	2.7	1.8	1.4	1.1					



CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
VERY GOOD	VERY GOOD	VERY GOOD
GOOD*	EXCELLENT*	VERY GOOD*

*At pressures below 30 PSI (2.0 bar)



How to order:
Specify tip number.
Example:
TT11001-VP – Polymer with VisiFlo® color-coding

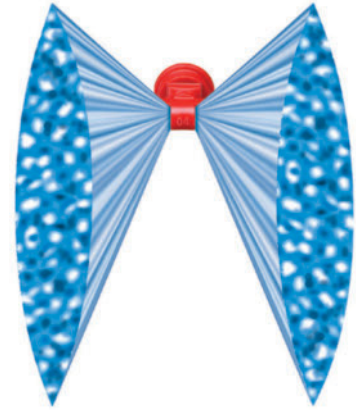
Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C).



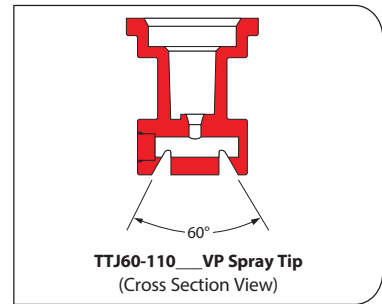
- Dual outlet design produces two 110° flat fan spray patterns using the patented technology from the Turbo TeeJet nozzle, the angle between each spray pattern is 60° forward and back
- Best suited for broadcast spraying where superior leaf coverage and canopy penetration is important
- Droplet size range is slightly larger than for the same capacity Turbo TeeJet nozzle providing drift-reducing properties with increased canopy coverage and penetration

- Molded polymer for excellent chemical and wear resistance
- Available in six VisiFlo® color-coded capacities with pressure ranges from 20 - 90 PSI (1.5 - 6 bar)
- Ideal for use with automatic sprayer controllers
- Automatic alignment when used with

25612*-NYR Quick TeeJet cap and gasket

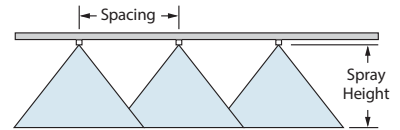


TIPOLOGY	PSI	DROP SIZE	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	20"															
					GPA								GALLONS PER 1000 SQ. FT.							
					4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH				
TTJ60-11002 (100)	20	C	0.14	18	10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1	0.48	0.32	0.24	0.19	0.58	0.39	0.29	0.23
	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	0.68	0.45	0.34	0.27
	40	C	0.20	26	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.3	0.75	0.50	0.37	0.30	0.82	0.54	0.41	0.33
	50	M	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.88	0.59	0.44	0.35	0.95	0.63	0.48	0.38
	60	M	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	1.0	0.68	0.51	0.41	1.1	0.70	0.53	0.42
	70	M	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	1.1	0.75	0.56	0.45	1.2	0.79	0.60	0.48
TTJ60-110025 (100)	80	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	1.3	0.86	0.65	0.52
	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	1.4	0.91	0.68	0.54
	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	0.75	0.50	0.37	0.30
	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	0.85	0.57	0.43	0.34
	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	0.95	0.63	0.48	0.38
	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	1.0	0.68	0.51	0.41
TTJ60-11003 (100)	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	1.1	0.75	0.56	0.45
	70	M	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	1.2	0.79	0.60	0.48
	80	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	1.3	0.86	0.65	0.52
	90	M	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	1.4	0.91	0.68	0.54
	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	0.88	0.59	0.44	0.35
	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	1.0	0.68	0.51	0.41
TTJ60-11004 (50)	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	1.1	0.75	0.56	0.45
	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	1.3	0.84	0.63	0.50
	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	1.4	0.91	0.68	0.54
	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	1.5	1.0	0.77	0.61
	80	M	0.42	54	31	25	21	15.6	12.5	10.4	8.3	6.2	1.4	0.95	0.71	0.57	1.6	1.1	0.83	0.67
	90	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	1.7	1.1	0.83	0.67
TTJ60-11005 (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	1.8	1.2	0.90	0.72
	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	1.9	1.3	0.97	0.78
	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	2.0	1.4	1.0	0.82
	50	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	2.1	1.4	1.0	0.82
	60	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	2.2	1.5	1.1	0.90
	70	C	0.53	68	39	31	26	19.7	15.7	13.1	10.5	7.9	1.8	1.2	0.90	0.72	2.3	1.6	1.2	0.94
TTJ60-11006 (50)	80	C	0.57	73	42	34	28	21	16.9	14.1	11.3	8.5	1.9	1.3	0.97	0.78	2.4	1.6	1.2	0.94
	90	M	0.60	77	45	36	30	22	17.8	14.9	11.9	8.9	2.0	1.4	1.0	0.82	2.5	1.7	1.3	1.0
	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	2.6	1.8	1.4	1.1
	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	2.7	1.8	1.4	1.1
	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	2.8	1.9	1.4	1.1
	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	2.9	2.0	1.5	1.2
TTJ60-11008 (50)	60	C	0.61	78	45	36	30	23	18.1	15.1	12.1	9.1	2.1	1.4	1.0	0.83	3.0	2.0	1.5	1.2
	70	C	0.66	84	49	39	33	25	19.6	16.3	13.1	9.8	2.2	1.5	1.1	0.90	3.1	2.1	1.5	1.2
	80	C	0.71	91	53	42	35	26	21	17.6	14.1	10.5	2.4	1.6	1.2	0.97	3.2	2.2	1.7	1.3
	90	C	0.75	96	56	45	37	28	22	18.6	14.9	11.1	2.6	1.7	1.3	1.0	3.3	2.2	1.7	1.3
	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	3.4	2.3	1.7	1.4
	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	3.5	2.4	1.8	1.4
TTJ60-11010 (50)	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	3.6	2.4	1.8	1.4
	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	3.7	2.5	1.9	1.5
	60	C	0.73	93	54	43	36	27	22	18.1	14.5	10.8	2.5	1.7	1.2	0.99	3.8	2.6	1.9	1.5
	70	C	0.79	101	59	47	39	29	23	19.6	15.6	11.7	2.7	1.8	1.3	1.1	3.9	2.7	2.0	1.6
	80	C	0.85	109	63	50	42	32	25	21	16.8	12.6	2.9	1.9	1.4	1.2	4.0	2.8	2.1	1.7
	90	C	0.90	115	67	53	45	33	27	22	17.8	13.4	3.1	2.0	1.5	1.2	4.1	2.9	2.2	1.8

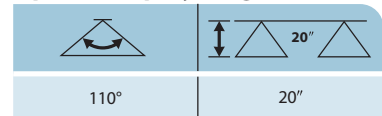


CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
EXCELLENT	EXCELLENT	VERY GOOD
VERY GOOD*	EXCELLENT*	EXCELLENT*

*At pressures below 30 PSI (2.0 bar)



Optimum Spray Height



How to order:

Specify tip number.

Example:

TTJ60-11004VP – Polymer with VisiFlo® color-coding

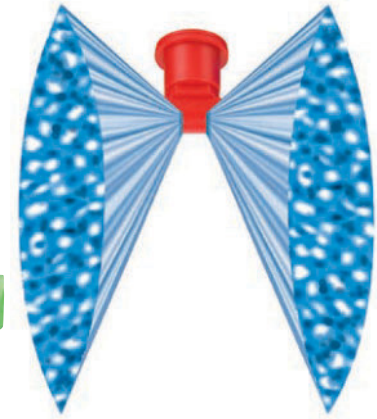
TTJ60-11003VP-C – Polymer with VisiFlo color-coding, includes Quick TeeJet cap and gasket

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C).

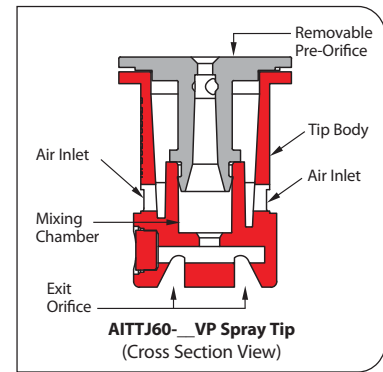


AIR INDUCTION TURBO TWINJET TWIN FLAT SPRAY TIPS

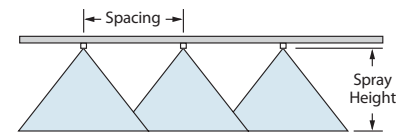
- Air induction with dual 110° flat fan patterns
- 60° between leading and trailing spray patterns
- Good coverage with increased canopy penetration and best drift control
- Best suited for postemergence applications
- Excellent drift control with coarse to very coarse droplets
- Available in six VisiFlo® color coded capacities (02 through 06) – color represents total flow
- Pressure ranges from 20–90 PSI (1.5–6 bar)
- Automatic spray alignment when used with 25598*-NYR Quick TeeJet® cap and gasket



Icon	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			
AITTJ60-11002VP (100)	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			
	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	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			
	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			
	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			
AITTJ60-110025VP (100)	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	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			
	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	0.28	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			
	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			
AITTJ60-11003VP (50)	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	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	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	0.37	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	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54			
AITTJ60-11004VP (50)	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	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			
	40	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			
	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	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			
	70	C	0.53	68	39	31	26	19.7	15.7	13.1	10.5	7.9	1.8	1.2	0.90	0.72			
AITTJ60-11005VP (50)	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	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	VC	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			
	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	C	0.66	84	49	39	33	25	19.6	16.3	13.1	9.8	2.2	1.5	1.1	0.90			
AITTJ60-11006VP (50)	20	UC	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	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	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	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			
	70	C	0.79	101	59	47	39	29	23	19.6	15.6	11.7	2.7	1.8	1.3	1.1			
AITTJ60-11008VP (50)	20	UC	0.57	73	42	34	28	21	16.8	12.6	2.9	1.9	1.4	1.2	0.97				
	30	XC	0.69	88	51	41	34	26	20	17.1	13.7	10.2	2.3	1.6	1.2	0.94			
	40	VC	0.80	102	59	48	40	30	24	19.8	15.8	11.9	2.7	1.8	1.4	1.09			
	50	VC	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			
AITTJ60-11010VP (50)	20	UC	1.13	145	84	67	56	42	34	28	22	16.8	3.8	2.6	1.9	1.5			
	30	UC	1.20	154	89	71	59	45	36	30	24	17.8	4.1	2.7	2.0	1.6			
	40	UC	0.71	91	53	42	35	26	21	17.6	14.1	10.5	2.4	1.6	1.2	0.97			
	50	UC	0.87	111	65	52	43	32	26	22	17.2	12.9	3.0	2.0	1.5	1.2			
	60	UC	1.00	128	74	59	50	37	30	25	19.8	14.9	3.4	2.3	1.7	1.4			
	70	UC	1.12	143	83	67	55	42	33	28	22	16.6	3.8	2.5	1.9	1.5			
AITTJ60-11015VP (50)	20	UC	1.32	156	91	72	60	45	36	30	24	18.1	4.1	2.8	2.1	1.7			
	30	UC	1.32	169	98	78	65	49	39	33	26	19.6	4.5	3.0	2.2	1.8			
	40	UC	1.41	180	105	84	70	52	42	35	28	21	4.8	3.2	2.4	1.9			
	50	UC	1.50	192	111	89	74	56	45	37	30	22	5.1	3.4	2.6	2.0			
	60	UC	1.06	136	79	63	52	39	31	26	21	15.7	3.6	2.4	1.8	1.4			
	70	UC	1.30	166	97	77	64	48	39	32	26	19.3	4.4	2.9	2.2	1.8			



CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
GOOD	EXCELLENT	EXCELLENT



Optimum Spray Height

110°	20"
0.97	0.97
1.2	1.2
1.4	1.4
1.5	1.5
1.6	1.6
1.7	1.7
1.8	1.8
1.9	1.9
2.0	2.0
2.1	2.1
2.2	2.2
2.3	2.3
2.4	2.4
2.5	2.5
2.6	2.6
2.7	2.7
2.8	2.8
2.9	2.9
3.0	3.0
3.1	3.1

How to order:

Specify tip number.

Example:

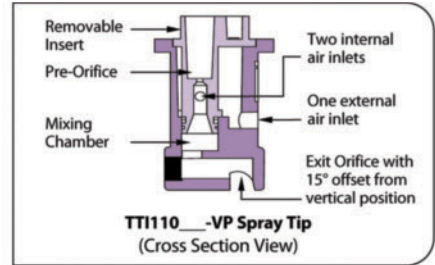
AITTJ60-11004VP – Polymer with VisiFlo® color-coding

AITTJ60-11004VP-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 (21°C).

TURBO TEEJET INDUCTION FLAT SPRAY TIPS

- 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 (1–7 bar)
- Automatic alignment when used with 25598*-NYR Quick TeeJet® cap and gasket



Note: Due to pre-orifice design, this tip is not compatible with the 4193A check valve tip strainer.

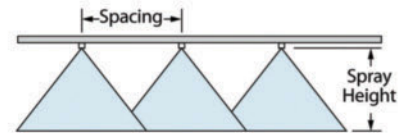


TIPOLOGY	PSI	DROPS PER GPM	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	20°										GALLONS PER 1000 SQ. FT.				
					GPA														
					4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH			
TTI110015 (100)	15	XC	0.092	12	6.8	5.5	4.6	3.4	2.7	2.3	1.8	1.4	0.31	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	XC	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	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			
	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			
TTI11002 (50)	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			
	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			
	30	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			
	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			
TTI110025 (50)	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	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			
	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			
	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			
TTI11003 (50)	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	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	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	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			
TTI11004 (50)	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			
	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			
	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	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			
TTI11005 (50)	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	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			
	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	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			
TTI11006 (50)	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			
	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			
	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	0.82			
TTI11005 (50)	100	XC	0.63	81	47	37	31	23	18.7	15.6	12.5	9.4	2.1	1.4	1.1	0.86			
	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	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	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			
TTI11006 (50)	70	XC	0.66	84	49	39	33	25	19.6	16.3	13.1	8.9	2.2	1.5	1.1	0.90			
	80	XC	0.71	91	53	42	35	27	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			
	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	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			
	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			
TTI11006 (50)	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	35	25	19.9	16.6	13.3	9.5	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	XC	0.85	109	63	50	42	32	25	21	16.8	12.6	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			

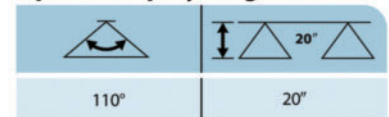
Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C).



CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
—	EXCELLENT	EXCELLENT



Optimum Spray Height



How to order:

Specify tip number.

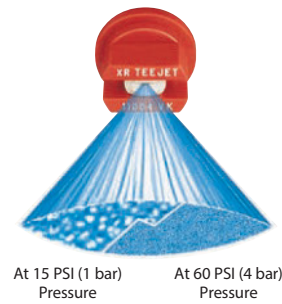
Example:

TTI11004-VP –



XR TEEJET EXTENDED RANGE FLAT SPRAY TIPS

- Excellent spray distribution over a wide range of pressures, 15 - 60 PSI (1 - 4 bar)
- Ideal for rigs equipped with sprayer controller
- 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
- XR80025 and XR80035 only available in VS
- Brass available in 110° only
- Automatic spray alignment with 25612-* NYR Quick TeeJet® cap and gasket
- Automatic spray alignment for sizes 10 and 15 with 25610-* NYR Quick TeeJet cap and gasket



Tip	PSI	DROP SIZE		CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	GPA										GALLONS PER 1000 SQ. FT.				
		80°	110°			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"										2 MPH	3 MPH	4 MPH	5 MPH	
XR8001 XR11001 (100)	15	F	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	F	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	M	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	M	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	M	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	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				
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	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	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	M	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	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	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				
XR80025 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	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	M	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			
	40	M	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	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	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				
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	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	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	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	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	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				
XR80035 (50)	15	M	C	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			
	20	M	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			
	30	M	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			
	40	M	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			
	50	M	C	0.39	50	29	23	19.3	14.5	11.6	9.7	7.7	5.8	1.3	0.88	0.66	0.53			
60	M	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				
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	M	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	F	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	F	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	M	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	F	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	M	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	M	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	M	F	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	M	M	0.80	102	59	48	40	30	24	19.8	15.8	11.9	2.7	1.8	1.4	1.1			
	50	M	M	0.89	114	66	53	44	33	26	22	17.6	13.2	3.0	2.0	1.5	1.2			
60	M	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	XC	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	XC	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	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	C	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																

XRC TEEJET EXTENDED RANGE FLAT SPRAY TIPS

- Excellent spray distribution over a wide range of pressures: 15–60 PSI (1–4 bar)
- 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



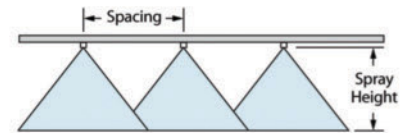
Icon	PSI	DROP SIZE		CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	20°										GALLONS PER 1000 SQ. FT.				
		80°	110°			GPA														
						4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH			
XRC80015 (100)	15	M		0.092	12	6.8	5.5	4.6	3.4	2.7	2.3	1.8	1.4	0.31	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	M	0.12	15	8.9	7.7	6.7	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	M	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			
XRC110025 (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	M	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			
XRC8003 XRC11003 (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	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	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	M	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	M	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			
XRC8004 XRC11004 (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	0.95	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			
XRC8005 XRC11005 (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			
XRC8006 XRC11006 (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	0.95	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	C	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	C	M	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	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			
XRC11010	15			0.61	78	45	36	30	23	18.1	15.1	12.1	9.1	2.1	1.4	1.0	0.83			
	20			0.71	91	53	42	35	26	21	17.6	14.1	10.5	2.4	1.6	1.2	0.97			
	30			0.87	111	65	52	43	32	26	22	17.2	12.9	3.0	2.0	1.5	1.2			
	40			1.00	128	74	59	50	37	30	25	19.8	14.9	3.4	2.3	1.7	1.4			
	50			1.12	143	83	67	55	42	33	28	22	16.6	3.8	2.5	1.9	1.5			
XRC11015	15			0.92	118	68	55	46	34	27	23	18.2	13.7	3.1	2.1	1.6	1.3			
	20			1.06	136	79	63	52	39	31	26	21	15.7	3.6	2.4	1.8	1.4			
	30			1.30	166	97	77	64	48	39	32	26	19.3	4.4	2.9	2.2	1.8			
	40			1.50	192	111	89	74	56	45	37	30	22	5.1	3.4	2.6	2.0			
	50			1.68	215	125	100	83	62	50	42	33	25	5.7	3.8	2.9	2.3			
XRC11020	15			1.22	156	91	72	60	45	36	30	24	18.1	4.1	2.8	2.1	1.7			
	20			1.41	180	105	84	70	52	42	35	28	21	4.8	3.2	2.4	1.9			
	30			1.73	221	128	103	86	64	51	43	34	26	5.9	3.9	2.9	2.4			
	40			2.00	256	149	119	99	74	59	50	40	30	6.8	4.5	3.4	2.7			
	50			2.24	287	166	133	111	83	67	55	44	33	7.6	5.1	3.8	3.0			
60			2.45	314	182	146	121	91	73	61	49	36	8.3	5.6	4.2	3.3				

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	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 VisiFlo color-coding
- XRC11004-VK – Ceramic with VisiFlo color-coding



AIXR TEEJET AIR INDUCTION XR FLAT SPRAY TIPS

- 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 UHMWPE 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 (1–6 bar)
- Automatic alignment when used with 25612*-NYR Quick TeeJet® cap and gasket



TIPOLOGY	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														
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	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
	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	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
	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	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
	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	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
	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	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
	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	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
	75	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	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
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															
AIXR11002 (50)	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	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	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	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	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	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	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	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	0.22	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	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	0.24	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	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
	75	C	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	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	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															
AIXR110025 (50)	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	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	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	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	0.22	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	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	0.25	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	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	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	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	0.31	40	23	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.1	0.70	0.53	0.42	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
	75	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	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	0.38	49	28	23	18.8	14.1	11.3	9.4	7.5	5.6	1.3	0.86	0.65	0.52															
AIXR11003 (50)	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	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
	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	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	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	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
	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	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
	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	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
	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	0.41	52	30	24	20	15.2	12.2	10.1	8.1	6.1	1.4	0.93	0.70	0.56
	75	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	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61
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															
AIXR11004 (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	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
	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	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	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48	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
	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	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61
	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	0.49	63	36	29	24	18.2	14.6	12.1	9.7	7.3	1.7	1.1	0.83	0.67
	60	VC	0.55	63	36	29	24	18.2	14.6	12.1	9.7	7.3	1.7	1.1	0.83	0.67	0.55	70	41	33	27	20	16.3	13.6	10.9	8.2	1.9	1.2	0.94	0.75
	75	C	0.59	70	41	33	27	20	16.3	13.6	10.9	8.2	1.9	1.2	0.94	0.75	0.60	77	45	36	30	22	17.8	14.9	11.9	8.9	2.0	1.4	1.0	0.82
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	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	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
	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	0.43	55	32	26	21	16.0	12.8	10.6	8.5	6.4	1.5	0.97	0.73	0.58
	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	0.50	64	37	30	25	18.6	14.9	12.4	9.9	7.4	1.7	1.1	0.85	0.68
	40	VC	0.56	72	42	33	28	21	16.6	13.9	11.1	8.3	1.9	1.3	0.95	0.76	0.61	78	45	36	30	23	18.1	15.1	12.1	9.1	2.1	1.4	1.0	0.83
	50	VC	0.61	78	45	36	30	23	18.1	15.1	12.1	9.1	2.1	1.4	1.0	0.83	0.68	87	50	40	34	25	20	16.8	13.5	10.1	2.3	1.5	1.2	0.92
	60	VC	0.68	87	50	40	34	25	20	16.8	13.5	10.1	2.3	1.5	1.2	0.92	0.75	96	56	45	37	28	22	18.6	14.9	11.1	2.6	1.7	1.3	1.0
	90	C	0.75	96	56	45	37	28	22	18.6	14.9	11.1	2.6	1.7	1.3	1.0														
AIXR11006 (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	0.42	54	31	25	21	15.6	12.5	10.4	8.3	6.2	1.4	0.95	0.71	

AI TEEJET AIR INDUCTION FLAT SPRAY TIPS

- 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
- Larger droplets for less drift
- Available in eight capacities with a recommended pressure rating 30–115 PSI (2–8 bar)
- Depending on the chemical, produces large air-filled drops through the use of a Venturi air aspirator
- Automatic spray alignment with 25598-*-NYR Quick TeeJet® cap and gasket



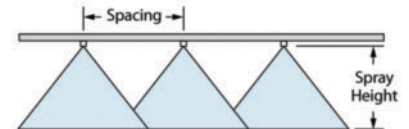
TIPO	PSI	DROPSIZE	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	20°																																																																																																																															
					GPA								GALLONS PER 1000 SQ. FT.																																																																																																																							
					4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH																																																																																																																				
AI80015 AI110015 (100)	30	VC	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	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	50	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	60	C	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	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	80	C	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	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				
	AI8002 AI11002 (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	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	50	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	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	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	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	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	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			
		AI80025 AI110025 (50)	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	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	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	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	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	0.35	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	0.38	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		
			AI8003 AI11003 (50)	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	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	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	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	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	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	
				AI8004 AI11004 (50)	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	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	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	C	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
					AI8005 AI11005 (50)	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	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	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
AI8006 AI11006 (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	70	VC	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	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
	AI11008 (50)					30	XC	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	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

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

AIC TEEJET AIR INDUCTION FLAT SPRAY TIPS

- Produces a 110° tapered edge flat spray pattern for uniform coverage in broadcast spraying applications.
- Available with a polymer insert holder with stainless steel (015–15 capacities), ceramic (025–05 capacities) or polymer (02–10 capacities) inserts.

- Larger droplets for less drift.
- Depending on the chemical, produces large air-filled drops through the use of a Venturi air aspirator.
- AI TeeJet nozzle molded into Quick TeeJet cap provides automatic spray alignment.
- Includes tightly fitting washer that stays in place and assures a good seal.
- Recommended pressure rating 30–115 PSI (2–8 bar).

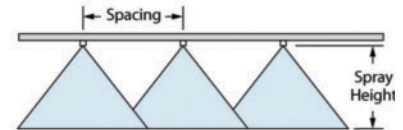


Note: Due to the pre-orifice design, this tip is not compatible with the 4193A check valve tip strainer.

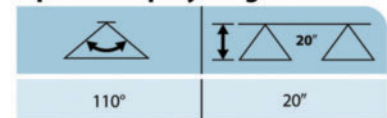
TIPO	PSI	DROP SIZE	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	GPA										GALLONS PER 1000 SQ. FT.				
					20°														
					4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH			
AIC110015 (100)	30	VC	0.13	17	9.7	7.7	6.4	4.8	3.9	3.2	2.6	1.9	0.44	0.29	0.22	0.18			
	40	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			
	50	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			
	60	C	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	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			
	80	C	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)	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	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			
	50	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			
	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	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			
	80	C	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			
AIC110025 (50)	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			
	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	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			
	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			
	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			
AIC11003 (50)	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	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	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			
	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			
AIC11004 (50)	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			
	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			
	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			
AIC11005 (50)	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			
	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			
	80	VC	0.71	91	53	42	35	26	21	17.6	14.1	10.5	2.4	1.6	1.2	0.97			
AIC11006 (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			
	70	VC	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			
AIC11008 (50)	30	XC	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	VC	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			
	80	VC	1.13	145	84	67	56	42	34	28	22	16.8	3.8	2.6	1.9	1.5			
AIC11010	30	VC	1.20	154	89	71	59	45	36	30	24	17.8	4.1	2.7	2.0	1.6			
	40	VC	1.26	161	94	75	62	47	37	31	25	18.7	4.3	2.9	2.1	1.7			
	50	VC	1.32	169	98	78	65	49	39	33	26	19.6	4.5	3.0	2.2	1.8			
	60	VC	1.41	180	105	84	70	52	42	35	28	21	4.8	3.2	2.4	1.9			
	70	VC	1.50	192	111	89	74	56	45	37	30	22	5.1	3.4	2.6	2.0			
	80	VC	1.58	202	117	94	78	59	47	39	31	23	5.4	3.6	2.7	2.1			



CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
GOOD	EXCELLENT	EXCELLENT



Optimum Spray Height



How to order:

Specify tip number.

Examples:

- AIC11004-VS – Stainless Steel with VisiFlo® color-coding
- AIC11003-VP – Polymer with VisiFlo color-coding
- AIC11003-VK – Ceramic with VisiFlo color-coding

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C).



TWINJET TWIN FLAT SPRAY TIPS

- Penetrates crop residue or dense foliage
- Smaller droplets for thorough coverage
- Better spray distribution along boom than with hollow cone nozzles
- Available in stainless steel with VisiFlo® color-coding in 65°, 80° and 110° spray angles
- Recommended pressure rating 30–60 PSI (2–4 bar)
- Automatic spray alignment with 25598-®-NYR Quick TeeJet® cap and gasket

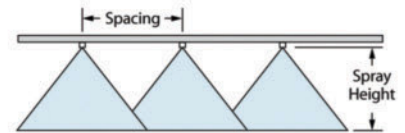


PSI	DROP SIZE		CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	GPA								GALLONS PER 1000 SQ. FT.			
	80°	T10°			20°								2 MPH	3 MPH	4 MPH	5 MPH
					4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH				
TJ60-6501	VF		0.087	11	6.5	5.2	4.3	3.2	2.6	2.2	1.7	1.3	0.30	0.20	0.15	0.12
TJ60-8001 (100)	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
	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
TJ60-650134 (100)			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
			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
TJ60-6502	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
TJ60-8002	F	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
TJ60-11002 (100)	F	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
	F	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
	F	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
TJ60-6503	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
TJ60-8003	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
TJ60-11003 (100)	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
	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
	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
TJ60-6504	M	F	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
TJ60-8004	M	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
TJ60-11004 (50)	F	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	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
	F	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
TJ60-8005	M	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
TJ60-11005 (50)	M	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	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
	F	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	F	0.61	78	45	36	30	23	18.1	15.1	12.1	9.1	2.1	1.4	1.04	0.83
TJ60-6506	M	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
TJ60-8006	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
TJ60-11006 (50)	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
	M	F	0.67	86	50	40	33	25	19.9	16.6	13.3	9.9	2.3	1.5	1.1	0.91
	M	F	0.73	93	54	43	36	27	22	18.1	14.5	10.8	2.5	1.7	1.2	0.99
TJ60-6508	C	M	0.69	88	51	41	34	26	20	17.1	13.7	10.2	2.3	1.6	1.2	0.94
TJ60-8008	M	M	0.75	96	56	45	37	28	22	18.6	14.9	11.1	2.6	1.7	1.3	1.0
TJ60-11008 (50)	M	M	0.80	102	59	48	40	30	24	19.8	15.8	11.9	2.7	1.8	1.4	1.1
	M	M	0.89	114	66	53	44	33	26	22	17.6	13.2	3.0	2.0	1.5	1.2
	M	M	0.98	125	73	58	49	36	29	24	19.4	14.6	3.3	2.2	1.7	1.3
TJ60-8010	C	M	0.87	111	65	52	43	32	26	22	17.2	12.9	3.0	2.0	1.5	1.2
TJ60-11010 (50)	C	M	0.94	120	70	56	47	35	28	23	18.6	14.0	3.2	2.1	1.6	1.3
	C	M	1.00	128	74	59	50	37	30	25	19.8	14.9	3.4	2.3	1.7	1.4
	M	M	1.12	143	83	67	55	42	33	28	22	16.6	3.8	2.5	1.9	1.5
	M	M	1.22	156	91	72	60	45	36	30	24	18.1	4.1	2.8	2.1	1.7

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	—	—



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

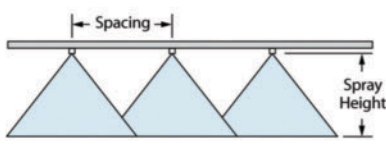


VISIFLO® FLAT SPRAY TIPS

- 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 25612*-NYR Quick TeeJet® cap and gasket
- Automatic spray alignment for sizes 10 through 20 with 25610*-NYR Quick TeeJet cap and gasket



Tip Part Number	PSI	DROP SIZE		CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	20°										GALLONS PER 1000 SQ. FT.				
		80°	110°			GPA										2 MPH	3 MPH	4 MPH	5 MPH	
						4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 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			
	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			
	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			
	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			
	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	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	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	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	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			
	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			
TP65015†	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			
TP80015	35	F	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	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			
TP6502†	30	M	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			
TP8002	35	M	F	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	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			
TP6503†	30	M	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			
TP8003	35	M	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			
TP11003	40	M	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	M	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			
TP6504†	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			
TP8004	35	M	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	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			
TP6505†	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			
TP8005	35	M	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	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			
TP6506†	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			
TP8006	35	C	M	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	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			
TP6508†	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			
TP8008	35	C	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	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			
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			
	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			
	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			
	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			
	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			
	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			
	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
 - TP11001VK – Ceramic with VisiFlo polymer color-coding
 - TP11002-HSS – Hardened Stainless Steel
 - TP8002-SS – Stainless Steel
 - TP8002 – Brass

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C).
† Available in brass and/or stainless steel and/or hardened stainless steel.



DOUBLE OUTLET FLAT SPRAY TIPS

150° Series Stainless Steel and Brass

Suggested for post-directed application with hose drops.

How to order:

Specify tip number and material.
Example: TQ150-03-SS –
Stainless Steel



PSI	CAPACITY ONE NOZZLE IN GPM	GPA Δ 20° Δ											
		4 MPH	5 MPH	6 MPH	7 MPH	8 MPH	9 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	
20	0.071	5.3	4.2	3.5	3.0	2.6	2.3	2.1	1.8	1.5	1.3	1.2	
25	0.079	5.9	4.7	3.9	3.4	2.9	2.6	2.3	2.0	1.7	1.5	1.3	
30	0.087	6.5	5.2	4.3	3.7	3.2	2.9	2.6	2.2	1.8	1.6	1.4	
40	0.10	7.4	5.9	5.0	4.2	3.7	3.3	3.0	2.5	2.1	1.9	1.7	
50	0.11	8.2	6.5	5.4	4.7	4.1	3.6	3.3	2.7	2.3	2.0	1.8	
20	0.11	8.2	6.5	5.4	4.7	4.1	3.6	3.3	2.7	2.3	2.0	1.8	
25	0.12	8.9	7.1	5.9	5.1	4.5	4.0	3.6	3.0	2.5	2.2	2.0	
30	0.13	9.7	7.7	6.4	5.5	4.8	4.3	3.9	3.2	2.8	2.4	2.1	
40	0.15	11.1	8.9	7.4	6.4	5.6	5.0	4.5	3.7	3.2	2.8	2.5	
50	0.17	12.6	10.1	8.4	7.2	6.3	5.6	5.0	4.2	3.6	3.2	2.8	
20	0.14	10.4	8.3	6.9	5.9	5.2	4.6	4.2	3.5	3.0	2.6	2.3	
25	0.16	11.9	9.5	7.9	6.8	5.9	5.3	4.8	4.0	3.4	3.0	2.6	
30	0.17	12.6	10.1	8.4	7.2	6.3	5.6	5.0	4.2	3.6	3.2	2.8	
40	0.20	14.9	11.9	9.9	8.5	7.4	6.6	5.9	5.0	4.2	3.7	3.3	
50	0.22	16.3	13.1	10.9	9.3	8.2	7.3	6.5	5.4	4.7	4.1	3.6	
20	0.21	15.6	12.5	10.4	8.9	7.8	6.9	6.2	5.2	4.5	3.9	3.5	
25	0.24	17.8	14.3	11.9	10.2	8.9	7.9	7.1	5.9	5.1	4.5	4.0	
30	0.26	19.3	15.4	12.9	11.0	9.7	8.6	7.7	6.4	5.5	4.8	4.3	
40	0.30	22	17.8	14.9	12.7	11.1	9.9	8.9	7.4	6.4	5.6	5.0	
50	0.34	25	20	16.8	14.4	12.6	11.2	10.1	8.4	7.2	6.3	5.6	
20	0.28	21	16.6	13.9	11.9	10.4	9.2	8.3	6.9	5.9	5.2	4.6	
25	0.32	24	19.0	15.8	13.6	11.9	10.6	9.5	7.9	6.8	5.9	5.3	
30	0.35	26	21	17.3	14.9	13.0	11.6	10.4	8.7	7.4	6.5	5.8	
40	0.40	30	24	19.8	17.0	14.9	13.2	11.9	9.9	8.5	7.4	6.6	
50	0.45	33	27	22	19.1	16.7	14.9	13.4	11.1	9.5	8.4	7.4	
20	0.35	26	21	17.3	14.9	13.0	11.6	10.4	8.7	7.4	6.5	5.8	
25	0.40	30	24	19.8	17.0	14.9	13.2	11.9	9.9	8.5	7.4	6.6	
30	0.43	32	26	21	18.2	16.0	14.2	12.8	10.6	9.1	8.0	7.1	
40	0.50	37	30	25	21	18.6	16.5	14.9	12.4	10.6	9.3	8.3	
50	0.56	42	33	28	24	21	18.5	16.6	13.9	11.9	10.4	9.2	
20	0.42	31	25	21	17.8	15.6	13.9	12.5	10.4	8.9	7.8	6.9	
25	0.47	35	28	23	19.9	17.4	15.5	14.0	11.6	10.0	8.7	7.8	
30	0.52	39	31	26	22	19.3	17.2	15.4	12.9	11.0	9.7	8.6	
40	0.60	45	36	30	25	22	19.8	17.8	14.9	12.7	11.1	9.9	
50	0.67	50	40	33	28	25	22	19.9	16.6	14.2	12.4	11.1	
20	0.57	42	34	28	24	21	18.8	16.9	14.1	12.1	10.6	9.4	
25	0.63	47	37	31	27	23	21	18.7	15.6	13.4	11.7	10.4	
30	0.69	51	41	34	29	26	23	20	17.1	14.6	12.8	11.4	
40	0.80	59	48	40	34	30	26	24	19.8	17.0	14.9	13.2	
50	0.89	66	53	44	38	33	29	26	22	18.9	16.5	14.7	
20	0.64	48	38	32	27	24	21	19.0	15.8	13.6	11.9	10.6	
25	0.71	53	42	35	30	26	23	21	17.6	15.1	13.2	11.7	
30	0.78	58	46	39	33	29	26	23	19.3	16.5	14.5	12.9	
40	0.90	67	53	45	38	33	30	27	22	19.1	16.7	14.9	
50	1.01	75	60	50	43	37	33	30	25	21	18.7	16.7	

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C).

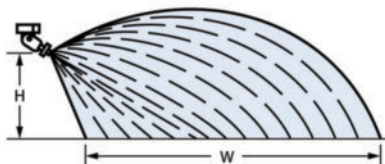
SMALLER CAPACITY OFF-CENTER FLAT SPRAY TIPS

TeeJet Off-Center spray tips are commonly installed in double and single swivel nozzle bodies. Because these bodies are adjustable for angular position, a wide spray swath is easily obtained.



How to order:

Specify tip number and material.
Example: OC-02 – Brass
OC-SS06 – Stainless Steel



PSI	CAPACITY ONE NOZZLE IN GPM	"W" IN INCHES	HEIGHT = 18"				HEIGHT = 24"				
			GPA				GPA				
			3 MPH	4 MPH	5 MPH	6 MPH	3 MPH	4 MPH	5 MPH	6 MPH	
30	0.087	58	3.0	2.2	1.8	1.5	65	2.7	2.0	1.6	1.3
40	0.10	60	3.3	2.5	2.0	1.7	67	3.0	2.2	1.8	1.5
60	0.12	62	3.8	2.9	2.3	1.9	69	3.4	2.6	2.1	1.7
30	0.17	68	5.0	3.7	3.0	2.5	75	4.5	3.4	2.7	2.2
40	0.20	70	5.7	4.2	3.4	2.8	77	5.1	3.9	3.1	2.6
60	0.24	72	6.6	5.0	4.0	3.3	78	6.1	4.6	3.7	3.0
30	0.26	77	6.7	5.0	4.0	3.3	80	6.4	4.8	3.9	3.2
40	0.30	80	7.4	5.6	4.5	3.7	83	7.2	5.4	4.3	3.6
60	0.37	82	8.9	6.7	5.4	4.5	85	8.6	6.5	5.2	4.3
30	0.35	91	7.6	5.7	4.6	3.8	93	7.5	5.6	4.5	3.7
40	0.40	93	8.5	6.4	5.1	4.3	94	8.4	6.3	5.1	4.2
60	0.49	94	10.3	7.7	6.2	5.2	95	10.2	7.7	6.1	5.1
30	0.52	99	10.4	7.8	6.2	5.2	108	9.5	7.2	5.7	4.8
40	0.60	101	11.8	8.8	7.1	5.9	110	10.8	8.1	6.5	5.4
60	0.73	102	14.2	10.6	8.5	7.1	111	13.0	9.8	7.8	6.5
30	0.69	100	13.7	10.2	8.2	6.8	110	12.4	9.3	7.5	6.2
40	0.80	102	15.5	11.6	9.3	7.8	112	14.1	10.6	8.5	7.1
60	0.98	104	18.7	14.0	11.2	9.3	113	17.2	12.9	10.3	8.6
30	1.04	102	20	15.1	12.1	10.1	113	18.2	13.7	10.9	9.1
40	1.20	104	23	17.1	13.7	11.4	115	21	15.5	12.4	10.3
60	1.47	105	28	21	16.6	13.9	116	25	18.8	15.1	12.5
30	1.39	132	21	15.6	12.5	10.4	142	19.4	14.5	11.6	9.7
40	1.60	138	23	17.2	13.8	11.5	146	22	16.3	13.0	10.8
60	1.96	143	27	20	16.3	13.6	148	26	19.7	15.7	13.1

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C).



TURBO FLOODJET WIDE ANGLE FLAT SPRAY TIPS

- 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

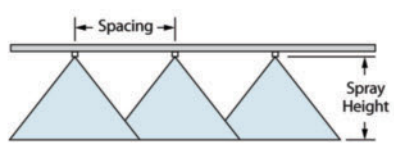
QCT Cam-Loc Adapter

- Provides easy changeover from high capacity to lower capacity nozzles
- Adapter fits standard 3/4" quick connect Cam-Loc holders
- 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

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			
10	XC	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			
				10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1	0.95	0.63	0.48	0.38			
				13.0	10.4	8.7	6.5	5.2	4.3	3.5	2.6	1.2	0.79	0.60	0.48			
				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	XC	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			
				13.0	10.4	8.7	6.5	5.2	4.3	3.5	2.6	1.2	0.79	0.60	0.48			
				16.0	12.8	10.6	8.0	6.4	5.3	4.3	3.2	1.5	0.97	0.73	0.58			
				18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	1.7	1.1	0.85	0.68			
30	XC	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			
				15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	1.4	0.95	0.71	0.57			
				19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	1.8	1.2	0.88	0.71			
				22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	2.0	1.4	1.0	0.82			
40	XC	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			
				21	16.9	14.1	10.6	8.5	7.1	5.6	4.2	1.9	1.3	0.97	0.78			
				26	20	17.1	12.8	10.2	8.5	6.8	5.1	2.3	1.6	1.2	0.94			
				30	24	19.8	14.9	11.9	9.9	7.9	5.9	2.7	1.8	1.4	1.1			
10	XC	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			
				26	21	17.6	13.2	10.5	8.8	7.0	5.3	2.4	1.6	1.2	0.97			
				32	26	22	16.1	12.9	10.8	8.6	6.5	3.0	2.0	1.5	1.2			
				37	30	25	18.6	14.9	12.4	9.9	7.4	3.4	2.3	1.7	1.4			
20	XC	0.75	96	28	22	18.6	13.9	11.1	9.3	7.4	5.6	2.6	1.7	1.3	1.0			
				39	31	26	19.7	15.7	13.1	10.5	7.9	3.6	2.4	1.8	1.4			
				48	39	32	24	19.3	16.1	12.9	9.7	4.4	2.9	2.2	1.8			
				56	45	37	28	22	18.6	14.9	11.1	5.1	3.4	2.6	2.0			
30	XC	1.00	128	37	30	25	18.6	14.9	12.4	9.9	7.4	3.4	2.3	1.7	1.4			
				52	42	35	26	21	17.4	14.0	10.5	4.8	3.2	2.4	1.9			
				64	51	43	32	26	21	17.1	12.8	5.9	3.9	2.9	2.4			
				74	59	50	37	30	25	19.8	14.9	6.8	4.5	3.4	2.7			



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

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). †Specify material.



TURFJET WIDE ANGLE FLAT FAN SPRAY NOZZLES

- Can be used with Quick TeeJet® cap QJ4676-®-NYR
- Very large droplets
- Direct replacement for plastic hollow-cone, low-drift nozzles
- More precise flow and distribution pattern
- Large orifice reduces clogging
- Nozzle spacing — 20–40" (50–100 cm)
- Spraying pressure — 25–75 PSI (1.5–5 bar)



QJ4676-90-1/4-NYR

- 90° fitting attaches to Quick TeeJet bodies—1/4" female threaded outlet
- Simple installation of TurfJet nozzles on vertical nozzle bodies
- Nylon construction

QJ4676-90-1/4-NYR

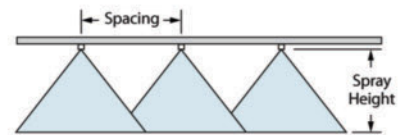


NOZZLE	PSI	DROP SIZE	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	40"								20"									
					GPA													GALLONS PER 1000 SQ. FT.				
					4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH						
1/4TTJ02 (50)	25	XC	0.16	20	5.9	4.8	4.0	3.0	2.4	2.0	1.6	1.2	0.54	0.36	0.27	0.22						
	30	XC	0.17	22	6.3	5.0	4.2	3.2	2.5	2.1	1.7	1.3	0.58	0.39	0.29	0.23						
	40	XC	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						
	50	XC	0.22	28	8.2	6.5	5.4	4.1	3.3	2.7	2.2	1.6	0.75	0.50	0.37	0.30						
	60	XC	0.24	31	8.9	7.1	5.9	4.5	3.6	3.0	2.4	1.8	0.82	0.54	0.41	0.33						
75	XC	0.27	35	10.0	8.0	6.7	5.0	4.0	3.3	2.7	2.0	0.92	0.61	0.46	0.37							
1/4TTJ04 (50)	25	XC	0.32	41	11.9	9.5	7.9	5.9	4.8	4.0	3.2	2.4	1.1	0.73	0.54	0.44						
	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	XC	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						
	50	XC	0.45	58	16.7	13.4	11.1	8.4	6.7	5.6	4.5	3.3	1.5	1.0	0.77	0.61						
	60	XC	0.49	63	18.2	14.6	12.1	9.1	7.3	6.1	4.9	3.6	1.7	1.1	0.83	0.67						
75	XC	0.55	70	20	16.3	13.6	10.2	8.2	6.8	5.4	4.1	1.9	1.2	0.94	0.75							
1/4TTJ05 (50)	25	XC	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						
	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						
	40	XC	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						
	50	XC	0.56	72	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	1.9	1.3	0.95	0.76						
	60	XC	0.61	78	23	18.1	15.1	11.3	9.1	7.5	6.0	4.5	2.1	1.4	1.0	0.83						
75	XC	0.68	87	25	20	16.8	12.6	10.1	8.4	6.7	5.0	2.3	1.5	1.2	0.92							
1/4TTJ06 (50)	25	XC	0.47	60	17.4	14.0	11.6	8.7	7.0	5.8	4.7	3.5	1.6	1.1	0.80	0.64						
	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						
	40	XC	0.60	77	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	2.0	1.4	1.0	0.82						
	50	XC	0.67	86	25	19.9	16.6	12.4	9.9	8.3	6.6	5.0	2.3	1.5	1.1	0.91						
	60	XC	0.73	93	27	22	18.1	13.6	10.8	9.0	7.2	5.4	2.5	1.7	1.2	0.99						
75	XC	0.82	105	30	24	20	15.2	12.2	10.1	8.1	6.1	2.8	1.9	1.4	1.1							
1/4TTJ08	25	XC	0.63	81	23	18.7	15.6	11.7	9.4	7.8	6.2	4.7	2.1	1.4	1.1	0.86						
	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						
	40	XC	0.80	102	30	24	19.8	14.9	11.9	9.9	7.9	5.9	2.7	1.8	1.4	1.1						
	50	XC	0.89	114	33	26	22	16.5	13.2	11.0	8.8	6.6	3.0	2.0	1.5	1.2						
	60	XC	0.98	125	36	29	24	18.2	14.6	12.1	9.7	7.3	3.3	2.2	1.7	1.3						
75	XC	1.10	141	41	33	27	20	16.3	13.6	10.9	8.2	3.7	2.5	1.9	1.5							
1/4TTJ10	25	XC	0.79	101	29	23	19.6	14.7	11.7	9.8	7.8	5.9	2.7	1.8	1.3	1.1						
	30	XC	0.87	111	32	26	22	16.1	12.9	10.8	8.6	6.5	3.0	2.0	1.5	1.2						
	40	XC	1.00	128	37	30	25	18.6	14.9	12.4	9.9	7.4	3.4	2.3	1.7	1.4						
	50	XC	1.12	143	42	33	28	21	16.6	13.9	11.1	8.3	3.8	2.5	1.9	1.5						
	60	XC	1.22	156	45	36	30	23	18.1	15.1	12.1	9.1	4.1	2.8	2.1	1.7						
75	XC	1.37	175	51	41	34	25	20	17.0	13.6	10.2	4.7	3.1	2.3	1.9							
1/4TTJ15	25	XC	1.19	152	44	35	29	22	17.7	14.7	11.8	8.8	4.0	2.7	2.0	1.6						
	30	XC	1.30	166	48	39	32	24	19.3	16.1	12.9	9.7	4.4	2.9	2.2	1.8						
	40	XC	1.50	192	56	45	37	28	22	18.6	14.9	11.1	5.1	3.4	2.6	2.0						
	50	XC	1.68	215	62	50	42	31	25	21	16.6	12.5	5.7	3.8	2.9	2.3						
	60	XC	1.84	236	68	55	46	34	27	23	18.2	13.7	6.3	4.2	3.1	2.5						
75	XC	2.05	262	76	61	51	38	30	25	20	15.2	7.0	4.6	3.5	2.8							

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

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.

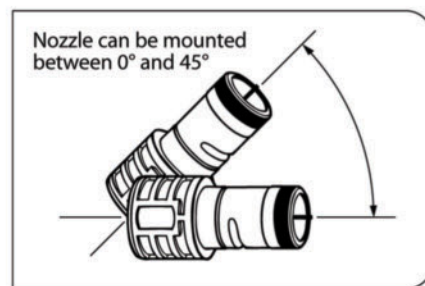
Examples:

1/4TTJ04-VS – Stainless Steel with VisiFlo® color-coding

1/4TTJ06-VP – Polymer with VisiFlo® color-coding



QUICK TURBO FLOODJET WIDE ANGLE FLAT SPRAY TIPS

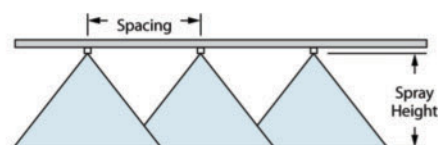


The revolutionary Quick Turbo FloodJet nozzle combines the precision and uniformity of a flat spray nozzle with the clog-resistance and wide angle pattern of flooding nozzles. It uses an exclusive new design to increase droplet size and distribution uniformity.

- Patented turbulence chamber creates a dramatic improvement in pattern uniformity
- Pre-orifice design produces larger droplets for reduced drift
- Large, round orifice reduces clogging
- Grooved side molding for automatic alignment with any quick-connect coupler
- Stainless steel with color-coding for easy size identification

SOIL INCORPORATED	PRE-EMERGENCE	DRIFT MANAGEMENT
EXCELLENT	EXCELLENT	EXCELLENT

- Available in standard sizes from 1.5 GPM up to 24.0 GPM (6.84 l/min to 94.73 l/min) at pressures of 10–40 PSI (1–3 bar)



How to order:

Specify tip number.
 Example:
 QCTF-VS40 – Stainless Steel with VisiFlo® color-coding

Optimum Spray Height*

40"	40"
60"	60"

*When nozzle is mounted parallel to the ground.

NOZZLE	PSI	CAPACITY ONE NOZZLE IN GPM	GPA 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).



CONEJET CONE SPRAY TIPS

TX CONEJET

- VisiFlo2 color-coded version consists of stainless steel or ceramic orifice in polypropylene body
- Spraying pressure: 30-300 PSI (2-20 bar)
- Ideal for banding with two or three nozzles over the row
- Finely atomized spray pattern provides thorough coverage



How to order:

Specify tip number, material

Examples:

- TX-VS4–Stainless steel with VisiFlo color-coding
- TX-VK4–Ceramic with VisiFlo color-coding
- TX-SS4–Stainless steel
- TX-4–Brass



TXA & TXB CONEJET

- Polypropylene body and ceramic orifice insert for long wear life
- Resists corrosion
- Accepts more abrasive materials
- Popular nozzle sizes fit most sprayers
- Operating pressures to 300 PSI (20 bar)
- Incorporates ISO color-coding scheme
- Ideal for banding with two or three nozzles over the row
- Finely atomized spray pattern provides thorough coverage



How to order:

Specify tip number

Examples:

- TXA8004VK–Ceramic with VisiFlo color-coding
- TXB8004VK–Ceramic with VisiFlo color-coding



TXR-VK CONEJET TIPS

- 12 capacities - ceramic orifice and core plate
- Direct replacement for Albus ATR
- Maximum 360 PSI
- Easy cleaning and inspection



Tip	PSI	GPM	GPA									
			4 MPH	6 MPH	8 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH	
TX-3	40	0.050	2.5	1.7	1.2	1.0	0.83	0.71	0.62	0.55	0.50	
TX-V*3	60	0.060	3.0	2.0	1.5	1.2	1.0	0.85	0.74	0.66	0.59	
TXA800050VK TXB800050VK [50]	80	0.068	3.4	2.2	1.7	1.3	1.1	1.0	0.84	0.75	0.67	
	100	0.075	3.7	2.5	1.9	1.5	1.2	1.1	0.93	0.83	0.74	
	125	0.082	4.1	2.7	2.0	1.6	1.4	1.2	1.0	0.90	0.81	
TX-4	40	0.067	3.3	2.2	1.7	1.3	1.1	0.95	0.83	0.74	0.66	
TX-V*4	60	0.080	4.0	2.6	2.0	1.6	1.3	1.1	1.0	0.88	0.79	
TXA800067VK TXB800067VK [50]	80	0.091	4.5	3.0	2.3	1.8	1.5	1.3	1.1	1.0	0.90	
	100	0.10	5.0	3.3	2.5	2.0	1.7	1.4	1.2	1.1	1.0	
	125	0.11	5.4	3.6	2.7	2.2	1.8	1.6	1.4	1.2	1.1	
TX-6	40	0.10	5.0	3.3	2.5	2.0	1.7	1.4	1.2	1.1	1.0	
TX-V*6	60	0.12	5.9	4.0	3.0	2.4	2.0	1.7	1.5	1.3	1.2	
TXA8001VK TXB8001VK [50]	80	0.14	6.9	4.6	3.5	2.8	2.3	2.0	1.7	1.5	1.4	
	100	0.15	7.4	5.0	3.7	3.0	2.5	2.1	1.9	1.7	1.5	
	125	0.17	8.4	5.6	4.2	3.4	2.8	2.4	2.1	1.9	1.7	
TX-8	40	0.13	6.4	4.3	3.2	2.6	2.1	1.8	1.6	1.4	1.3	
	60	0.16	7.9	5.3	4.0	3.2	2.6	2.3	2.0	1.8	1.6	
TX-V*8 [50]	80	0.19	9.4	6.3	4.7	3.8	3.1	2.7	2.4	2.1	1.9	
	100	0.21	10.4	6.9	5.2	4.2	3.5	3.0	2.6	2.3	2.1	
	125	0.23	11.4	7.6	5.7	4.6	3.8	3.3	2.8	2.5	2.3	
TXA80015VK TXB80015VK [50]	40	0.15	7.4	5.0	3.7	3.0	2.5	2.1	1.9	1.7	1.5	
	60	0.18	8.9	5.9	4.5	3.6	3.0	2.5	2.2	2.0	1.8	
	80	0.21	10.4	6.9	5.2	4.2	3.5	3.0	2.6	2.3	2.1	
	100	0.23	11.4	7.6	5.7	4.6	3.8	3.3	2.8	2.5	2.3	
	125	0.26	12.9	8.6	6.4	5.1	4.3	3.7	3.2	2.9	2.6	
TX-10	40	0.17	8.4	5.6	4.2	3.4	2.8	2.4	2.1	1.9	1.7	
	60	0.20	9.9	6.6	5.0	4.0	3.3	2.8	2.5	2.2	2.0	
TX-V*10	80	0.23	11.4	7.6	5.7	4.6	3.8	3.3	2.8	2.5	2.3	
	100	0.26	12.9	8.6	6.4	5.1	4.3	3.7	3.2	2.9	2.6	
	125	0.29	14.4	9.6	7.2	5.7	4.8	4.1	3.6	3.2	2.9	
TX-12	40	0.20	9.9	6.6	5.0	4.0	3.3	2.8	2.5	2.2	2.0	
TX-V*12	60	0.24	11.9	7.9	5.9	4.8	4.0	3.4	3.0	2.6	2.4	
TXA8002VK TXB8002VK [50]	80	0.28	13.9	9.2	6.9	5.5	4.6	4.0	3.5	3.1	2.8	
	100	0.31	15.3	10.2	7.7	6.1	5.1	4.4	3.8	3.4	3.1	
	125	0.34	16.8	11.2	8.4	6.7	5.6	4.8	4.2	3.7	3.4	
TX-18	40	0.30	14.9	9.9	7.4	5.9	5.0	4.2	3.7	3.3	3.0	
TX-V*18	60	0.37	18.3	12.2	9.2	7.3	6.1	5.2	4.6	4.1	3.7	
TXA8003VK TXB8003VK [50]	80	0.42	21	13.9	10.4	8.3	6.9	5.9	5.2	4.6	4.2	
	100	0.47	23	15.5	11.6	9.3	7.8	6.6	5.8	5.2	4.7	
	125	0.53	26	17.5	13.1	10.5	8.7	7.5	6.6	5.8	5.2	
TXA8004VK TXB8004VK [50]	40	0.40	19.8	13.2	9.9	7.9	6.6	5.7	5.0	4.4	4.0	
	60	0.49	24	16.2	12.1	9.7	8.1	6.9	6.1	5.4	4.9	
	80	0.56	28	18.5	13.9	11.1	9.2	7.9	6.9	6.2	5.5	
	100	0.63	31	21	15.6	12.5	10.4	8.9	7.8	6.9	6.2	
	125	0.70	35	23	17.3	13.9	11.6	9.9	8.7	7.7	6.9	
TX-26	40	0.43	21	14.2	10.6	8.5	7.1	6.1	5.3	4.7	4.3	
	60	0.53	26	17.5	13.1	10.5	8.7	7.5	6.6	5.8	5.2	
	80	0.61	30	20	15.1	12.1	10.1	8.6	7.5	6.7	6.0	
TX-V*26 [50]	100	0.68	34	22	16.8	13.5	11.2	9.6	8.4	7.5	6.7	
	125	0.76	38	25	18.8	15.0	12.5	10.7	9.4	8.4	7.5	

Note: Always double check your application rates. *Specify material

FULL CONE SPRAY TIP

Provides coarse spray with full cone pattern. Used frequently for tobacco plant sucker control.

- Larger, penetrating droplets
- Excellent for systemic growth regulators
- Typically used in 3 nozzles over the row configuration
- Spraying pressure: 20-80 PSI (1.5-5.5 bar)



STREAMJET SJ-3 FERTILIZER NOZZLES



- VisiFlo® color-coding system
- 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 in. (50 cm) height
- Use with Quick TeeJet® cap 25598-*,NYR

- All acetal construction for excellent chemical resistance
- Recommended operating pressure: 20–60 PSI (1.5–4 bar)

Optimum Spray Height

20"	20"
30"	30"
40"	40"



How to order:

Specify tip number.

Example:

SJ3-03-VP – Polymer with VisiFlo color-coding

Nozzle Model	PSI	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
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).



STREAMJET SJ-7 FERTILIZER NOZZLES

Typical Application:

- Excellent for application of liquid fertilizer
- 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 (1.5–4 bar)

How to order:
Specify nozzle number.
Example: SJ7-04-VP

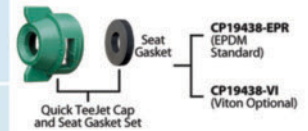
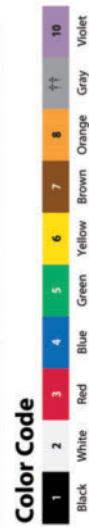
Optimum Spray Height

20"	20"
30"	30"
40"	40"



Nozzle Model	PSI	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
	60	0.18	17.8	13.4	10.7	8.9	6.7	5.3	4.5	3.8	3.3	3.0	2.7
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
	60	0.25	25	18.6	14.9	12.4	9.3	7.4	6.2	5.3	4.6	4.1	3.7
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
	60	0.35	35	26	21	17.3	13.0	10.4	8.7	7.4	6.5	5.8	5.2
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
	60	0.46	46	34	27	23	17.1	13.7	11.4	9.8	8.5	7.6	6.8
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
	60	0.58	57	43	34	29	22	17.2	14.4	12.3	10.8	9.6	8.6
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
	60	0.70	69	52	42	35	26	21	17.3	14.9	13.0	11.6	10.4
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
	60	0.93	92	69	55	46	35	28	23	19.7	17.3	15.3	13.8
SJ7-10-VP	20	0.71	70	53	42	35	26	21	17.6	15.1	13.2	11.7	10.5
	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	1.09	108	81	65	54	40	32	27	23	20	18.0	16.2
	60	1.16	115	86	69	57	43	34	29	25	22	19.1	17.2
SJ7-15-VP	20	1.03	102	76	61	51	38	31	25	22	19.1	17.0	15.3
	30	1.29	128	96	77	64	48	38	32	27	24	21	19.2
	40	1.50	149	111	89	74	56	45	37	32	28	25	22
	50	1.64	162	122	97	81	61	49	41	35	30	27	24
	60	1.76	174	131	105	87	65	52	44	37	33	29	26

QUICK TEEJET CAPS	PART NUMBER		FOR USE WITH FLAT SPRAY TIPS 300 PSI (20 bar) MAXIMUM PRESSURE
	PRICE	QUICK TEEJET CAP & SEAT GASKET SET	
	1.10	25612- *-NYR	TeeJet Flat Spray Tips (Smaller Capacities)
	1.25	25612-9-PP††	
	1.25	25610- *-NYR	TeeJet Flat Spray Tips (Larger Capacities)
	1.25	25598- *-NYR	TJ TwinJet* AI TeeJet* & AIUB TeeJet* SJ-3 StreamJet* DG TwinJet* Turbo TeeJet Induction*
	1.25	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.
	1.25	25600- *-NYR	Turbo FloodJet* VisiFlo* Spray Tip TK-VS FloodJet* VisiFlo Spray Tip Locating Nib
	1.25	25608- *-NYR	TK FloodJet* FL FullJet* TX ConeJet* TG Full Cone Hose Shank AITXA
	1.25	25608-9-PP††	
	1.25	25608-→ -NYR	 CP18999-EPR (EPDM standard) Used with DC-Core Inserts and CP4916 Flow Regulators (Insert Core into Seal) CP18999-VI (Viton* optional)
	4.78	QJ4676-45-1/4-NYR†	45° Quick TeeJet cap
	4.78	QJ4676-90-1/4-NYR†	90° Quick TeeJet cap with 1/4" FPT
	4.78	QJ90-2-NYR	90° Quick TeeJet cap with EPDM Gasket
	1.36	26278-1-NYR†	Ceramic Disc-Core TXB ConeJet* AITXB
	2.51	QJ4676-1/8-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
	4.33	QJ184676-1/4-NYR†	
	2.40	19843-NYR†	Provides shutoff at nozzle for quick spacing change or change in spray swath.
	2.08	98579-1-NYR	Cap and Gasket for A13070—Air Induction Dual Pattern Flat Spray Tip and AITTJ60-08 through 15 capacities



The Quick TeeJet caps are designed with grooves that fit locating lugs on the nozzle body. Caps are made of Nylon and are available for use with all TeeJet® spray tips. Maximum operating pressure of 300 PSI (20 bar).

How to order:

For cap and seat gasket set, specify set number and color code.
 Example: 25612-3-NYR
 For cap only, specify part number and color code.
 Example: CP25597-4-NY
 For seat gasket, specify part number.
 Example: CP19438-EPR

Caps for Hardi Sprayers

QUICK TEEJET CAPS	PART NUMBER		FOR USE WITH FLAT SPRAY TIPS 150 PSI (10 bar) MAXIMUM PRESSURE
	QUICK TEEJET CAP ONLY	QUICK TEEJET CAP & SEAT GASKET SET	
	CP21399-^-CE .82	21398H-^-CELR 1.30	TJ60 TwinJet* AI TeeJet & AIUB TeeJet SJ3 StreamJet DG TwinJet* Turbo TeeJet* Induction AITTJ60 Turbo TwinJet
	CP23307-^-CE .94	23306H-^-CELR 1.30	TP Standard XR TeeJet* AIXR TeeJet DG TeeJet* Turbo TeeJet OC TeeJet TTJ60 Turbo TwinJet
	CP58350-^-CE .82	58348H-^-CELR 1.30	TK FloodJet* FL FullJet* TX ConeJet* TG Full Cone Hose Shank

*Specify color code (see chart). Unless otherwise specified, a yellow (6) cap will be supplied. Violet (10) only available in CP25611 and CP25597 Nylon caps.
 †These Quick TeeJet caps available only in black. ††Polypropylene Quick TeeJet caps available only in gray.

HARDI® CONVERSION CAP



- Converts Hardi® snap-fit nozzle body connection to Quick TeeJet connection for easy installation of TeeJet tips. Especially useful for AIC, XRC and SJ7 tips.
 - Acetal construction with EPDM gasket for durability and chemical resistance.
 - Accepts standard tip strainers.
 - Maximum operating pressure of 150 PSI (10 bar).
- Part No. 55240-CELR....Price:\$3.03



FLOW REGULATORS

To determine the orifice plates you need, use the following equations:
 $W = \text{Nozzle spacing (in inches) for broadcast spraying}$

$$\text{GPM} = \frac{\text{GPA} \times \text{mph} \times W \text{ (Per Nozzle)}}{5,940} \quad \text{GPA} = \frac{5,940 \times \text{GPM (Per Nozzle)}}{\text{mph} \times W}$$

Note: Always insert orifice plate with the number side ideally, equations should be moved up facing the outlet.
 Material: Stainless steel



Use Seal Part No.
 CP18999-EPR EPDM
 CP18999-VI Viton

Price: \$3.44

Orifice	GPM			
	10 PSI	20 PSI	30 PSI	40 PSI
CP4916-008	0.004	0.006	0.007	0.008
CP4916-10	0.007	0.009	0.011	0.013
CP4916-12	0.010	0.013	0.016	0.019
CP4916-14	0.013	0.018	0.022	0.025
CP4916-15	0.015	0.021	0.025	0.029
CP4916-16	0.017	0.023	0.029	0.033
CP4916-18	0.021	0.030	0.036	0.042
CP4916-20	0.026	0.037	0.045	0.052
CP4916-22	0.031	0.043	0.053	0.061
CP4916-24	0.037	0.052	0.064	0.074
CP4916-25	0.040	0.056	0.068	0.079
CP4916-26	0.043	0.061	0.074	0.086
CP4916-27	0.046	0.064	0.079	0.091
CP4916-28	0.049	0.069	0.085	0.098
CP4916-29	0.054	0.076	0.094	0.108
CP4916-30	0.057	0.081	0.099	0.114
CP4916-31	0.062	0.087	0.107	0.123
CP4916-32	0.068	0.095	0.117	0.135
CP4916-34	0.074	0.104	0.127	0.147
CP4916-35	0.079	0.111	0.136	0.157
CP4916-37	0.086	0.122	0.149	0.172
CP4916-39	0.096	0.135	0.165	0.191
CP4916-40	0.102	0.144	0.177	0.204
CP4916-41	0.106	0.149	0.183	0.211
CP4916-43	0.116	0.163	0.200	0.231
CP4916-45	0.125	0.177	0.217	0.250
CP4916-46	0.135	0.191	0.234	0.270

Price: \$3.44

Orifice	GPM			
	10 PSI	20 PSI	30 PSI	40 PSI
CP4916-47	0.138	0.194	0.238	0.275
CP4916-48	0.143	0.202	0.248	0.286
CP4916-49	0.148	0.209	0.255	0.295
CP4916-51	0.165	0.233	0.285	0.329
CP4916-52	0.168	0.237	0.290	0.335
CP4916-54	0.180	0.255	0.312	0.360
CP4916-55	0.189	0.267	0.326	0.377
CP4916-57	0.200	0.283	0.346	0.400
CP4916-59	0.217	0.306	0.375	0.433
CP4916-61	0.233	0.330	0.404	0.466
CP4916-63	0.246	0.347	0.425	0.491
CP4916-65	0.261	0.369	0.452	0.522
CP4916-67	0.278	0.392	0.481	0.555
CP4916-68	0.287	0.405	0.496	0.573
CP4916-70	0.306	0.433	0.530	0.612
CP4916-72	0.320	0.453	0.554	0.640
CP4916-73	0.330	0.467	0.572	0.660
CP4916-75	0.347	0.491	0.601	0.694
CP4916-78	0.385	0.544	0.667	0.770
CP4916-80	0.397	0.561	0.687	0.793
CP4916-81	0.411	0.581	0.711	0.821
CP4916-83	0.449	0.634	0.777	0.897
CP4916-86	0.470	0.664	0.813	0.939
CP4916-89	0.490	0.693	0.849	0.980
CP4916-91	0.523	0.739	0.905	1.05
CP4916-93	0.547	0.774	0.947	1.09
CP4916-95	0.572	0.808	0.990	1.14

Price: \$3.44

Orifice	GPM			
	10 PSI	20 PSI	30 PSI	40 PSI
CP4916-98	0.625	0.884	1.08	1.25
CP4916-103	0.653	0.923	1.13	1.31
CP4916-107	0.733	1.04	1.27	1.47
CP4916-110	0.775	1.10	1.34	1.55
CP4916-115	0.855	1.21	1.48	1.71
CP4916-120	0.890	1.26	1.54	1.78
CP4916-125	0.980	1.39	1.70	1.96
CP4916-128	1.02	1.44	1.77	2.04
CP4916-132	1.10	1.55	1.90	2.19
CP4916-136	1.19	1.68	2.06	2.38
CP4916-140	1.27	1.79	2.19	2.53
CP4916-144	1.31	1.85	2.27	2.62
CP4916-147	1.35	1.91	2.33	2.70
CP4916-151	1.47	2.08	2.55	2.94
CP4916-156	1.55	2.20	2.69	3.11
CP4916-161	1.63	2.31	2.83	3.27
CP4916-166	1.72	2.43	2.97	3.43
CP4916-170	1.84	2.61	3.19	3.69
CP4916-172	1.92	2.71	3.32	3.84
CP4916-177	2.00	2.83	3.46	4.00
CP4916-182	2.08	2.95	3.61	4.17
CP4916-187	2.21	3.12	3.82	4.41
CP4916-196	2.45	3.46	4.24	4.90
CP4916-205	2.65	3.75	4.59	5.31
CP4916-218	2.98	4.21	5.16	5.96
CP4916-234	3.47	4.91	6.01	6.94
CP4916-250	4.00	5.66	6.93	8.00

Tables based on spraying water. See page for conversion factors for other weight solutions.

STREAMJET SOLID STREAM SPRAY NOZZLES

STAINLESS STEEL FOR BANDING FERTILIZERS

- Permits banding fluids at high rig speeds
- Large orifices with no internal obstructions permit non-clogging suspension applications
- Lower drift potential



How to order:

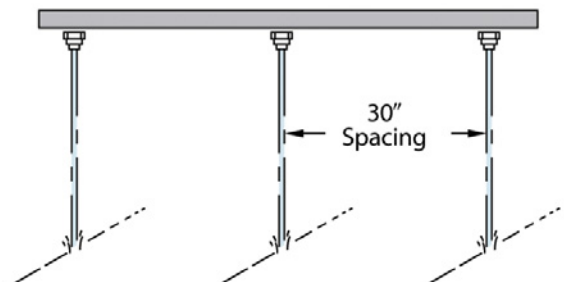
Specify nozzle number, material

Examples:

*(B)H/U-SS0010Price: \$15.80
 Stainless Steel

TP0010-SSPrice: \$11.83
 Stainless Steel (for use with standard TeeJet cap.)

*(B) = BSPT



TP	PSI	GPM	GPA											
			4 MPH	6 MPH	8 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH			
HU-SS0004 TP0004-SS	10	0.20	9.9	6.6	5.0	4.0	3.3	2.8	2.5	2.2	2.0			
	20	0.28	13.9	9.2	6.9	5.5	4.6	4.0	3.5	3.1	2.8			
	30	0.35	17.3	11.6	8.7	6.9	5.8	5.0	4.3	3.9	3.5			
	40	0.40	19.8	13.2	9.9	7.9	6.6	5.7	5.0	4.4	4.0			
HU-SS0006 TP0006-SS	10	0.30	14.9	9.9	7.4	5.9	5.0	4.2	3.7	3.3	3.0			
	20	0.42	21	13.9	10.4	8.3	6.9	5.9	5.2	4.6	4.2			
	30	0.52	26	17.2	12.9	10.3	8.6	7.4	6.4	5.7	5.1			
	40	0.60	30	19.8	14.9	11.9	9.9	8.5	7.4	6.6	5.9			
HU-SS0008 TP0008-SS	10	0.40	19.8	13.2	9.9	7.9	6.6	5.7	5.0	4.4	4.0			
	20	0.57	28	18.8	14.1	11.3	9.4	8.1	7.1	6.3	5.6			
	30	0.69	34	23	17.1	13.7	11.4	9.8	8.5	7.6	6.8			
	40	0.80	40	26	19.8	15.8	13.2	11.3	9.9	8.8	7.9			
HU-SS0010 TP0010-SS	10	0.50	25	16.5	12.4	9.9	8.3	7.1	6.2	5.5	5.0			
	20	0.71	35	23	17.6	14.1	11.7	10.0	8.8	7.8	7.0			
	30	0.87	43	29	22	17.2	14.4	12.3	10.8	9.6	8.6			
	40	1.00	50	33	25	19.8	16.5	14.1	12.4	11.0	9.9			
HU-SS0015 TP0015-SS	10	0.75	37	25	19	14.9	12.4	10.6	9.3	8.3	7.4			
	20	1.06	52	35	26	21	17.5	15.0	13.1	11.7	10.5			
	30	1.30	64	43	32	26	21	18.4	16.1	14.3	12.9			
	40	1.50	74	50	37	30	25	21	18.6	16.5	14.9			
HU-SS0020 TP0020-SS	10	1.00	50	33	25	19.8	16.5	14.1	12.4	11.0	9.9			
	20	1.41	70	47	35	28	23	19.9	17.4	15.5	14.0			
	30	1.73	86	57	43	34	29	24	21	19.0	17.1			
	40	2.00	99	66	50	40	33	28	25	22	19.8			
HU-SS0030 TP0030-SS	10	1.50	74	50	37	30	25	21	18.6	16.5	14.9			
	20	2.12	105	70	52	42	35	30	26	23	21			
	30	2.60	129	86	64	51	43	37	32	29	26			
	40	3.00	149	99	74	59	50	42	37	33	30			
HU-SS0040 TP0040-SS	10	2.00	99	66	50	40	33	28	25	22	20			
	20	2.83	140	93	70	56	47	40	35	31	28			
	30	3.46	171	114	86	69	57	49	43	38	34			
	40	4.00	198	132	99	79	66	57	50	44	40			
HU-SS0050	10	2.50	124	83	62	50	41	35	31	28	25			
	20	3.54	175	117	88	70	58	50	44	39	35			
	30	4.33	214	143	107	86	71	61	54	48	43			
	40	5.00	248	165	124	99	83	71	62	55	50			
HU-SS0060	10	3.00	149	99	74	59	50	42	37	33	30			
	20	4.24	210	140	105	84	70	60	52	47	42			
	30	5.20	257	172	129	103	86	74	64	57	51			
	40	6.00	297	198	149	119	99	85	74	66	59			

Note: Always double check your application rates.

Orifice Discs

Ceramic sizes available: DCER-2 through DCER-8, DCER-10.



Cores

Ceramic sizes available: DC13-CER, DC23-CER, DC25-CER, DC31-CER, DC33-CER, DC35-CER, DC45-CER, DC46-CER, DC56-CER.



How to order:

To order orifice disc only, specify disc number, material. Examples:

- DCER-2-Ceramic
- D2-Hardened Stainless Steel
- DE-2-Stainless Steel
- DVP-2-Polymer

To order core only, specify core number, material. Examples:

- DC13-CER-Ceramic
- DC13-HSS-Hardened Stainless Steel
- DC13-AL-Aluminum
- DC13-BR-Brass
- DC13-NY-Nylon

Color-coding applies to polymer only.

Typical Assembly with Ceramic Disc and Core



*Use CP20229-NY gasket when 4514-NY nylon slotted strainer is not used.



26278-1-NYR
Quick TeeJet Cap
For ceramic disc
and core.



Full Cone
Spray Pattern
Produced by
Cores #31, 33,
35, & 56



Hollow Cone
Spray Pattern
Produced by
Cores #13, 23,
25, 45 & 46

FULL CONE TYPE SPRAY TIPS

STRAINER NOTE: For nozzles using orifice disc no. 1, 1.5, and 2; or core no. 31 and 33, slotted strainer no. 4514-20 equivalent to 25 mesh screen size is required. For all other larger capacity discs and cores, slotted strainer no. 4514-32 equivalent to 16 mesh screen size is required.

HOLLOW CONE TYPE SPRAY TIPS

STRAINER NOTE: For nozzles using orifice disc no. 1, 1.5, and 2; or core no. 13 and 23, slotted strainer no. 4514-20 equivalent to 25 mesh screen size is required. For all other larger capacity discs and cores, slotted strainer no. 4514-32 equivalent to 16 mesh screen size is required.

Note: Always double check your application rates.

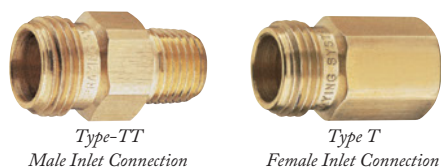
FULL CONE TYPE SPRAY TIPS

		Orifice Disc	GPM										Spray Angle		
			10 PSI	20 PSI	30 PSI	40 PSI	60 PSI	80 PSI	100 PSI	150 PSI	200 PSI	300 PSI	20 PSI	40 PSI	80 PSI
D1	DC31	.031"	.08	.11	.13	.15	.18	.20	.23	.27	.31	.37	49°	47°	43°
D1.5	DC31	.036"	.10	.14	.17	.19	.23	.26	.29	.35	.40	.48	57°	65°	53°
D2	DC31	.041"	.12	.16	.19	.22	.26	.30	.33	.40	.45	.55	62°	63°	61°
D3	DC31	.047"	.13	.18	.21	.24	.29	.33	.37	.44	.50	.60	63°	65°	63°
D1	DC33	.031"	.09	.11	.12	.14	.17	.20	.22	.26	.30	.37	27°	32°	35°
D1.5	DC33	.036"	.12	.15	.17	.19	.23	.26	.30	.36	.41	.50	37°	43°	45°
D2	DC33	.041"	.13	.17	.21	.24	.29	.33	.37	.45	.52	.63	45°	52°	55°
D3	DC33	.047"	.15	.21	.25	.29	.36	.41	.45	.55	.63	.76	48°	54°	57°
D4	DC33	.063"	.20	.28	.34	.39	.47	.54	.60	.73	.83	1.02	50°	56°	61°
D1	DC35	.031"	.08	.11	.13	.14	.17	.20	.22	.26	.29	.35	19°	23°	26°
D1.5	DC35	.036"	.10	.14	.17	.19	.23	.26	.29	.34	.39	.46	23°	27°	29°
D2	DC35	.041"	.14	.18	.24	.25	.30	.34	.37	.45	.51	.60	40°	44°	47°
D3	DC35	.047"	.16	.22	.26	.30	.36	.41	.45	.55	.62	.74	45°	50°	52°
D4	DC35	.063"	.27	.37	.44	.50	.60	.70	.79	.93	1.1	1.3	68°	70°	71°
D5	DC35	.078"	.34	.48	.58	.66	.80	.92	1.0	1.2	1.4	1.7	67°	69°	71°
D2	DC56	.041"	—	—	.21	.25	.30	.35	.39	.47	.55	.67	—	14°	17°
D3	DC56	.047"	—	—	.29	.34	.41	.48	.53	.65	.75	.92	—	20°	23°
D4	DC56	.063"	—	.39	.48	.55	.67	.78	.87	1.06	1.23	1.51	20°	26°	29°
D5	DC56	.078"	.38	.54	.66	.76	.93	1.08	1.20	1.47	1.69	2.08	26°	32°	34°
D6	DC56	.094"	.55	.78	.95	1.10	1.35	1.55	1.74	2.13	2.46	3.02	34°	39°	41°
D7	DC56	.109"	.76	1.07	1.32	1.52	1.86	2.15	2.40	2.94	3.40	4.16	45°	52°	54°
D8	DC56	.125"	.96	1.36	1.67	1.93	2.36	2.73	3.05	3.73	4.32	5.28	52°	57°	59°
D10	DC56	.156"	1.35	1.91	2.34	2.70	3.31	3.82	4.26	5.22	6.03	7.39	62°	65°	67°

HOLLOW CONE TYPE SPRAY TIPS

		Orifice Disc	GPM										Spray Angle		
			10 PSI	20 PSI	30 PSI	40 PSI	60 PSI	80 PSI	100 PSI	150 PSI	200 PSI	300 PSI	20 PSI	40 PSI	80 PSI
D1	DC13	.031"	—	—	.059	.066	.078	.088	.097	.115	.128	.152	—	51°	62°
D1.5	DC13	.036"	—	.057	.067	.075	.088	.098	.110	.127	.142	.167	38°	55°	66°
D2	DC13	.041"	—	.064	.075	.08	.10	.11	.12	.14	.16	.18	49°	67°	72°
D3	DC13	.047"	—	.071	.08	.09	.11	.12	.13	.16	.18	.20	53°	70°	75°
D4	DC13	.063"	.070	.09	.11	.12	.14	.16	.17	.20	.23	.27	69°	79°	83°
D1	DC23	.031"	—	—	.064	.072	.080	.096	.107	.124	.139	.164	—	47°	58°
D1.5	DC23	.036"	—	.064	.076	.086	.103	.117	.130	.155	.175	.210	34°	51°	62°
D2	DC23	.041"	—	.078	.092	.10	.13	.14	.16	.19	.21	.25	51°	63°	70°
D3	DC23	.047"	.065	.087	.10	.12	.14	.16	.18	.21	.24	.28	58°	69°	75°
D4	DC23	.063"	.082	.113	.14	.15	.19	.21	.23	.28	.32	.38	68°	82°	87°
D5	DC23	.078"	.095	.13	.16	.18	.22	.25	.28	.34	.38	.46	79°	89°	94°
D6	DC23	.094"	.112	.15	.19	.21	.26	.29	.32	.39	.45	.54	84°	93°	98°
D1	DC25	.031"	—	—	.088	.101	.122	.138	.156	.185	.210	.255	—	27°	43°
D1.5	DC25	.036"	—	.118	.135	.162	.185	.205	.245	.280	.33	—	38°	49°	
D2	DC25	.041"	—	.12	.14	.16	.19	.22	.25	.29	.34	.41	39°	51°	58°
D3	DC25	.047"	.10	.14	.17	.19	.23	.26	.29	.35	.40	.48	52°	63°	67°
D4	DC25	.063"	.15	.21	.25	.29	.35	.40	.45	.54	.62	.75	67°	74°	80°
D5	DC25	.078"	.18	.25	.30	.35	.42	.48	.54	.65	.75	.90	73°	79°	84°
D6	DC25	.094"	.23	.32	.39	.44	.54	.62	.70	.85	.97	1.19	79°	85°	89°
D7	DC25	.109"	.26	.37	.45	.52	.63	.73	.81	.98	1.18	1.37	85°	91°	93°
D8	DC25	.125"	.31	.43	.53	.61	.75	.89	.97	1.19	1.36	1.68	91°	96°	97°
D10	DC25	.156"	.38	.54	.65	.76	.93	1.07	1.21	1.48	1.71	2.1	97°	102°	103°
D1	DC45	.031"	—	—	.125	.148	.170	.190	.225	.257	.310	—	22°	34°	
D1.5	DC45	.036"	—	.14	.16	.20	.23	.25	.31	.35	.43	—	33°	44°	
D2	DC45	.041"	—	.14	.18	.20	.25	.28	.32	.38	.44	.53	32°	46°	55°
D3	DC45	.047"	—	.17	.20	.23	.28	.33	.36	.44	.51	.62	40°	53°	60°
D4	DC45	.063"	.18	.25	.31	.36	.43	.50	.56	.68	.78	.95	62°	69°	72°
D5	DC45	.078"	.23	.32	.39	.45	.55	.64	.71	.86	.99	1.22	67°	73°	76°
D6	DC45	.094"	.29	.41	.50	.58	.72	.83	.93	1.15	1.33	1.64	73°	79°	81°
D7	DC45	.109"	.33	.48	.59	.68	.84	.97	1.11	1.35	1.57	1.94	81°	86°	87°
D8	DC45	.125"	.41	.59	.72	.84	1.04	1.21	1.35	1.68	1.94	2.40	86°	90°	90°
D10	DC45	.156"	.54	.77	.94	1.10	1.35	1.57	1.77	2.18	2.50	3.10	90°	93°	93°
D1	DC46	.031"	—	—	.145	.178	.205	.23	.28	.32	.39	—	13°	15°	
D1.5	DC46	.036"	—	.213	.260	.300	.33	.41	.46	.56	—	—	15°	17°	
D2	DC46	.041"	—	.24	.27	.33	.37	.42	.50	.57	.68	—	18°	21°	
D3	DC46	.047"	—	.23	.28	.32	.39	.45	.51	.61	.70	.86	14°	20°	24°
D4	DC46	.063"	.28	.39	.48	.56	.68	.78	.88	1.07	1.23	1.52	23°	29°	33°
D5	DC46	.078"	.38	.54	.66	.77	.94	1.10	1.25	1.50	1.73	2.13	33°	39°	42°
D6	DC46	.094"	.55	.78	.95	1.10	1.35	1.58	1.73	2.16	2.50	3.06	42°	48°	50°
D7	DC46	.109"	.98	1.22	1.39	1.72	1.97	2.22	2.73	3.15	3.85	48°	53°	56°	
D8	DC46	.125"	—	1.59	1.84	2.25	2.62	2.93	3.60	4.17	5.05	—	60°	62°	
D10	DC46	.156"	—	2.15	2.48	3.05	3.53	3.96	4.83	5.59	6.80	—	66°	68°	

NOZZLE BODIES



TYPE-TT

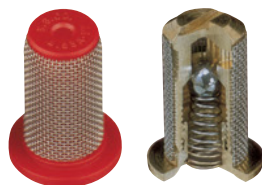
TeeJet Body No.	For TeeJet Nozzle Type	Male NPT Size	Material	Price
CP1322	1/4TT	1/4"	Brass	2.48
CP8028-NYB	1/4TT-NYB	1/4"	Nylon	1.78
CP1322-SS	1/4TT-SS	1/4"	Stainless Steel	16.48
CP1324-SS	3/8TT-SS	3/8"	Stainless Steel	16.48

TYPE T

TeeJet Body No.	For TeeJet Nozzle Type	Male NPT Size	Material	Price
CP1321	1/4T	1/4"	Brass	2.48
CP12094-NYB	1/4T-NYB	1/4"	Nylon	1.72
CP1321-SS	1/4T-SS	1/4"	Stainless Steel	16.48

STRAINER AND CHECK VALVE

Minimizes nozzle dripping, fits all TeeJet nozzles. Ball check opens at 5 PSI. Recommended for flow rates up to 0.8 GPM. 24, 50, 100, and 200 mesh screens.



Check Valve Number	Body and Cap Screw Material	Mesh Screen Material	Price
4193A-**-*	Brass	Stainless Steel	5.51
4193A-SS-**-*	Stainless Steel	Stainless Steel	21.72
4193A-PP-**-*	Polypropylene	Stainless Steel	4.37

* When ordering, specify spring rating and screen mesh size.
 Note: Use of these ball check valves results in a pressure drop of 5 to 10 PSI depending on spring rating.

SLOTTED STRAINERS

One-piece strainers for use with liquids containing suspended solids.

BrassPrice: **\$1.47**
 Nylon.....Price: **\$1.38**



TeeJet Strainer Number	Available Material	Equivalent to Mesh Size
4514-**-10	Brass or Nylon	50
4514-**-20	Brass, Aluminum or Nylon	25
4514-**-32	Brass, Aluminum or Nylon	16

*Above numbers for brass. For nylon add "NY". For aluminum add "AL".

CUP STRAINERS

Stainless steel construction. Choice of 50, 100, and 200 mesh screens.

Part No.	Description	Price
4067-SS-50	50 Mesh	1.72



NOZZLE CAPS

Secure interchangeable TeeJet tips to the various nozzle bodies. 18032A-NYB winged TeeJet cap allows quick change of spray tips with no tool required.



TeeJet Cap Number	Material	Price
CP1325	Brass	1.50
CP8027-NYB	Nylon	.98
CP8027-1-NYB	Nylon (Extra long size)	1.28
CP1325-SS	Stainless Steel	8.97
CP18032A-NYB	Winged Cap, Nylon	1.39

STRAINERS

...with VisiFlo color-coding Nylon slotted and polypropylene wire mesh strainers are color-coded for easy identification of strainer mesh size.

Mesh Size	Color Code
16	Grey
24	White
25	Yellow
50	Red
100	Green
200	Orange

Strainer protects spray tip orifice from clogging and damage. Stainless steel screens in 24, 50, 100 and 200 mesh. Polypropylene screens available in 25 and 50 mesh only.



TeeJet Strainer Number	Strainer Body & Cap Material	Mesh Screen Material	Price
5053-**-SS	Brass	Stainless Steel	3.14
8079-PP-*	Polypropylene	Stainless Steel	1.32
6051-SS-*	Stainless Steel	Stainless Steel	12.40
19845-**-PP	Polypropylene	Polypropylene	1.62
55215-50-EPR	AIC/XRC tips	Strainer w/ gasket	1.84
55215-100-EPR	AIC/XRC tips	Strainer w/ gasket	1.84
55215-50-VI	AIC/XRC tips	Strainer w/ gasket	3.57
55215-100-VI	AIC/XRC tips	Strainer w/ gasket	3.57

* Specify mesh size when ordering.

CHECK VALVE

For larger capacity TeeJet nozzles where strainers are not required. Ball check opens at 5 PSI. 10 PSI spring also available. Recommended for flow rates from .40 to 1.5 GPM. Made in choice of stainless steel, brass, aluminum, and polypropylene with stainless steel ball and spring.



Part No.	Material & PSI	Price
11750-PP-10	Polypropylene - 10 PSI	6.18
11750-PP-5	Polypropylene - 5 PSI	6.18
11750-SS-10	Stainless Steel - 10 PSI	23.28
11750-SS-5	Stainless Steel - 5 PSI	23.28
11750-10	Brass - 10 PSI	7.28
11750-5	Brass - 5 PSI	7.28

TANK RINSING NOZZLES

55270

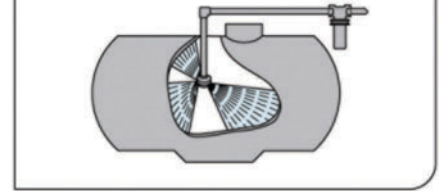
- Rotating head driven by the flow of the rinsing liquid through multiple round spray orifices
- Solid stream sprays are precisely positioned to provide effective internal wetting and cleaning of tank surface
- Removable retainer and rotating body allows for disassembly and cleaning
- Provides 360° coverage of inside surface of tank for tank diameters up to 10 ft. (3.0 m)
- Self-lubricating and self-flushing design



NOZZLE NUMBER	CAPACITY - GPM					TYPE OF COVERAGE	SPRAY ANGLE
	10 PSI	20 PSI	30 PSI	40 PSI	50 PSI		
55270-1/2-11-POM	5.9	7.9	9.4	11.0	12.4		360°
B55270-1/2-11-POM							
55270-3/4-18-POM	9.0	12.7	15.6	18.0	20.0		
B55270-3/4-18-POM							

- Materials: Body – black POM (acetal); Fasteners – stainless steel
- Recommended operating pressure: 10–50 PSI (0.7–3.5 bar)
- Mounting connection – ½ in. or ¾ in. NPT or BSPT (F)

Typical Application



CONTAINER RINSING NOZZLES

VSM

- Used for inside rinsing of chemical containers
- 40 orifices combine to produce a 240° spray angle
- All Nylon construction
- Available with ½ in. or ¾ in. NPT or BSPT (F) connection
- Recommended operating pressure 30–60 PSI (2–4 bar)



NOZZLE NUMBER	INLET PIPE CONNECTION	ORIFICE DIAMETER	CAPACITY - GPM						SPRAY ANGLE
			20 PSI	30 PSI	40 PSI	60 PSI	80 PSI	100 PSI	
(B) VSM-28	½" (F)	.031"	3.9	4.8	5.5	6.7	7.8	8.7	240°
(B) VSM-44		.039"	6.1	7.5	8.6	10.6	12.2	13.7	
(B) VSM-90	½" or ¾" (F)	.059"	12.5	15.3	17.7	22	25	28	
(B) VSM-140		.077"	19.4	24	27	34	39	43	
(B) VSM-190		.091"	26	32	37	46	53	59	

How to order:

(B) VSM - ¾ - 140
 | | | |
 BSPT Nozzle Type Size Capacity

RAPID STOP NOZZLE BODY INLET ADAPTER

- For wet boom nozzle bodies
- Extends height of nozzle body inlet tube to aid in the removal of air trapped in the spray boom.
- Easily installed for shortened tip shutoff and turn on time
- Inlet adapter for QJ17560A-1-NYB, QJ17560A-3/4-NYB, and all 1" and ¾" QJ360 series wet boom nozzle bodies.



HOW TO ORDER:

CP98583 - [] - [] - []

PART CODE	FOR TYPE
1	QJ360C SERIES
2	QJ17560A SERIES
3	QJ360F SERIES*

PART CODE	PIPE SIZE
1	1 in.
3/4	3/4 in.

MATERIAL	
PART CODE	DESCRIPTION
SS	STAINLESS STEEL

*QJ17560A-1-NYB NOZZLE BODY RAPID STOP EXAMPLE PART NO: CP98583-2-1-SS

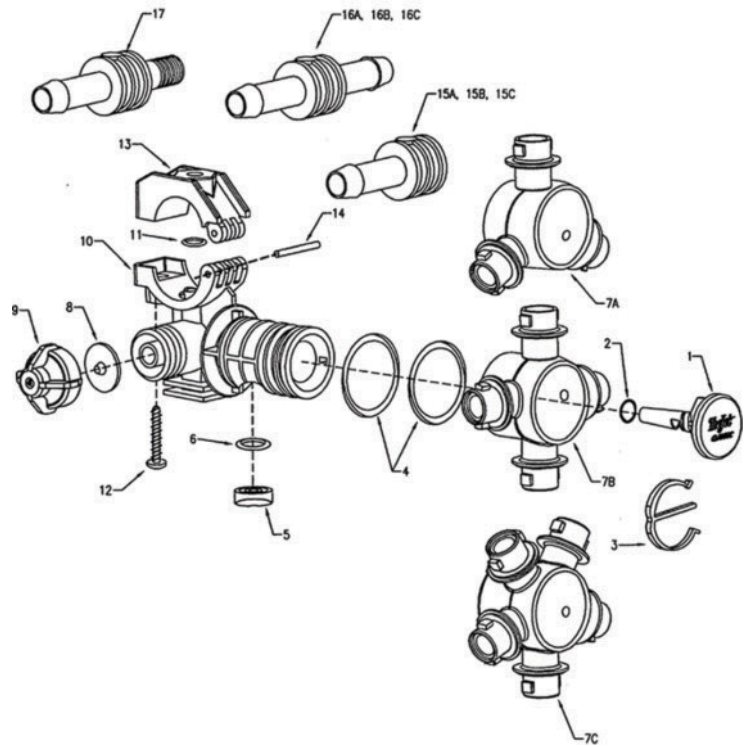
*QJ360F SERIES RAPID STOPS ARE ONLY AVAILABLE AS THE 1" VERSION.



QUICK TEEJET MULTIPLE NOZZLE BODY ASSEMBLIES

QJ360C FOR DRY BOOMS

- Available with either 3, 4, or 5 spray positions for easy change of spray tips or quick boom flushing
- Automatic self-alignment with flat fan spray patterns
- Maximum pressure of 300 PSI
- Available in ½, ¾, or 1" single or double hose shanks
- Includes ChemSaver® diaphragm check valve for drip-free shutoff, standard diaphragm opens at 10 PSI
- Standard EPDM diaphragm with Viton® option available
- Durable design mounts body high on boom structure for maximum protection
- Flow Rate: 2.25 GPM with 5 PSI pressure drop, 3.18 GPM with 10 PSI pressure drop
- Mounts to a ⅜" hole drilled in pipe or tubing



QJ363C

PART NUMBER		NUMBER OF SPRAY OUTLETS	TO FIT HOSE I.D.
SINGLE	DOUBLE		
QJ363C-500-1-NYB	QJ363C-500-2-NYB	3	½"
QJ363C-750-1-NYB	QJ363C-750-2-NYB	3	¾"
QJ363C-1000-1-NYB	QJ363C-1000-2-NYB	3	1"

QJ364C

PART NUMBER		NUMBER OF SPRAY OUTLETS	TO FIT HOSE I.D.
SINGLE	DOUBLE		
QJ364C-500-1-NYB	QJ364C-500-2-NYB	4	½"
QJ364C-750-1-NYB	QJ364C-750-2-NYB	4	¾"
QJ364C-1000-1-NYB	QJ364C-1000-2-NYB	4	1"

QJ365C

PART NUMBER		NUMBER OF SPRAY OUTLETS	TO FIT HOSE I.D.
SINGLE	DOUBLE		
QJ365C-500-1-NYB	QJ365C-500-2-NYB	5	½"
QJ365C-750-1-NYB	QJ365C-750-2-NYB	5	¾"
QJ365C-1000-1-NYB	QJ365C-1000-2-NYB	5	1"

Ref. No.	Description	Part No.
1	Plug, nylon (black)	CP-38930-8-NYB
2	O-ring, EPDM	CP7717-2-13-EPR
	O-ring, Viton (optional)	CP7717-2-13-VI
3	E-Clip, nylon (black)	CP38931-NYB
4	O-ring, EPR-teflon filled (2 req'd)	CP7717-M283-EPRTFE
	O-ring, Viton-teflon filled (2 req'd) (optional)	CP7717-M283-VITFE
5	Seal, Viton-teflon filled	CP56726-VITFE
6	O-ring, Viton	CP7717-2-111-VI
7A	Turret, Nylon (black) (3 outlet)	CP38921-2-NYB
7B	Turret, Nylon (black) (4 outlet)	CP38922-2-NYB
7C	Turret, Nylon (black) (5 outlet)	CP38923-2-NYB
8	Diaphragm, EPDM	CP21953-EPR
	Diaphragm, Viton (optional)	CP21953-VI
9	End cap sub assembly, nylon (black)	21950-10-NYB
10	¾" body, nylon (black)	CP38925-10-NYB
11	O-ring, Buna-N	CP7717-2-110-BU
	O-ring, Viton (optional)	CP7717-2-110-VI
12	Screw, stainless steel	CP48255-1-1/4-302SS
13	¾" upper clamp, nylon (black)	CP48221-NYB
14	Pivot pin, stainless steel	CP48256-SS
15A	½" single hose barb, nylon (black)	CP38936-NYB
15B	¾" single hose barb, nylon (black)	CP38938-NYB
15C	1" single hose barb, nylon (black)	CP38940-NYB
16A	½" double hose barb, nylon (black)	CP38937-NYB
16B	¾" double hose barb, nylon (black)	CP38939-NYB
16C	1" double hose barb, nylon (black)	CP38941
17	¾" hose barb x ½" NPT, nylon (black)	CP38948-NYB

How to order:

No. QJ36_C-500-1(R)-NYB(-VI) - ½" single hose barb nozzle body*
No. QJ36_C-750-1(R)-NYB(-VI) - ¾" single hose barb nozzle body*
No. QJ36_C-1000-1(R)-NYB(-VI) - 1" single hose barb nozzle body*
No. QJ36_C-500-2-NYB(-VI) - ½" double hose barb nozzle body*
No. QJ36_C-750-2-NYB(-VI) - ¾" double hose barb nozzle body*
No. QJ36_C-1000-2-NYB(-VI) - 1" double hose barb nozzle body*
No. QJ36_C-1/2X750-2-NYB(-VI) - ½" NPT(m) x ¾" hose barb nozzle body*

*Note: Specify either 3, 4, or 5 in part number for number of outlets desired, -VI in part number specifies Viton O-ring option, R specifies right-handed single hose barb orientation (as viewed with plug facing you), left-handed orientation is standard

QJ360C FOR WET BOOMS

- Available with either 3, 4, or 5 spray positions for easy change of spray tips or quick boom flushing
- Positive shutoff between each position
- Maximum operating pressure of 300 PSI
- Includes ChemSaver® diaphragm check valve for drip-free shutoff, standard diaphragm opens at 10 PSI
- Standard EPDM diaphragm with Viton® available as an option
- Flow Rate: 2.25 GPM at 5 PSI pressure drop, 3.18 GPM with 10 PSI pressure drop
- Mounts to a 3/8" hole drilled in pipe or tubing

Part No. QJ36_CPrice: \$17.18

How to order:
No. QJ36_C-1/2-NYB(-VI) - 1/2" wet boom nozzle body*
No. QJ36_C-3/4-NYB(-VI) - 3/4" wet boom nozzle body*
No. QJ36_C-1-NYB(-VI) - 1" wet boom nozzle body*
No. QJ36_C-25MM-NYB(-VI) - 25mm wet boom nozzle body*

*Note: Specify either 3, 4, or 5 in part number for number of outlets desired, -VI in part number specifies Viton O-ring option



PART NUMBER	NUMBER OF SPRAY OUTLETS	TO CLAMP ON
QJ363C-25mm-NYB	3	25 mm Tubing
QJ363C-1/2-NYB	3	1/2" Pipe
QJ363C-3/4-NYB	3	3/4" Pipe
QJ363C-1-NYB	3	1" Pipe

PART NUMBER	NUMBER OF SPRAY OUTLETS	TO CLAMP ON
QJ364C-25mm-NYB	4	25 mm Tubing
QJ364C-1/2-NYB	4	1/2" Pipe
QJ364C-3/4-NYB	4	3/4" Pipe
QJ364C-1-NYB	4	1" Pipe

PART NUMBER	NUMBER OF SPRAY OUTLETS	TO CLAMP ON
QJ365C-25mm-NYB	5	25 mm Tubing
QJ365C-1/2-NYB	5	1/2" Pipe
QJ365C-3/4-NYB	5	3/4" Pipe
QJ365C-1-NYB	5	1" Pipe

QJ360F FOR WET BOOMS WITH FERTILIZER OUTLETS

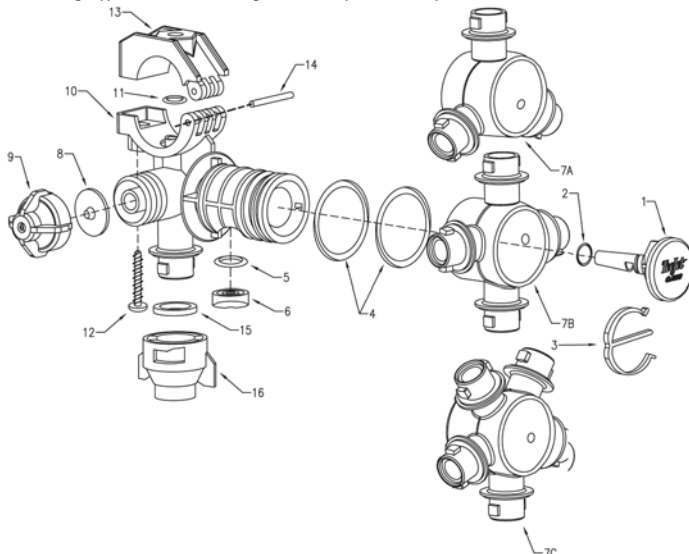
- Wet boom nozzle body with additional high flow fertilizer outlet
- Flow rate: 2.25 GPM @ 5 PSI pressure drop through turret and 3.4 GPM through fertilizer outlet
- Available in 3, 4, or 5 outlet bodies with 1" pipe connection

Part No. QJ36_F-1-NYB.....Price: \$21.45



How to order:
No. QJ36_F-1-NYB —1" Turret Nozzle Body**
No. QJ36_F-1-NYB-VI—1" Turret Nozzle Body** w/ Viton option

*Note: Specify either 3, 4, or 5 in part number for number of outlets desired



Ref. No.	Description	Part No.
1	Plug, nylon (black)	CP38930-8-NYB
2	O-ring, EPDM	CP7717-2-13-EPR
	O-ring, Viton (optional)	CP7717-2-13-VI
3	E-clip, nylon (black)	CP38931-NYB
4	O-ring, EPR-teflon filled (2 required)	CP7717-M28x3-EPRTFE
	O-ring, Viton-teflon filled (2 required) (optional)	CP7717-M28x3-VITFE
5	O-ring, Viton	CP7717-2-111-VI
6	Seal, Viton-teflon filled	CP56726-VITFE
7A	Turret, nylon (black) (3 outlet)	CP38921-2-NYB
7B	Turret, nylon (black) (4 outlet)	CP38922-2-NYB
7C	Turret, nylon (black) (5 outlet)	CP38923-2-NYB
8	Diaphragm, EPDM	CP21953-EPR
	Diaphragm, Viton (optional)	CP21953-VI
9	End cap sub-assembly, nylon (black)	21950-10-NYB
10	1" body, nylon (black)	CP50101-1-NYB
	1" body, nylon (black) standard	CP38926-2-NYB
11	O-ring, Buna-N	CP7717-2-110-BU
	O-ring, Viton (optional)	CP7717-2-110-VI
12	Screw, stainless steel	CP48255-1-1/4-302SS
13	1" upper clamp, nylon (black)	CP48222-NYB
14	Pivot pin, stainless steel	CP48256-SS
15	Gasket, EPDM	CP19438-EPR
16	Quick TeeJet cap, blank, nylon (black)	CP25606-1-NY



QUICK TEEJET MULTIPLE NOZZLE BODIES

QJ380 HIGH FLOW NOZZLE BODY

- High capacity multiple outlet nozzle body is ideal for high speed, high volume applications including liquid fertilizer
- Available with 3 spray positions for easy change of spray tips or quick boom flushing
- Positive shutoff between each spray position
- Automatic spray alignment when using flat fan spray tips
- Maximum operating pressure of 150 PSI
- Available in 3/4" or 1" pipe size
- Requires 3/8" hole drilled in pipe or tubing
- Includes high capacity ChemSaver® diaphragm check valve for drip-free shutoff; diaphragm opens at 10 PSI
- 3.0 GPM flow rate at a 5 PSI pressure drop
- Molded hex socket in upper clamp for attaching to flat surfaces; accepts 5/16" or M8 bolt
- Hinged upper clamp reduces assembly time and fits inside common boom channels
- Constructed of nylon and acetal with Viton® seals and O-rings



Nozzles and caps not included.

QJ380F HIGH FLOW NOZZLE BODY WITH FERTILIZER OUTLET

- Same features as standard QJ380, with an additional higher flow outlet on bottom of body
- Additional outlet can be used for very high flow applications such as liquid fertilizer
- Flow rate through fertilizer outlet is 4.5 GPM at 5 PSI pressure drop



Nozzles and caps not included.

RETROFIT SEAL

- Retrofit gasket for John Deere booms
- Allows use of standard Quick TeeJet nozzle bodies
- Molded Viton material



Part No. CP98488-VIPrice: \$7.26

QC360 CAM LEVER COUPLING ADAPTER

- Fits into standard Cam-Loc style quick couplers
- Allows for rapid change over from high volume fertilizer applications to lower volume pesticide applications



Part No.	Description	Price
QC363-NYB	With 3 outlets	17.18
QC364-NYB	With 4 outlets	17.18
QC365-NYB	With 5 outlets	17.18

QUICK TEEJET NOZZLE ASSEMBLIES



24230



24216

- Three spray positions
- Positive shutoff between each spray position
- Includes ChemSaver diaphragm check valve for drip-free shutoff, opens at 10 PSI
- Standard EPDM diaphragm with Viton available as an option
- Maximum operating pressure of 125 PSI for dry booms
- Available in 1/2" and 3/4" single or double hose shanks for dry booms, 150 PSI for wet booms

TRIPLE NOZZLE BODIES FOR DRY BOOMS

Part No.	Description	Price
24230A-1-540-NYB	1/2" Dry Boom Single	23.63
24230A-1-785-NYB	3/4" Dry Boom Single	23.63
24230A-2-540-NYB	1/2" Dry Boom Double	23.63
24230A-2-785-NYB	3/4" Dry Boom Double	23.63

Note: Nozzles and caps not included.

TRIPLE NOZZLE BODIES FOR WET BOOMS

Part No.	Description	Price
24216A-1-NYB	1" Wet Boom	23.01
24216A-1/2-NYB	1/2" Wet Boom	23.01
24216A-3/4-NYB	3/4" Wet Boom	23.01

Note: Nozzles and caps not included.

QJ100 SERIES

Hose shank Quick TeeJet nozzle bodies
Max 125 PSI.

Price: \$4.43

	PART NUMBER SINGLE	TO FIT HOSE I.D.
	18635-111-406-NYB	3/8"
	18638-111-540-NYB	1/2"
	18719-111-785-NYB	3/4"
	18636-112-406-NYB	3/8"
	18639-112-540-NYB	1/2"
	18720-112-785-NYB	3/4"
	18637-113-406-NYB	3/8"
	18640-113-540-NYB	1/2"
	18721-113-785-NYB	3/4"

QJ200 SERIES

Hose shank diaphragm check valve Quick TeeJet nozzle assemblies. Max 125 PSI.

Price: \$10.98

	PART NUMBER SINGLE	TO FIT HOSE I.D.
	19349-211-406-NYB	3/8"
	19349-211-540-NYB	1/2"
	19349-211-785-NYB	3/4"
	19350-212-406-NYB	3/8"
	19350-212-540-NYB	1/2"
	19350-212-785-NYB	3/4"
	19351-213-406-NYB	3/8"
	19351-213-540-NYB	1/2"
	19351-213-785-NYB	3/4"

QJ300 SERIES

Hose shank diaphragm check valve Quick TeeJet nozzle assemblies. Max 300 PSI.

Price: \$9.08

	PART NUMBER SINGLE	TO FIT HOSE I.D.
	22251-311-375-NYB	3/8"
	22251-311-500-NYB	1/2"
	22251-311-750-NYB	3/4"
	22252-312-375-NYB	3/8"
	22252-312-500-NYB	1/2"
	22252-312-750-NYB	3/4"

HOSE SHANK NOZZLE BODIES

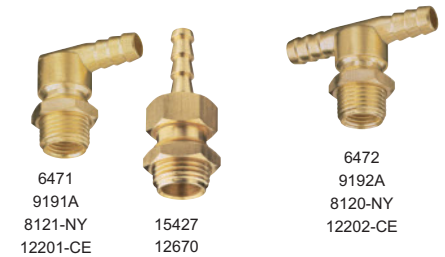
For operating pressures up to 125 PSI. Brass, aluminum, stainless steel, nylon and Celcon/stainless steel hose shank nozzle bodies

Hose Shank Body Assembly No.		To Fit Hose I.D.	Material	Single Price	Double Price
Single Hose Shank	Double Hose Shank				
6471-SS-C400TD	6472-SS-C400TD	3/8"	Stainless Steel	124.88	120.66
9191-SS-C531TD	9192-SS-C531TD	1/2"		145.29	145.29
8121-NYB-406TD	8120-NYB-406TD	3/8"	Nylon	3.44	3.44
8121-NYB-540TD	8120-NYB-540TD	1/2"		3.44	3.44
12670-406TD-NYB	—	3/8"		7.23	—
12201-CE-785TD	12202-CE-785TD	3/4"	Celcon Hose Shank Stainless Steel Threaded Outlet	14.95	14.95
12201-CE-1062TD	12202-CE-1062TD	1"		14.95	14.95

Note: Spray tip and cap not included.

How to order: To order body assembly only; specify hose shank assembly no. Example: 12202-CE-1062

Single Hose Connections Double Hose Connections



NOZZLES FOR WET BOOMS



SPLIT EYELETS

Part No.	To Clamp On	Price
QJ17560A-1/2-NYB	1/2" Pipe	4.80
QJ17560A- 3/4-NYB	3/4" Pipe	4.80
QJ17560A-1-NYB	1" Pipe	4.80
QJ7421-1/2-NYB	1/2" Pipe	4.45
QJ7421- 3/4-NYB	3/4" Pipe	4.45
QJ7421-1-NYB	1" Pipe	4.45
QJ22187-1/2-NYB	1/2" Pipe	11.23
QJ22187- 3/4-NYB	3/4" Pipe	11.23
QJ22187-1-NYB	1" Pipe	11.23
24216A-1/2-NYB	1/2" Pipe	23.01
24216A- 3/4-NYB	3/4" Pipe	23.01
24216A-1-NYB	1" Pipe	23.01

ADAPTERS FOR RETROFITTING



Part No.	To Clamp On	Price
QJT-NYB	1 1/16" - 16 TeeJet Thread	5.64
QJT8360-NYB	1 1/16" - 16 TeeJet Thread	6.01

HOSE DROPS

Connect to standard and Quick TeeJet nozzle bodies and can also be used with swivels. Maximum operating pressure: 125 PSI.

Item Code	Part No.	Length	Inlet Connection	Outlet Connection	Price
A	21353-6-15-NYB	15"	Quick	1/4"	13.15
	21353-6-24-NYB	24"	TeeJet Type	NPT (M)	13.15
B	21354-15-NYB	15"	1 1/16"-16	1/4"	8.69
	21354-24-NYB	24"	TeeJet Thread	NPT (M)	9.68

Material: Item A—Nylon with Quick TeeJet cap and EPDM gasket
Item B—Nylon throughout



DROP TUBE

Used for side dressing 6" for 3/8" hose.

Part No. 06-00068Price: \$13.52

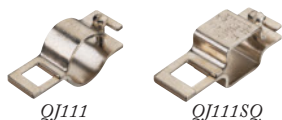
OUTLET CONNECTION

Can be attached to TeeJet hose drops for use with Quick TeeJet caps.

Part No. QJ1/4T-NYBPrice \$3.03



VARI-SPACING CLAMPS



Part No.	To Clamp On	Price
QJ111-1/2	1/2" Pipe (13/16" & 7/8" O.D. Tubings)	2.92
QJ111-3/4	3/4" Pipe (1" & 1- 1/16" O.D. Tubings)	2.92
QJ111-1	1" Pipe (1-1/8", 1-1/4" & 1-3/8" O.D. Tubings)	2.92
QJ111-11/4	1-1/4" Pipe (1- 9/16" & 1- 11/16" O.D. Tubings)	2.92
QJ111SQ-3/4	3/4" Square Tubing	2.92
QJ111SQ-1	1" Square Tubing	2.92
QJ111SQ-1-1/4	1-1/4" Square Tubing	2.92
QJ111SQ-1-1/2	1-1/2" Square Tubing	2.92

**Also available in stainless steel*

ADAPTER BODIES



Part No.	Description	Price
QJ90-1-NYR	Adapter Single Outlet	4.91
QJ90-2-NYR	Adapter Double Outlet	4.91

NOZZLE BODIES



Part No.	Pipe Connection	Price
QJ1/4T-NYB	1/4" NPT (M)	3.03
QJ1/4T-NYB	1/4" NPT (F)	3.03
22674-1/4-NYB	1/4" NPT (M)	3.03

DIAPHRAGM CHECK VALVES



Part No.	Pipe Connection	Price
QJ8360-NYB	1/4" NPT (M)	5.53
QJ8355-1/4-NYB	1/4" NPT (F)	11.13

OUTLET ADAPTERS

Fits the outlets of TeeJet nozzle bodies as well as the outlets of various GunJet spray guns and shutoff valves. Replaces CP1325 TeeJet cap.



Part No.	Material	Outlet Conn. NPT (F)	Price
4676-1/4	Brass	1/4"	3.10
4676-NYB-1/4	Nylon	1/4"	2.54
4676-SS-1/4	Stainless Steel	1/4"	10.51

HOSE SHANKS

Fits all TeeJet nozzle caps, replacing spray tips. TeeJet hose shanks are also available in brass, aluminum, stainless steel or electrofilmed aluminum.

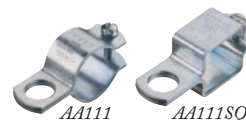


Nylon Hose Shank No.	For Hose I.D.	Price
8400-406-NYB	3/8"	1.14
8400-500-NYB	1/2"	1.14

Cap Use Part No. 25608-*NYB

CLAMP ASSEMBLIES

For standard nozzle bodies.



Part No.	To Clamp On	Price
AA111-1/2	1/2" Pipe (13/16" & 7/8" O.D. Tubings)	5.01
AA111-3/4	3/4" Pipe (1" & 1- 1/16" O.D. Tubings)	5.01
AA111-1	1" Pipe (1-1/8", 1-1/4" & 1-3/8" O.D. Tubings)	5.01
AA111-1-1/4	1-1/4" Pipe (1- 9/16" & 1- 11/16" O.D. Tubings)	8.40
AA111SQ-1	1" Square Tubing	5.77
AA111SQ-1-1/4	1-1/4" Square Tubing	8.68
AA111SQ-1-1/2	1-1/2" Square Tubing	10.31

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-aligning features of the Quick TeeJet System.



Part No.	Description	Pipe Thread	Price
QJ8600-1/4-NYB	Single Swivel	1/4" NPT (F)	8.09
QJ8600-2-1/4-NYB	Double Swivel	1/4" NPT (F)	9.75

SWIVEL NOZZLE BODIES

TeeJet swivel nozzle bodies are primarily for use with tips employed in row crop spraying. For use at pressures up to 125 PSI.

A. Type 4202 Double Swivel Nozzle B. Type 5000 Single Swivel Nozzle C. Type 7450 Compact Double Swivel Nozzle



D. Type 7620 Compact Single Swivel Nozzle E. Type 8600 Single Swivel Nozzle F. Type 8600-2 Double Swivel Nozzle



Item Code	Swivel TeeJet Body Assembly No.	Conn. Female NPT	Material	Swivel Arc Range	Price
A	4202-2-1/4T	1/4"	Brass	280°	26.57
B	5000-1/4T			19.60	
C	7450-2T			35.76	
D	7620-T			28.69	
E	8600-1/4T-NYB	1/4"	Nylon	280°	9.38
F	8600-2-1/4T-NYB			11.34	

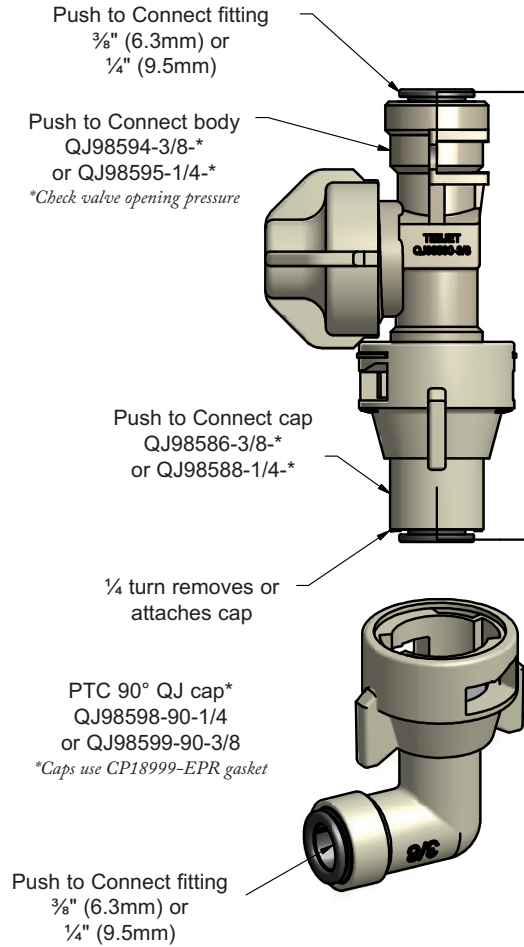
Note: Swivels do not include tips, strainers or caps.

PUSH TO CONNECT

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.

HOW TO ORDER

Part No.	Description	Opening PSI	OD Tubing
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
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
QJ98586-3/8	PTC QJ cap	N/A	3/8" OD tubing
QJ98598-90-1/4	PTC 90° QJ cap	N/A	1/4" OD tubing
QJ98599-90-3/8	PTC 90° QJ cap	N/A	3/8" OD tubing
CP18999-EPR CAP	gasket	N/A	N/A



CHEMSAVER™ DIAPHRAGM CHECK VALVE NOZZLE BODIES

55295 E-CHEMSAVER - 0.9 GPM @ 10 PSI.

Electric 12V solenoid shutoff valve, is normally closed for safety. Maximum 100 PSI spraying pressure at minimum voltage (12V). 0.9 GPM (3.0 LPM) @ 10 PSI . All wettable parts are stainless steel or Viton. Electric charge energizes the solenoid coil to open the valve.



Part No. 55295-1Price: \$205.45
Part No. 55295-2Price: \$205.45



No. 21953 Diaphragm
EPDM or Viton



No. 21950-NYB
ChemSaver End Cap
Assembly Nylon/polypropylene

CHEMSAVER CHECK VALVE

Part No.	Description	Price
CP6227-TEF	Teflon Diaphragm	.84
CP21953-EPR	EPDM Diaphragm	.51
CP21953-VI	Viton Diaphragm	1.62
21950-*-NYB	ChemSaver End Cap1	3.98

* Specify PSI

CHEMSAVER SHUTOFF



Part No.	Description	Price
58140-NYB	ChemSaver Individual Tip shutoff	6.68

Quick TeeJet Nozzle Body	eChemsaver No.
8360, QJ8360, QJT8360	55295-1
13431	55295-1
QJ17560A	55295-1
QJ200 Series, QJ300 Series	55295-1
24216A, 24230A, 24231A	55295-1
QJ39685	55295-1
QJ360E	55295-1
Push-to-Connect Series	55295-1-12
QJ360C	55295-2
QJ22187	55295-2
QJ8355, 8355	55295-2
QJS Series	55295-4-12



TRIGGERJET SPRAY GUNS

MODEL 22670

The 22670 TriggerJet spray gun kit combines the 22650 TriggerJet spray gun with an extension wand and the items listed in features. Maximum pressure rating is 150 PSI

- 22650 TriggerJet spray gun with choice of ¼" or ⅜" hose shank and a ¼" NPT or BSPT (F) thread inlet connection
- Trigger lock permits locking gun in an open position for continuous flow (optional)
- 22665 extension wand with choice of 15" (381 mm) or 24" (610 mm) lengths
- 38720-PPB-X8 adjustable ConeJet spray tip with Viton O-ring
- CP22673-PP 45° and CP22664-PP straight adapters (other capacities available)
- Accepts all standard TeeJet spray tips and tip strainers



Part No.	Extension Length	Inlet Connection	Tip Number	Price
22670-PP-15-1/4	381mm OR 15"	¼" (F) NPT	5500-PPB-X8 (Standard nozzle shipped with Trigger Jet)	48.64
22670-PP-15-300	381mm OR 15"	¼" Hose Shank		48.64
22670-PP-15-406	381mm OR 15"	⅜" Hose Shank		48.64
22670-PP-24-1/4	610mm OR 24"	¼" (F) NPT		56.07
22670-PP-24-300	610mm OR 24"	¼" Hose Shank		56.07
22670-PP-24-406	610mm OR 24"	⅜" Hose Shank		56.07

GUNJET FEATURES AND BENEFITS

- Easy trigger pull at high pressure
- Contour handle is comfortable to use for all hand sizes
- Vented house keeps the handle cool at all times



Designed for long-lasting dependable operation

- High-impact nylon handle and trigger
- Stainless steel valve seat and ball
- Forged brass valve, Teflon back up ring and Viton O-rings
- Maximum operating pressure: 5000 PSI
- Maximum flow capacity: 10 GPM (38 l/min.)
- Maximum operating temperature: 300° F (150° C)
- Inlet connection: ⅜" NPT/BSPT (F)
- Outlet connection: ¼" NPT/BSPT (F)

Extension and swivel kits are available.



⅜" NPT (F) inlet connector

NO. 25990 SWIVEL

Allows operator to concentrate on application without hose interference. ¾ inch (M) NPT connection with ½ inch hose shank. Maximum pressure 150 PSI.

NO. 25657-NYB ADAPTER

Replaces shower nozzle to allow extension wand or standard TeeJet tip to be attached directly to Lawn Spray Gun ¾ inch (F) GHT inlet with 1¼ inch-16 TeeJet thread outlet. Maximum pressure 150 PSI.

NO. 22665 EXTENSION WAND

For low volume spraying applications. Available in both 15 inch and 24 inch lengths, the extension fits on #25657-NYB adapter and has 1¼ inch-16 TeeJet thread outlet to accept all interchangeable TeeJet tips. The extension is supplied with both straight and 45° nozzle bodies. Maximum pressure 150 PSI.

- Interchangeable nozzle tips are color coded for easy identification of nozzle tip size
- Nozzle tips provide a 45° full cone "showerhead" spray pattern
- Convenient trigger lock for continuous spraying
- Options available: hose shank swivel for inlet connection and extension wand and adapters for low volume and spot spraying
- Maximum operating pressure of 200 PSI
- Made of Nylon with Viton O-rings and stainless steel springs



Part No.	Nozzle Tip Number	Nozzle Tip Color	Capacity (GPM) at Various Pressures*						
			2 PSI	4 PSI	6 PSI	8 PSI	10 PSI	15 PSI	20 PSI
25660-1.5	25670-1.5-NY	Gray	1.4	1.9	2.3	2.6	2.9	3.4	4.0
25660-3.0	25670-3.0-NY	Black	2.0	2.7	3.2	3.6	4.1	4.9	5.6
25660-4.0	25670-4.0-NY	Red	2.3	3.1	3.7	4.3	4.7	5.6	6.4

MODEL 30

The 30L GunJet spray gun is also available with extension. Flow rates up to 5 GPM. Maximum operating pressure of 250 PSI. Outlet connection is 1/8 inch-16 TeeJet thread.



Part No.	Price
AA30L-1/4	69.89

TRIGGERJET EXTENSION

22655-PP is for use with 22650-PP TriggerJet spray gun. Maximum pressure rating of 150 PSI (10 bar). Includes straight and 45° adapters. Available in 15 and 24 inch (38 and 61 cm) lengths.



STRAIGHT AND CURVED EXTENSIONS

4673 and 6671—for pressure to 125 PSI (9 bar).

7715—for pressures to 250 PSI (17 bar). Fits models 23L and 31 GunJet spray guns with trigger valves.

Straight w/ Fixed Body	Price	Curved w/ Swivel Body	Price	Curved w/ Fixed Body	Extension Length	Price
7715-8	13.17	4673-8	22.04	6671-8	8" (203 mm)	15.39
7715-18	16.59	4673-18	25.64	6671-18	18" (457 mm)	18.76
7715-24	17.91	4673-24	26.93	6671-24	24" (610 mm)	19.38
7715-30	21.49	4673-30	29.64	6671-30	30" (762 mm)	21.91
7715-36	22.67	4673-36	31.71	6671-36	36" (914 mm)	24.94
7715-48	27.47	4673-48	36.29	6671-48	48" (1219 mm)	28.84

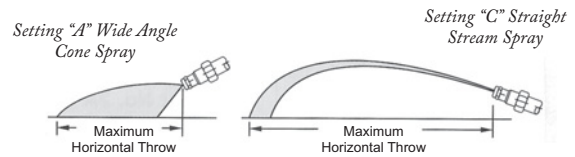
MODEL AA43

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. All models have 1/2 inch NPT (F) inlet connections.

- No. AA43L for operating pressures up to 200 PSI
- No. AA43H for operating pressures up to 800 PSI
- Trigger handle control

Part No.	Operating Pressure (PSI) Range	Made of	Length	Wt. (lbs)	Price
AA43L*	Up to 200	Brass	22"	2	188.13
AA43H*	200 to 800	Brass			188.13
AA43L-AL*	Up to 200	Alum.		3	156.31
AA43H-AL*	200 to 800	Alum.	13"	2.25	156.31
AA43LA*	Up to 200	Brass			170.44
AA43HA*	200 to 800	Brass		170.44	
AA43LA-AL*	Up to 200	Alum.	1.25	149.70	
AA43HA-AL*	200 to 800	Alum.		149.70	

*Specify orifice disc size



How to order: Specify complete GunJet number, material.
Example: 43L-4 Brass

Part No.	Orifice Disc No.	Performance	Operating Data - No. 43L and 43H GunJet Series									
			Liquid Pressure in PSI									
			40 PSI Setting		100 PSI Setting		200 PSI Setting		400 PSI Setting		800 PSI Setting	
A	C	A	C	A	C	A	C	A	C			
43L-2 43H-2	D2	Capacity - GPM	.29	.30	.45	.47	.64	.66	.90	.94	1.3	1.3
		Maximum vertical throw - ft	—	22	—	22	—	23	—	24	—	26
		Maximum horizontal throw - ft	10	32	10	33	10	34	10.5	35	11	35
43L-4 43H-4	D4	Capacity - GPM	.60	.61	.92	.94	1.3	1.3	1.8	1.9	2.6	2.7
		Maximum vertical throw - ft	—	26	—	27	—	28	—	30	—	32
		Maximum horizontal throw - ft	10	36	10	36	10.5	37	11	39	11	40
43L-6 43H-6	D6	Capacity - GPM	1.2	1.3	1.9	2.0	2.7	2.9	3.8	4.1	5.3	5.8
		Maximum vertical throw - ft	—	31.5	—	33	—	34.5	—	36.5	—	38
		Maximum horizontal throw - ft	10	44	10	45	10.5	46	11	48	11	50
43L-8 43H-8	D8	Capacity - GPM	2.0	2.5	3.1	3.4	4.4	4.8	6.2	6.8	8.8	9.6
		Maximum vertical throw - ft	—	33	—	35.5	—	38	—	40.5	—	42
		Maximum horizontal throw - ft	10	45	10	46	10.5	47	11	49	11	51
43L-10 43H-10	D10	Capacity - GPM	2.6	3.2	4.1	5.0	5.8	7.1	8.2	10	10.2	14.1
		Maximum vertical throw - ft	—	35	—	37.5	—	40	—	42.5	—	44.5
		Maximum horizontal throw - ft	10	46	10.5	49	11	50	11.5	52	12	54



GUNJET SPRAY GUNS

For spot spraying, tree spraying, livestock spraying, and power washing at pressures from 30 to 800 PSI.

GUNJET NO. 12A

Length 16 inch. Weight 1-½ pounds, brass. ¾ inch garden hose thread (F) inlet connection.

Part No.	Price
AA12A-6	121.22

GUNJET NO. 18-AL

Length 20 inch. Weight 1 pound, aluminum. ¼ inch NPT (F) inlet connection.

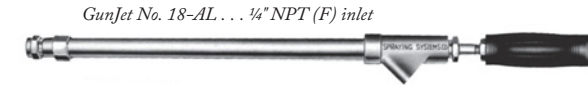
Part No.	Price
AA18-AL6	89.24

SWIVEL

Brass ¾ inch garden hose thread swivel provides leak-proof connection at pressures up to 800 PSI.



Part No.	Price
11740B	39.86



Part No.	Orifice Disc No.	Performance	Operating Data			
			Liquid Pressure in PSI			
			100 PSI Setting		800 PSI Setting	
			A	C	A	C
12-2 18-AL2	D2	Capacity - GPM	.45	.47	1.3	1.3
		Maximum vertical throw - ft	—	22	—	26
		Maximum horizontal throw - ft	10	33	11	35
12-4 18-AL4	D4	Capacity - GPM	92	.94	2.6	2.7
		Maximum vertical throw - ft	—	27	—	32
		Maximum horizontal throw - ft	10	36	11	40
12-6 18-AL6	D6	Capacity - GPM	1.9	2.0	5.3	5.8
		Maximum vertical throw - ft	—	30	—	36
		Maximum horizontal throw - ft	10	45	11	50
12-8 18-AL8	D8	Capacity - GPM	3.1	3.4	8.8	9.6
		Maximum vertical throw - ft	—	32	—	39
		Maximum horizontal throw - ft	10	46	11	51
12-10 18-AL10	D10	Capacity - GPM	4.1	5.0	10.2	14.1
		Maximum vertical throw - ft	33	—	40	—
		Maximum horizontal throw - ft	10.5	49	12	54

SWIVELS

Part No.	Description	Price
11990-10	Brass ¼" (F) NPT x ¼" (F) NPS	18.94
11990-18	Brass ½" (M) NPT x ½" (M) NPT	40.28
11990-19	Brass ½" (M) NPT x ½" (F) NPT	40.28
11990-20	Brass ¾" (F) NPT x ½" (F) NPS	23.88
11990-61	Brass ¼" (F) NPS x ¾" Hose Shank	18.94

BRASS OR POLY ADJUSTABLE CONE TIP

Nozzle has 1/16 inch cap connection to fit most TeeJet guns.

Part No.	Description	Price
5500-PPB-X5	#5 Poly	9.79
5500-PPB-X6	#6 Poly	9.79
5500-PPB-X8	#8 Poly	9.79
5500-X5	#5 Brass	21.49
5500-X6	#6 Brass	21.49
5500-X8	#8 Brass	21.49

SPRAYING AIDES

TEEJET SPRAYER CALIBRATION

Features a 68 ounce (2.0 L) capacity and a raised dual scale in both US and metric graduations. The container is molded of polypropylene for excellent chemical resistance and durability.



Part No.	Description	Price
CP24034A-PP	Calibration Container	45.36
CP20016-NY	TeeJet Tip Cleaning Brush	10.04

CALIBRATION CONTAINERS

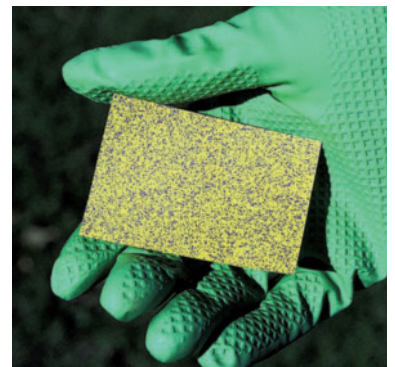
For use with any meter for calibration purposes. Individually calibrated at the factory for maximum accuracy of ± 0.5%. Available in 5 gallons, 5 quarts, or 1 gallon. For non-commercial use only.



Part No. 116000-1 Price: \$136.82

WATER SENSITIVE SPRAY PAPER

These specially coated papers are used for evaluating spray distributions, swath widths, droplet densities, and penetration of spray. Water sensitive paper is yellow and is stained blue by exposure to aqueous spray droplets.



Water sensitive paper sold by TeeJet Technologies is manufactured by Syngenta Crop Protection AG.

Part No.	Description	Price
20301-1N	3" x 1" card; 50 cards/package	47.65
20301-2N	2" x 3" card; 50 cards/package	79.14
20301-3N	1" x 20" strips; 25 strips/package	147.60

JET RINSE CONTAINER CLEANER

Jet Rinse has two parts, the shutoff, and the nozzle. These two parts can be taken apart by unscrewing. The shutoff can be used for hand washing and general clean up.



Part No. 34982Price: \$87.73

12 IN. NITRILE LATEX GLOVES

Offers superior resistance to abrasion, cuts, and punctures. Durable but flexible enough for delicate work. Case hardened, 14 mil. thick. Unlined glove. Size ranges from 9-11.



Part No. 618Price: \$3.04/pair

PVC GAUNTLET INSULATED GLOVES

Part No. 120SGPrice: \$3.77/pair

Part No. 4T431Price: \$33.33/pair



CHAFER LIQUID FERTILIZER STREAMBAR MR

Chafer Streambar MR

Streambars are the most efficient and accurate method of applying liquid fertilizer to a growing crop. The latest, Chafer Streambar MR system speeds up changes in application rate, simplifies installation onto all types of sprayers, and minimizes the risk of damage or twisting while spraying.



Quick and Simple Application Rate Changes

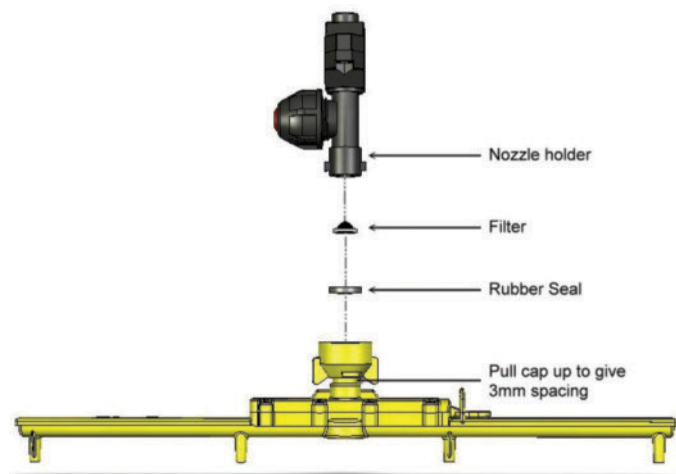
The Streambar MR features an integrated Multi Rate metering system to alter application rate. Instead of removing the bar and changing a restrictor, rates are changed by adjusting the sliding metering mechanism. Six different restrictor options offer a wide range of application rates extending the previous range by two restrictor sizes.

The Multi Rate system saves the expense of purchasing different restrictors and offers large practical benefits. The operator is not exposed to fertilizer when changing restrictors as the metering unit is completely sealed. Rate change can be achieved quickly as the Streambars can remain on the boom and no spare restrictors need to be carried with the sprayer.

- Even application
- Unaffected by boom height
- Reduced crop scorch
- Compact and easy to fit
- Fully serviceable

Part No. MR15Price: \$51.58

Part No. MR20Price: \$51.58



GAUGES & ACCESSORIES

2-½ IN. DRY GAUGE

¼ in. bottom stem, brass



Part No.	Graduation			Psi Range	Price
	Number	Major	Minor		
SG30	5	5	.50	0-30	9.99
SG60	10	10	1	0-60	9.99
SG100	20	10	2	0-100	9.99
SG160	20	20	5	0-160	9.99
SG200	40	20	5	0-200	9.99
SG300	50	50	5	0-300	9.99
SG400	50	50	10	0-400	9.99
SG1000	100	100	20	0-1000	9.99
SG3000	500	500	100	0-3000	10.00
SG5000	1000	1000	100	0-5000	10.00

2 IN. DRY GAUGE

¼ in. center back stem, brass

Part No.	Graduation			Psi Range	Price
	Number	Major	Minor		
SG602C	10	10	1	0-60	9.10
SG1002C	10	10	2	0-100	9.10
SG1602C	20	20	5	0-160	9.10
SG2002C	40	20	5	0-200	9.10
SG3002C	50	50	5	0-300	9.10

4 IN. DRY GAUGE

¼ in. bottom stem, brass

Offers improved visibility for remote installations.

Part No.	Graduation			Psi Range	Price
	Number	Major	Minor		
SG604	10	10	2	0-60	26.33
SG1004	20	20	2	0-100	26.33
SG2004	20	20	5	0-200	26.33

REDUCING COUPLER

Part No.	Size	Price
MF1814B	¼" FPT x ¼" MPT	3.75



GAUGE DAMPENER

Part No.	Size	Price
B301AB	¼"	22.14



...an oil filled 60 PSI pressure gauge that
... will survive longer in the field.

GAUGE DAMPENER

Part No.	Size	Price
50170	Dampener, gauge ¼" nipple	359.07
BAAF	Isolator Only	68.64



4 IN. LIQUID FILLED GAUGE

Stainless case, ¼ in. bottom stem, brass with improved readout visibility for remote installations.



Part No.	Graduation			Psi Range	Price
	Number	Major	Minor		
GG604	10	10	1	0-60	84.09
GG1004	10	10	2	0-100	84.09

4 IN. SS LIQUID FILLED GAUGE

Part No.	Graduation			Psi Range	Price
	Number	Major	Minor		
GG1604-SS	20	20	2	0-160	94.33

2-½ IN. LIQUID-FILLED GAUGE

Stainless case, ¼ in. bottom stem, brass



Part No.	Graduation			Psi Range	Price
	Number	Major	Minor		
GG30	5	5	1	0-30	31.12
GG60	10	10	2	0-60	31.12
GG100	20	10	2	0-100	31.12
GG160	20	10	2	0-160	31.12
GG200	25	25	5	0-200	31.12
GG300	50	50	10	0-300	31.12
GG400	50	50	10	0-400	31.12
GG600	100	100	10	0-600	31.12
GG1000	200	200	20	0-1000	31.12
GG1500	300	300	50	0-1500	31.12
GG2000	200	200	50	0-200	31.12
GG3000	500	500	100	0-3000	31.12
GG5000	1000	1000	100	0-5000	31.12

2-½ IN. LIQUID-FILLED GAUGE

Stainless case, ¼ in. bottom stem, stainless steel



Part No.	Graduation			Psi Range	Price
	Number	Major	Minor		
WGGSS60	5	5	1	0-60	74.52
WGGSS100	20	20	2	0-100	74.52
WGGSS160	20	20	5	0-160	74.52
WGGSS400	50	50	10	0-400	74.52

2-½ IN. LIQUID-FILLED GAUGE

Stainless case, ¼ in. center back stem, brass, with mounting clamp



Part No.	Graduation			Psi Range	Price
	Number	Major	Minor		
WGG60C	10	10	2	0-60	32.32
WGG100C	10	10	2	0-100	32.32
WGG160C	20	10	2	0-160	32.32
WGG200C	25	25	5	0-200	32.32
WGG300C	50	50	10	0-300	32.32
WGG400C	50	50	10	0-400	32.32

Note: Generally, gauges should be selected to read double the maximum working pressure of the application in which it will be used.

FOAM MARKER, PARTS & ACCESSORIES



SIMPSON FOAM MARKERS

Description	Part No.	Price
5 gallon Turf Marker with 30' x 1/2" Hose	5TP/30	1787.27
9 gallon Turf Marker with 50' x 1/2" Hose	9TP/50	1798.18
22 gallon with High Cap. Thomas compressor with 100' x 3/4" Hose	22GTP/100	2356.36
33 gallon with High Cap. Thomas compressor with 100' x 3/4" Hose	33GTP/100	2490.91
25 gallon with High Cap. for 3000/4000 Coupe with Thomas compressor and bracket	25GTP/100-2	2860.00

TP Capacities:
 .6 CFM drawing
 7 amps at 12 volts

GTP Capacities:
 1.3 CFM drawing
 11 amps at 12 volts

Part No.	Description	Price
8000-541-250	Pump	172.36
FM001	Compressor (9TP)	449.09
FM002.5	Compressor (20-33GTP)	840.00
FM203B	Check Valve with HB 1/4" (Grey)	21.09
FM025.8	Wingnut for Lids	2.09
FM030	Gauge U-Air Pressure	15.64
FM034.8	Lid Screw on 5/9/11/22/33/45	19.64
FM035-22	Tank Foam Marker 22 Gal	249.09
FM035-25	Tank Foam Marker 25 Gal	310.91
FM035-9	Tank 9 G 15x19x18 Foam Marker	220.00
EL14	Elbow MP x 1/4"	2.32
FM067	Clamp SCBB	1.00
FM070	Foam Tube Comp Less Valve	89.73
4514-NY-20	Strainer Nylon Slotted	1.39
DC23-NY	Core Nylon	1.47
D1	Disc 01	1.63
D1.5	Disc 01.5	1.63
FM093	Tee Molded Foam SFE	30.55
FM094	Strainer with Hose Barb Ends	18.55
AA144F-1-3	Directo Valve	192.75

Part No.	Description	Price
FM095	Strainer with MPT 1/4"	18.55
FM095.1	Gasket only RVM	1.45
FM095.2	Bowl only RVM	6.64
FM095.4	Screen	4.55
FM096	Swivel nut with Barb 1/4"	1.36
FM114	Blobber	56.36
FM115	Ribbon Foam Drop-Golf Course	15.55
FM120	Boot Foam only	35.45
FM121	Screen only Foam Drop	6.36
FM130	Harness Comp with Control Box	172.73
FM131	Harness Front only with Control Box	116.36
FM132	Harness Rear only	82.73
FM132.5	Harness Extension 15'	75.45
B34	Nut Garden Hose Female	.56
C34	Hose Barb 1/2" Flat Seat	.49
FM164	Solenoid Valve	101.09
FM165	Pressure Regulator Foam Marker	76.97
FMADK1	Foam Adjustment Kit	32.73
FM027-3000	SpraCoupe Mounting Hardware	170.91

GVM FOAM MARKER REPLACEMENT PARTS

Part No.	Description	Price
50147	Blobber	173.67
B4-19	Screen & Ring Assy.	41.20
CH-0	Blobber with Screen Checkvalve	58.35
50149	Air Pressure Regulating Assy. (AC)	108.33
6D915	Air Pressure only (AC)	24.30
1/4AB-30	Pressure Relief Valve	52.02
90FMB14	Manual Relief Valve	13.47
A418P-2	Solenoid Valve	384.97
AA144A-1	144A-1 Directo- Valve (Trust Mark) AC Switch Box	172.04
4Z679	Filter/Silencer Complete	108.64
1R416	Replacement Filter Only	31.39

SMUCKER'S AUTO-MIX LANDMARK INJECTION FOAM MARKER



Injection Foam Marker

Eliminate the conventional foam marker tank. This system has a small canister that holds foam concentrate and then injects the proper amount into water drawn from your fresh water tank. No more mixing foam in a tank. You can get days of foam production with just one gallon of concentrate. It produces high output and long lasting foam. Available in on-board air and standard versions

- Great option for self-propelled sprayers, even if you use GPS
- Free up space and weight on your spray applicator
- 1 gal. canister gives days of marking
- Proven to make the longest lasting foam in the field

Part No. LMOEM3-GVM



Standard Foam Marker

- 25 gal. poly tank
- Approximately 4.25 - 8.25 hr of marking
- Dimensions: 35.75 x 17 x 20 in.
- Thomas air compressor and Shurflo pump
- Includes: 200 ft of tubing, 25 ft harness, switchbox, and 2 premium foam mixing chambers

Part No. LM2500

SUPER SPONGE WEED WIPER



Wipe Out Weeds with No Drift and Less Chemical

Use Smucker's unique sponges to wipe out taller growing weeds in your pastures and field crops. Since 1984 Smucker has been building quality weed wipers that utilize a cellulose sponge to apply Round-up and other chemicals to the target weeds. Our sponge puts more product on weeds than most wipers on the market, and it is easy to keep the sponges from dripping.



- Easily add sponge kits to any size spray boom
- ATV models: 5, 10 and 15'
- Front bucket models: 10, 15, and 20'
- 3-Point Hitch models: 10, 15, 20, and 25'
- Pull type models: 10, 15, 20, 30, and 40'
- Self-propelled models: 5-120'

FOAM CONCENTRATE & SPRAYING ACCESSORIES

Call for Volume Discount.
Chemicals subject to change without notice.
Call for current availability and pricing.

ACCESSORIES

GVM FOAM CONCENTRATE

- Concentration level = 100:1
- 1 gal. container



Part No. 45764 (Note: 4 bottles per case).....Price: \$55.15

ALL WEATHER FOAM CONCENTRATE

- Highest concentration levels available: 160:1
- 1 gal. container
- Will not burn turf
- Lasts 30 minutes to 2 hours
- Cost effective



Part No. 1BUF.GAL (Note: 4 bottles per case)Price: \$95.15

BENCHMARK FOAM MARKING AGENT

- Concentration levels available: 160:1
- 1 gal. container
- Long lasting for a range of weather & field conditions
- Thick, white, highly visible foam
- Works with any foam marker for fertilizer and pesticide applications, seed planting, & general field cultivation



Part No. 16814 (Note: 4 bottles per case).....Price: \$75.76

SPRAY TRACER

Spray Tracer is a specially blended colorant developed for mixing with Roundup® herbicide to color areas which have been treated, increasing the efficiency of spot treatment applications.

- Indicates skips and overlaps
- Formulated for compatibility with Roundup herbicide



Part No.	Description	Price
1STP.QTS	Spray Tracer, Purple - 1 qt.	26.62
1STR.QTS	Spray Tracer, Red - 1 qt.	36.36
176875	Spray Tracer, Cool Blue - 1 qt.	80.30
176876	Spray Tracer, Hot Pink - 1 qt.	80.30

Note: 12 bottles per case

SPRAY TANK CLEANER

Spray tank cleaners are a powerful and safe way to remove pesticide residues from your spray equipment. They effectively clean and remove pesticide residue left by 2, 4-D, and sulfonylureas, residues that are hard to remove and extremely active at low rates.

- Non-corrosive
- Safe for agricultural, pest control and turf use
- Help prevent cross-contamination
- DuPont® approved



Part No.	Description	Price
1TC.2LB	Tank Cleaner - 2 lb*	25.45
199193	Clean Supreme - 1 gal.**	106.06

Note: *12 bottles per case, **4 bottles per case

LIQUID ANTIFOAM AGENTS

Eliminates unwanted foaming in spray applications involving recirculating sprayers and other high agitation equipment.



Part No.	Description	Price
1SD.QTS	Anti-Foam - 1 qt.*	29.55
77397	Fome-Kil - 1 qt.*	37.88
77251	Fome-Kil - 1 gal.**	131.82

Note: *12 bottles per case, **4 bottles per case

FOAM DYE

Adding Foam Dye concentrate to the foam marker solution turns the foam to a red, bright yellow, or blue color. It helps to guide operators by making foam clearly visible even in conditions most challenging to visibility.



Part No.	Description	Price
1BFR.PTS	Dye - Red - pint*	41.97
176894	Super Signal, Blue - 1 qt.**	53.03
243771	Super Signal, Green - 1 qt.**	68.18

Note: *6 bottles per case, ** 12 bottles per case

GEOMELT DE-ICING PRODUCTS



GeoMelt is an agricultural byproduct of the sugar beet industry. Using GeoMelt in conjunction with rock salt or salt brine will enhance the melting power of the chemicals to 0°F or lower. This patented product also works with other deicing liquids and when added to salt or salt brine, is 60% less corrosive than rock salt alone. GeoMelt allows you to “go green”, helping to preserve the environment, while also using less materials. It is an effective and economical solution to deicing roads, walkways and parking lots.

Economical

- Reduces salt consumption
- Reduces labor
- Increases equipment life

Effective

- Works longer; 2-3 days residual
- Works in temperatures as low as -30°F

Environmentally Friendly

- Less corrosion to surfaces
- Less harmful to green spaces

UNITED TRUCK PARTS DMI HITCHES

QUIC'N EASY™ RECEIVER HITCH

The original DMI heavy duty tow system was the first proximity hitch on the market. It remains one of the most innovative designs in the world, and is the ultimate in towing systems for the recreational user.

The Quic' Easy is the ideal tow package

- Heavy duty tube style receiver
- SAE rated category IV receiver hitch

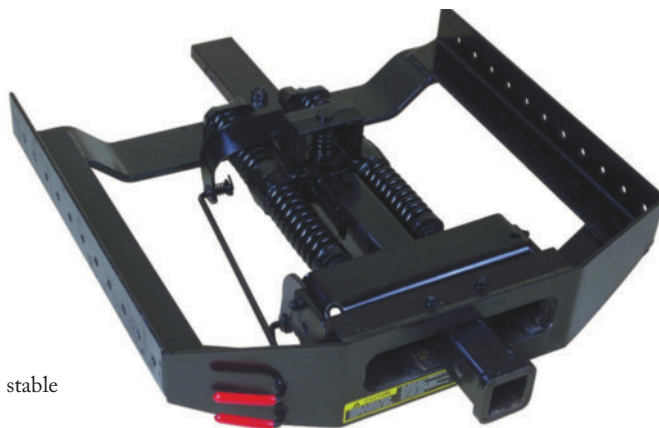
Perfect for SUV's and light duty trucks

- Meets or exceeds the towing capacity for all full size SUV's
- Improved load distribution means your vehicle remains level and more stable

Reduced maintenance costs, improved ride and load safety

- Patented tow cushion system practically eliminates tow shock, great for you and your passengers
- Stops and starts are firm and even, no more jerky starts
- Ideal for horses or other livestock, fewer bumps and bruises

Part No. 47070007



QUIC-CUSH'N 2™ RECEIVER HITCH

The newest DMI heavy duty premier towing system is the largest most versatile hitch yet. This SAE rated category V hitch is so durable, that you will wear out three trucks before the UTP-DMI system wears out.

- Tow what you need. Factory fit drop. Confidently, tow 14,000 lb with up to 1400 lb of tongue weight.
- Load spread feature, distributes tow load over larger area for less stress on truck frame.
- Easy, one person hookup. Pulls out 11 in., swings 17 in. providing first time, every time proximity.
- Heavy duty locking pin. Safety assured with a 1 in. diameter locking pin.
- Quick and safe, the full range spring package allows for cushioned towing that will not lock up with rust.

Part No. 47070001



CUSH'N COMBO™ RECEIVER HITCH

Rig your truck for heavy haulin'

United Truck Parts developed the Super Heavy Duty Cush'n Combo to address the needs of the work truck. The added security of a 1 in. solid steel drawbar along with guide surfaces designed for a heavier workout gives the SAE rated Category V Cush'n Combo an extra margin of capacity for moving heavier loads.

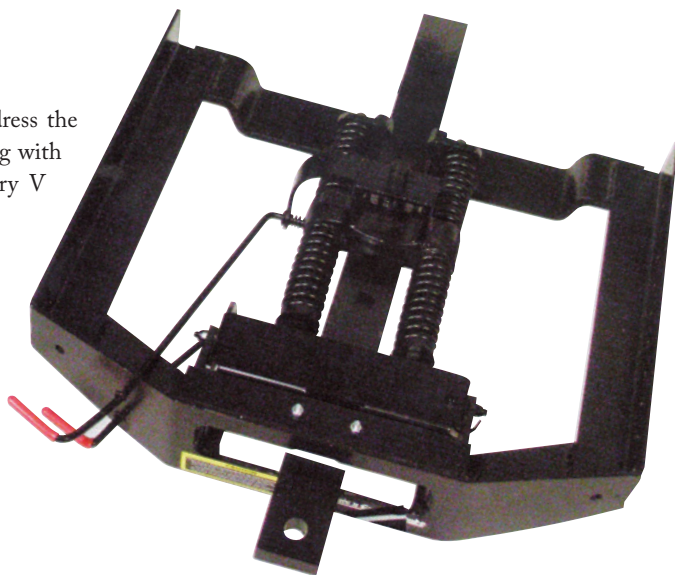
Versatility to match your load

- Works with any receiver type
- Clevis
- Pintle hook
- Ball
- Up to 2,000 lb tongue weight capacity
- Up to 14,000 lb towing capacity

Safer towing with less wear and tear

- Deep on-frame mounting, better load distribution
- Exclusive tow cushion system
- Reduced load shifts
- Great for livestock or other "fragile" cargo
- Improved stability, reduces driver fatigue
- Less frame fatigue and lower maintenance costs

Part No. 47090001





CYLINDERS—WELDED

Part No.	Description	Price
C20-189A	2" x 18"	1313.13
C25-197A10	2-½" x 10"	854.95
C25-184A	2-½" x 8"	757.58
C25-185A	2-½" x 16"	772.73
C25-186A	2-½" x 24"	984.85
C30-240A	3" x 12"	969.70
C30-243A-L	3" x 12" Left	1358.59
C30-243A-R	3" x 12" Right	1358.59
C30-278A	Rephase Orificed	1260.33
C35-132A	3-½" x 8"	1020.20
4364	Tilt Cylinder 3" x 12"	805.35
7267	Tilt Cylinder for 120' Boom	1694.20

SEAL KITS FOR WELDED CYLINDERS

Part No.	Cylinder	Price
4C3064	030096	68.28
4C3141	03094 & 030097	161.61
4C3145	030125	30.71
4C3640	C20-189A	23.00
4C3641	030095	161.61
SKC25-184A	C25-184A & C25-197A10	63.22
SKC25-185A	C25-185A	65.36
SKC25-186A	C25-186A	69.38
SKC30-240A	C30-240A	69.34
SKC30-243A	C30-243A (L & R)	71.36
SKC30-259A	04-00034	70.36
SKC30-261A	04-0034-HD	70.36
SKC30-278A	C30-287A	60.91
SKC30-313A	7267	81.61
SKC30-319A14	C30-319A14	79.20
SKC35-132A	C35-132A	76.48



THE CHARCOAL AIR FILTER KIT

Filters dust particles and helps to eliminate dust in the cab. It operates when the air conditioner is on "norm".

Part No.	Description	Price
19512	F350-F450 up to 1997	115.76
19200	F550 from 1999-2005	128.03
19800	F350, F550 from 2006 to present	128.03

REPLACEMENT FILTER

Part No.	Description	Price
R19512	F350-F450 up to 1997	43.18
R19200	F550 from 1999-2005	43.18
R19800	F350, F550 from 2006 to present	43.18

CYLINDERS—TIE ROD

Part No.	Description	Price
211-099	2" x 4"	242.42
211-103	2" x 8"	248.48
211-108	2" x 18"	306.06
211-112	2-½" x 8"	281.82
211-117	2-½" x 18"	363.64
211-164	2-½" x 30"	521.21
211-348	3" x 8"	378.79
211-122	3" x 10"	339.39
211-127	3" x 18"	418.18
211-166	3" x 40 ¼"	593.94
172-200	1" pin for cylinders	9.82

SEAL KITS FOR TIE ROD CYLINDERS

Part No.	Cylinder	Price
203-001	2" Cylinder, 1-⅛" Rod	60.61
203-002	2-½" Cylinder, 1-⅛" Rod	69.70
203-003	3" Cylinder, 1-¼" Rod	75.76
203-004	3-½" Cylinder, 1-¼" Rod	81.82
203-011	2-½" Cylinder, 1-¼" Rod	69.70
203-029	3" Cylinder, 1-½" Rod	75.76



GRILL PROTECTOR

Part No.	Model	Year	Price
34806	F550	99-00	330.58
32230	F350, F450	92-95	330.58
32238	F350	87-91	330.58
11871	Stud		2.50
10128	Cap & Socket		2.07

NOTE: Model F350 uses 17 studs and caps, Model F550 uses 20 studs and caps



PROWLER FILTERS & FILTER KITS

250 HP CUMMINS 1998 & EARLIER

Kit Part No. 34866

Kit Includes:	
Oil Filter	LF3000
Water Filter	L060017
Fuel Filter (on engine)	FS1251
Transmission Filter	AT120444
Hydraulic Filter (spin on filter)	HF7996
Air Filter	AF424M
Safety Air Filter	AF820M
Cab Filter (charcoal)	FS70H

200 HP 1999 TO 2001 MODELS

Kit Part No. 34868

Kit Includes:	
Oil Filter	LF3959
Primary Fuel Filter (on. hyd. tank)	FS1212
Secondary Fuel Filter (on engine)	FS1251
Transmission Filter	AT120444
Hydraulic Filter	P163903
Primary Air Filter	AF424M
Safety Filter	AF820M
Cab Filter (Charcoal)	FS70H
Cartridge Desiccant	109493X

250 & 260 HP 2002 & NEWER

Kit Part No. 34870

Kit Includes:	
Oil Filter	LF3000
Water Filter	L060017
Primary Fuel Filter (on hyd. tank)	FS1212
Secondary Fuel Filter	FS1251
Transmission Filter	AT120444
Hydraulic Filter	P163903
Air Filter	AF424M
Safety Filter	AF820M
Cab Filter	FS70H

200 HP CUMMINS 1998 & EARLIER

Kit Part No. 34867

Kit Includes:	
Oil Filter	72501532
Fuel Filter (on engine)	FS1251
Transmission Filter	AT120444
Hydraulic Filter (on side of tank)	HF7996
Air Filter (for 12" filter)	AF418M
Cab Filter (charcoal)	FS70H

200 HP 2002 & NEWER

Kit Part No. 34869

Kit Includes:	
Oil Filter	LF3959
Primary Fuel Filter (on. hyd. tank)	FS1212
Secondary Fuel Filter (on engine)	FS1251
Transmission Filter	AT120444
Hydraulic Filter	P163903
Air Filter	AF424M
Safety Filter	AF820M
Cab Filter (Charcoal)	FS70H

PERKINS ENGINES EXCEPT PEACH RUN

Prowler Filter Kit Part No. 34871

Kit Includes:	
Oil Filter	LF3333SC
Primary Fuel Filter	FS19530
Secondary Fuel Filter	FS19531
Air Filter	AF418M
Transmission Filter	AT120444
Hydraulic Filter	HF7996
Cab Filter (Charcoal)	FS70H

275 HP 2004 WITH QSC ENGINE

Kit Part No. 34890

Kit Includes:	
Oil Filter	LF3970
Primary Fuel Filter (on. hyd. tank)	FS1212
Secondary Fuel Filter	FS19519V
Transmission Filter	AT120444
Hydraulic Filter	P163903
Air Filter	AF1828
Safety Filter	AF1894M
Cab Filter	FS70H

300 HP 2004 WITH QSC ENGINE

Kit Part No. 34891

Kit Includes:	
Oil Filter	LF3970
Water Filter	WF2074
Primary Fuel Filter (on. hyd. tank)	FS1212
Secondary Fuel Filter	FS1022
Transmission Filter	AT120444
Hydraulic Filter	P163903
Air Filter	AF1828
Safety Filter	AF1894M
Cab Filter	FS70H

275 HP QSB WITH DF250 10 SPEED, 2006

Kit Part No. 34925

Kit Includes:	
Oil filter	LF16015
Fuel filter (primary)	FS1212
Fuel filter (secondary)	FS19519V
Transmission filter for DF250	YZ104780
Hydraulic filter	P163903
Air filter - primary (Donaldson)	AF1828
Safety Filter - secondary (Donaldson)	AF1894M
Air filter - primary (Fleetguard)	AF26124
Safety filter - secondary (Fleetguard)	AF26125



PROWLER, PREDATOR & HYDRA SPRAY FILTER KITS

2007 - PRESENT PROWLER, 275 HP QSB

Kit Part No. 34957

Kit Includes:	
Oil Filter	LF3970
Fuel filter (primary)	FS1212
Fuel Filter (secondary with sensor)	FS19596
Transmission Filter for DF250	YZ104780
Hyd Tank Filter for E498-756	V5.1260.06
Safety Filter	AF26125
Fuel Filter	FF5421
Air Filter	AF26124
Cab Filter	FS70H

E370 & E325 PROWLER, QSL ENGINE

Kit Part No. 34994

Kit Includes:	
Oil Filter	LF9009
Fuel filter (primary)	FS19727
Fuel Filter (secondary with sensor)	FF5580
Transmission Filter for DF250	HF6834
Hyd Tank Filter for KFS-4906	K7.0833-06
Primary Air Filter	AF55015
Secondary Air Filter	AF55309
Desiccant Filter	5008414

PREDATOR, 4 CYLINDER CUMMINS

Kit Part No. 34872

Kit Includes:	
Air Primary	AF434KM
Air Secondary	AF804M
Oil 4 Cylinder	LF3959
Hydraulic Filter	HF6057
Cab Air Filter	JD30V
Fuel Filter (remote mount)	FS1212
Fuel Filter (on engine)	FS1251
Transmission Filter (4 spd. Allison)	29540976

2008 PREDATOR, 215 HP CUMMINS (6215)

Kit Part No. 34959

Kit Includes:	
Filter Hyd 2008 Predator 72-02268	300689
Oil Filter	LF16015
Air Filter	AF26124
Filter Safety Inner	AF26125
Fuel Filter	FF5421
Fuel Filter Tier III Prowler	FS19596
Cab Filter (carbon adj.)	JD95R
Transmission Filter	29539579
Recirculation Filter	AH115836

PREDATOR FILTERS 6 CYLINDER CUMMINS (9504, 9904, 9905, 1146T)

Kit Part No. 34873

Kit Includes:	
Air Primary	AF434KM
Air Safety	AF804M
Oil 6 Cylinder	LF3959
Hydraulic Filter	HF6057
Cab Filter (charcoal)	JD30V
Fuel Filter Remote	FS1212
Fuel Filter (on engine)	FS1251
Fuel Filter (on engine)	39033410
Transmission Filter (5 spd. Allison)	29539579
Cartridge	L09493X

PREDATOR, 240 & 275 HP CUMMINS (8240, 8275)

Kit Part No. 34960

Kit Includes:	
Filter Hyd 2008 Predator 72-02268	300689
Oil Filter	LF16015
Air Filter	AF26124
Filter Safety Inner	AF26125
Fuel Filter	FF5421
Fuel Filter Tier III Prowler	FS19596
Cab Filter (carbon adj.)	JD95R
Transmission Filter	29548988
Recirculation Filter	AH115836

PREDATOR, 6 CYLINDER CUMMINS (5185, 6185, 6200, HC6T)

Kit Part No. 34971

Kit Includes:	
Air Primary	AF434KM
Air Safety	AF804M
Oil 6 Cylinder	LF3959
Hydraulic filter	P163903
Cab Filter (charcoal)	JD30V
Fuel Filter Remote	FS1212
Fuel Filter (on engine)	FS1251
Fuel Filter (on engine)	39033410
Transmission Filter (5 spd. Allison)	29539579
Filter Disiccant for K021610	5008414

F550 FORD

Kit Part No. 34874

Kit Includes:	
Oil Filter	FS1298
Fuel Filter	LF3630
Air Filter K&N (Dec. 98 & earlier)	33-2123
Air Filter K&N (Dec. 98 & after)	33-2248
Hydraulic Filter	HF7996
Cab Filter (charcoal)	19200
Cab Filter Replacement	R19200

PARTS & ACCESSORIES

F550 HYDRA SPRAY PARTS/ACCESSORIES

CONTROL PANEL

Part No.	Description
2260886	Switch Joystick 3 way
2260887	Switch Joystick 5 way
44324	Rocker Switch Body DPDT Momentary
44305	Rocker Switch Body SPST 1 Lamp
44326	Rocker Switch Body DPDT (On-Off-On)
44351	Actuator, Rocker Switch (No Light)
44352	Actuator, Rocker Switch (1 Light)
44355	Actuator, Rocker Switch (2 Lights)
24401	Continuous Duty Solenoid
90-02008	Console (TeeJet Technologies)
063-0171-446	GVM Console (Raven)

BOOM PARTS

Part No.	Description
04-00045	Right Boom Tip
04-00046	Left Boom Tip
12799	Hydraulic Boom Lock Cylinder
50322	Boom Protector
12840	¼" x 20 x 1-½" U-Bolt For Boom Protector
S66502*	Breakaway Shock
030094	Welded Cylinder 2-½" x 10 (TILT)
C25197A10	Foldback Cylinder Weldment
C20198A	Back Rack Lift Cylinder
24-00051	Right Fold Hinge Weldment
24-00052	Left Fold Hinge Weldment
50357-95	Fold Hinge Pin (2 Per Hinge)
50220-95	Boom Tilt Pin

*Requires (2) FDC bushings per shock

MISCELLANEOUS ACCESSORIES

Part No.	Description
8002-793-238	Exterior Pressure Washer Pump
AA30L- 1/4	Exterior Pressure Washer Gun
02-00005	Boom Valve
50527	Stainless Steel Nozzle Box
XREX-LAN-CL712	Hydraulic Relief Valve, 30 GPM
XRGX-LAN-CM712	Hydraulic Relief Valve, 60 GPM
770-712	Coil for XRGX-LAN & XREX-LAN
851009-012VDC	Coil Only (For old style YREH & YRCH)



RICHWAY NOZZLE STOPS

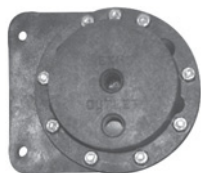
The Richway Nozzle Stop is a new method for instant shutoff of individual sprayer nozzles. With a nozzle stop system, you can eliminate costly nozzle drip and put an end to burned spots and streaks caused by misapplied chemicals. Nozzle stop valves are easily installed, one per nozzle, on all spraying equipment.



Richway Nozzle Body



Richway Nozzle Sleeve



Richway Isolator Valve

RICHWAY REPLACEMENT PARTS

Part No.	Description	Price
NZ92-09	Sleeve Insertion Tool	34.31
NZ7081	Isolator Valve	63.06
NZ92-18	Isolator Valve Diaphragm	17.31
NZ92-19	Isolator Valve Check Valve Element	22.10
A4ME4	Elbow (QC), ¼" T x ¼" M	6.75
A4TU4	Tee (QC) ¼"	5.75

Part No.	Description	Price
NZ6-03	Replacement Sleeve	36.24
NSC-06	End Cap ¾"	15.45
NSC-08	End Cap, 1"	15.45
A4UC4	Union, ¼" (qc)	2.86
NZ6-04	Control Switch Assy.	149.76
NZ6-06	Tee, Inline ¼"	7.88
NZ6-11	Elbow, ¼" M x ¼" T	5.50
A4TMC4	Stem, ¼"	1.35
NZ92-06	Union, ¼"	4.87

Part No.	Description	Price
NSV-68NF	Nozzle Stop Valve only ¾" x 1"	107.18
NSV-66NF	Nozzle Stop Valve only ¾" x ¾"	107.18

**WL36 LOADER**

Description	Kit Part No.	Price
Filter Kit (w/o 1000231367 hyd. filter)	1000231471	430.85
Kit Includes:		
Fuel filter	1000197229	17.85
Fuel filter	1000199580	46.85
Air filter, primary	1000087796	66.00
Air filter, secondary	1000000365	64.30
Valve cover seal	1000203390	99.12
Oil filter	1000231366	42.85
Hydraulic filter	1000231365	114.52
Hydraulic filter	1000231367	76.88
Hydraulic tank vent	1000231370	58.76

WL37 LOADER

SN: 3014727 and below

Description	Kit Part No.	Price
Filter Kit (w/o 100023136 hyd. filter)	1000231472	317.12
Kit Includes:		
Hydraulic filter	1000231365	114.52
Air filter, secondary	1000000365	64.30
Air filter, primary	1000087796	66.00
Fuel filter (inline)	1000231392	8.24
Oil filter	1000108955	37.21
Fuel filter	1000108956	71.03
Seal	1000109037	42.27
Hydraulic filter (insert)	1000231367	7.18

SN: 3014727 and above

Description	Kit Part No.	Price
Filter Kit (w/o 100023136 hyd. filter)	1000279423	456.03
Kit Includes:		
Hydraulic filter	1000231365	114.52
Air filter, secondary	1000000365	64.30
Air filter, primary	1000087796	66.00
Fuel filter	1000231392	8.24
Oil filter	1000108955	37.21
Fuel filter	1000279420	66.12
Seal	1000109037	42.27
Hydraulic filter	1000231367	76.88

MISCELLANEOUS ACCESSORIES

Description	Kit Part No.	Price
Fuel filter (optional)	1000279359	333.30
Fuel line clamp	1000222603	1.45
Alternator belt	1000226633	47.03
Water pump belt	1000226632	58.67
Hydraulic tank vent	1000231370	58.76

550 LOADER

Description	Kit Part No.	Price
Maintenance Kit, 50 hour	1000264878	172.00
Maintenance Kit, 500 hour	1000264879	151.48
Maintenance Kit, 1500 hour	1000264880	387.00
Kit Includes:		
Oil filter	1000178875	50.48
Fuel filter	1000172001	77.76
Water separator filter	1000078938	154.48
Fuel filter (optional)	1000180500	177.06
Air filter, secondary	1000087796	66.00
Air filter, primary	1000000365	64.30
Cab filter	1000272356	30.30
V-Belt	1000291012	37.82
V-Belt	1000266559	74.27
Hydraulic tank screen	1000267866	30.91

750T LOADER

SN: 346110264 and above

Description	Kit Part No.	Price
100 Hour Kit	1000252977	213.30
500 Hour Kit	1000182667	174.85
1500 Hour Kit	1000252980	362.85
Kit Includes:		
Oil filter	1000000351	12.79
Fuel filter	1000160529	218.21
Air filter, secondary	1000087796	66.00
Air filter, primary	1000000365	64.30
Cab filter	1000137208	53.58
Fuel fill screen	1000028238	67.67
Hydraulic filter	1000109117	99.79
O-ring (hydraulic filter)	1000109119	98.67

MISCELLANEOUS ACCESSORIES

Description	Kit Part No.	Price
Alternator belt	1000182342	71.03
Water pump belt	1000164331	49.06
AC belt	1000173138	59.12
Battery	1000250323	259.94
Hydraulic oil, 5 gal.	0173456	159.00
Hydraulic oil, 55 gal.	0173457	1483.58
Brake fluid	1000126309	37.03
Anti-corrosion (spray can)	1000030299	52.85
Anti-corrosion (10 L can)	1000099651	44.85
Tool Kit	1000029573	479.76
Towing pin	1000036697	42.85



VERSATILE SX275 SPRAYER

Description	Part No.	Price
Filter, engine oil, QSB6.7	86040789	41.75
Filter, fuel-water separator,QSB6.7, QSC 8.3	86038508	72.27
Filter, fuel secondary QSB6.7	86040791	83.27
Filter, element auxiliary, fuel-water L4WD	86033134	32.67
Filter, air cleaner, primary	SX017301SP	236.85
Filter, air cleaner, secondary	SX017299SP	143.88
Filter, transmission, qty. 2	SX018362SP	304.61
Filter, cab air (charcoal)	SX018363SP	743.67
Filter, recirculation, cab	SX019939SP	323.67
Filter, dryer/recirculation AC system	SX017750	391.67
Filter, hydraulic, 10 micron	SX017350SP	245.30
Belt, fan, alt SX275	SX019935SP	199.79

VERSATILE 350 TRACTOR

Description	Part No.	Price
Filter, engine oil	86043674	148.85
Filter, fuel secondary	86051378	309.52
Filter, coolant QSX15 engine	86034029	117.06
Filter, fuel-water separator, assembly 10 micron (aux.)	86043688	1150.30
Filter, 10 micron	86044106	36.39
Filter, air primary	86043053	402.30
Filter, air primary, qty. 2	86047760	448.03
Filter, air secondary	86043054	227.48
Filter, air secondary, qty. 2	86047761	183.33
Filter, head-hydraulic filter assembly with switch - DIX	86026540	294.97
Filter, hydraulic oil, 12 xp	86040230	160.42
Filter, hydraulic oil, Hydra Flow	86029162	105.15
Strainer, suction steel mesh, hydraulic tank	86032678	142.58
Screen, suction, CAT 16 spd, powershift trans.	86036075	429.33
Filter, cab clean air	86045910	60.36
Filter, ricirculation	86047080	21.30
Belt, fan	86053226	455.45
Belt, fan, QSX 11.9 BVI	86053228	118.82
Belt, compressor	86053227	163.94
Belt, fan QSX 11.9 BVI branded	86036209	94.42
Cord, electric, engine heater, 120 volt	86036709	64.45

VERSATILE 260 TRACTOR

Description	Part No.	Price
Filter, engine element, long life	86029587	104.79
Filter, fuel-water separator, QSB6.7, QSC 8.3	86038508	72.27
Filter, fuel element, QSC 8.3	86038509	40.09
Filter, coolant conditioner (with additives)	86029672	37.06
Filter, coolant conditioner (without additives)	86031985	37.73
Filter, air cleaner, primary	8604763	30.03
Filter, air cleaner, primary, 1200 air cleaner	88662390	580.39
Filter, air cleaner, secondary	86047462	138.06
Filter, air cleaner, secondary, 1200 air cleaner	88662391	138.06
Gilter, hydraulic oil, hydraulic plus	86029162	105.15
Screen, inlet, suction Mega Flow	09821401	202.94
Filter, cab, fresh air	86045910	60.36
Filter, recirculation	86047080	21.30
Belt, poly V, 2420	86053195	107.00

VERSATILE 550 TRACTOR

Description	Part No.	Price
Filter, hydraulic suction	63290	270.59
Filter, transmission oil	86030683	65.82
Air outer	63971	290.55
Air inner	63972	234.56
Filter	68018	286.66
Filter, fuel	61559	66.37
Filter, engine oil	86546625	40.55
Filter, engine pre-charger	2603	2.76
Filter, hydraulic return	63297	196.23
Coolant/water separator	86029145	21.45
Fuel element	89112	94.92
Filter, engine oil	86546626	46.61



Part No.	Description
E325 AND E370 PROWLER	
379562	380/105R50 168D Firestone
13098	12" x 50" Rim for 379562
D247HA	650/85R38 173A8B/D Titan
W38-20800	Floater Rim for D247HA
4H2491	710/70R42 Titan
17935ACW	23" x 42" for 4H2491
PROWLER/PREDATOR TIRES	
48S832	14.9R46 Tire (Stubble Guard)
4DT7H2	380/85R46 Goodyear Dyna Torque RAD
4US032GY	380/90R46 Goodyear Ultra Torque
4DT5G7	420/80R46 Goodyear Dyna Torque RAD
W46-03500	46" x 12" Wide (1" Offset) Rim
W-4600600	46" x 12" Wide (3" Offset) Rim
W-4601400	46" x 12" Wide (4.5" Offset) Rim
178-330-324	18.4R46 Goodyear Dyna Torque RAD
EXP2222	46" x 16" Wide (3" offset)
EXP2221	46" x 16" Wide (4.5" offset)
30427	24" x 30.5" Rim
30434	28" x 30.5" Rim
32872509	650/60R 30.5 Trelleborg 404
30422	20" x 30.5" Rim
178-095-324	650/75R32 Goodyear Dyna Torque
W2132	21" x 32" Rim (0° offset)
178-238-324	800/65R32 Goodyear Dyna Torque
WH2732	27" x 32" Rim (0° offset)
49V743	320/90R54 Titan
178-084-762	320/105R54 Goodyear DT800 RAD
34858	10" x 54" (3" offset) Rim
38464	10" x 54" (4.5" offset) Rim
170-282-055-0	11.25R28 Goodyear Ribbed Implement
48D612	12.4R x 28 Titan Hi-Power Lug Tire
34859	10" x 28" Rim
165-758-315	17.5R24 Goodyear IT525
74-00706	15" x 24" Rim

Part No.	Description
HYDRA SPRAY TIRES	
LT285	9.00 x 16 McCreary
W-633800	16" x 8" Rear Rim @ 68" 8 on 6.5
310-518-229	38 x 20.00-16.1 Goodyear Terra 8-Ply
W-637900	16" x 16.1 Rear Terra Rim
SWR1680	16.5" x 9.75 Front Rim @ 72" 8 on 6.5
W-635600	16.5" x 9.75 Rear Rim @ 72" 8 on 6.5
SWR1683	16.5" x 9.75 Front Rim @ 68" 8 on 6.5
W-752900	17.5" x 10.50 Front Rim @ 73" 8 on 6.5
W-752900	17.5" x 10.50 Rear Rim @ 61"-73" 8 on 6.5
W-753400	17.5" x 10.50 Front Rim @ 73" 10 on 7.25
W-753400	17.5" x 10.50 Rear Rim @ 61"-73" 10 on 7.25
6008B	9/16" Valve Stem
323004	40 X 19 X 19.5 14-Ply Tire Firestone
83295	19.5" x 14" Rear Rim 8 on 6.5 (F350)
81605/84821	19.5" x 14" Rim 8 on 8.5 (F550)
122-208-620-6	9.00 x 20 10 Ply x grip
138-366-759	9.00R x 20 Goodyear 12 Ply
SWR2103	20" x 7.5" Front Rim @ 64" 8 on 6.5
SWR2104	20" x 7.5" Rear Rim @ 64" 8 on 6.5
SWR2088	20" x 7.5" Front Rim @ 68" 8 on 6.5
SWR2090	20" x 7.5" Rear Rim @ 68" 8 on 6.5
SWR2099	20" x 7.5" Front & Rear Rim 72" 8 on 6.5
SWR2112	20" x 7.5" Front Rim @ 68" 10 on 7.25
SWR2114	20" x 7.5" Rear Rim @ 68" 10 on 7.25
SWR2127	20" x 7.5" Front Rim @ 72" 10 on 7.25
R8020LW	20" x 7.5" Side Ring
756-817-453	295/75R 22.5 G164 LR G Tire
12834	22.5 x 8.25 Rim 5.25 offset (Front) (F550)
12835	22.5 x 8.25 Rim 2.25 offset (Rear) (F550)
34860	275/80R-22.5 XZDY Tire Michelin
138-803-230	Tire 11R 22.5 (2005 F550)
34893	Rear Rim 22.5 x 8.25, 10 Bolt, 3" offset (2005 F550)
34894	Rear Rim 22.5 x 8.25, 10 Bolt, 6.625" offset (2005 F550)

TIRES & RIMS



9.00 x 16 McCreary



31 x 15.50-15 Traction



38x20.00-16.1NHS 8 Super
Terra Grip HF-2

Please specify front or rear when ordering your tires

Part No.	Description
PICK UP TIRES	
138-769-774	10R x 22.5 Goodyear G-124 LRF... (F550)
W-223600	22.5" x 7.5" Front Rim @ 68" 8 on 6.5... (F350)
W-222900	22.5" x 7.5" Rear Rim @ 68" 8 on 6.5... (F350)
W-224400	22.5" x 7.5" Front & Rear Rim @ 72" 8 on 6.5... (F450)
W-225700	22.5" x 7.5" Rear Rim @ 68" 10 on 7.25 (F450)
W-222200	22.5" x 7.5" Front Rim @ 72" 10 on 7.25 (F450)
FLOATER TRUCK TIRES	
33848	20.5" x 20" 10 Hole Budd Rim
33661	20.5" x 20" 10 Cast Spoke Rim*
33662	26" x 20" 10 Hole Budd Rim
33660	26" x 20" 10 Cast Spoke Rim
U12.25X22.5	12.25 x 22.5 Rim D-Mount
156-280	15-22.5 16 Ply Firestone
COUPE TIRES	
171-493-426	9.5 - 16 6-Ply Traction Tire
81552	W8L - 16 6 on 6 Rim
6624387	15 x 13 6 on 6 Rim
6631042	6.00 x 16 Rim
6635883	5.50 x 16 Rear Rim
6649505	W5.5-20 Rim
6658510	9.00 x 24 6-Ply Super Fronts
550591	11.2 x 24 10-Ply Traction Tire
338559	12.4 x 24 8-Ply Spray Coupe Tire
6670814	W10-24 Rim
6664404	W12- 24 Rim

Part No.	Description
SWINGER TIRES	
400955	31 x 15.50 x 15 8-Ply Traction Tire
SW1W158	15 x 13 Rim
SW10W353	12.0 x 12 Rim RR/LF (5 hole)
SW10W354	12.0 x 12 Rim LR/RF (5 hole)
TRANSPIREAD TIRES	
160-535-219	11 L x 15 8-Ply Rib Implements
160-606-219-0	12.5L x 15-Ply Rib Implements
W-50334	W8-15 6 on 6 Rim
401660	16.5L x 16.1 6 Ply Super Soft Tire
W-620238R	W14-16.1 6 on 6 Rim
W-619060R	W14-16.1 8 on 8 Rim
550220	22.5L x 16.1 14 Ply Super Soft Tire
W-617980	W16-16.1 8 on 8 Rim
82301	20.5" x 22.5" 8 on 8 Rim
211011E	700/50-26.5 12 Ply 404TL Tire
82245	24" x 26.5" 8 on 8 Rim
SP-160	DM408-2AG-IR Jockey Tire and Rim
34132	16 x 6.50-8 Jockey Tire and Rim



380/85R46 Goodyear
Dyna Torque RAD

320/90R54 Titan

SOIL PROBES & ACCESSORIES



ECONOMICAL HAND PROBES

Part No.	Description	Price
MODEL HA	Soil Probe	128.54
MODEL K	Soil Probe/PC	331.71
S-2	Replacement Tip	21.36



36 IN. ONE-PIECE WELDED UNIT WITH FOOT STEP

Part No.	Description	Price
Model LS	Hand Probe	263.33



PLEASE CALL FOR PRICING ON TRUCK/ATV SOIL PROBES

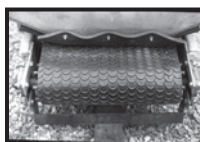


DENSITY SCALE

Simple, accurate fertilizer density scale. Large capacity canister with cone shaped top eliminates need for a level stick. Simple finger holding ring and an easy to read level vial for accurate balance. Durable, tough ABS telephone-type plastic.



Part No.	Description	Price
FDS-RED	Density Scale, Fertilizer	106.06
TWS-YELLOW	Density Scale, Grain	87.88



CUSTOM CUT CONVEYOR BELTING

Available in 12, 18 or 24 inch widths. Call for pricing on clipper lacing for conveyor belts.

TACHOMETER

Part No.	Price
3BY11	377.88



SPREAD PATTERN TEST KIT

Part No. 300508
Price: \$935.61

HITCH PINS

The "original" red plastic coated head and handle. Heat treated, high tensile steel for today's heavy equipment. Clip is included.



Part No.	Size	Length	Price
HR34	3/4"	6-1/2"	10.09
HR78	7/8"	6-1/2"	12.85
HR100H	1"	7-1/2"	16.70
HR09	Replacement Clip		.63

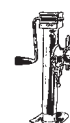


MODEL SS

Side Crank
Standard Swivel

MODEL SM

Side Crank
Tube Mount



Part No.	Description	Price
178201	3000 # Jack	167.91
7SM-15-0	7000 # Jack	234.30
005-024	7000 # Jack Weldmount	30.48

ROLLER CHAIN



Part No.	Description	Price
40SS	#40SS (Sold 10' per box)	31.21/ft
50SS	#50SS (Sold 10' per box)	41.20/ft
60SS	#60SS (Sold 10' per box)	43.91/ft
40SS-CL	#40SS Full Conn. Link	3.15
50SS-CL	#50SS Full Conn. Link	5.45
60SS-CL	#60SS Full Conn. Link	5.48
40SS-OL	#40SS Offset Link	5.67
50SS-OL	#50SS Offset Link	9.48
60SS-OL	#60SS Offset Link	9.58

DICKEY-JOHN MOISTURE TESTERS & POMMIER JACKING SYSTEM

M3G™

For the fastest grain moisture testing. The M3G™ Portable Moisture Tester puts high-speed, repeatable moisture testing in your hands. This lightweight unit lets you take grain moisture readings with a simple scoop of bins or hoppers.

- Basic moisture testing
- Test up to 3 grains
- Preprogrammed calibrations for: Corn high (15-32%) and low (8-17%), Soybeans (8-22%), and Wheat (8-20%)
- Change grain calibrations with a simple download
- ±0.5% repeatability with normal stored grain
- No cups or screw-on caps
- Density compensation without weighing or compressing samples
- Easy-to-read LCD display with grain labels clearly listed
- USB port for language changes and grain calibration uploads
- Compact and lightweight, only 1.6 lb

Part No. 46789-0010S1



Advanced DICKEY-john technology lets you easily bias to match readings to local elevator tests and change grain types with the push of a button. Both units store an average of up to 10 individual samples.

MINI GAC PLUS

Whether you're harvesting, storing, or trading grain, nothing is more important to its value than its moisture content and test weight. With the Mini GAC Plus you can measure moisture and test weight and it's fast, easy and accurate.

- Menu-driven operating system
- An internal scale (no pre-weighing)
- USB compatibility for calibration loading
- Used for over 450 grains and products
- Automatic temperature compensation
- No screw cap which can damage grains, create oily residue, and are cumbersome to use



Package for the Mini GAC Plus includes: Mini GAC Plus, loader, 9 volt battery, carrying case, belt clip, instruction manual, and 1 year manufacturer's warranty.

Part No. Mini-GAC-IP

CRISSUR JACKING SYSTEM

Made of aluminum to be lightweight. Each section is full of honeycombed aluminum for extra strength. Jack is rated to 15 metric tons. Wheeled base allows for positioning without the need to be under the implement. Blocks pin together to ensure safety. Unit sells as base, one 24 inch block, one 12 inch block, one 8 inch block, one 6 inch block plus the bottle jack. Separate blocks can be ordered as needed. A must for every shop or service truck.

Part No. CRISSUR-15-1



GRAIN TESTER

When it comes to top-of-the-line grain testing at an economical price, look no further than the GAC2100 Agri. The GAC2100 Agri provides grain testing results in just 32 seconds and has the ability to store eight grain calibrations.

- Quick, fully automated grain testing
- Engineered with advanced technology
- Consistent moisture, temperature, and test weight results
- Use for cereals, oilseeds, grass seeds, vegetable seeds, and beans

Part No. GAC2100AGS9



GRAIN TESTER

The power of elevator-quality testing on your farm. This compact, cost-effective unit lets you analyze grain moisture, temperature, and test weight anywhere on the farm. For fast, accurate moisture testing, you can't beat the GAC500 XT: Just choose a grain, load the hopper, and press a button.

- Easy to use
- ±0.2% moisture repeatability
- Cereals, oilseeds, grass seeds, vegetable seeds, beans
- Stores up to 16 calibrations
- More than 450 calibrations available for download
- 110/220V, DC converter, or cigarette lighter power sources
- Preloaded with 10 languages (others available)

Part No. GAC500XT



SPREADER PARTS

DOUBLE DUTY PARTS

Part No.	Description
94-00025	Weldment Spinner Blade Left (5 required)
94-00026	Weldment Spinner Blade Right (5 required)
94-00136	Weldment Spinner Blade MS Left (5 required)
94-00135	Weldment Spinner Blade MS Right (5 required)
94-00035	Weldment Spinner Hub
22511	Bearing-take Up 1- 1/2"
96-00007	Cover Spinner Hub
96-00010	Plate Spinner Disc (Left & Right hand)
M25X8008BEVL1773	Motor Spinner DD (42 GPM)
063-0159-981	Sensor Gear Tooth Granular
301092	Gearbox Duplex Encoder & Seal
704104-12	Coil only (for YRCH & YREH)
K-23018	Element Filter

MOBILITY 500 PARTS

Part No.	Description
1004557	Gate Jack Weldment
UCFT205-16	2 Bolt Flange Bearing, 1"
HCFTS206-20	2 Bolt Flange Bearing, 1- 1/4"
1003709	Spinner Hub
1003733	Hi Performance Spinner Disc, RH
1003734	Hi Performance Spinner Disc, LH
1003727	Distributor Disc
1004466	Spinner Blade Set
1001716	Disc Cap Weldment, LH
1001717	Disc Cap Weldment, RH
F100005	3/4 Nut, Spinner Disc
LET-94GVM	Gearbox Set Complete
LET-10	Bearing, Gearbox (8 Required)
LET-6AT	Shaft, RH Tapered
LET-6BT	Shaft, LH Tapered
LET-12	Retaining Ring, Large (8 Required)
LET-13	Retaining Ring, Small (8 Required)
LET-11	Seal, Gearbox
LET-2GVMMSA	Barrel Assy., Gearbox
LET-9GA	Input Shaft & Gear Assy., Gearbox
LET-16	Plug, Soft (Gearbox) (2 Required)
LET-3B	Gasket, Gearbox (3 Required)
90696	Wood Bearing (Front Conveyor Chain Assy)
1002644	Tarp & Shock Cord Complete
3SS-10-0	Sidewind Tongue Jack 3000 lb
1008456	Split Wood Bearing (Drive Line)
UCP205-16	1" Pillow Block Bearing
FHR205-16	Bearing, 1" Bore (GND Drive Assy)
1001658	Ground Drive Tire Assy
1001954	Drive Jaw Weldment (Conveyor Clutch)
FHSLF201-8	Flange Bearing, 1/2" 2-Bolt (Conveyor Clutch)
K63902-2	Spring, Conveyor Clutch

TRANSPREAD PARTS

Part No.	Description
063-0159-981	Sensor Gear Tooth Granular
C0043-ASSY	Sensor & Cable Tachometer Kit
151-7041	Motor Spinner OMP 050
633B3209	Seal Shaft for OMP Motor (#151-7041)
50804-T	Plate Spinner Disc HD (Left & Right)
50800	Spinner Fin RH -(6 Required)
50801	Spinner Fin LH -(6 Required)
50800-MS	Spinner Blade Right (6 Required)
50801-MS	Spinner Blade Left (6 Required)
XNF34Z	Nut Fine Pltd 3/4" (spinner disc plate)
630125	Cone Spinner 575 MM
3000X244	Circlip Internal 62MM
18955	Seal Dbl Lip 48 MM x 62MM
50643-W	Shaft 1" Spinner Welded
6206	Bearing Open Ball
NEP302/4NP	Magnet Plug Nickel Plated
59286	Assy. Coupling with Magnet
L095-1	Coupling Half 1"
L090/095-HY	Spider Hytrel 1"
50648	Roller Front Drum 33" Pull
214-099	Cylinder Hyd 4 x 2 Bore
50746	Shaft, Pinch Roller 33" Pull
50746-F	Shaft Pinch Roller 33" Front
50653	Roller Rear Pinch 33" Pull
50646	Roller Belt 33" Pull Spreader
50655	Roller Front Pinch 33"
50772	Spacer front Pinch Tube
UCP209-28	Bearing Pillow Block 1-3/4"
UCP210-32	Bearing Pillow Block 2"
301092	Gearbox Duplex Encoder & Seal
64-00200	Weldment Spacer Mount Disc
FCA200	Valve Proportional Flow Cntrl
C956	Coil 12VDC (FCA200)
51006-HD	Gearbox 2SPD HD Pull
607025	2 Speed Change
UCFC205-25MM	Bearing Round 4 Bolt 25MM
UCF209-28	Bearing Flange Square 1-3/4"
66-00190	Chain #60 Duplex 2 speed
911821	Spindle 2-3/4 for 8000 lb Hub
912689	Hub 8000 lb 8 Bolt
912663	Hub 10,000 lb 8 Bolt
911795	Spindle 3" x 18" 10,000 lb
7SM-15-0	Jack 7000# Sidewind

WILLMAR S-500 PARTS SPINNER DRIVER & REAR END GROUP

Part No.	Description
WR 16584	Fan Distributor
WR 15222	Distributor Mount Weldment
WR 15226	Distributor Blade Kit
WR 10645	3-Hole Flange Bearing
WR 10487	V-Belt (40FT)
WR 10460	Sheave 6" (40FT)
WR 25841	Sheave 5" (50FT)
WR 10636	Pillow Block Bearing
WR 16597	Rear Drive Roller
WR 15195	Front Roller
WR 10506	Conveyor Chair-SS
WR 15232	Rear Belt Shield Weldment
WR 16065	Rear Deflector Weldment
WR 16548	Bushing (Wooden)

FRAME & AXLE GROUP

Part No.	Description
WR 21452	Frame Weldment (S-500/S-500AGD)
WR 21454	Frame Weldment (S-500 Narrow Track)
WR 22001	PTO Assembly (540RPM)
WR 37837	Underleaf Spring Assembly (6-LEAF)
WR 22432	Jack Stand with Mounting Plate
WR 15500	Equalizer Arm with Bushings
WR 14875	Conveyor Drive Hub
WR 15504	Shackle Arm
WR 19122	Hub
WR 17471	Tarp
WR 14857	Tarp Bow
WR 14798	Skid Floor

ROPE CONTROL GROUP

Part No.	Description
WR 14916	Control Arm
WR 21172	Ground Drive Clutch
WR 19088	Engaging Lever
WR 11567	Rope
WR 14359	Spring

GROUND DRIVE GROUP

Part No.	Description
WR 14878	Ground Drive Engaging Arm
WR 12368	Drive Sprocket
WR 15244	Outer Shield
WR 10461	Sheave
WR 15251	Engaging Lever
WR 10669	Slip Clutch Spring
WR 11617	Spring
WR 10636	Pillow Block Bearing
WR 10666	Sprocket

NEW LEADER[®] SPREADER PARTS

L2020G4

Part No.	Description
1899	Sprocket
2885	Feedgate Slide RH
6465	Bearing - Drive
10877	Hub - Weldment
22511	Bearing - Idler
25870	Fin - RH
25871	Fin - LH
29854	O-ring
32468	Bearing
33875	Pulley - Snub
36697	Pin - Shear
37003	Gear
37005	Gasket
37006	Seal - Oil
43530	Filter Element Kit
44439	Timing Belt
44440	Pulley - Belt Timing
44441	Pulley - Timing Driven
72548	Seal Kit
81343	Turnkleen 409
81344	Turkleen 304
84939	Assy - Cap

L2020GT

Part No.	Description
2130	Idler Sprocket
2885	Feedgate Slide RH
6245	Rivet
6465	Bearing
10877	Hub - Weldment
14372	Fan Assy - 24", RH
14373	Fan Assy - 24", LH
22511	Bearing -Take up
25870	Fin -RH Weldment
25871	Fin - LH Weldment
27056	Disc - 24"
28494	O-ring
29854	O-ring
32468	Bearing - Assy.
36697	Pin - Chain, Pintle
37003	Gear
37005	Gasket
37006	Seal-Oil
40734	Kit - Jack Repair
43530	Filter Element Kit
44439	Belt-Timing
44440	Pulley - Belt Timing
44441	Pulley - Timing Driven
72548	Seal - Kit
72807	Input - Drive
81343	Pulley Idler 409
81344	Pulley Idler 304
85002	U - Joint
85005	Jack - Feedgate Assy.

L2020

Part No.	Description
2121	Bearing
2124	Bolt
2127	Conveyor Bar Link
2130	Sprocket
2885	Feedgate Slide - RH
3908	Nut - Tightener
6465	Bearing
10877	Hub - Weldment
22511	Bearing
25870	Fin - RH Weldment
25871	Fin - LH Weldment
27056	Disc - 24"
29854	O-ring
29919	Chain - Roller
31577	Cylinder
32442	Friction - Wheel
32468	Bearing
33875	Pulley - Snub
37003	Gear
37005	Gasket
37006	Seal - Oil
43530	Filter Element Kit

L3020GT

Part No.	Description
1899	Sprocket
2885	Feedgate Slide - RH
6245	Rivet (Belt Over Chain)
6465	Bearing
10877	Hub
14372	Fan - RH 24" Assy.
14373	Fan - LH 24" Assy.
22511	Bearing - Take-up
25870	Fin - RH Weldment
25871	Fin - LH Weldment
27056	Disc - Distributor
27296	Belt - Sealer
28389	Gauge - Hydraulic
36580	Motor - 2" Spinner
36697	Chain Pin
37003	Gear - Pinion
37006	Seal - Oil
37447	Valve - Relief
38978	Gasket
43530	Filter Element
72548	Seal Kit
82799	Idler Shaft
85002	U-Joint
85005	Jack Assy.

L3020G4

Part No.	Description
2885	Feedgate Slide - RH
6465	Bearing
10877	Hub - Weldment
20817	Pin - Cotter
25870	Fin - RH
25871	Fin - LH
27243	Belt - Wiper
28494	O-ring
33777	Retainer
33809	Seal
36697	Pin - Chain, Pintle
37003	Gear
37006	Seal - Oil
38978	Gasket
40734	Kit - Jack Repair
43530	Filter Element Kit
43534	Filter Indicator
44439	Belt - Timing
44440	Pulley - Belt Timing
85002	U -Joint
85005	Jack - Feedgate Assy.

L3020

Part No.	Description
2121	Bearing
2124	Bolt
2130	Sprocket
2885	Feedgate Slide - RH
3908	Nut - Tightener
6465	Bearing
10015	Idler Shaft
10877	Hub - Weldment
14372	24" Fan Assy. - RH
14373	24" Fan Assy. - LH
20817	Pin - Cotter
25870	Fin - RH Weldment
25871	Fin - LH Weldment
27243	Belt - Wiper
28494	O-ring
33777	Retainer
33809	Seal
36697	Pin - Chain, Pintle
37003	Gear
37006	Seal - Oil
37447	Valve
38978	Gasket
40734	Kit - Jack Repair
43530	Filter Element Kit
43534	Filter Indicator
44439	Belt - Timing
44440	Pulley - Belt Timing
44441	Pulley -Timing Driven
85002	Joint

L2010

Part No.	Description
2121	Idler Bearing
2127	Conveyor - Bar Link
2130	Idler Sprocket
2150	Gasket
2885	Feedgate Slide -RH
2905	Gear - Worm
3908	Nut Tightner-Weldment
6465	Bearing
11731	Oil Seal
21707	Pin - Drive
25870	Fin - RH Weldment
25871	Fin - LH Weldment
27320	Bronze Gear
29919	Chain - Roller
31766	Shaft
85002	U-Joint
85005	Jack Repair


L7020

Part No.	Description
2121	Bearing
2124	Bolt - Adjustment
2127	Conveyor - Bar Link
2130	Idler Sprocket
3908	Nut - Tightener Weldment
6465	Bearing
10015	Shaft - Idler
10877	Hub - Weldment
14372	Fan - RH 24" Assy.
14373	Fan - LH 24" Assy.
25870	Fin - RH Weldment
25871	Fin - LH Weldment
29854	O-ring
36697	Pin - Chain Pintle
37003	Gear - Pinion
37006	Seal - Oil
38978	Gasket - 6:1

L7000

Part No.	Description
6697	Bearing
14372	RH Fan Assembly
14373	LH Fan Assembly
37003	Gear - Pinion
37005	Gasket
37006	Seal - Oil
37447	Relief Valve
43530	Filter Element Kit
72548	Seal Kit



 Made in the USA

Tested. Trusted. Guaranteed.

- Protect and secures gear
- Enhances the look of your truck
- Rolls open and closed in seconds
- No need to remove
- Pays for itself in gas savings



LIMITED EDITION TARP

- Tie Down Tight Bite™ clamps
- Autolatch II™, an automatic dual locking action that releases both locks simultaneously with the twist of a dial
- Trailseal tailgate gasket seals the entire length of your tailgate



Year	Description	Part No.
CHEVY/GMC (Full Size Short Bed & Standard Bed)		
2014	New Chev/GMC Full Size 5' 8" Bed	12319
2014	New Chev/GMC 6' 6" Bed	12329
07-13	Chev/GMC Full Size 5' 8" Bed (w or w/o cargo rails)	12309
07-13	Chev/GMC Full Size 6' 6" Bed (w or w/o cargo rails)	12289
04-07	Chev/GMC Classic Full Size 5' 8" Bed	12269
99-07	Chev/GMC Classic Full Size 6' 6" Bed	12199
01-05	Chev/GMC Classic Full Size 6' 6" Composite Bed (Bolt On)	12219
CHEVY/GMC (Full Size Long Bed)		
2007+	Chev/GMC New Body FullSize 8' (Includes Dually) (w/ or w/o cargo rails)	12299
99-07	Chev/GMC Classic Full Size 8' Bed (Except Dually)	12189
01-07	Chev/GMC Classic Dually 8' Bed	12229
COLORADO / CANYON / S-10 / SONOMA (Compact All Beds)		
2004+	Chev/GMC Colorado/Canyon Crew Cab 5' Bed	12249
2004+	Chev/GMC Colorado/Canyon Reg & Ext. Cab 6' Bed	12259
01-04	Chev/GMC S-10/Sonoma Crew Cab (4 Dr.) 4' 5" Bed	12149
DODGE (Full Size Short Bed)		
2009+	Dodge Ram 5' 7" Bed (w/ RamBox)	14199
2009+	Dodge Ram 5' 7" Bed	14169
2012	Dodge Ram 6' 4" Bed (w/ RamBox)	14229
2009+	Dodge Ram 6' 4" Bed	14179
2010+	Dodge Ram 2500/3500 6' 4" Bed	14179
2010+	Dodge Mega Cab 6' 4" Bed	14179
06-09	Dodge Mega Cab 6' 4" Bed	14139
02-08	Dodge Ram 1500 6' 4" Bed	14139
03-09	Dodge Ram 2500/3500 6' 4" Bed	14139
DODGE (Full Size Long Bed)		
2009+	Dodge Ram 1500 Quad Cab & Reg Cab 8' Bed	14189
2010+	Dodge Ram 2500/3500 8' Bed	14189
02-08	Dodge 1500 8' Bed	14129
03-09	Dodge 2500/3500 8' Bed	14129
DAKOTA (Compact All Beds)		
05-11	Dodge Dakota 6' 6" Bed w/o utility rail	14159
08-11	Dodge Dakota 6' 6" Bed w/ utility rail	14219
00-11	Dodge Dakota Quad/CrewCab 5' 4" Bed w/o utility rail	14149
08-11	Dodge Dakota CrewCab 5' 4" Bed (w/ utility rail)	14209

TOOLBOX EDITION TARP

Specifically designed to fit behind most over-the-rail toolboxes. Cover does not interfere with operation of the toolbox. It can easily be opened with the cover closed or rolled.

- Sealing header bar
- Full use of bed & toolbox



Year	Description	Part No.
FORD / LINCOLN (Full Size Short Bed & Standard Bed)		
2004+	Ford F150 5' 6" Bed (Except Heritage)	11269
2004+	Ford F150 6' 6" Bed (Except Heritage)	11279
2008+	Ford F150 6' 6" Bed with Side Rail Kit	11359
06-09	Lincoln Mark LT 5' 6" Bed	11269
07-09	Lincoln Mark LT 6' 6" Bed	11269
04-09	Ford F150 6' 6" Flareside Box (Except Heritage)	11299
2008+	Ford Super Duty 250, 350, 450 Short Bed	11339
99-07	Ford Super Duty Short Bed	11319
2008+	Ford Super Duty 250, 350, 450 8' Bed (includes Dually)	11349
2004+	Ford F150 8' Bed (Except Heritage)	11289
99-07	Ford Super Duty 8' Bed (includes Dually)	11309
RANGER / EXPLORER (Compact All Beds)		
07-10	Ford Explorer Sport Trac (4 Dr) 4' 2" Bed (Bolt On-No drill)	11329
01-06	Ford Explorer Sport Trac (4 Dr) 4'2" Bed (Bolt On-No Drill)	11129
99-08	Ford Ranger 6' Flareside Box	11139
82-09	Ford Ranger 7' Bed	11099
82-11	Ford Ranger 6' Bed	11109
TOYOTA (Full Size Short Bed & Standard Bed)		
2007+	Toyota Tundra 5' 6" Bed Without Deck Rail	15209
2007+	Toyota Tundra 5' 6" Bed With Deck Rail	15239
2007+	Toyota Tundra 6' 6" Bed Without Deck Rail	15219
2007+	Toyota Tundra 6' 6" Bed With Deck Rail	15249
04-06	Toyota Tundra Double Cab 6' 2" Bed	15169
00-06	Toyota Tundra 6' 4" Bed (Fits T-100 Short Bed)	15089
03-06	Toyota Tundra 6' 4" Stepside Box (Bolt on)	15159
TOYOTA (Full Size Long Bed)		
2007+	Toyota Tundra 8' Bed without Deck Rail	15229
2007+	Toyota Tundra 8' Bed with Deck Rail	15259
00-06	Toyota Tundra 8' Bed (Fits T-100 Long Bed)	15119



SRT-2® ORIGINAL SPOOL ROLL TARP STAINLESS STEEL

- Quick release tarp stops powder coated with stainless steel base
- 14 in. deep, 7 in. standard rise stainless steel end caps, 12 in. rise optional
- 18 oz. tarp in black, white, gray, ocean blue, red, orange, yellow, green, or brown
- 3 in. aluminum roll tube
- 1 ridge strap SST
- Stainless steel bows included
- Electric, optional



EZ-LOC® ROLL TARP STAINLESS STEEL

- Quick release tarp stops
- 14 in. deep, 7 in. standard rise stainless steel end caps, 12 in. rise optional
- 18 oz. tarp in black, white, gray, ocean blue, red, orange, yellow, green, or brown
- 2 in. aluminum roll tube
- 1 ridge strap SST
- SST bows included on farm truck boxes only, bows not included on semi trailers
- Electric, optional



AUTOLOCK® ELECTRIC TARP

- High output electric motor
- Quick release tarp stops
- 14 in. deep, 7 in. rise galv. end caps (front and rear side mounted) some trailers may require OEM specific radius caps.
- 18 oz. tarp in black, white, gray, ocean blue, red, orange, yellow, green, or brown
- 3 in. aluminum roll tube
- 2 ridge straps
- Bows not included

ELECTRIC KIT OPTIONS

Roltec Electric Conversion with Front Cable Return and Rear Bunji Return: Single motor arm system with front cable return and rear bunji return, converts your 2 in. steel roll tube to an electric tarping system up to 40 ft.

EZ-LOC Electric Conversion with Front Cable Return and Rear Bunji Return: Single motor arm system with front cable return and rear bunji return, converts your 2 in. aluminum roll tube to an electric tarping system up to 40 ft.

SRT-2 Electric Conversion: Slim single motor arm system designed to fit between the cab and the box of a farm truck, converts a manual SRT-2 to an electric system using the existing tarps dual, in the tube torsion springs.

Roltec Single Arm with Rear Cable Return: Designed specifically for grain trailers with a rear discharge. This system uses a rear cable return system combined with the front spring arm for grain trailers up to 53 ft.

Roltec Dual Arm: This system uses front and rear spring arms to convert both 2 in. steel and 2 in. aluminum roll tarps into an electric system on trailers up to 53 ft.

Autolock Electric Tarp: Premium Electric Tarp System, includes tarp and motor.

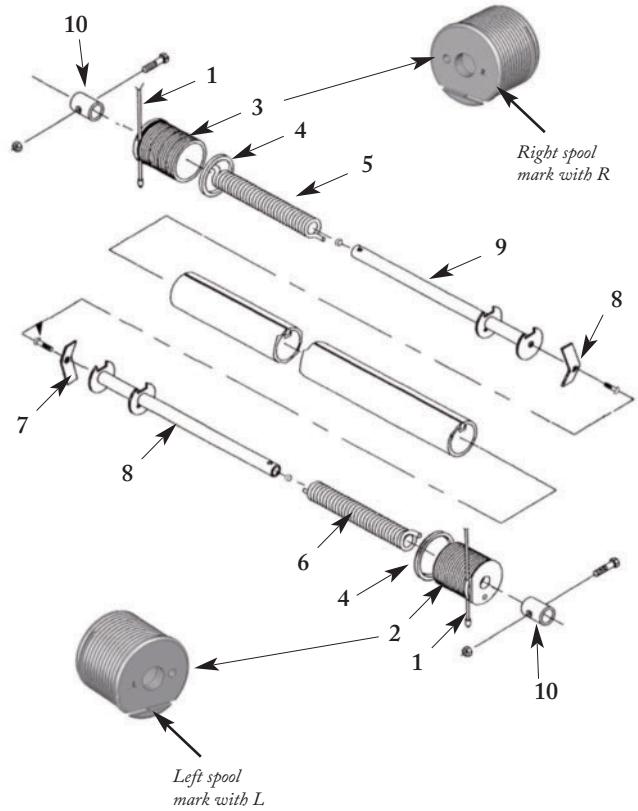
CHOOSING YOUR ELECTRIC TARPING SYSTEM

	Roltec™ Electric Conversion with Cable Return	EZ-LOC Electric Conversion with Cable Return	SRT-2 Electric Conversion	Roltec Single Arm with Rear Cable Return	Roltec Dual Arm	Autolock
Farm Box	Good	Better	Best			
Grain Trailer 25'-40'	Good	Good			Better	Best
Grain Trailer 41'-53'					Better	Best
Grain Trailer SST		Best				
Grain Trailer w/ Rear Discharge				Best		Best
Pup Trailer	Good	Good	Better		Better	Best
Grain Cart			Best			
Seed Tender Trailer	Good	Better	Best			
Fertilizer Tender Trailer SST		Better	Best			
Fertilizer Spreader SST		Better	Best			
Belly Dump			Best			

■ indicates systems not available for particular application Good, Better, Best are recommendations based on box applications.

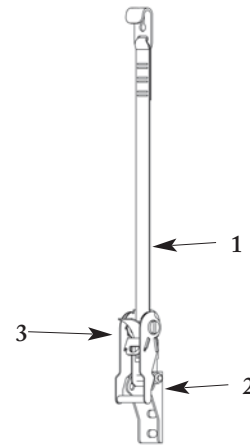
SRT-2 SPOOL ROLL TARP PARTS

Ref. No.	Description	Part No.	Price
Cables			
1	Cable 139" Stainless Steel (SS) (up to 102" wide box)	10941	101.82
Spools			
2	Spool, left front 3" nylon (up to 102" wide box)	20547	22.27
3	Spool, right front 3" nylon (up to 102" wide box)	20548	22.27
	Spool Grease (3/4 oz. tube, teflon grease)	30655	35.00
4	O-ring Kit (includes 2 rubber rings)	30553	22.27
Springs			
5	Spring front powder coated (for SS kits)	40983	127.27
6	Spring rear powder coated (for SS kits)	40982	127.27
Cartridges			
	Cartridge assembly, rear P/C for SS Kits (cartridge, clamp, bolt & nut)	40835	98.64
	Cartridge assembly, front P/C for SS Kits (cartridge, clamp, bolt & nut)	40812	98.64
7	Clamp (for cartridge) for galv. & SS systems	10331	15.91
8	Powder coated cartridge, front left	10607	73.18
9	Powder coated cartridge, front right	10608	73.18
10	PVC Spacer, Bolt & Nut Kit (for SS Kits)	50600	22.27



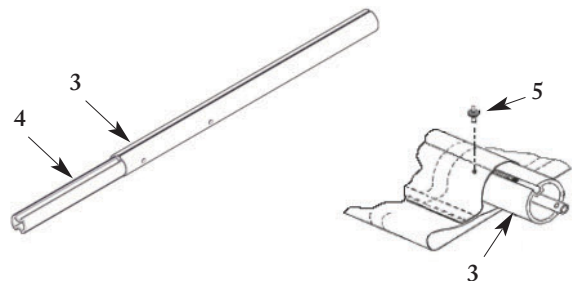
SRT-2 SPOOL ROLL TARP CABLE RATCHET AND STRAP

Ref. No.	Description	Part No.	Price
	Ratchet w/ adjustable SS bracket, short strap and hook SS	80043	151.52
1	Ratchet strap short w/ SS hook (1")	70989	41.36
2	Bracket adjustable, SS	71004	30.30
3	Ratchet only, SS	80033	90.91



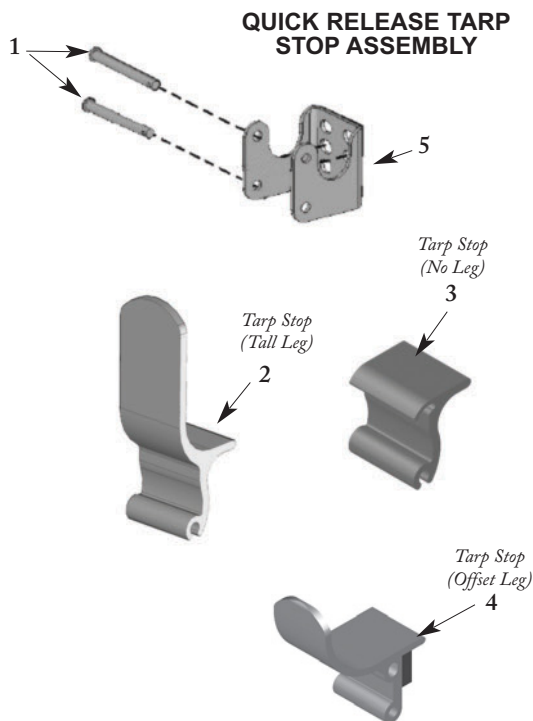
ROLL TUBES, STATIONARY TUBES

Ref. No.	Description	Part No.	Price
2 in. Roll Tube And Splice (Aluminum)			
1	Roll tube 2" dia. (priced per linear inch)	60950	2.27
2	Splice tube, 24" (for 2" dia. Roll tube)	50050	54.09
3 in. Roll Tube And Splice (Aluminum)			
3	Roll tube 3" dia. (priced per linear inch)	10263	3.64
4	Roll tube splicer (for 3" tubes)	50064	133.64
5	Drive rivet, tarp to 3" tube attachment	60786	4.55



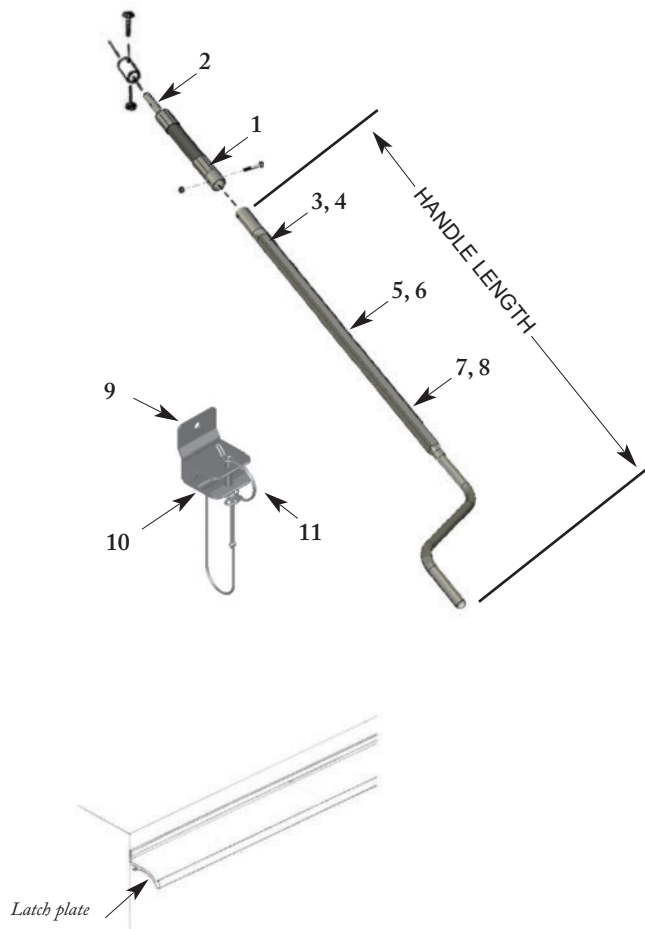
TARP STOPS FOR STAINLESS STEEL

Ref. No.	Description	Part No.	Price
1	Vinyl Cap for tarp stop, tall and offset	30490	3.03
	Clevis pin	10892	4.55
	Bow tie pin	60036	4.55
	Bolt, 3/8" x 1" self tapping, HHD zinc plated	10893	4.55
	Offset base bracket	70975	21.21
	Powder coated quick release tarp stop ASM (tall leg)	50572	60.45
	Powder coated quick release tarp stop ASM (no leg) w/ SSI base	50559	54.09
	Powder coated quick release tarp stop ASM (offset leg) w/ SS base	50584	60.45
2	Powder coated quick release tarp stop tall leg (no base or hardware) (for SS Kits)	70332	31.82
3	Powder coated quick release tarp stop no leg (no base or hardware) (for SS Kits)	70334	31.82
4	Powder coated quick release tarp stop offset leg (no base or hardware) (for SS Kits)	40916	35.00
5	SS base for quick release tarp stop	70282	28.64



SRT-2 SPOOL ROLL TARP CRANK HANDLE PARTS

Ref. No.	Description	Part No.	Price
Telescopic Handles, Flex Drive And Holders			
1	Flex drive hose w/ welded shaft	70150	181.36
2	Spacer, PVC 1" long	10734	15.91
3	Telescoping crank short (handle only), extends to 7' 2"	70606	190.91
4	Telescoping crank, short w/ flex drive (no holders), extends to 7' 2"	70614	410.45
5	Telescoping crank, long (handle only), extends to 11' 6"	70649	227.27
6	Telescoping crank, long w/ flex drive (no holders), extends to 11' 6"	70657	432.73
7	Telescoping crank, x-long (handle only), extends to 12' 10"	70686	236.36
8	Telescoping crank, x-long w/ flex drive (no holders), extends to 12' 10"	70690	457.82
	Swivel w/ crank holder (nylon) w/ pin and cord	30527	50.91
9	SS swivel w/ crank holder (nylon) w/ pin	70235	54.09
10	Nylon crank holder (no swivel or hardware)	10733	31.82
11	Pin, 1/4" x 2" tab lock zinc plated (snap pin)	10887	15.91
	PVC spacer, bolt & nut kit (for SS)	50600	22.27
Latch Plate			
	Latch plate (EZ-LOC, AUTOLOCK and ROLTEC tarps) (priced per linear inch)	10260	1.06





SHUR-LOK

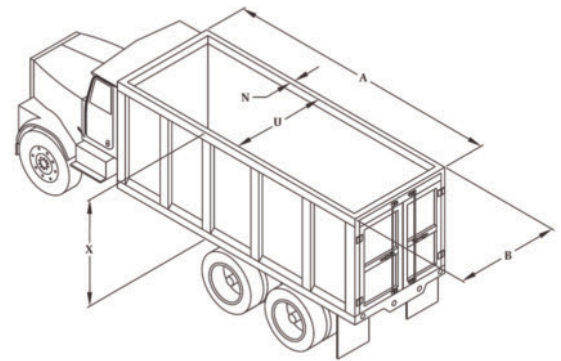
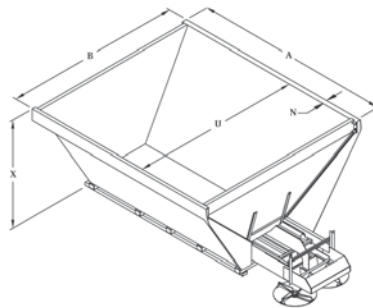
Shur-Lok® roll tarps are watertight, durable and easy to open and close. For lasting corrosion resistance, stainless steel component options are available.

Stainless steel upgrades are available for: end caps, crank extensions, pinless crank retainers, standoffs, and electric swing arms.

The easy-off tarp stop is also corrosion resistant. For added durability corrosion-resistant paint is used for any exposed metal, including weld seams.

Shur-Lok tarps are available for tenders, spreaders, farm bodies, grain carts, and grain trailers.

- Aluminum latchplate
- Aluminum end caps
- Galvanized steel bows and brackets
- 1 in. ridge strap with ratchet
- Tarp stops and crank arm
- Pinless retainer with 7 in. standoff
- Stretch cord return
- 18 oz. vinyl tarp



SHUR-LOK the only tarping system that does not require ropes, cables, clamps, or ties and is operated from one location on the ground.

WHEN ORDERING PLEASE GIVE EXACT WIDTH AND LENGTH OF BOX. STANDARD COLOR IS BLACK. MANY OTHER COLORS ARE AVAILABLE.

18 OZ. TARP FABRIC IS STANDARD.

94 IN. WIDE IS STANDARD ORDER WITH STANDARD ALUMINUM END CAPS AND TARP STOPS.



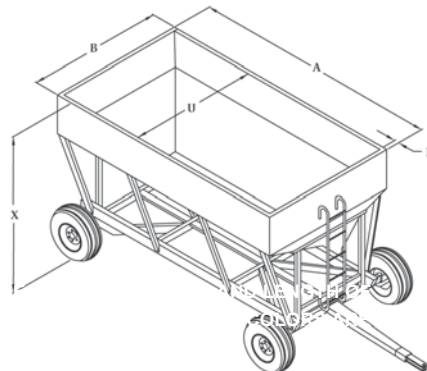
ROLL TARPS



SHUR-LOK JR.

The economical Shur-Lok Junior is an affordable solution for grain wagons that will travel no more than 35 miles per hour. The Shur-Lok Junior operates just like the Shur-Lok, but features caps built into the tarp. One person operation is fast, safe and easy.

- Galvanized steel latchplate
- Fabric caps built into the tarp
- Galvanized steel bows and brackets
- Recessed tarp stops
- Crank arm with 4 position U-joint
- J-hook retainer with 7 in. standoff
- Ridge rope
- 18 oz. vinyl tarp
- Fits boxes up to 9 ft wide and 15 ft long

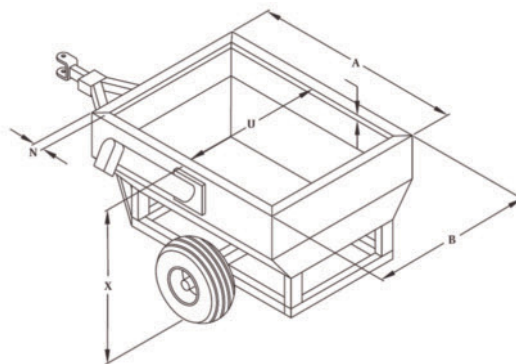


CUSTOM MADE TO ORDER • CALL YOUR NEAREST LOCATION FOR PRICING



Cable-Lok's stainless steel and powder coated components are designed to stand up to the most corrosive environments. The Cable-Lok tarping system is available for tenders, spreaders and farm bodies.

- No-weld install
- Stainless steel bows and end caps
- Powder coated easy-off tarp stops
- Stainless steel crank arm with reinforced flexible hose assembly
- Stainless steel J-hook retainer with 7 in. standoff
- 1 in. ridge strap
- Aluminum roll tube with channeled tarp attachment
- Galvanized fixed tube
- Spool with stainless steel cables and ratchets
- Adjustable tension
- 18 oz. vinyl tarp



SHURFLO® SPRAYERS

SRS-600 PROPAC™ RECHARGEABLE ELECTRIC BACKPACK SPRAYER

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, making spraying faster and easier than ever.

The ProPack’s micro-processor 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.

- Sprays up to 120 gal. 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
- Teejet polypropylene spray wand
- Splashproof battery pack and power plug
- High capacity charger



Part No. SRS-600Price: \$614.05

Replacement Battery Pack Kit
Part No. 94-536-00.Price: \$102.94

FIMCO INDUSTRIES SPRAYERS

SPOT SPRAYER

- 12V DC pump 1.4 GPM @ 60 PSI
- 15 or 25 gal. tank
- 15 ft of 3/8 in. spray hose
- 5 ft of detachable power harness with heavy duty battery clips
- Trigger spray gun



15 gallon sprayer. Part No. 5301728Price: \$403.03
25 gallon sprayer. Part No. 5301729Price: \$439.39

STANDARD ATV SPRAYER

Our standard ATV sprayer has an excellent spray coverage of 140 inches. It uses a 7-nozzle boom, 12 volt diaphragm High-Flo pump, 2.1 GPM, 60 PSI, with a lever handgun with 15 feet of hose.

- 12V DC pump 1.4 GPM @ 45 PSI
- 14 or 25 gal. tank
- 15 ft of 3/8 in. spray hose
- 5 ft of detachable power harness with heavy duty clips
- Trigger spray gun
- ON-OFF toggle switch
- Pressure relief valve
- Liquid-filled pressure gauge
- 10 ft boom plumbed with 7 flat fan tips on 20 in. spacing



Part No. 5301720Price: \$851.06

Standard Boom Kits contain all the metal necessary to mount your tank on our ATV boom assembly.

10 ft Boom Kit with standard plumbing
Part No. 5301616Price: \$466.64

Deluxe Boom Kits contain all the metal necessary to mount your tank on our ATV. Each deluxe boom contains diaphragm check nozzle bodies to insure drip-free shutoff.

10 ft Deluxe Boom Kit with standard plumbing
Part No. 5301611Price: \$622.70

ESTATE SPRAYER

- 12V DC Pump 1.4 GPM @ 60 PSI
- 15 or 25 gal. tank
- 15 ft of 3/8 in. spray hose
- 5 ft of detachable power harness with heavy duty battery clips
- Trigger spray gun



15 gallon sprayer. Part No. 5301734Price: \$675.76

25 gallon sprayer. Part No. 5301736Price: \$969.70

DELUXE ATV SPRAYER

The deluxe ATV sprayer has an excellent spray coverage of 140 inches. It uses a 7-nozzle deluxe boom with no drip diaphragm check valve nozzles.

- 12V DC pump 3.0 GPM @ 45 PSI
- 25 gal. tank
- 15 ft of 3/8 in. spray hose
- 5 ft of detachable power harness with heavy duty battery clips
- Trigger spray gun
- ON-OFF toggle switch
- Pressure relief valve
- Liquid-filled pressure gauge
- 10 ft boom plumbed with 7 flat fan tips on 20 in. spacing with diaphragm check valve

Part No. 5301719Price: \$1,003.48



MOLE KNIVES, SHANKS & ACCESSORIES

HI-PRO MOLE KNIFE

- Available with 3/8 or 1/2" tubes
- Double tube or specialty tubes are available
- Excellent wear and seal, unique design



HI-PRO MOLE KNIVES

Description	Part No.
3/8" Tube Mole Knife	B33-38
1/2" Tube Mole Knife	B33-12
Side Dress 3/8" Tube	B33SD38

WAKO MAG KNIVES

The US made Mag Knives are among the longest wearing in the world. Using the highest quality 5160 spring steel and chromium carbide insert available today, these knives have up to 50% more wear life.

Wako Mag 50 with Beavertail Sealer

- 1-1/2 x 2-1/2" 5160 spring steel
- Proven to be one of the easiest pulling and longest wearing knives on the market today

Wako Mag 40 with Beavertail Sealer

- 3/8 x 2-1/2" 5160 spring steel
- Works well with rolling coulters and in sodgrass application
- With sealer + 3/8" tube



WAKO KNIVES

Description	Part No.
Mag 50 with Beaver Tail 1/2" thick	MAG50/BTS
Mag 40 with Beaver Tail 3/8" thick	MAG-40/BTS

REPLACEMENT TUBE



Description	Part No.
3/8" x 12" replacement tube	KTUT38
1/2" x 12" replacement tube	KTUT12
3/4" x 12" replacement tube	KTUT34

(Replacement tubes for applicator knives are Schedule 40 pipe and are OD measurements. Available with open pipe or pinched and drilled.)

SEAL

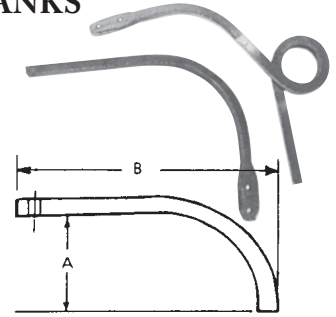
Description	Part No.
Wide sealer	BEAVERTAIL SEAL

Wide sealers are designed to be mounted on knives with tube protectors.



WAKO TOOLBAR SHANKS

- 1 x 2" flat "chisel" shank
- Mounting hole is 5/16"
- Requires knife side-plate brackets



OEM	Part No.
DMI	KSC-1290

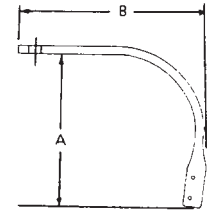
A = 20-1/2" B = 25-3/4"

OEM	Part No.
DMI	KSC-1298

A = 13-1/4" B = 26"

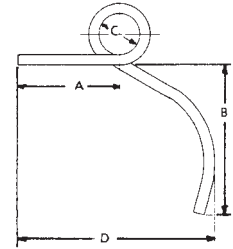
OEM	Part No.
BLU-JET	KSC-1295

A = 15" B = 19-3/8"



UNIVERSAL STUBBY SPRING SHANKS

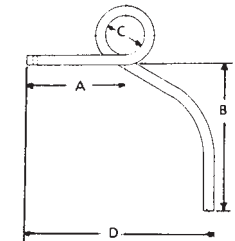
- 1-1/4" "Stubby" coil shank
- No mounting holes
- Requires knife side plate brackets



OEM	A	B	C	D	Part No.
TCI	12"	16"	4-1/2"	23-1/4"	KSC-93
Willmar/Dempster	12"	17-3/4"	4-1/2"	23"	KSC-92

ONE-HOLE SHANKS

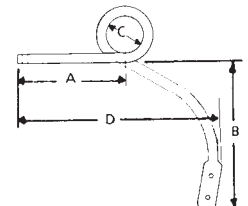
- 1-1/4" square coil shank
- 1 1/16" mounting hole
- Requires knife side-plate brackets



OEM	A	B	C	D	Part No.
DMI	11-3/4"	16"	4-1/2"	21-3/4"	KSC-90
Clark	13-1/2"	14-1/4"	4-1/2"	24"	KSC-94
John Blue (long)	13-1/2"	18-1/2"	4-1/2"	23-1/2"	KSC-97

THREE-HOLE SHANKS

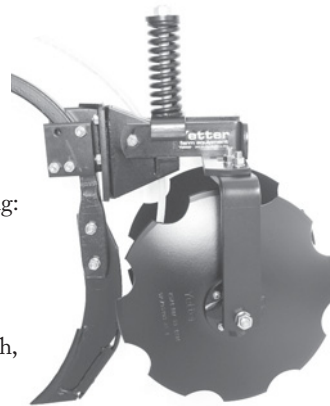
- 1-1/4" square coil shank
- Top mounting hole is 1 3/16", 1 7/32" holes spaced at 2-3/4" Allow side mount knife to be bolted directly to foot without use of knife side-plate brackets.



OEM	A	B	C	D	Part No.
TCI	13"	20"	4-1/2"	25-1/4"	KSC-95

2930/2950 SERIES DISC-CHISEL COULTERS

- Sealed tapered roller bearings (pre-lubricated)
- 1-½" forged offset or straight shank
- Spring cushioned to reduce damage from obstructions
- 17 or 20" ripple blade
- Quality ductile castings used in cushioning mechanisms
- Adjustable narrow brackets to fit most 4 x 4" and 4 x 6" toolbars



2920-016-N



2910-130-HD



2930-017



2910-114

2920-016 DISC SEALER

Adjustable blade pitch for precise sealing bolts onto the following:

- 1 x 2" and 1-¼ x 2" flat shanks
- 1-¼" square-coil shanks
- 2" shanks
- Available with a variety of blade options, including 12" smooth, 13-5/8" notched, 16" smooth and notched
- Blades can be set to pinch slot closed or catches soil to cover slot is spring-loaded to follow the soil surface for superior closing action

Description	Blade Style	Est. Weight	Part No.
Straight shank disc-chisel couler	17" ripple	81 lb	2930-017
Straight shank disc-chisel couler	20" ripple	87 lb	2930-020
Offset shank disc-chisel couler	17" ripple	84 lb	2950-017
Offset shank disc-chisel couler	20" ripple	90 lb	2950-020
2910 heavy duty couler assembly		95 lb	2910-130-HD
Spring Cushioned Liquid Injector Kit		14 lb	2910-114
Disc sealer 1-¼"	16" smooth		2920-016
Disc sealer 1-¼"	16" notched		2920-016-N

2995 GEN III

- Provides extra power through extra down pressure 1,100 lb in tough field conditions
- Designed for high speed operations
- Features exclusive poly-plastic spring insert to increase down pressure
- Excellent for tough field conditions with minimal ground contour
- 6" of deflection available with 17 or 20" diameter couler blades
- Available with a knife or injector spring



YETTER GEN III WITH NOZZLE

Part No. 2995-018

Description	Part No.
20" blade	2571-168
17" blade	2571-158
Nozzle Injection Kit	2995-109
Replacement spring	2995-301

YETTER GEN III WITH KNIFE

Part No. 2995-020

Description	Part No.
20" blade	2571-168
17" blade	2571-158
20" knife	2975-220
17" knife	2996-200

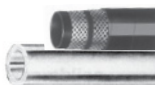
COMMON PARTS FOR 2995 SERIES

Description	Part No.
Couler main spring 11"	2550-795
Spring rod	2995-304
Bearing (LM37048)	2550-027
Race (LM67010)	2550-029
Hub cap	2570-375
Hub assembly	2900-105
Lock collar	2975-303
Roll pin	2530-208
Cotter pin	2531-131
Set bolt for collar	2503-379

ANHYDROUS AMMONIA HOSE & FILLER COUPLINGS

NYLON BRAID NH3 HOSE

- Used for nurse tanks
- Black perforated wrapped neoprene cover with continuous green stripe, tube is neoprene with multiple textile braids
- 6 year prorated warranty from date of factory assembly against defects in material or workmanship



Description	Part No.
1" x 3' NH3 hose assembly	AA100-3-NY
1" x 5' NH3 hose assembly	AA100-5-NY
1" x 12' NH3 hose assembly	AA100-12-NY
1" x 15' NH3 hose assembly	AA100-15-NY
1" x 20' NH3 hose assembly	AA100-20-NY
1-1/4" x 3' NH3 hose assembly	AA125-3-NY
1-1/4" x 12' NH3 hose assembly	AA125-12-NY
1-1/4" x 15' NH3 hose assembly	AA125-15-NY
1-1/4" x 20' NH3 hose assembly	AA125-20-NY

Other lengths available on request.

EVA TUBING

Used in applying anhydrous ammonia, aqua ammonia, herbicides, phosphates, and all liquid fertilizers.

EVA tubing has a blue tint.



Roll Size	ID	Part No.
500'	1/4"	EVA025
500'	3/8"	EVA038
5000'	3/8"	EVA038-BL
500'	1/2"	EVA050
500'	1/2"	EVA050-BLUE
250'	5/8"	EVA058
250'	3/4"	EVA075
200'	1"	EVA100

Warning: LP Gas hose is not recommended for NH3 service. Both types of hose are often used in the same area and care must be taken that they do not become accidentally switched.

STAINLESS STEEL BRAID NH3 HOSE

- Used for nurse tanks, truck and rail unloading, and on risers for filling nurse tanks
- Black neoprene wrapped cover with stainless steel braid, Butyl tube
- Embossed replacement date on each hose
- 7-8 year removal date with a 6-8 year prorated warranty



Description	Part No.
1" x 5' NH3 hose assembly SS	AA100-5-SS
1" x 12' NH3 hose assembly SS	AA100-12-SS
1" x 15' NH3 hose assembly SS	AA100-15-SS
1" x 20' NH3 hose assembly SS	AA100-20-SS
1-1/4" x 12' NH3 hose assembly SS	AA125-12-SS
1-1/4" x 15' NH3 hose assembly SS	AA125-15-SS
1-1/4" x 20' NH3 hose assembly SS	AA125-20-SS

Other lengths available on request.

FILLER COUPLINGS



Coupling Style	Female ACME	Inlet Connection	Length	Part No.
Standard (Style E)	1-3/4"	3/4" MNPT	3-1/8"	A1151F
		1" MNPT	3-1/8"	A1150F
Heavy Duty (Style F)	2-1/4"	1-1/4" MNPT	3-1/4"	A1156FS
	3-1/4"	2" MNPT	3-11/16"	A1157FS
Extension (Style G)	1-3/4"	1" MNPT	7-3/16"	A1131F
Compact (Style H)	4-1/4"	3" FNPT	2"	M634-24

ACME ADAPTERS, CAPS & GASKETS

ACME GASKETS

ACME gaskets are made of Buna-N material and designed for NH3 service. They fit the ACME thread end of valves, adapters, speed couplers, and quick couplers.



Description	Part No.
1-3/4" ACME gasket	22-71-F
Junior volume gauge gasket	STJRGASKET
2-1/4" ACME gasket	ST1E8126
Senior volume gauge gasket	STSRGASKET
3-1/4" ACME gasket	STIE8128

HOSE HANGER ADAPTER & PLUG

Parking plugs for bolting or welding to the tank roll-over guard provide a convenient means of securing the transfer hose during transit or storage. A 1/2 inch bolt and lock washer is included with part 2014B.



Caution: If used as a plug, be certain the coupling and the valve has been bled before removal. Not leak proof.

Description	Part No.
ACME Parking plug 1-3/4"	A2014B
ACME Parking plug 2-1/4"	A2024

ACME ADAPTERS

- 1-3/4" male ACME x 1" FPT. Part No. A2013
- 3-1/4" male ACME x 2" FPT. Part No. A2074S
- 3-1/4" male ACME x 3" FPT (SS). Part No. A2075S



- 1-3/4" male ACME x 1/2" MPT. Part No. A2000
- 1-3/4" male ACME x 1" MPT. Part No. A2002



- 1-3/4" male ACME x 1-3/4" male ACME. Part No. A2005S
- 2-1/4" male ACME x 2-1/4" male ACME. Part No. A2007S



ACME CAPS AND CHAINS

- Metal cap & chain 1-3/4" ACME. Part No. A1152C
- Dust cap with chain for 1-3/4" ACME thread plastic. Part No. A2080C



NH3 ACCUFLOW™ SYSTEM

FOR SCS 440 AND SCS 330 SYSTEMS (2 VALVE)

Kit includes: Cooler, mounting brackets and hardware, temperature gauge, pressure gauge, vapor tubes, plumbing, NH3 flowmeter, NH3 control valve, and NH3 on/off valve. Requires console, console cable, and speed sensor.

30 GPM AccuFlow, 1-¼" valve
Part No. 117-0171-384

FOR SCS 440 WITH PROGRAM REV. H AND ALL SCS 330 SYSTEMS (1 VALVE, FAST)

Kit includes: Cooler, mounting brackets and hardware, temperature gauge, pressure gauge, vapor tubes, plumbing, NH3 flowmeter, and NH3 on/off control valve. Requires console, console cable, speed sensor, and flow cable.

30 GPM AccuFlow, 1-¼" valve
Part No. 117-0171-386

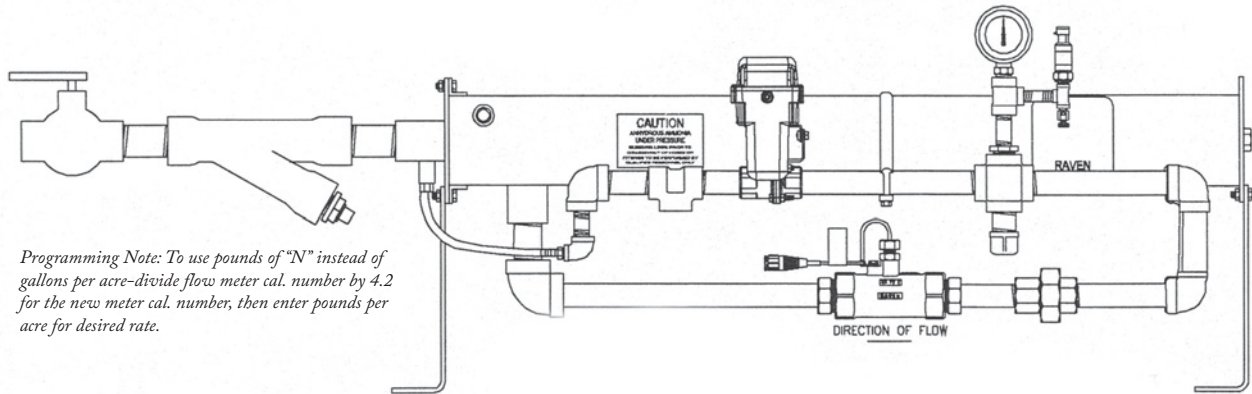
ACCUFLOW™ KIT (1 VALVE, FAST)

Kit includes: Cooler, hand valve, Y-strainer, temperature gauge, pressure gauge, vapor tubes, and all plumbing. To be used with SCS440 or SCS330 with consoles, cables, NH3 control valve, speed sensor, and RFM55A flow meter.

30 GPM NH3 system without cable
Part No. 117-0171-391

SPEED SENSORS

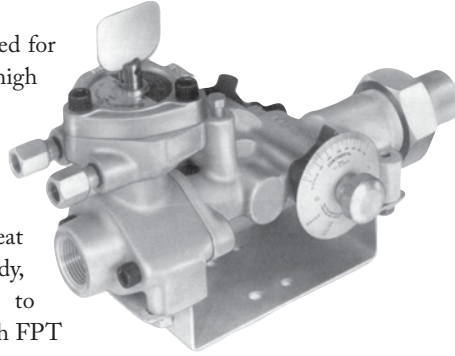
Description	Part No.
Wheel drive speed sensor	063-0159-484
Dickey-john radar interface	115-0159-526
12' Extension cable	115-0159-409
24' Extension cable	115-0159-414
1' Carbon steel on/off control	063-0172-170
1" Carbon steel valve	063-0172-977
1" NH3 on/off valve	063-0172-978
RFM60S SS flowmeter	063-0171-666
SCS 330 console	063-0171-115
SCS 440 console	063-0171-183
440 console cable 10'	115-0171-085
Flow control cable 6'	115-0159-404
Flow control cable 12'	115-0171-837
¾" vapor tube	214-0002-002
AccuFlow manual	016-0159-403



Programming Note: To use pounds of "N" instead of gallons per acre—divide flow meter cal. number by 4.2 for the new meter cal. number, then enter pounds per acre for desired rate.

B-9500 SUPER FLOW

The B-9500 Super Flow Meter is designed for applications desiring large toolbars and high capacity NH₃ output. The B-9500 features a unique straight-bore flow with virtually no restriction. Other features include a new rotary actuator, single dial setting calibrated in pounds N per hour, heat treated, durable, lightweight aluminum body, universal mounting bracket (adaptable to most meter stands), and available in 1 inch FPT or 1-1/4 inch MPT inlet.

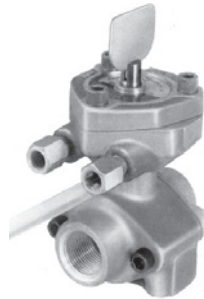


Description	Part No.
Repair Kit - meter	B-9500RS
Repair Kit - actuator only	R-9590-RK
Rotary shutoff only 1"	R-9590
Rotary shutoff only 1-1/4"	R-9590-B

Description	Capacity Per Hour	Tank Pressure	Part No.
Continental/hydraulic shutoff	650016	100PSI	B-9500
	328016	60 PSI	

HYDRAULIC ROTARY ACTUATOR

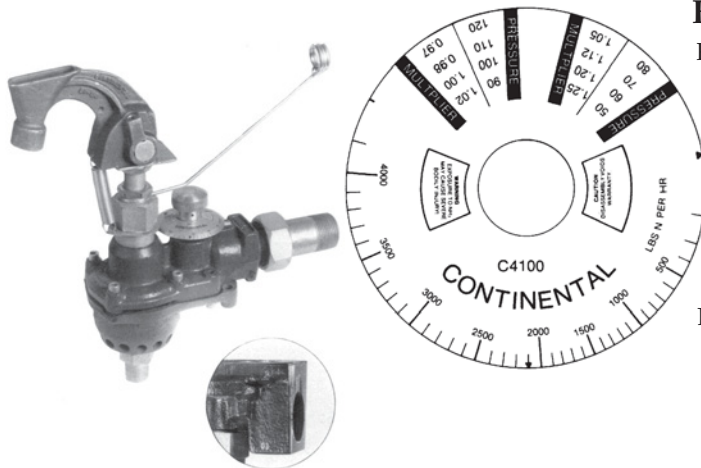
Hydraulic in-line rotary actuator is designed to be mounted quickly and easily in front on any NH₃ metering device. Using standard 1/4 inch ports of hydraulic hook-up makes this shutoff easily integrated with any tractor hydraulic system. The R-9590 uses a rotor actuated ball valve ensuring a long and maintenance free life.



- Available in 1 or 1-1/4" FPT
- Stainless steel rotor and shaft for maximum corrosion resistance
- Steel resistors stop hydraulic fluid from slamming against the rotor body
- Contamination dump prevents ammonia from entering hydraulic system.
- Vented ball allows any trapped ammonia to escape

C-2500 AND 2503 RPR AND C-4100 AND 4103 RPR

The "C" series meters offer improved accuracy, greater interchangeability of 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.

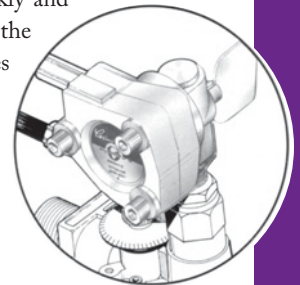


HYDRAULIC ROTARY ACTUATOR

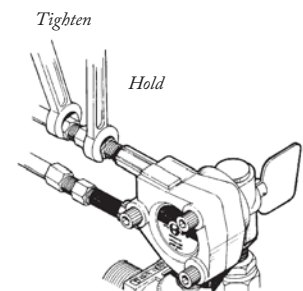
R-6572 Hydraulic Rotary Actuator is designed to be mounted on top of any A, B, or C Series meter matic. Using standard 1/4 inch ports for hydraulic hook-up makes this shutoff easily integrated with any tractor's hydraulic system quickly and efficiently. The R-6572 also eliminates the need for additional inline shutoff valves and their flow restriction in front of or behind the metering device.

Features:

- Standard 1/4" NPT (female) ports
- Corrosion resistant stainless steel rotor
- On and off indicator valve
- Easy installation
- Low maintenance



Part No	Inlet	Outlet	Maximum Flow Capacity	Shutoff Assembly	Repair Kit
C-2500	1" MPT	13-1/8" FPT	2500# nitrogen per hour at 100# tank pressure	Rope pull	A4125-RS
C-2500-6572	1" MPT	13-1/8" FPT		Hydraulic actuator	
C-2503	1" MPT	1" FPT		Rope pull	
C-2503-6572	1" MPT	1" FPT	Hydraulic actuator		
C-4100	1" MPT	13 1/8" FPT	250-4100# nitrogen per hour at 100# tank pressure	Rope pull	
C-4100-6572	1" MPT	13 1/8" FPT		Hydraulic actuator	
C-4103	1" MPT	1" FPT		Rope pull	
C-4103-6572		1" FPT		Hydraulic actuator	
R-6572	1/4" FPT Ports				



NH3 MANIFOLDS



VERTICAL DAM MANIFOLDS THE MOST ACCURATE WAY TO APPLY NH3!

A-MVD Manifold is made for custom application with the exact number of outlets (3 to 16 for the wheat manifold and 3 to 13 for the corn manifold) thus eliminating the need for plugged opening.



Description	Part No.
Corn manifold, 5 row	A-MVD-5-C
Corn manifold, 6 row	A-MVD-6-C
Corn manifold, 7 row	A-MVD-7-C
Corn manifold, 8 row	A-MVD-8-C
Corn manifold, 9 row	A-MVD-9-C
Corn manifold, 10 row	A-MVD-10-C
Corn manifold, 11 row	A-MVD-11-C
Corn manifold, 12 row	A-MVD-12-C
Corn manifold, 13 row	A-MVD-13-C

**Standard outlet is 3/8 in. for corn and 1/2 in. for wheat. Replace "C" in part number above with a "D" to order wheat.*

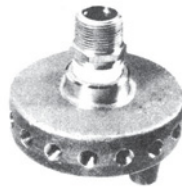
A-MVD-CORN VERTICAL DAM MANIFOLD REPLACEMENT PARTS

Description	Part No.
Pressure gauge - 160#, 1/4" MPT, 2-1/2" dial	ASG160
Separator body	SVD-01
Corn vertical dam body includes SVD-6-C	SVD-2-C
Corn ring only (specify outlets & application rates) 3-13 outlets	SVD-3-C
Stud for corn manifold	SVD-6-C
Gauge adapter	SVD-7
Outlet orificed hose barb 1/2" MPT x 1" hose	SVD-8
Gauge adapter seal	SVD-8115
Separator ring seal (top)	SVD-8149
Separator ring seal (bottom)	SVD-8150
Inlet hose barb, 1" MPT x 1" hose	SVD-9



MANIFOLD ALUMINUM

Description	Outlets	Part No.
1" MPT Inlet	16	1660-71



A-SVD manifold flow divider is designed to work in conjunction with the A-MVD on large tool bars requiring 3, 4, or 5 manifolds.

FLOW SEPARATOR

Description	Part No.
3 outlet	A-SVD-3
4 outlet	A-SVD-4

CONTINENTAL MANIFOLDS

6006-6007 Series manifolds were designed for the budget-conscious farmer in mind. Available in several designs, sizes and number of outlets. All 6006 and 6007 Series manifolds have durable ductile iron bodies, 1 inch FPT inlets and are equipped with 1/2 inch bolt and washer for mounting.



Inlets	Outlets & Sizes	Part No.
1"	18-1/8" FPT	A-6006-A
1"	14-1/4" FPT	A-6006-B
1"	24-1/8" FPT	A-6007-D



IMPELLICONE FLOW DIVIDER FOR ANHYDROUS AMMONIA

- **Accuracy:** evenly mixes the gas and liquid portions of NH3 and distributes accurately to each row
- **Flexibility:** allows the end users to plug ports without any loss of accuracy
- **Simplicity:** a simple design allows for ease of service without removing the distribution lines, however it is recommended that proper handling techniques for NH3 be used at all times
- **Variability:** handles all typical application rates without changing any flow divider parts



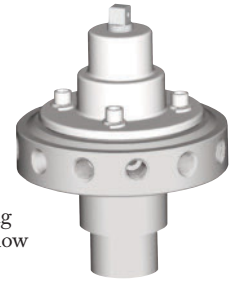
Description	Inlet Size	Outlet Size	Part No.
13 outlet NH3 flow divider	1" NPT	1/4" NPT	IP-1300
18 outlet NH3 flow divider	1" NPT	1/4" NPT	IP-1800

Accurate distribution from a metering pump is very important to the successful subsurface application of liquid. Only a pressurized system can assure even distribution across the entire swath width.

FD-1200 AND FD-2000 FLOW DIVIDERS

- Revolutionary piston design ensures unequaled accuracy
- Two or more CDS-John Blue Flow Dividers can be banked together for additional outlets while continuing to provide row-to-row precision
- Eliminates the need for orifices, no more hassles with field stripping due to plugged orifices, no more need to change orifices when you change rates
- Completely field repairable without removing distribution lines

- Higher tolerance of foreign materials than manifolds and orifices
- Designed for the precision farming variable rate technology of today and in the future
- CDS-John Blue Company recommends using the specialized check valves listed below for low flow rates



FLOW DIVIDER & FLOW DIVIDER MOUNTS

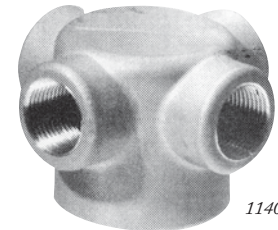
Description	Outlets	Inlet	Outlet	Maximum Flow/Outlet	Part No.
SS flow divider	12	3/4" FPT	1/4" FPT	2.25 GPM	FD-1200 "Exacto Flow"
SS flow divider	20	1" FPT	1/4" FPT	2.25 GPM	FD-2000 "Exacto Flow"
Manifold mount					113989
Check valve - PVC, Viton seal, 316 SS ball, 1/4" hose x 1/4" hose, 1 PS					115284-01
Check valve - PVC, Viton seal, 316 SS ball, 3/8" hose x 3/8" hose, 1 PSI					115285-01
Check valve - PVC, Viton seal, 316 SS ball, 1/2" hose x 1/2" hose, 1 PSI					115286-01

STAINLESS STEEL MANIFOLDS

Stainless steel manifolds can be used with clear liquids for even distribution when used with high pressure distribution systems such as orifices, coulter injection, or nozzles. By interchanging the orifice size you can adjust the application rate. They are constructed of domestic investment cast stainless steel, which will last for many years. Heavy duty, cast iron manifolds are also available.

4 Outlet Manifolds

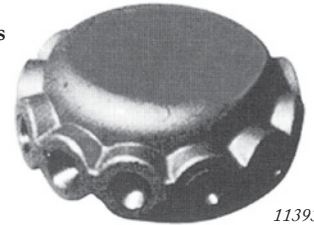
- 50 PSI rated
- 3/4" FPT outlet
- 1-1/2" FPT inlet
- 304 stainless steel



114015

12 and 16 Outlet Manifolds

- 250 PSI rated
- 1/4" FPT outlet
- 1" FPT inlet
- 304 stainless steel



113934

LIQUID MANIFOLDS

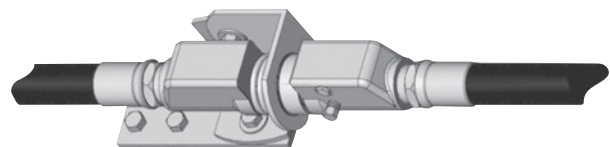
Description	Part No.
16 outlet manifold	114382
12 outlet manifold	113934
4 outlet manifold	114015



TOOLBAR BREAKAWAY

Flo-Max features "swing" style check valves that provide a wide open through bore in its operating position. It comes only in 1-1/4 inch FNPT size for flow hungry applications.

- Stainless steel critical components for reliable operation and no need to replace every three years
- Immediate and easy reconnection so your valuable time is not wasted
- Virtually no pressure drop so you can flow more product in lower temperatures
- Connection to your existing 2 way swivel bracket



Part No. FM126-1000.....[Call for Pricing](#)

Part No. FM126-1004.....[Call for Pricing](#)

NH3 WAGONS

- Comes completely assembled
- Heavy duty retractable tongue with greasable bushings
- Grease fittings on hubs and on 5th wheel plate
- 14000 GVW capacity
- 1000, 1450 and 2000 gal. tanks available
- 3.5 x 3.5 tube tongue
- 501349 inner bearing
- LM67048 outer bearing
- 2" cold rolled spindle
- 2" cold rolled king pin
- 3/8 x 16" plated 5th wheel
- 6-on-6 hub
- 60 - 80" adjustable track width
- Black powder coated finish

NH3 tanks availableCall for sizes and pricing



COUPLERS & ACCESSORIES



1 IN. MALE TIP WITH ACME
Part No. 4510-6MC

1 IN. MALE TIP WITH FPT
Part No. 4510-6C



SNAP RING
Part No. 5-600-6A

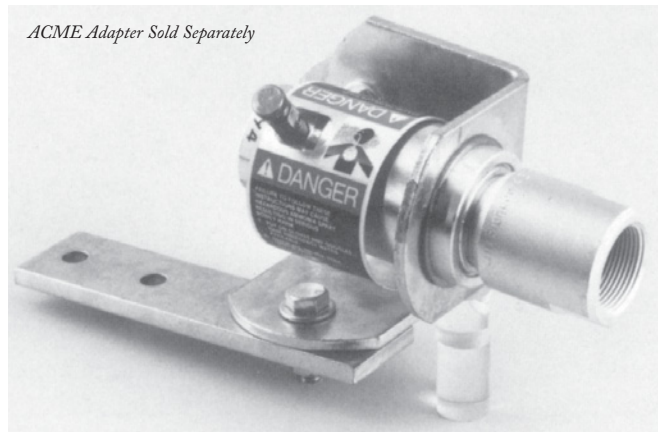


1-1/4 IN. MALE TIP
Part No. 4510-7C



NYLON O-RING
Part No. 45-801-6

NYLON RETAINER
Part No. 4158001



COUPLER PARTS

Description	Part No.
1" coupler complete with ACME	4500-6M
1" coupler/MPT	4500-6
1" female assembly with bracket	4555-6
1-1/4" coupler complete	4500-7
1-1/4" female assembly with bracket	4555-7
Breakaway clamp for 1 & 1-1/4" coupler	4503-7
Adapter 1-3/4" ACME x 1-3/4" MPT	A2005S

ALL COUPLERS AND FEMALE BODY HALVES INCLUDE SWIVEL CLAMP, BLEED VALVE, NURSE TANK AND CLAMP DECALS AND OPERATING INSTRUCTIONS.

RELIEF VALVES

VAPOR RELIEF VALVES

Vapor relief valves are safety valves designed to open when tank pressure rises above 250 PSI. Used on applicator, storage, and nurse tanks, they will protect tanks, piping or hose from excessive pressure caused by overfilling or fire. Relief valves should be replaced 5 years after the date of manufacture which is stamped on the valve.

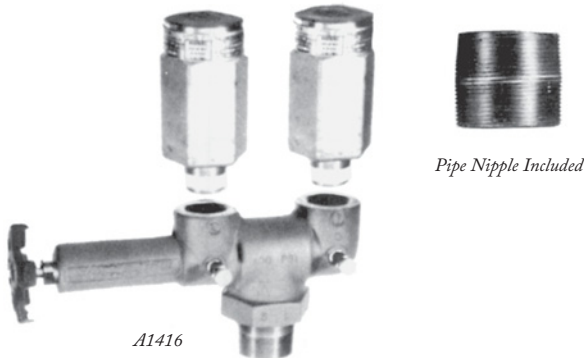


3/4 in. Vapor Relief Valve for Applicator Tanks
Part No. A1301A

1-1/4 in. Vapor relief valve for Storage Vessels
Part No. A1310A

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.



Description	Part No.
Manifold only	A1416
Manifold with two A1310A relief valves with a 2" FNPT tank connection	A1416A
Packing Repair Kit	1415-7

HYDROSTATIC RELIEF VALVE

Hydrostatic relief valves are designed to relieve liquid pressure in valves, hoses, or piping wherein liquid may be trapped. Pressure set at 375 PSI.

Note: All safety relief and hydrostatic relief valves must be changed five years after date of manufacture.

1/4 in. Hydrostatic Relief Valve
Part No. A1327



RELIEF VALVE ADAPTER

Relief valve adapters are used when the NH3 hose assembly remains on the toolbar instead of the nurse tank. Install the adapter between the NH3 quick coupler and the NH3 hose assembly. Install a 1/4 inch hydrostatic relief valve (A400 or A1325) into the relief valve adapter to provide vapor relief to the NH3 hose assembly in excessive pressure situations.

1 in. MNPT x 1 in. FNPT
Part No. A2031

1-1/4 in. MNPT x 1-1/4 in. FNPT
Part No. A2032



BLEEDER VALVE

The bleed valve has a T-handle and is designed to bleed-off trapped liquid or vapor NH3 in hose valves, couplings, and piping. Also for installation in tanks as an 85% liquid level gauge.

1/4 in. Bleed Valve Knob
Part No. A1911

1/4 in. Bleed Valve Knob with 12 in. dip tube installed
Part No. A1911





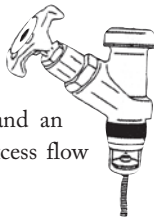
VALVES & REPAIR KITS

MANUAL TOP FILL VALVE

1-¼ inch MPT x 1-¾ inch ACME with plugged ¼ inch FPT side port.

Consists of a service valve, a filling connection and an excess flow valve. Vapor closing flow (NH3) of excess flow valve is 19,000 CFH at 100 PSI inlet.

Part No. A1590P



ANGLE VALVES

Description	Part No.
¾" Angle valve	AL309P
1" Angle valve	AL311P
1-¼" Angle valve	AL313P
2" Angle valve	AL317P



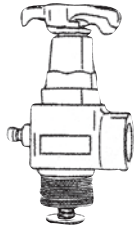
ANGLE VALVES

70 GPM Angle Valves

1-¼ x 1 inch FPT outlet.

For liquid or vapor service-NH3 nurse tank load out riser piping system, replaces separate excess flow and angle valve.

Part No. A1477EP



95 GPM Angle Valves

1-½ x 1-¼ inch

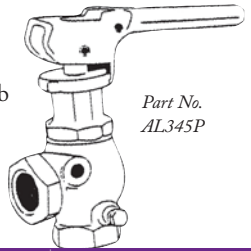
High capacity withdrawal valve for new style nurse tanks.

May require special bushing for proper flow.

Part No. A490R

1 IN. QUICK-FILL ANGLE VALVE

Quick acting hose end valves utilize the standard Squibb globe and angle valve bodies but incorporates a quick acting bonnet assembly. The handle has a "thumb press" to open lever, which prevents accidental opening. Handle automatically locks when closed. Rated flow is 120 GPM @ 10 PSI.



Part No. AL345P

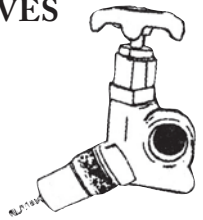
Description	Part No.
Manual top fill valve	A1590P
Angle valve	AL477EP
High capacity angle valve	AL478EP
Withdrawal valve with relief	A1597R
Withdrawal valve with relief	A1598P
Quick-fill angle valve	AL345P

LIQUID WITHDRAWAL VALVES

Withdrawal valve with built-in internal relief.

50 GPM Liquid Withdrawal Valves
Part No. A1597R

55 GPM Liquid Withdrawal Valves
Part No. A1598P



GLOBE VALVES

Description	Part No.
¾" Globe valve	AL308P
1" Globe valve	AL310P
1-¼" Globe valve	AL312P
2" Globe valve	AL316P



Description	Part No.
¾" Globe valve	AL308P
1" Globe valve	AL310P
1-¼" Globe valve	AL312P
2" Globe valve	AL316P

REPAIR KITS

Size	For Valve No.	Part No.
¾"	AL308P & AL309P	308-22
1"	AL310P & AL311P	310-22
1-¼"	AL312P & AL313P	312-22
2"	AL316P & AL317P	316-22
3"	AL320 & AL321	320-22

For Valve Part No.	Kit Components	Repair Part No.
AL312P & AL313P	Packing, disc, body basket, gasket, & O-ring	312-22
AL410P, AL411P, AL412P, AL413P	Disc, bonnet gasket, packing O-ring, & disc nut	410-21
AL310P, AL311P, AL360P, AL477, A1590P, A1592, A1595, A1596R, A1597R, A1598P	Chevron packing, gasket, O-ring, disc, body gasket, & disc nut	310-22
1105-25, A1578, A1592	O-ring, washer, gasket, spring seal, washer, stem & nut	1105-22
AL320P, AL320FP, AL325, AL321FP & AL321P	Packing, disc, body gasket gasket, & O-ring	320-22
AL342 & AL343	Packing, gasket, O-ring, seal, & disc	343-22
AL344P & AL345P	Packing, seals, gasket, O-ring & disc	344-22
A490R	Packing, gaskets, O-ring & disc	479-22

MANUAL TOP FILL VALVE

High flow for applicator and/ or nurse tanks. Designed for use as filler, vapor, or liquid withdrawal valve. Ductile body. Built-in excess flow check assembly.

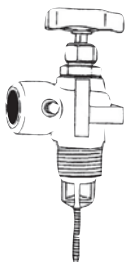
Part No. A1590P



LIQUID OUTLET

1 in. with built-in internal by-pass bonnet assembly installed.

Part No. A1597R



Liquid Withdrawal

1 in. standard outlet valve without internal stem by-pass, 42 GPM

Part No. A1598P

1-1/4 in. with stem by-pass, 44 GPM

Part No. A-1206-FBP

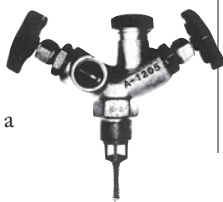
A-1206-FBP

FILLER AND WITHDRAWAL VALVE

Combination valve provides a new safety feature, old auto style back-flow check filler connection is replaced with a positive manual shut-off stem and seat. 1 inch female pipe thread withdrawal outlet is equipped with a by-pass stem assembly for protection of hose or metering device

Note: the handwheel area of this valve requires a 5-1/2 inch swing radius clearance to install it.

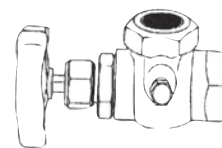
Part No. A-1205-1



ANGLE VALVES

- Stainless steel stem
- Hex wrench pads
- Ductile iron body

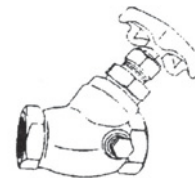
Part No. AL311P



1 IN. GLOBE VALVE

- Stainless steel stem
- Hex wrench pads
- Ductile iron body

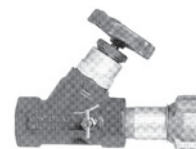
Part No. AL310P



1-1/4 IN. COMPACT GLOBE VALVE

- For use with transfer hoses with both liquid and vapor service
- Built-in ACME coupler and bleed valve

Part No. A-215



Description	Part No.
Manual top fill valve	A1590P
Filler & withdrawal valve	A-1205
Angle valve - 1"	AL311P
Globe valve - 1"	AL310P
Liquid outlet valve	A1597R
Liquid withdrawal valve with by-pass	A1598P
Liquid withdrawal valve without by-pass	A-1206-FBP

MISCELLANEOUS VALVE REPAIR KITS & ACCESSORIES

VALVE REPAIR KIT

Description	Part No.
Repair Kit 1-1/4 - 1-1/2"	A-24-RK

Repairs: A2424-A2450-A2525-A2550

SIDE MOUNT WATER TANK

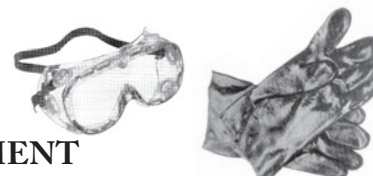


Description	Part No.
Side mount water tank	76411
Side mount safety kit	75649

MULTI-PURPOSE AND TRANSFER VALVES-REGO

Valve No	Kit Contents	Part No.
A8016DP	Cap washer, seat disc, jam ring, pressure seal rings, gaskets	RA8016B-50
A8017DP		
A8018DP		

SAFETY EQUIPMENT



Description	Part No.
Safety goggles, non-vented with adjustable strap	2237R
Ammonia gloves (black)	120SG
Chemical gloves (green)	618 (Size 9)
	(Size 10)
	(Size 11)

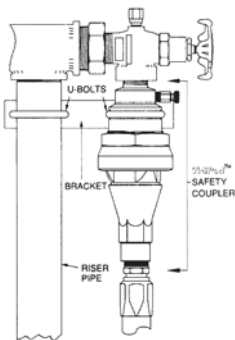


BULK PLANT SAFETY EQUIPMENT

TRI-POD™ SAFETY COUPLER

Tri-Pod prevents the escape of NH₃ at the filling riser area in the event of an accidental pullaway of the nurse tank. Double back check permits closure in both sections of the coupler, minimizing NH₃ release at the riser and the nurse tank hose.

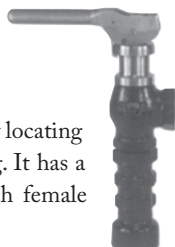
- Release mechanism unaffected by a pullaway, easily reconnected for years of continued service
- Stainless steel construction throughout and TFE back check seats for long, dependable operation
- Adapts to most existing risers without the need for piping changes
- Independent protection of each hose, not sensitive to the direction of the pullaway
- Five year limited warranty



Description	Part No.
1" 55 GPM	TP-5-1000
1" 77 GPM	TP-6-1000
1-¼" 126 GPM	TP-7-1000

MINIMUM LOSS HOSE END VALVE

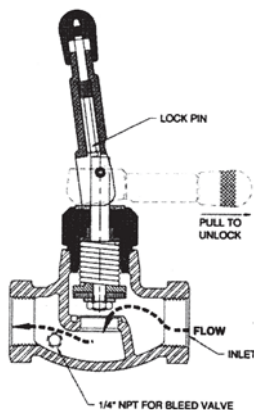
Minimizes NH₃ leakage when disconnecting by locating the seat disc in the bottom of the filler coupling. It has a 1 inch FNPT inlet connection and a 1-¾ inch female ACME outlet connection.



Description	Part No.
1" FNPT x 1-¾" female ACME	AL343

QUICK ACTING GLOBE VALVE

- Spring activated safety locking handle device prevents accidental opening
- Handle swivels 360°, operates in any position
- Teflon pressure core stem seal
- Teflon disc seal
- Nitride hardened stainless steel stem
- 400 PSI working pressure



Description	Part No.
½" Globe valve	AL416P
¾" Globe valve	AL417P

EMERGENCY SHUTOFF VALVES

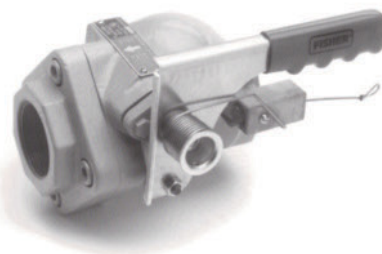
Type N550 Emergency Shutoff Valves (ESVs) designed for in-line installations, usually near a bulkhead. The valves provide a means of shutting off gas in the event of a hose rupture or piping break at the transfer area to avoid a large scale loss of LP-Gas or NH₃.

The valves can be manually opened and closed at the installed location or closed remotely by either cable or air. A remote operating actuator is also available.

- High capacity flow
- Operational ease
- Fusible element
- Rugged construction
- Ease of service
- Cable release
- Pneumatic operation

Part No. N550-10

Part No. N550-24



THE ROTASEAL™

The RotaSeal™ increases freedom of movement to make attaching or disconnecting hose end valves easier. It also prevents twisting of the hose. Unique TFE pressure core seal eliminates the need for O-rings or lip seals, giving longer working life. The double sealed radial ball bearing makes rotation torque of the swivel unaffected by pressure in the hoses.

- Lightweight with full bore opening for no flow restriction.
- 400 PSI working pressure
- 5 year limited warranty



Description	Part No.
¾" MNPT x FNPT	AL107
1" MNPT x 1" FNPT	AL109
1-¼" MNPT x 1-¼" FNPT	AL111

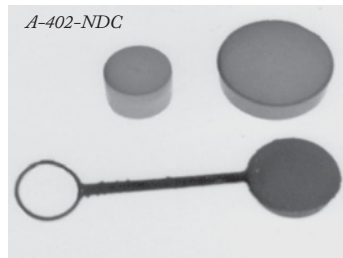
VALVE REPAIR KITS, RELIEF VALVE CAPS & AMMONIA GAUGES

SQUIBB VALVES

For Valve Part No.	Kit Components	Repair Part No.
AL308P & AL309P	Packing, gasket, O-ring, disc, body gasket, & disc nut	308-22
AL310, AL311P & AL1590	Packing, gasket, O-ring, disc, body gasket, & disc nut	310-22
AL312P & AL313P	Packing, disc, body gasket, gasket, & O-ring	312-22
AL314P & AL315P	Packing, disc, body gasket, gasket, & O-ring	314-22
AL320P, AL320FP, AL321P & AL321FP	Packing, disc, body gasket, gasket, & O-ring	316-22
AL316P, AL316, AL317P & AL317FP	Packing, disc, body gasket, gasket, & O-ring	320-22
AL407P & AL409	Packing, disc, bonnet gasket, O-ring, & disc nut	407-21
AL410, AL411, AL412 & AL413	Packing, disc, bonnet gasket, O-ring, & disc nut	410-21
AL342, AL344P & AL345P	Stem seal, disc, nut, & pin	344-22

CAPS FOR CONTINENTAL VALVES

- A-402-NDC is for 3/4" Continental relief valves
- A-417DC is for 1-1/4" Continental relief valves
- P145 is for 3/4" Squibb and Continental relief valves, can be used as a dust cap to cover 1-3/4" male ACME adapters and NH3 fill and withdrawal valves on nurse tanks
- A1301-12 is for 3/4" Squibb relief valves.
- A1310-12 is for 1-1/4" Squibb relief valves.



Description	Part No.
Rubber dust cap	P145
3/4" plastic cap	A-402-NDC

(Applications for above-mentioned caps)

CONTINENTAL VALVE REPAIR KITS

Description	Part No.
Repair Kit 1" for 1200 and 1300 Series valves	A-2212-RK
Repair Kit 1-1/4" - 1-1/2" for A2424, A2450, A2525, and A2550 valves	A-24-RK
Repair Kit 2" for A2600 and A2700 Series valves	A-26-RK

AMMONIA GAUGES

Series ASG 2-1/2 in. Ammonia Gauge

- 1/4" bottom stem
- 304 stainless steel



Number	Graduation		PSI Range	Part No.
	Major	Minor		
10	10	2	0-60	ASG60
20	20	5	0-160	ASG160
50	50	10	0-400	ASG400

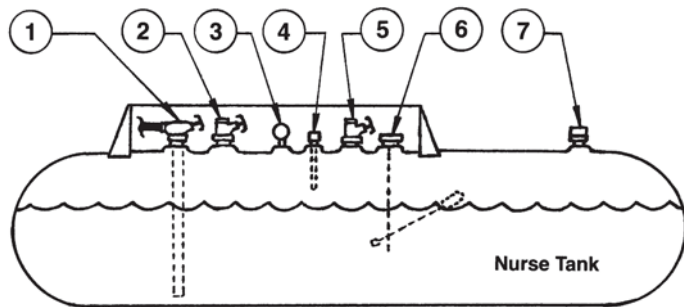
Series ASG 4 in. Ammonia Gauge

- 1/4" bottom stem
- 304 stainless steel
- Improved visibility for remote installations

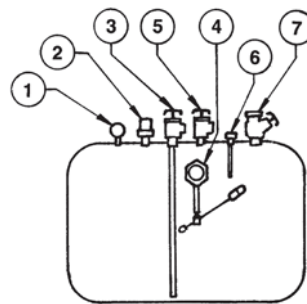


Number	Graduation		PSI Range	Part No.
	Major	Minor		
10	10	2	0-60	ASG604
20	10	5	0-160	ASG1604
50	50	10	0-400	ASG4004

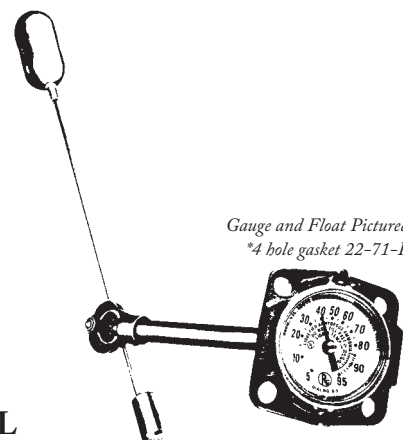
NH3 EQUIPMENT & GAUGES



APPLICATOR TANK



Type of Tank	Ref. No.	Description	Part No.
Nurse Tanks	1	Liquid withdrawal valve	A1597R or A1206
	2	Liquid filler valve	A1201-A1590P
	3	Pressure gauge	A408
	4	Fixed liquid level gauge	A411 or A1910
	5	Vapor valve	A1201-A1590P
	6	Magnetic float gauge	'Senior'
	7	Relief valve	A402VA
Applicator Tanks	1	Pressure gauge	A408
	2	Relief valve	A402VA
	3	Liquid withdrawal valve	A1597R or A1206
	4	Magnetic float gauge	'Senior'
	5	Vapor valve	A124A- AL409P
	6	Fixed liquid level gauge	A411 or A410
	7	Liquid filler valve	A1201- A1590P



Gauge and Float Pictured
*4 bole gasket 22-71-F

NH3 VOLUME GAUGE

Mount	Tank Diameter	Part No.
*Top senior SS	41"	A6480-13
*Top senior SS	46"	A6480-12
*45° angle senior	41"	AC214B
*45° angle senior	46"	AC240A
Top senior	24"	AA130A
Top senior	30"	AA160A
Top senior	37"	AA194A
Top senior	41"	AA214ES
Top senior	46"	AA240A
Mount end	30"	AD100D
Mount end	37"	AD120E
Mount end	41"	AD140A
Mount end	46"	AD150A
45° angle	24"	AC130A
45° angle	30"	AC160A
45° angle	37"	AC194A

The majority of gauges in Jr. head have the same pricing as the senior gauges. All stainless steel gauges are also available in sizes AA214E and AA240A. *Designates Stock Gauges.

CONTINENTAL REPLACEMENT GAUGES

Description	Part No.
Rochester Senior	R-5002-S00002
Rochester Junior	R-5323-S01848

SQUIBB VISIBLE REPLACEMENT DIAL

Description	Part No.
Visible Junior	2208CV
Vitiable Senior	130010



ACME GASKETS

ACME gaskets are made of Buna-N material and are designed for NH3 service. They fit ACME thread end of valves, adapters, speed couplers, and quick couplers.



Description	Part No.
Junior volume gauge gasket	STJRGASKET
Senior volume gauge gasket	STSRGASKET

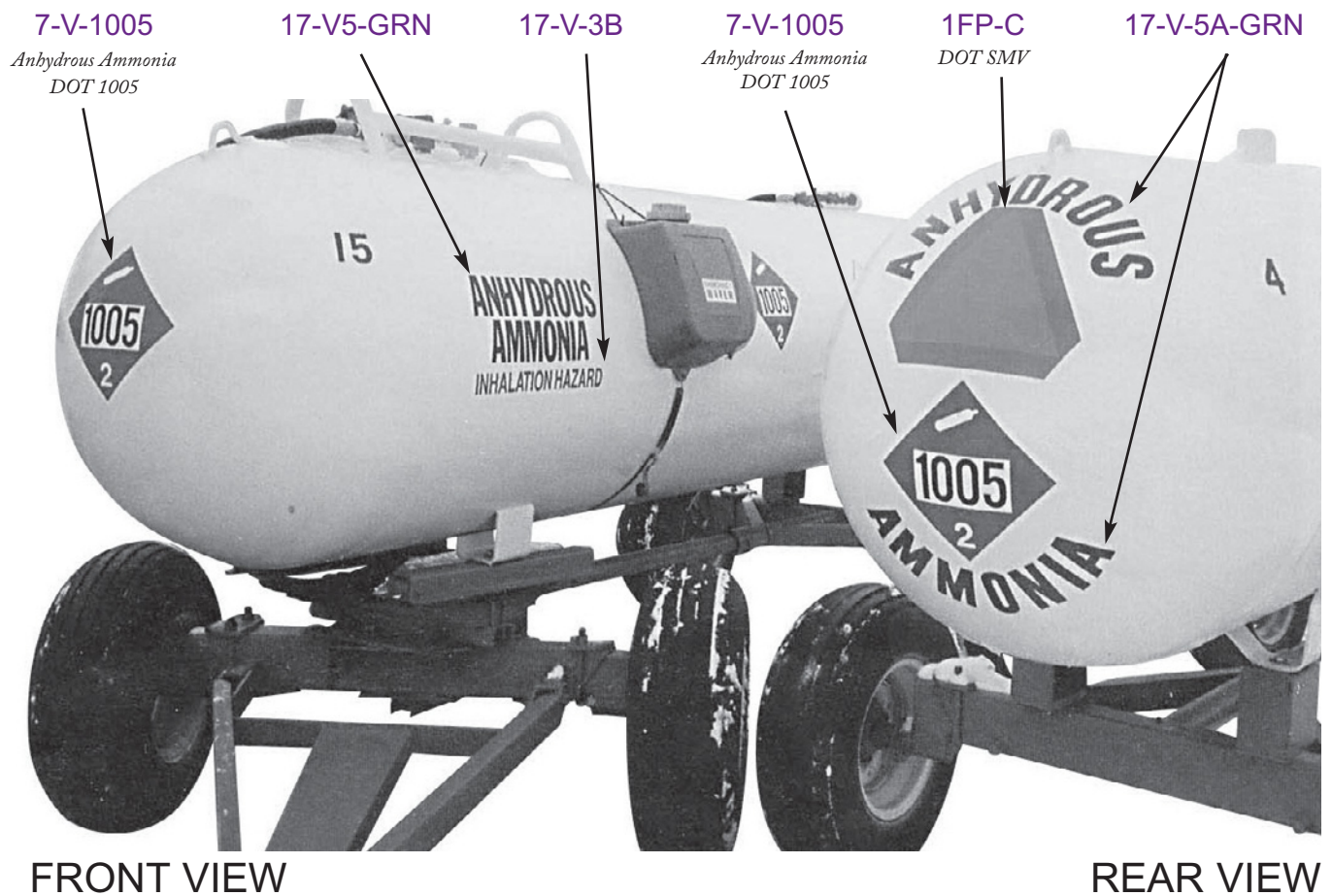
ANHYDROUS AMMONIA DECAL KIT

ANHYDROUS AMMONIA DECAL KIT

Kit includes all decals shown below.

Part No. 34889

Description	Quantity	Part No.
Decal, DOT "un" number NH3	4	7-V-1005
Decal, SMV only	1	1FP-CH
Decal, NH3 curved 4 letters	2	17-V-5A-GRN
Decal, Caution 3 pt.	1	16-V-9
Decal, Anhydrous Ammonia (Green/White)	2	17-V5-GRN
Decal, Inhalation Hazard 4" x 36"	2	17-V-3B
Transfer instructions	1	V0
Decal, valve ID label	1	17-V-8



TYPICAL NURSE TANK DECALS

State regulations vary and you should check with the proper agency to see what else might be needed. For example, Minnesota and North Dakota require slow moving decals in addition to the above DOT requirements.



RECTANGULAR ANHYDROUS AMMONIA

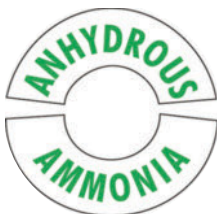
Green on white 10 x 24 inch pressure sensitive decal. Has 4 inch letters. Can also be used in straight line by cutting along dotted lines.



Part No. 17-V5-GRN

CIRCULAR ANHYDROUS AMMONIA

4 inch green letter on white background. Pressure sensitive die-cut to fit compound curve of nurse tank.



Part No. 17-V-5A-GRN

LONG RECTANGULAR ANHYDROUS AMMONIA

Green on white 3 x 24 inch decal.



Part No. 17-V-2A

TRANSFER INSTRUCTION

Green on white 12 x 25 inch decal. Gives complete transfer instructions, application instructions, safety suggestions, and first aid suggestions.



Part No. V00

INHALATION HAZARD

Green on white 4 x 36 inch decal with 3 inch letters. Pressure sensitive adhesive.

3 in. Inhalation Hazard
Part No. 17-V-3B



2 in. Inhalation Hazard
Part No. 17-V-2B

LIQUIFIED

Green on white 5 x 24 inch decal with 4 inch letters. Pressure sensitive adhesive.

Part No. 16-V-43



DECALS



Description	Part No.
Metal SMV sign	2-CH
Bracket for metal SMV sign	19516A91

Note: No Drilling Required to Mount SMV Bracket



Description	Part No.
Slow moving vehicle, highly reflective decal	1FP-CH

CD35001 Standard SMV slow moving vehicle decal. Adhesive pressure sensitive backing.



Description	Part No.
Wear Your Goggles decal	CD35012

White on green 4 x 6 in. "Wear Your Goggles" safety reminder decal.



Description	Part No.
1 x 4" Vapor decal	11-V-91
1 x 4" Liquid decal	11-V-90

STORAGE TANK DECALS

Recommended marking and placarding of anhydrous ammonia storage tanks. Green on white anhydrous ammonia decals in 6 inch lettering on both sides. Green on white inhalation hazard decals in 6 inch lettering on both sides. DOT UN1005 white on green decals on both sides. 82% Nitrogen decal in one location.

ANHYDROUS

Green on white 8 x 36 inch decal with 6 inch lettering. Adhesive pressure-sensitive backing. Part No. FE5009



DOT 'UN' NUMBER

White on green 10 x 10 inch diamond decal with DOT UN number 1005. Adhesive pressure-sensitive backing. Part No. 7-V-1005



AMMONIA

Green on white 8 x 36 inch decal with 6 inch lettering. Adhesive pressure-sensitive backing. Part No. FE5008



INHALATION HAZARD

Green on white 8 x 5 inch decal with 4 inch lettering. Adhesive pressure-sensitive backing. Part No. 17-V-6B



NITROGEN

Green on white 5 x 24 inch decal with 4 inch lettering. Adhesive pressure-sensitive backing. Part No. 17-V-4



CAUTION AMMONIA

6 inch red letters. Can also be used in a straight line by cutting along dotted line. Part No. 17-V-3



ORANGE LIQUID

2 inch black letters on white background. Part No. CD35015



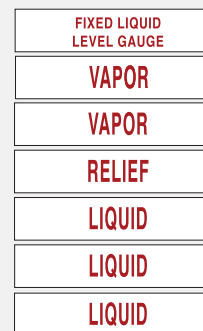
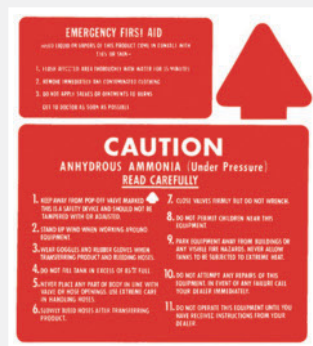
YELLOW VAPOR

2 inch black letters on white background. Part No. CD35016



CAUTION AMMONIA

5 inch red letters. Legends to fit compound curve. Part No. 17-V-3A



Description	Part No.
3 pt. Caution decal	16-V-9

Three piece decal with 9 x 12 in. caution information. 4 x 8 in. first aid information and pointed arrow.

Description	Part No.
ID decal	17-V-8

Seven individual 1 x 3 in. red on white valve identification decals on one sheet.

WARRANTY

All items listed in the catalog have different warranties, for clarification call Independent Ag Equipment.

DELIVERY

Delivery is available for large equipment. Contact Independent Ag Equipment for available delivery dates and costs. Most items are stocked in our warehouses and can be shipped UPS, same day.

PRICES

Due to the instability of the market, all prices and quotations are subject to change without notice.

RETURN POLICY

No merchandise is to be returned to Independent Ag Equipment for credit unless authorized by an Independent Ag Equipment representative. Returns must include an authorization number and must be shipped prepaid. Special order items will not be accepted back into our stock.

There will be a 20% restocking charge off the invoice cost on approved returns. Additional charges will be made if merchandise is in less than saleable condition.

All merchandise shipped to Independent Ag Equipment without authorization will be returned freight collect.

Should a return not be made within 20 days of receipt, the invoice or invoices on which these items appear must be paid.

No returns will be credited 45 days after invoice date.

CREDIT POLICY

Open accounts are established after credit has been obtained. If you wish to establish credit, request a credit application from Independent Ag Equipment.

After satisfactory credit has been established, future orders can be processed on an open account.

Initial orders will be shipped on a credit card or COD basis until your credit line has been established.

Terms of sale are stated on all invoices and are subject to payment accordingly.

MINIMUM ORDER

All orders of \$25.00 list may be eligible for discounts. Orders less than \$25.00 list will be billed at list price. A minimum invoice of \$10.00 is required.



Independent Ag
EQUIPMENT

IndependentAg.com

374 Heidlersburg Rd
PO Box 358
Biglerville, PA 17307
P 800-345-3546
F 800-233-4771

4341 Sandhill Rd
Bellevue, OH 44811
P 800-848-8460
F 800-541-0755

8497 South US 31
Bunker Hill, IN 46914
P 888-563-1988
F 765-689-5014

APPLICATION FOR ACCOUNT

PLEASE GIVE COMPLETE ANSWERS TO ALL QUESTIONS: (PLEASE PRINT OR TYPE)

NOTE: THIS APPLICATION WILL BE RETURNED IF NOT COMPLETED IN FULL.

Complete Business Name: _____
(If incorporated, print exactly as shown on Corporate Charter)

Type of Business: _____

Number of Years in Business: _____ Phone (Bus): () _____ Fax #: () _____

Street Address or Physical Location: _____

Billing Address: _____

Purchasing Agent: _____ E-mail address: _____

Annual Sales: _____

Type of Organization:

Corporation Federal Tax I.D. Number: _____

Partnership Federal Tax I.D. Number: _____

Individual

List of Complete Names of All Principals:

Name	Title	Home Address	Social Security Number
_____	_____	_____	_____
_____	_____	_____	_____

Credit References:

Banks (include personal bank if proprietorship or partnership):

1. _____
Name Complete Address Officer to Contact Telephone Number

2. _____
Telephone Number

Equipment dealers and other suppliers that have extended credit to you **(must include fax number or email):**

3. _____
Name of Suppliers or Finance Co. Complete Address
() Telephone Number () Fax Number Required Email Required

4. _____
Name of Suppliers or Finance Co. Complete Address
() Telephone () Fax Number Required Email Required

5. _____
Name of Suppliers or Finance Co. Complete Address
() Telephone () Fax Number Required Email Required

6. _____
Name of Suppliers or Finance Co. Complete Address
() Telephone () Fax Number Required Email Required

Continued on next page

THESE QUESTIONS MUST BE ANSWERED!

Our credit terms are listed on each invoice. If your credit is approved, will you pay your account on time? _____

If a payment discount is allowed, will you take the discount? _____

PLEASE READ:

IF THIS CREDIT APPLICATION IS APPROVED, I HEREBY AGREE TO THE FOLLOWING TERMS AND CONDITIONS:

1. All sales are conditional sales and title to property is expressly retained by Independent Ag Equipment until payment is made in full.
2. All accounts are due and payable per the terms listed on each invoice. All past due accounts are subject to a FINANCE CHARGE OF 1-½% PER MONTH OR 18% ANNUAL PERCENTAGE RATE. I agree to pay all collection expenses, including a reasonable attorney's fee if my account is submitted for collection.
3. I agree to pay all finance charges assessed on my account. I further agree not to take payment discounts on invoices that are past the payment due dates. No discounts will be allowed on current invoices if there are unpaid invoices, finance charges or disallowed discounts.
4. All receipts on the account will be applied to the oldest invoices including finance charges.
5. I hereby authorize Independent Ag Equipment to correspond with all references, etc.
6. Attachments: Personal Guarantee attached Yes No
 Most recent Financial Statement attached Yes No

7. Sales Tax Exemption Information

If you are tax exempt, please complete a state approved Sales Tax Exemption form and return it with this application. If the form is not received, all invoices will be charged sales tax.

I HEREBY CERTIFY THAT ALL QUESTIONS ANSWERED ABOVE ARE FACTUAL TO THE BEST OF MY KNOWLEDGE.

Signed: _____ Title: _____

Date: _____



374 Heidlersburg Rd
 PO Box 358
 Biglerville, PA 17307
 P 800-345-3546
 F 800-233-4771

4341 Sandhill Rd
 Bellevue, OH 44811
 P 800-848-8460
 F 800-541-0755

8497 South US 31
 Bunker Hill, IN 46914
 P 888-563-1988
 F 765-689-5014

SNOW EQUIPMENT SALES REGIONS

Thomas L Bair, VP of Snow Sales
 Cell: 717-357-3287, TLB@gvminc.com

PENNSYLVANIA PARTS SALES

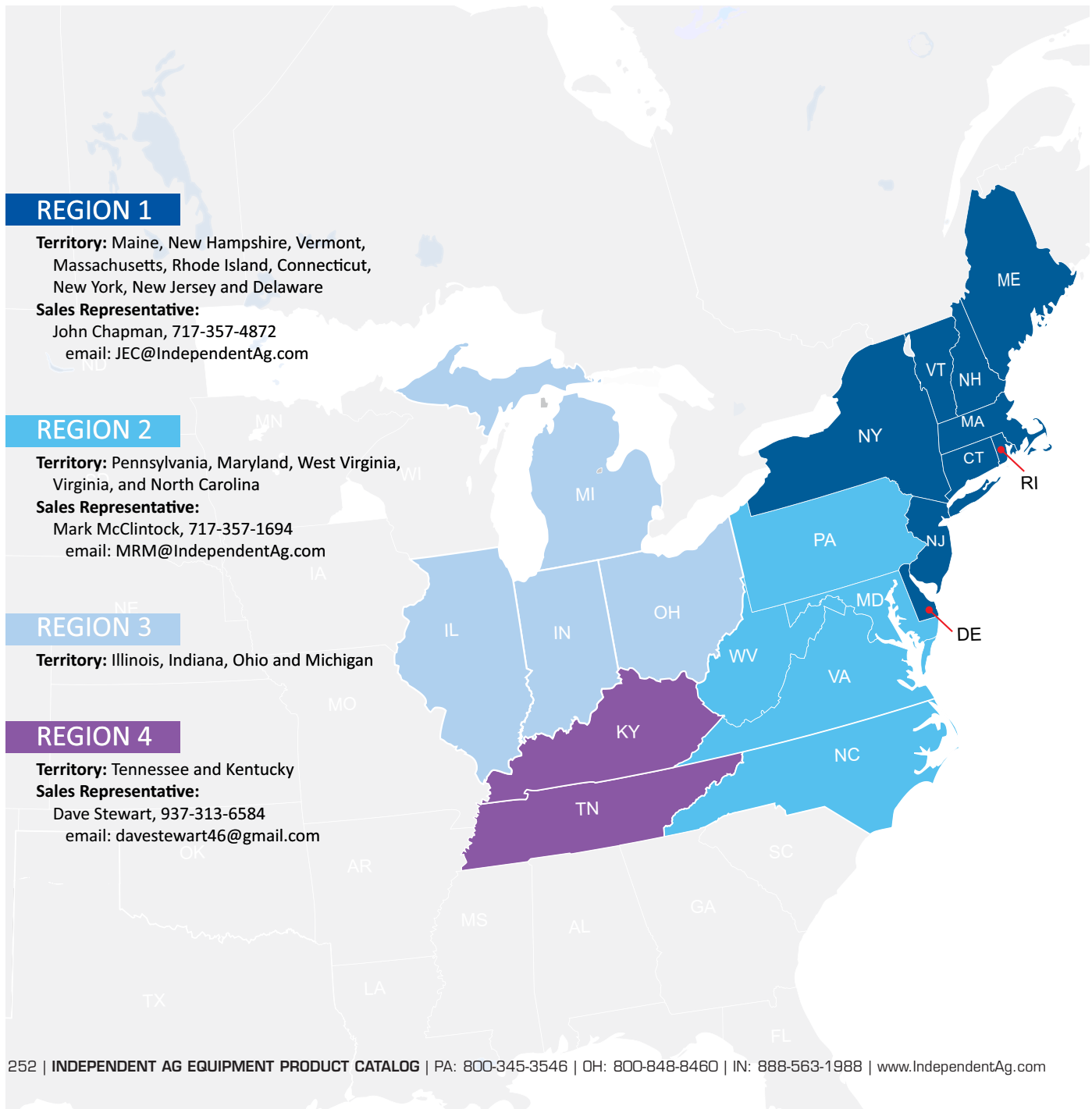
Gary Camp
 Ext. 262, Direct: 717-677-3462, GDC@IndependentAg.com
 Dillon Gardner
 Ext. 208, Direct: 717-677-3408, DHG@IndependentAg.com
 Aaron Welper
 Ext. 211, Direct: 717-677-3411, ASW@IndependentAg.com
 Kyle Whitmoyer
 Ext. 256, Direct: 717-677-3456, KAW@IndependentAg.com

OHIO PARTS SALES

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 Kip VanFleet
 800-848-8460, Ext. 202, KAV@IndependentAg.com
 Darren Teal
 800-848-8460, Ext. 206, DAT@IndependentAg.com
 Christine Irons
 800-848-8460, Ext. 210, CMI@IndependentAg.com

INDIANA PARTS SALES

Chris Kunkle
 888-563-1988, CPK@IndependentAg.com
 Meghan Maroney
 888-563-1988, MLM@IndependentAg.com



REGION 1

Territory: Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey and Delaware
Sales Representative:
 John Chapman, 717-357-4872
 email: JEC@IndependentAg.com

REGION 2

Territory: Pennsylvania, Maryland, West Virginia, Virginia, and North Carolina
Sales Representative:
 Mark McClintock, 717-357-1694
 email: MRM@IndependentAg.com

REGION 3

Territory: Illinois, Indiana, Ohio and Michigan

REGION 4

Territory: Tennessee and Kentucky
Sales Representative:
 Dave Stewart, 937-313-6584
 email: davestewart46@gmail.com

AG EQUIPMENT SALES & SERVICE REGIONS

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Erica Schaeffer, Sales Support and Receptionist
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Kip VanFleet, Ext. 202, KAV@IndependentAg.com
Darren Teal, Ext. 206, DAT@IndependentAg.com
Christine Irons, Ext. 210, CMI@IndependentAg.com

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Brian Daniels, Service Technician
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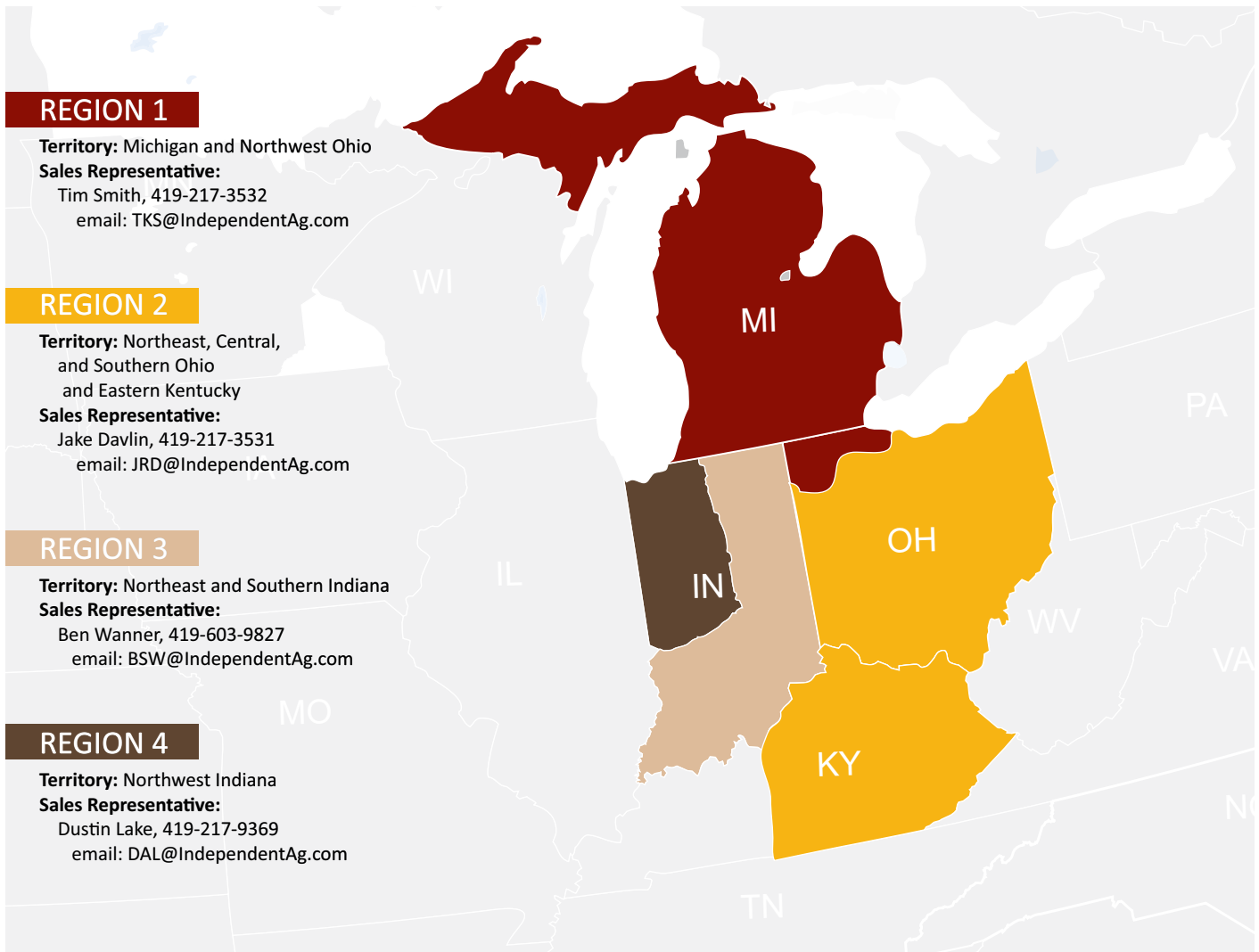
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REGION 3

Territory: Lower New York City, Long Island, New Jersey, Delaware, Maryland and Virginia Peninsula

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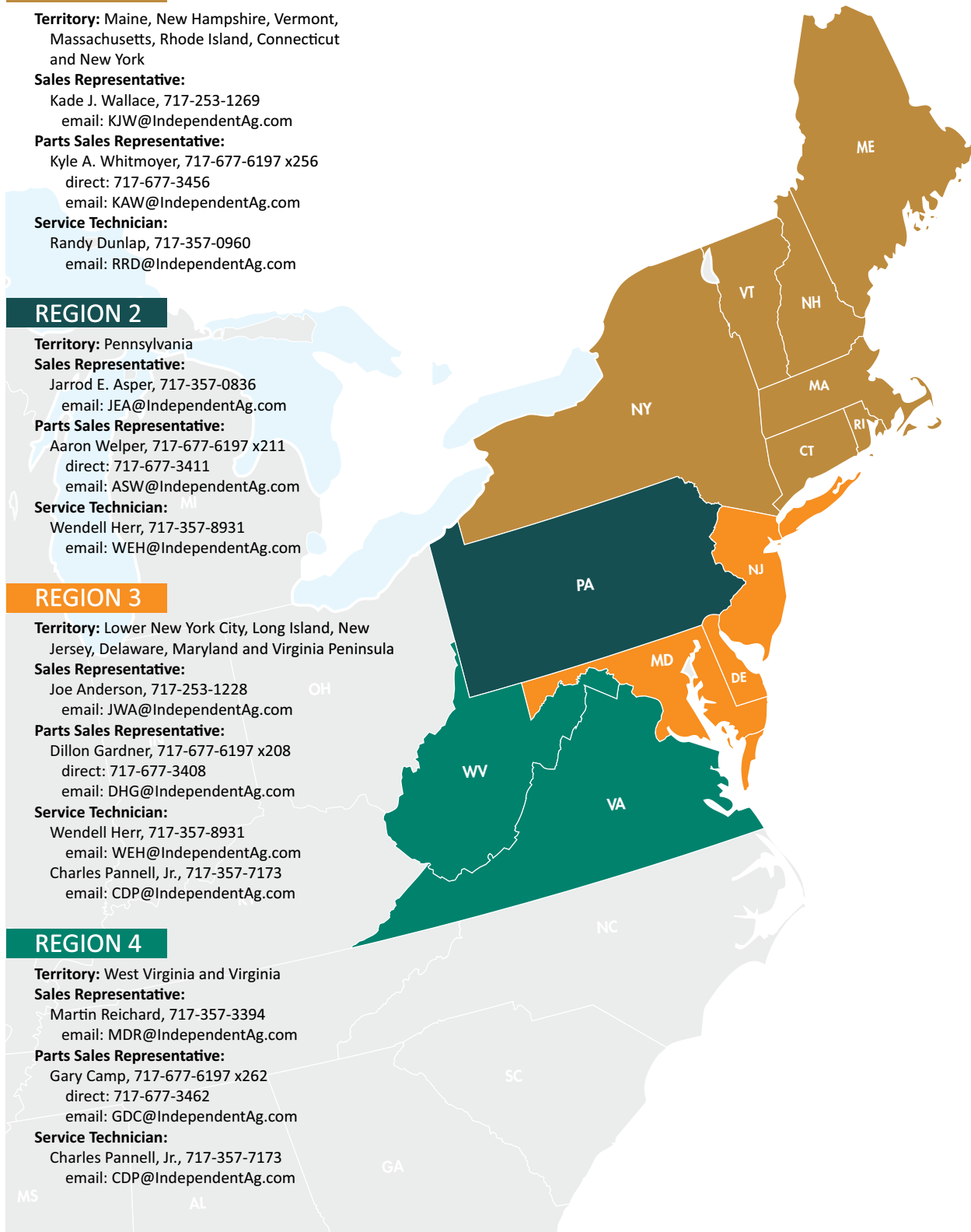
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Yellow Sales: Jake Davlin, 419-217-3531
Service: Brian Daniels, 419-217-9739
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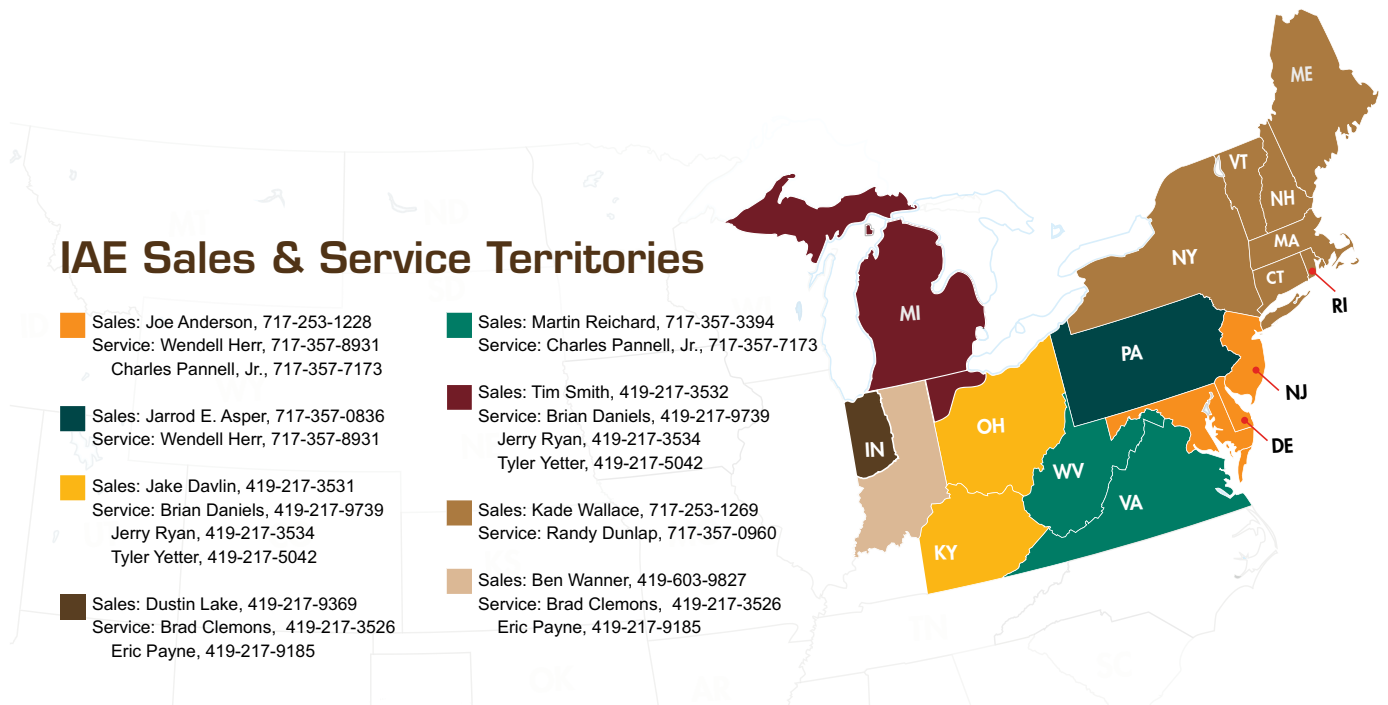
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Eric Payne, 419-217-9185

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Service: Charles Pannell, Jr., 717-357-7173

Dark Red Sales: Tim Smith, 419-217-3532
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Light Brown Sales: Kade Wallace, 717-253-1269
Service: Randy Dunlap, 717-357-0960

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