NEW PRODUCTS



Ultimate Hot Load Nurse Trailer

1,600 gallon stainless steel cone bottom tank is a durable, efficient way to haul your chemical loads to the field.

Page 21

J&M Applicators

Now available NitroGro 6000 Applicators with a 2,600 gallon tank and the industry's highest toolbar clearance.

Page 24





Stainless Steel Mix Tanks

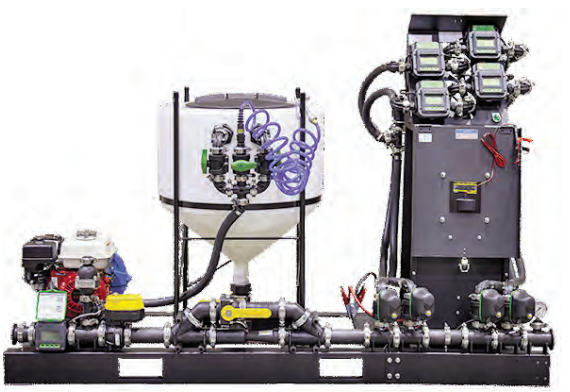
Stainless steel mix tanks ranging from 60-250 gallons. Each can be customized to fit your needs with additional couplings to add chemicals, a jug rinse nozzle, or lid.

Page 31

Dura Products FastBatch™ Systems

FastBatch™ Systems deliver fast, safe, efficient mixing solutions that can reduce mixing and filling times by 50-75% for increased productivity. Choose from an injection model, venturi suction model, or combination of both.

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Turn to Page 146 for Breakdowns on Pumps, Meters, Coulters, etc

Soil-Max Gold Digger Stealth ZD



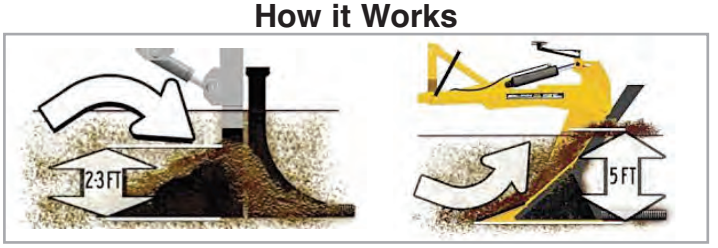
- Constructed of T1 Steel to be lighter and stronger
- Replaceable shears and poly sided boots allow plow to be as wide as needed for tile size
- Needs only a minimum of 20,000 lb tractor
- Install tile up to 5½ - 6½ ft deep
- Nitro rod cylinders last 3 times longer than chrome
- Proportional valves make it GPS control ready
- Lay from 3" all the way up to 10" tile
- Available as a Pull-Type or 3-Pt Hitch model

Intellislope™ Plow Control System

Using the Ag Leader InCommand® Go16, the Intellislope® offers unmatched tiling productivity by eliminating manual grade calculations, laser tripod setup, and reposition hassels. Survey the installation path by driving over it, and AutoTile® plans the installation profile at your choice of depth and grade. Then archive and manage installed lines in SMS for accurate record keeping. If you can drive a tractor, you can install tile with the Intellisope®.

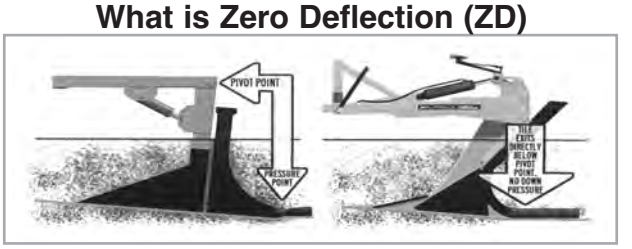


How it Works



The amount of soil lifted affects the drag on any tile plow. Most tile plows only lift the soil 2-3 feet. The Gold Digger with STEALTH ZD Technology provides lifting action up to 5 feet, reducing the side pressure drag on the plow. This helps it glide easily through the soil as it lays 3" to 10" tile, up to 7' deep.

What is Zero Deflection (ZD)



Most tile plows use the pitch of the plow to control grade. Deflection occurs when the tile plow pitches up or down, which can damage the tile or cause it to go off course.

Zero Deflection Technology, a patent-pending product from Soil-Max, features a unique design that avoids deflection and eliminates opposite grade reaction. Positioning the plow to follow the leading edge keeps it from pushing down in back so there's no tile damage or effect on the grade.



SOIL MAX SHAPER PRO

Manage your tile installation trench with ease, with our new innovative design.

- 1000 RPM Only (Includes 1¾" & 1⅜" Shaft)
- Rotating Blades Made of T1 Steel
- Rotating Blade: 24" Diameter
- Weight: 1800 lbs
- Length: 67.5"
- Width: 95.5"
- Height: 44.75"
- 3PT Hitch: CAT 2 & CAT 3

ALL NEW CAT II 3 POINT STEALTH ZD®

Gold Digger Features:
- Constructed of T1 Steel to be lighter and stronger
- Replaceable shears allow plow to be as wide as needed
- Needs a minimum of a 8,000 lb tractor
- Needs a minimum 120HP tractor
- Tiles up to 4 feet Deep
- Lay 2" - 4" tile at your convenience with easy change boots
- Poly sides shed dirt and pulls easier

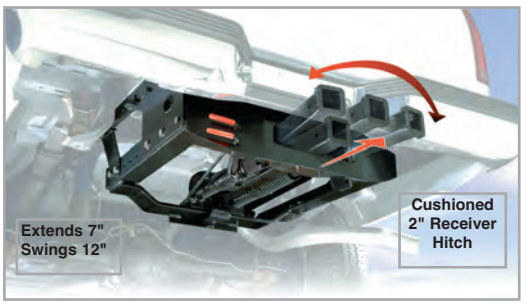


GD6101509	4" Replacement Shear for Stealth Plows, Includes Bolt Kit
GD6101510	6" Replacement Shear for Stealth Plows, Includes Bolt Kit
GD6101585	50' Mono Filament Tow Rope, 125,000 LB Capacity
GD6101586	15' Mono Filament Tow Rope, 125,000 LB Capacity
GD6101588	30' Wire Tow Cable
GD6101589	Clevis, Screw Pin, 1⅜" Pin, 17 Ton Working Load Limit
GDPROBE5	Tile Probe, Steel, 5 Foot, Replaceable Steel Tip

HEAVY DUTY STRINGER CART

- Available: Single Axle, Tandem Axle, or 3 Point Hitch
- Only Stringer Cart in the Market with Hydraulic Disc Brake
- 5,200 LB Axle with 12.5 L X 15 Tires, 8 Ply
- Control Options: Electric or Tractor Supplied Hydraulics
- Electric controlled: 30' Cable with Control Box or Wireless Remote
- LED Lights, Height Adjusting Hitch, Legal Highway Transport Width
- 11' 6" Tabletop, 12" Diameter Stringer

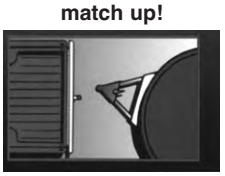




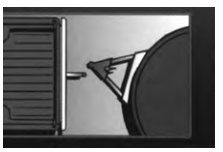
The towing system that pays for itself over the long haul.

Mounts to truck frame under OE bumper ...

No need to match up!



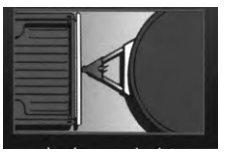
Receiver extends 7"



Swings 12" left to right



Back up to lock pull forward to align



QUIC'N EASY HITCH®

PART NO.	DESCRIPTION	YEARS	LIST
DMI47070007	Quic'n Easy Hitch Frame (Receiver Type Hitch)		$ 1215.00
DMI47090001	Cush'n Combo Hitch Frame (Tongue Type Hitch)		$ 1160.00
MOUNTING OPTIONS			
DMI47082020	Chevrolet/GMC 1500	1988-1998	$ 365.00
DMI47082080	Chevrolet/GMC 1500	1999-2013	$ 337.00
DMI47082800	Chevrolet/GMC 1500	2014-2018	$ 337.00
DMI47082021	Chevrolet/GMC 2500/3500HD Long Bed	2001-2010	$ 393.00
DMI47082022	Chevrolet/GMC 2500/3500 Short Bed	2001-2010	$ 395.00
DMI47082550	Chevrolet/GMC 2500/3500HD Short Bed	2011-2019	$ 365.00
DMI47082500	Chevrolet/GMC 2500/3500HD Long Bed	2011-2019	$ 395.00
DMI47082570	Chevrolet/GMC 2500/3500HD Short Bed	2020-2025	$ 430.00
DMI47082850	Chevrolet/GMC 2500/3500HD Long Bed	2020-2025	$ 430.00
DMI47082090	Dodge Ram	1994-2001	$ 395.00
DMI47082400	Dodge Ram 1500	2009-2014	$ 430.00
DMI47082095	Dodge Ram 2500/3500	2002-2013	$ 337.00
DMI47082651	Dodge Ram 2500/3500	2014-2019	$ 337.00
DMI47082600	Dodge Ram 2500/3500 *(3500 Model Year 2020 Only)*	2020-2025	$ 337.00
DMI47082655	Dodge Ram 3500	2021-2025	$ 337.00
DMI47082700	Ford F-150	2009-2014	$ 337.00
DMI47082900	Ford F-150	2015-2025	$ 395.00
DMI47082040	Ford F-250 SD Ford F-350 SD	1978-1998 1978-1998	$ 365.00
DMI47082070	Ford F-250/F-350 Super Duty	1999-2016	$ 365.00
DMI47082050	Ford F-250/F-350 Super Duty	2017-2025	$ 365.00
SPECIAL OPTIONS			
DMI47082201	Polished Stainless Steel Faceplate		$ 137.50

T&T CLEANER/ AGRO-CHEM PAINT



T&T Cleaner is a very powerful and safe cleaning agent for cleaning of trucks, trailers, tractors, and agriculture implements. There isn't a need to use a brush, just use a foam kit to put an even thick layer over the vehicle and allow 3-7 minutes for set time and power wash off.

2509941 **5 Gallon Jug of T&T Cleaner** **NET $ 255.00**



Foam Kit A attaches to the quick attach at the end of your spray wand.

803000 **Foam Kit A** **NET $ 155.00**

Foam Kit B threads a quick attach onto ¼" female NPT at the end of your spray wand.

803001 **Foam Kit B** **NET $ 235.00**



Foam Kit A



T&T Protect coating uses nanoceramic technology to produce a superior finish that protects against corrosion, oxidation, UV rays, and weather. Paint Pro is designed for painted surfaces and Paint Pro XD is designed for plastic surfaces.

323304 **Paint Pro** **NET $ 175.00**

323305 **Paint Pro XD** **NET $ 175.00**

**T&T Protect recommendation:*
Combine: 4- Paint Pro
2- Paint Pro XD

Tractors: 2- Paint Pro
2- Paint Pro XD

Bigfoot D-A Fine is a high performance fine polishing compound to remove moderate defects and produce a glossy finish.

9DAFINE **D-A Fine** **NET $ 40.00**



Foam Kit B

Paint For the Agricultural-Chemical Industry

PART NO.	DESCRIPTION
G1C0 4001	Epoxy Primer, Gray/Green w/ Zinc Chromate
G1C0 9005	Primer, Off-White
TKC0 9012	Tank Pro Urethane (excellent for NH3 tanks)
BEC0 M002	Strontium Chromate Aluminum (excellent for metal roofs)
TNC0 T002	Thinner Zilo

COLOR ENAMELS

KLC0 5016	DMI Blue	SRC0 7023	Black
SRC0 4009	John Deere Green	FEC0 1020	IH Red

COVERAGE DATA

TANK SIZE GALLONS	APPROX. SQ. FT.	G1C04001 GRAY-GREEN PRIMER	G1C09005 OFF-WHITE PRIMER	FEC09004 MEGAFIVE WHITE	TKC09012 MEGATANK WHITE
30,000	2,000	8 gal.	8 gal.	8 gal.	8 gal.
18,000	1,250	6 gal.	6 gal.	6 gal.	6 gal.
12,000	1,160	5 gal.	5 gal.	5 gal.	5 gal.
1,000	225	1 gal.	1 gal.	1 gal.	1 gal.

AGMASTER PAINT

For Concrete Dikes

	DESCRIPTION	PART NO.
PATCH...	Epoxy Repair Kit for Concrete	958KIT
BIND...	Concrete Sealer *(Coverage: 960 sq. ft./ gal)*	951-01

LIME - FERTILIZER - LITTER

BBI
BARRON & BROTHERS INTERNATIONAL
Spreaders That Work As Hard As You Do!

GRASSHOPPER ™



MAGNASPREAD ™



SPREADER OPTIONS

- Ground Wheel Drive
- Hydraulic Driven Spinners
- Self Contained Hydraulic System

CONTROLLER OPTIONS

AG LEADER INCOMMAND® Go



- Variable Rate
- Wireless Data Transfer with AgFiniti

SCS 660



- Automatic Rate Control
- Able to variable Rate with External Computer
- Two Rate Settings

HOPPER OPTIONS

- 304 Stainless
- 409 Stainless
- Carbon Steel

LIBERTY SERIES ™



ENDURANCE SERIES ™



SALFORD BBI MAGNASPREAD



- Advanced Technology for the most sophisticated farmer!
- Spreads lime at up to 2 tons per acre at 14 mph with a 60' swath.
- Spreads fertilizer in 80' plus swaths! • Spread your fields when YOU are ready to spread.
- Shown with optional tires: Alliance Tires • Shown with optional tarp.



HOPPER:	STANDARD	OPTIONAL
16' Hopper (336 cu. ft. struck)		X
45 degree sides	X	
Bolt on Hopper	X	
304 Stainless Steel Hopper and Floor		X
409 Stainless Steel Hopper and Floor		X
Carbon Steel Hopper - 409 Stainless Steel Floor	X	
6" Higher Body (H Type), 10' Higher Body (B Type)		X
Self Contained Hydraulic System w/ Binary Valve and Cooler	X	
Plug to Tractor Hydraulic System		X
Requires 42 GPM @ 2000 PSI & 2 Remotes at 21 GPM ea.		
GR Hydraulic System	X	
Heat Shrink Wrapped Hydraulic Fittings	X	
Over-slung Inverted Center "V" for Lime	X	
BED CHAIN		
20" Stainless Steel Mesh Chain		X
30" Belt-Over-Bar Chain	X	
SPINNER		
24" MagnaSpread System	X	
Overhead Hydraulic Spinner Motors	X	
Stainless Steel Spinners & Fins		X
FRAME & SUSPENSION		
BBI Proprietary 14 Ton Walking Beam Suspension	X	
BBI Proprietary 20 ton Walking Beam Suspentsion		X
Heavy Duty Clevis Hitch & Pintle	X	
21.5 - 14 Ply Tires on 10 Bolt Wheels	X	
560/60/22.5 Trellenborg Tires & Wheels		X
RAVEN CONTROLS		
SCS 660		X
PTO DRIVE LINE OPTIONS		
CV Joint 1,000 RPM PTO Shaft Series #4	X	
CV Joint 1,000 RPM PTO Shaft Series #6		X

FIELD PRO IV FRONT FOLD SPRAYERS



AVAILABLE WITH:

- 1000 Gallon Tank with a 60' or 80' Boom
- 1200, 1600, or 1850 Gallon Tank with a 80', 90' or 100' Boom
- Chemical Inductor
- 50 Gallon Rinse System
- 2.5 Gallon Fresh Water Tank
- Big Wheel Bar Tread (320/85R38 Radial Tires)
- Large Capacity Hydraulic Pump
- Adjusting Axle 88" to 120"
- V-Ride (Variable Ride Boom Suspension)

TRUCK SKID



- 18' Framed 1½" Wood Bed
- Heavy Duty Tube Frame
- LED Lighting
- 8,000 lb Storage Jack Stands
- Adjustable King Pin
- Rear Hitch and Electrical Hook-up to Pull Seed Tender
- Can Accommodate up to 2,600 Gallon Tank
- Multiple Plumbing and Options Available

JOHN BLUE MARKERS

FM-10 ATV Foam Marker

• 1 gallon • 2 x 10' of liquid and air tubing • Liquid tube: ¼" diameter • Refill time 1-4 hours
• 10' of cable to the compressor is supplied • 6' of power cable connects remote switch to power supply



FM-10 LIST ... **$ 904.82**

FM-40 Golf/Turf Foam Markers

• 4 gallon Tank • FM-40 Golf/Turf Marker has 52' of liquid and air tubing (for end of boom discharge) • Air tube: ¼" diameter • Liquid tube: ¼" diameter • Refill time 2-3 hours
• 15' of cable to connect the remote switch to the compressor • 6' of power cable connects remote switch to power supply

FM-40 LIST ... **$ 1456.67**



RHS MKR SERIES PARTS

PART NO.	DESCRIPTION
AA120	Boot Assembly
AA427	Air Pump
AA116	Master Control Box
AA485	Electric Speed Control
ST000	Foam Boot Only
SJ000	Foam Soc Only
AA122	Shurflo Liquid Pump
MKRCHK14	Check Valve (Air)

PART NO.	DESCRIPTION
AA357	Liquid Check Valve (MKR 5000C)
AA358	Liquid Check Valve (MKR 5000D)
AA359	Liquid Check Valve (MKR7000)
3350 0082F	½" Strainer
3351 0020	Bowl
1700 0064	Gasket (Buna)
3800 0047	Screen
CBDPDT	Left Right Switch

LANDMARK FOAM MARKER



LM2500
25 Gallon Poly Tank
Approx. 4.25 to 8.25 hours of marking
Dimensions: 35.75" x 18" Height 20"
Thomas Air Compressor and Shurflo Pump
Max. Amperage draw = 15 amps
Includes 200 ft of tubing, 25 ft harness, switch box and two premium foam mixing chambers

LM1400
14 Gallon Poly Tank
Approx. 2.5 to 4.75 hours of marking
Dimensions: 34" x 16.5" Height 16"
Thomas Air Compressor and Shurflo Pump
Max. Amperage draw = 15 amps
Includes 200 ft of tubing, 25 ft harness, switch box and two premium foam mixing chambers



Designed to prevent foam from forming in spray tank. Antifoam is a fast, effective way to minimize foaming. Add to spray mixture **BEFORE** the pesticide or **BEFORE** any additional surfactant. Preventing foam is more efficient than eliminating foam which has already formed.

AFGL Gallon (4 gallon per case) **LIST $ 80.25**

RATE: 2 ozs. / 100 gallon water



Designed to improve compatibility and stability of spray solutions. Critical when mixing pesticides with liquid fertilizer and/or water. For best results, add Mix-All to solution under moderate agitation. Add prior to introducing pesticides or other ingredients.

RATE: 1 - 4 pts./100 gallon water

MIX-ALL 1 gallon (4 gallon per case) **LIST $ 98.95**



Designed to dissolve deposit buildup and leaves a protective film which prevents corrosion. Be sure to flush with water only after cleaning. When cleaning fertilizer equipment, mix 1 pound per 50 gallon of water, spray all parts and flush with clean water. T & E Cleaner is available only in dry granular. T & E Cleaner **CAN** be shipped by UPS.

RATE: 1 lb./100 gallon water for large sprayers. 1 teaspoon per gal. for small sprayers

CLEANER 1 lb. (12 per case) **LIST $ 19.10**

CLEANER 3 3 lb. (6 per case) **LIST $ 51.25**

AGRO-CHEM SOLUTIONS

PART NO.	DESCRIPTION	LIST
GUNDOWN	GUNDOWN Liquid Defoamer (quart) (1 oz./100 gal.)	$ 36.30
GUNDOWNG	GUNDOWN Liquid Defoamer (gallon) (1 oz./100 gal.)	$ 74.09
431WS	TRUEBLUE Lake & Pond Dye	$ 25.82
434QT	INCIDE-OUT Quart (1qt./100 gal.)	$ 31.11
43401	INCIDE-OUT Gallon (1qt./100 gal.)	$ 53.15
AC16011	Foam Concentrate (0.75-1 oz/gallon water)	$ 70.25



BESTWAY UTV SPRAYER & SPOT SPRAYER



Maintain your property with a high quality sprayer from Bestway. Their Pro Series booms are made of Fiberworks that gives our booms the strength and durability that you demand while also reducing weight on your UTV.

PART NO.	DESCRIPTION
51000	60 Gallon tank, 5.3 GPM 12V pump, power switch box and wiring, black skid, yellow tank
51001	Same as above, with Honda GX120 and 4101XL roller pump in lieu of 12V pump
51121	Control arm for Gas Powered units
51101	Fiberworks boom, 12' folding, 7 nozzles
51102	Fiberworks boom, 18' folding, 11 nozzles
51110	Boom mounting plate
51111	Boom mount for 2" receiver hitch
51120	Hose reel, manual, 50' - ⅜", handgun

AGRO-CHEM SPOT SPRAYER



PART NO.	DESCRIPTION
EC-15	15 Gallon Self Contained Spot Sprayer with Poly Handgun and 40 PSI Pump with 13' Hose
AC SP 3	25 Gallon same as 60 PSI Pump
AC SP 4	25 Gallon same as 100 PSI Pump

ECONOMY SPRAYERS

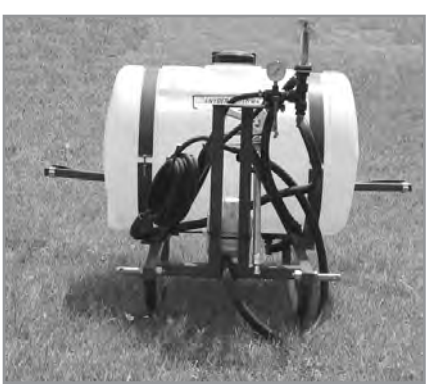


MODEL NO.	DESCRIPTION
25 EET	25 Gal. Trailer w/12V Electric Pump, 22670-PP-15 Handgun/Hose
55 ESK	55 Gal. Skid Mount w/12V Electric Pump, 22670-PP-15 Handgun/Hose
55 E3P	55 Gal. 3-Point PTO, 6500 Roller Pump, 22670-PP-15 Handgun/Hose



BOOM OPTIONS:

MODEL NO.	DESCRIPTION
PSE3	5' Folding Boom- 3 nozzle x 20" spacing includes nozzles, caps and screens
PSE5	12' Folding Boom- 7 nozzles x 20" spacing includes nozzles, caps and screens
PSF1	12 Volt Switch Kit



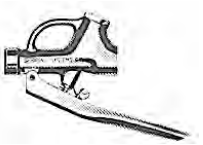


RW 0212 RED WEEDER

SPRAY GUNS

4688 **6466** **6104** **31**





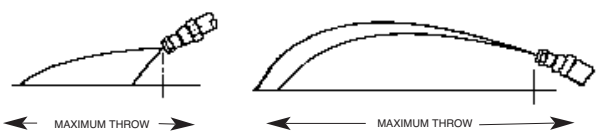

PART NO.	DESCRIPTION	LIST
4688	Brass	$ 76.77
6466	Brass w/Non-locking Trigger	$ 82.76
6104	Brass	$ 76.07



GUNJET

SETTING "A"
WIDE ANGLE CONE SPRAY

SETTING "C"
STRAIGHT STREAM SPRAY



PART NO.	DESCRIPTION	LIST
2A 45	Brass w/AYHSS Orifice	$ 235.65
2AL 45	Aluminum w/HYHSS Orifice	$ 198.09
2AAL 45	Aluminum w/AYHSS Orifice	$ 181.38
AYHSS 45	Orifice Insert for #2 Guns	$ 12.98
D	Orifice Disc for #12 and #18 Tip 143	$ 2.45
143AL3/46	Aluminum w/Disc Tip	$ 147.55

D 6	Capacity -- GPM	1.9	2.0	5.3	5.8
	Spray Angle	41"	--	30"	--
	Max. Throw in Feet	10	45	11	50
D 8	Capacity -- GPM	3.1	3.4	8.8	9.6
	Spray Angle	50"	--	36"	--
	Max. Throw in Feet	10	46	11	51
D 10	Capacity -- GPM	4.1	5.0	10.2	14.1
	Spray Angle	55"	--	40"	--
	Max. Throw in Feet	10.5	49	12	54



30L-22425

PART NO.	DESCRIPTION	LIST
30L 1/4	Spray Gun	$ 102.34
30L 22425 8	With 8" Extension	$ 161.33
30L 22425 18	With 18" Extension	$ 171.90
30L 22425 24	With 24" Extension	$ 182.21
30L 22425 36	With 36" Extension	$ 209.30
30L 22425 48	With 48" Extension	$ 235.65

Heavy duty type trigger control

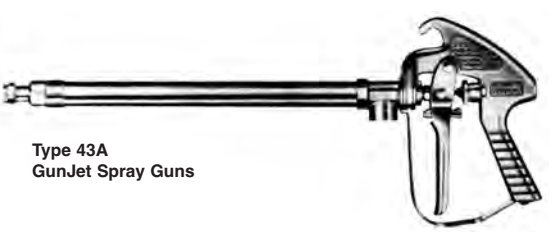
No. 43L for operating pressures up to 200PSI.

No. 43H for operating pressures from 200 to 800 PSI...



43LAL6 $ 228.84

PART NO.	DESCRIPTION	LIST
43LAL 6	Aluminum to 200 PSI	$ 228.84
43HAL 6	Aluminum to 800 PSI	$ 228.84
43LAAL 6	Aluminum to 200 PSI - short barrel	$ 219.20
43HAAL 6	Aluminum to 800 PSI - short barrel	$ 219.20
PKAB43ALKIT	Repair Kit	$ 68.15



Type 43A
GunJet Spray Guns

No. 30 and No. 30W
Pressures to 1,500 PSI.
Flow Rates up to 5 GPM

No. 60 and No. 60W
Pressures to 2,500 PSI.
Flow Rates up to 6 GPM



Durable, dependable, comfortable spray guns for high pressure washing and cleaning applications. Body and trigger molded of tough nylon material designed to withstand high impact and rough usage. Handle remains comfortable while spraying hot liquids up to 300°F (200°F for 30 GunJet). Stainless steel shut-off needle.
⅜" NPT (F) liquid inlet (¼" NPT (F) inlet for 30 GunJet). Use with interchange.

PART NO.	DESCRIPTION	LIST
30L 1/4	With Cap, less tip / 0-250 PSI	$ 102.34
30 1/4	With Cap, less tip / 250-1500 PSI	$ 102.34
23L7676 18	Gun 18" Extension	$ 176.51

SPRAY GUNS

GunJet® TriggerJet™

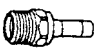


22650PP-1/4

GUN ONLY LIST ... **$ 45.22**



25657



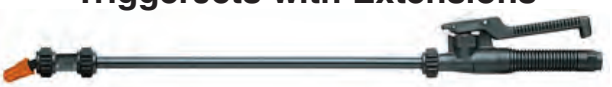
25990-3/4

25660

Model No.	Nozzle Tip	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

PART NO.	DESCRIPTION	LIST
25660-*	TeeJet Lawn Spray Gun w/Nozzle	$159.77
25660 0	TeeJet Lawn Spray Gun Less Nozzle	$139.94
25670-*-NY	Nozzle for TeeJet Lawn Spray Gun	$ 22.56
25990 3/4 NYB	Hose Shank Swivel	$ 20.71
25657NYB	Lawn Gun Adapter	$ 35.32

TriggerJets with Extensions



PART NO.	DESCRIPTION	LIST
22670 PP 15 1/4	15"	$ 71.26
22670 PP 24 1/4	24"	$ 82.14

TriggerJet Extensions

PART NO.	DESCRIPTION	LIST
22665 15 PP	15"	$ 18.23
22665 24 PP	24"	$ 30.34

TRIGGER JET EXTENSIONS
Less tip, strainer and cap

PART NO.	DESCRIPTION	LIST
7715 8	8" Extension	$ 19.32
7715 18	18" Extension	$ 24.34
7715 24	24" Extension	$ 26.89
7715 30	30" Extension	$ 31.49
7715 36	36" Extension	$ 33.26
7715 48	48" Extension	$ 40.27

CURVED EXTENSIONS WITH FIXED NOZZLE BODIES

PART NO.	DESCRIPTION	LIST
6671 18	18" Extension	$ 27.51
6671 30	30" Extension	$ 27.03

5500-PPB: X3, X5, X6, X8, X12, X18

The 5500 Adjustable ConeJet tip is also available in a polypropylene version.The polypropylene tip provides the same performance characteristics as the brass tip while having excellent corrosion resistance. The new tips lightweight makes it well suited for use on hand and backpack type sprayers.

LIST ... $ 14.39



5500: X3, X18

Knurled body of tip rotates through a half turn to provide spray selection from wide angle, finely atomized cone spray to a straight stream spray. Tip settings"A" and "B" represent two extreme points of rotation in tip adjustment. Other sizes available.

LIST ... $ 31.49



Adjustable Conejet Tips

38720-PPB: X8, X12, X18

LIST ... $ 10.63



GARDEN HOSE SPRAY NOZZLE

GHN075

¾" GARDEN HOSE SPRAY NOZZLE

LIST ... $ 62.05i



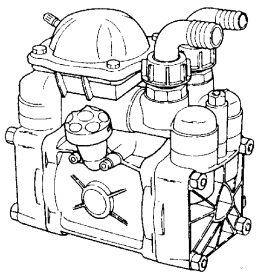
FEATURES:

- Heavy-duty machined aluminum construction stands up to hard use.
- Comfort-grip soft rubber provides a comfortable gripping texture.
- Resists dents, mars and scratches and also protects any surface that comes in contact with nozzle.
- Aluminum hose connection provides a tight fit, will not rust.
- Multiple spray pattern adjusts from a powerful jet stream to a gentle fan spray, ideal for all your spraying needs.
- Stainless steel spray cap for precise spray patterns.

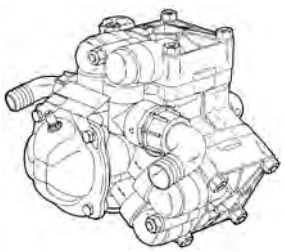
DIAPHRAGM PUMPS

Low Pressure Diaphragm Pumps

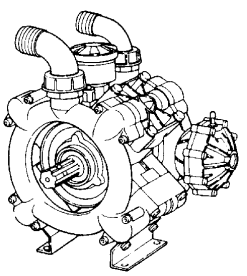
Model Number	Max. GPM	Max. PSI	Max. RPM	Description	List Price
9910-D70	19	290	600	**2 - Diaphragm Pump** - 1" HB Inlet, ¾" HB Outlet. Select shaft kit for desired drive.	$ 1368.00
9910-D115	30.1	290	600	**3 - Diaphragm Pump** - 1¼" HB Inlet, 1" HB Outlet. Select shaft kit for desired drive.	$ 2480.00
9910-D135	34.8	290	600	**3 - Diaphragm Pump** - 1¼" HB Inlet, 1" HB Outlet. 1⅜": - 6B Spline Shaft	$ 2352.49
9910-D160	42.5	290	600	**4 - Diaphragm Pump** - 2" HB Inlet, 1½" HB Outlet, 1⅜" - 6B Male Spline Thru Shaft.	$ 3866.84



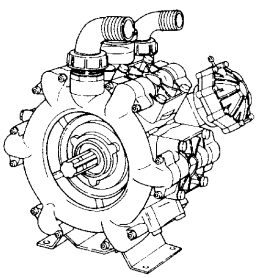
9910-D70



9910-D115



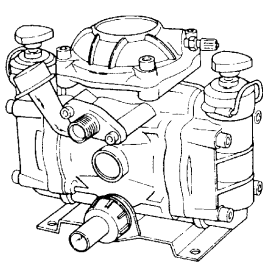
9910-D160



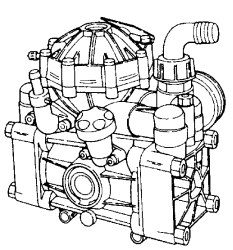
9910-D250

Medium Pressure Diaphragm Pumps

Model Number	Max. GPM	Max. PSI	Max. RPM	Description	List Price
9910-D252	6.0	290	650	**2 - Diaphragm Pump** - ¾" HB Inlet, ½" NPT Outlet. D252 - ¾" solid keyed shaft	$ 900.00
9910-D252-GRGI	6.0	290	3600	**2 - Diaphragm (Semi-Hydraulic) Pump -** ¾" HB Inlet, ⅝" HB Outlet. D252 - ¾" hollow shaft, gear reduced for 3 HP gas engine	$ 1340.00
9910-D30 9910-D30AP-A	9.5	550	600	**2- Diaphragm Pump** - 1" HB Inlet, ½" HB Outlet. D30AP-A - ¾" solid extended shaft. Select shaft kit or gear reduction.	$ 1020.00 $ 1397.26
9910-D30GRGI	9.5	550	600	**2 - Diaphragm Pump** - With GS40GI Control Unit & Gear Reduction - fits 5 HP Gas Engine	$ 2030.00
9910-D50 9910-D50AP-A	14.0	550	600	**2 - Diaphragm Pump** - 1¼" HB Inlet, ½" HB Outlet. D50AP-A - 1" solid extended shaft. Select shaft kit or gear reduction.	$ 1782.00 $ 2960.00
9910-D503	14.0	550	600	**3 - Diaphragm Pump** - 1¼" HB Inlet, ¾" NPT Outlet. Select shaft kit or gearbox.	$ 1855.35



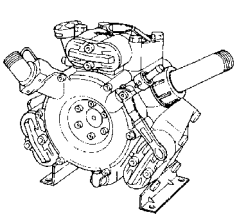
9910-D252



9910-D30



9910-D50



9910-D503

Breakdown for Hypro Diaphragm Pumps on Pages 170-175

DIAPHRAGM REPAIR KITS

9910-D19

KIT NO.	DESCRIPTION	LIST
9910 KIT 1723	Diaphragm Kit	$ 62.25
9910 KIT 1913	"O" Ring Kit	$ 66.95
9910 800085	Desmo Diaphragm	$ 34.94
9910 KIT 1914	Valve Parts Kit	$ 146.34

9910-D252

KIT NO.	DESCRIPTION	LIST
9910KIT1723	Diaphragm Kit	$ 66.25
9910KIT2408	Valve Parts Kit	$ 95.42
9910KIT2409	"O" Ring Kit	$ 21.85

9910-D30

KIT NO.	DESCRIPTION	LIST
9910 KIT 1724	Diaphragm Kit	$ 81.25
9910 KIT 1916	"O" Ring Kit	$ 17.00
9910 KIT 1917	Valve Parts Kit	$ 185.37

9910-D50

KIT NO.	DESCRIPTION	LIST
9910 KIT 1919	"O" Ring Kit	$ 31.62
9910 KIT 1725	Diaphragm Kit	$ 93.15

9910-GS40GI

KIT NO.	DESCRIPTION	LIST
9910 KIT 1757	Pressure Relief	$ 93.65

SPRAYING SYSTEMS

GunJet® SPRAY GUN



PW 4000A

4000 PSI 10 GPM

GUNJET SPRAY GUN

⅜" X ¼"

LIST ... **$ 102.73**

KIT NO.	DESCRIPTION	LIST
AB PW4000A KIT	Repair Kit	**$ 31.99**

Green Garde®

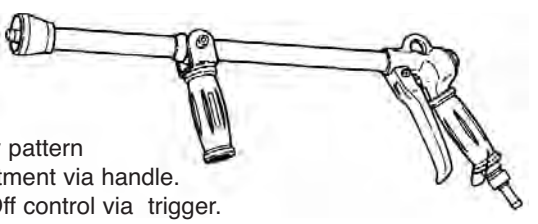


JD9-C SPRAY GUNS

JD9-C Heavy Duty spray gun with 38602 tip

NET ... **$ 205.00**

HYPRO SPRAY GUN



Spray pattern adjustment via handle.
On/ Off control via trigger.

Spray pattern can be varied from solid stream to wide angle.

850 PSI ½" INLET

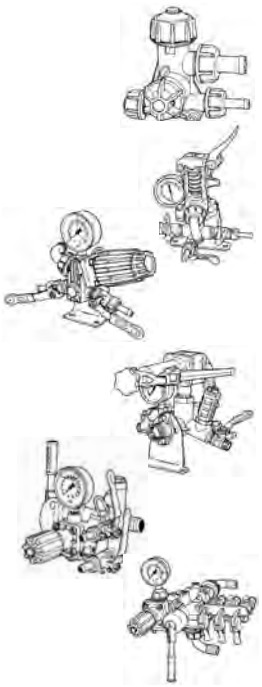
PART NO.	DESCRIPTION	LIST
3381 0010	17" Barrel 25 GPM	$ 431.49
3381 0011	21" Barrel 30 GPM	$ 589.29

PART NO.	DESCRIPTION	LIST
9920KIT10/11	Repair Kit	$ 34.45

TUNGSTEN CARBIDE NOZZLES

PART NO.	ORIFICE DIAMETER	LIST
3385 2300	2.3 mm	$ 40.90
3385 3000	3.0 mm	$ 40.90
3385 3500	3.5 mm	$ 49.00
3385 4000	4.0 mm	$ 49.00
3385 4500	4.5 mm	$ 49.00
3385 5000	5.0 mm	$ 49.00
3385 5500	5.5 mm	$ 49.00
3385 6000	6.0 mm	$ 49.00

DIAPHRAGM CONTROLS / KIT



Model Number	Max. GPM	Max. PSI	Description	List Price
9910-KIT1990	6	290	Control Unit for mounting on 9910-D252 Model Pumps Includes Relief Valve and Pressure/Bypass Selector. ⅝" HB Bypass port and ⅜" HB outlet.	$ 193.22
9910-GS40GI	15	550	Control Unit for mounting on 9910-D30 & 9910-D50 Model Pumps. Includes High Pressure Relief Valve and Two ½" HB Outlets with individual shut-offs.	$ 305.00
9910-KIT1741			Remote Mounting Kit for 9910-GS40GI Control Unit	$ 82.66
9910-RM40	24	550	Remote Control Unit for 9910-D503 Model Pumps. Includes High Pressure Relief Valve and Two ½" HB Outlets with individual shut-offs.	$ 467.28
9910-KIT1742			Remote Mounting Kit for 9910-GS50GI Control Unit	$ 151.90
3300-0087	40	275	Remote Control Unit for Models 9910-D60, -D100, -D120 & -D150 Pumps. Includes built-in relief valve and three ¾", ½", & ⅜" HB outlets with individual shut-offs.	$ 856.47

Gear Reduction Kits



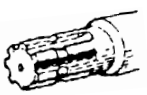
Model No.	Description	List
9910-KIT1640	For Models 9910-D30, D303, D403 Pumps 6:1 Gear Box for standard 5 HP Gas Engine w/ ¾" Shaft	$ 775.00
9910-KIT1642	For Models 9910-D50, D503, D813, D1064, D1265 Pumps 6:1 Gear Box for standard 8-18 HP Gas Engine w/1" Shaft	$ 877.00

1⅜-6B Female PTO Shaft Kits



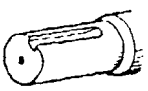
Model No.	Description	List
9910-KIT1704	For Model 9910-D50	$ 324.91
9910-KIT1708	For Model 9910-D70 and Model 9910-D115 Pumps	$ 300.00

1⅜-6B Male PTO Shaft Kits



Model No.	Description	List
9910-KIT1702	For Model 9910-D30 Pumps	$ 208.00
9910-KIT1706	For Model 9910-D50	$ 277.85
9910-KIT1710	For Model 9910-D70 and Model 9910-D115 Pumps	$ 392.66

1" Solid Shaft Kits



Model No.	Description	List
9910-KIT1703	For Model 9910-D30 Pumps	$ 223.89
9910-KIT1707	For Model 9910-D50	$ 155.00
9910-KIT1711	For Model 9910-D70 and Model 9910-D115 Pumps	$ 305.00

Cone Bottom Nurse Trailer



- 1,300 or 1,700 gallon tank
- Heavy duty design with adjustable height clevis
- Transport lights
- Step up platform & hose holder
- 1,300 gallon comes with fenders and 235/80R16 tires
- 1,700 gallon comes with highway tires
- Can be plumbed with either 2" or 3" pump

Double Cone Nurse Trailer

- Two 2,500 or 3,000 gallon tanks
- Heavy duty 6" design with adjustable height clevis
- Transport height lock, lights, and hose holder
- 11L flotation tires

**Needs to be transported empty & lowered to ground prior to filling*





Low Boy NH_3 Wagon



- Two 1,000 or 1,450 gallon NH_3 tanks
- 60" front track width with a 90-120" adjustable rear axle
- Adjustable tank leg mounts to accomodate different tank sizes
- Complete turn-under 5th wheel steering with used super single tires for ultimate maneuverability
- Dual spring lift assist tongue
- 2 wheel hydraulic surge brakes

Single Tank NH_3 Wagon

- 1,000 or 1,450 gallon NH_3 tank
- Fixed track, 60"
- Bolt on step
- 20" clearance



Breakdown for NH_3 Wagons on Pages 161-162

DUO LIFT

Ultimate Hot Load Nurse Trailer



Standard Features:

- Trailer: Duo Lift TD1700 Tandem
- Tank: 1,600 Gallon SS Cone Bottom 304L
- Anti-Vortex Fitting
- 2" Agitation
- 10" Tank Lid
- Gallonage Indictator
- Suspension: 8-Leaf Spring
- GVWR: 23,000 lbs
- Brakes: Hydraulic Surge (1 axle)
- Tires: 11 x 22.5 Semi
- Hitch: Clevis with Safety Chains
- Dimensions:
  - Height: 111"
  - Width: 97"
  - Length: 211"

Available Options

- Frame Extension: 5' with Treated Wood
- Pump Option: 2" or 3" with Honda Engine
- Inductor: 17-Gallon Cone Tank with Stand
- Rinse Kit: Spinner Tank Nozzle





Semi Nurse Trailer



- Capacity- 68,000 Lbs. GVWR at 55 mph
- Overall Length- 42'
- Axles- 2: Meritor 25,000 Lbs Axles
- Upper Frame Dimension- Length: 12'
- Lower Frame Dimension- Length: 30'
- Suspension- Hutchens H9700 Springs
- Tires- 255/70R 22.5 Duals



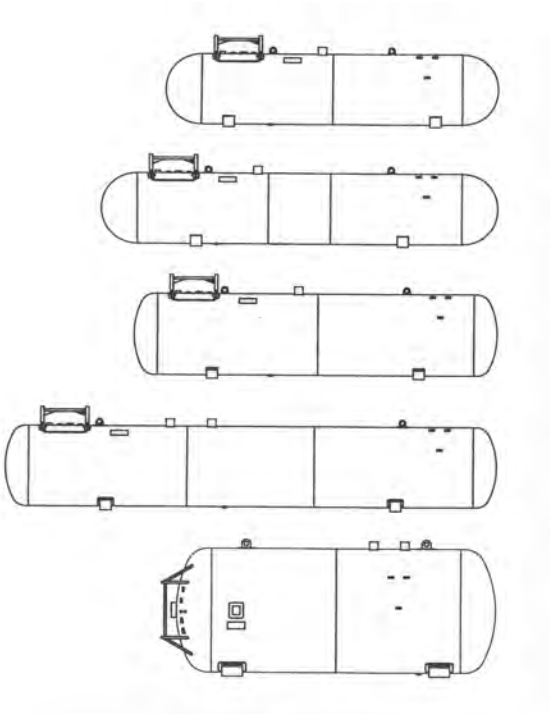
** Tote Racks Available**

** Tanks sold separate**





NH_3 TANKS



NH_3 NURSE TANK SPECIFICATIONS

Capacity	Diameter	Head Type	Overall Length	Overall Height	Leg Bolt Spacing Length	Leg Bolt Spacing Width	Weight
1000 Gal.	40.96"	Hemi	16' 1-5/16"	4' 4-7/8"	10 '0" o.c.	21" o.c.	1833 lbs
1200 Gal.	40.96"	Hemi	19' 2-1/4"	4' 4-7/8"	10' 0" o.c.	21" o.c.	2162 lbs.
1465 Gal.	46.77"	Ellip	17' 6-7/8"	4' 11-3/4"	10' 0" o.c. 12' 1" o.c.	21" o.c. 21" o.c.	2745 lbs.
2000 Gal.	60.00"	Ellip	16'	5' 9-1/2"	10' 0" o.c.	21" o.c.	3603 lbs
3000 Gal.	72.00"	Ellip	16' 1-7/8"	6' 7-15/16"	10' 0" o.c.	30-1/4" o.c.	7450 lbs

- Powder Coated Finished
- Grab Bars for Better Stability When Filling Tanks
- Mounting Brackets for Side or Top Mounted Water Tanks - Permanently Attached to Tanks

___ **- 0401** ... Tanks with 1¼" x 1" Withdrawal Valve (45 gpm) and Stainless Steel Float Gauge ... Call for Pricing

___ **- 0201** ... Tanks with 1½" x 1¼" Withdrawal Valve (60 gpm) and Stainless Steel Float Gauge ... Call for Pricing

J & M APPLICATORS

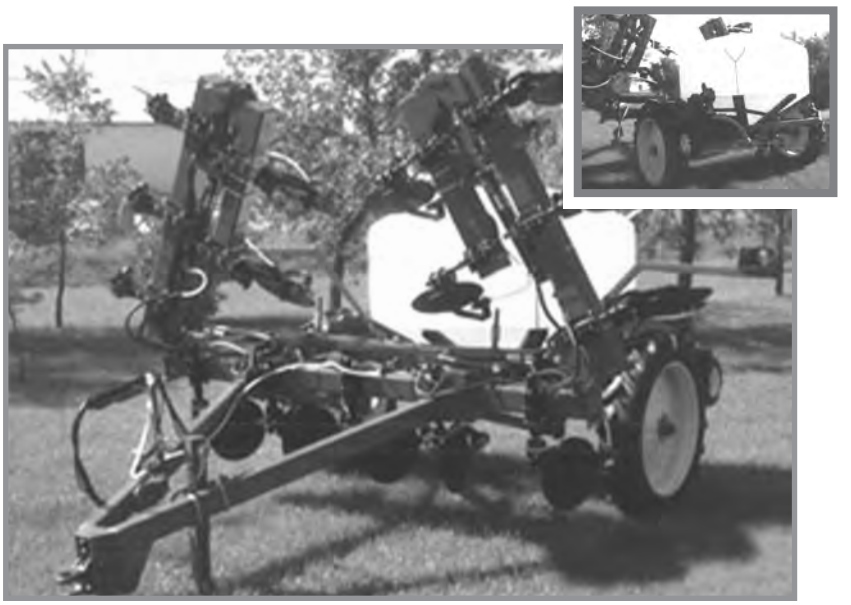


- Tank Capacity- 2,600 Gallons
- Transport Width- 11' 9"
- Transport Height- 12' 10"
- Hitch to Axle- 14'
- Toolbar Ground Clearance- 40"
- Toolbar Frame- Dual 5" x 7"
- Working Width- 23 or 25 30" Rows
- Hydraulic Down Pressure- Standard
- Hydraulic Pump- Ace 750-M22
- Tongue Weight Empty- 4,563 Lbs
- Tongue Weight Loaded- 6,226 Lbs
- Empty Weight- 19,000 Lbs
- Tire Size- 380/90R46

- NitroGro 6000 Applicators feature a short coupled tongue design for better trailing and less crop damage while turning.
- NitroGro 6000 Applicators offer the industry's highest toolbar clearance, allowing you to extend your application window and eases worry of getting into the field late.
- Parallel linkage toolbar design keeps the coulters and knives in correct position to the ground at all times.
- Wing sections allow 15˚ upward and 10˚ downward movement for consistent application over uneven terrain.



6300 SERIES LIQUID APPLICATOR



AVAILABLE WITH:

- 34" Ground Clearance
- Adjustable Wheel Track 120" to 144"
- 320/85 R38 Tires Mounted on 38 x w10 8 Bolt Rim
- 7" x 7" x ½" Single Bar
- 35' Toolbar Available
- 12' x 6" Wide Center Section
- 1000 Gallon Cone Tank with 30° Slope
- Single or Dual Piston Pump
- Hydraulic Pump, Electric Shutoff Valve, Raven SCS-450 System

6400 SERIES LIQUID APPLICATOR



AVAILABLE WITH:

- 34" Ground Clearance
- Adjustable Tread 120" to 144"
- 380/90 R46 Radial Tires
- 7" x 7" X ½" Single Bar
- 1300 Gallon Elliptical Tank
- Optional: 1700 Gallon Elliptical Tank
- Toolbar lengths up to 36' (15 x 30's)
- Hydraulic Pump, Electric Shutoff Valve, Raven SCS-450 System

AG SYSTEMS

AG SYSTEMS ADJUSTABLE WHEEL TRACK SPREADERS



AG600 6 TON SPREADER

182 cu. ft. capacity, unitized one-piece constructed body, 10" conveyor and trough, roller chains,
metering gate, rear splash panel and cross members are all 304SS, heavy duty tubular frame capped on all ends, 16000# GVW leaf spring suspension, adjustable pole hitch, 4 x 4 HD pole jack, tandem axle, safety chains, and 8 on 8 hubs.



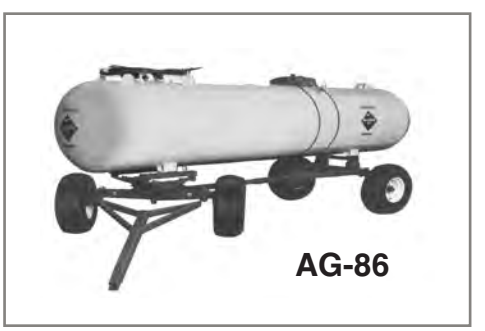
AG800HC

- 6 or 8 Ton 304SS Hopper
- 52" Spinner Clearance
- 40" Axle Clearance
- 80 - 120" Wheel Track
- Tires: 320/85 R 42 on 6 Ton
  380/90 R 46 on 8 Ton
- Fully Hydraulic or Press Wheel Drive
- 50 - 60' Spread Pattern
- Shown with Optional Ladder and Window

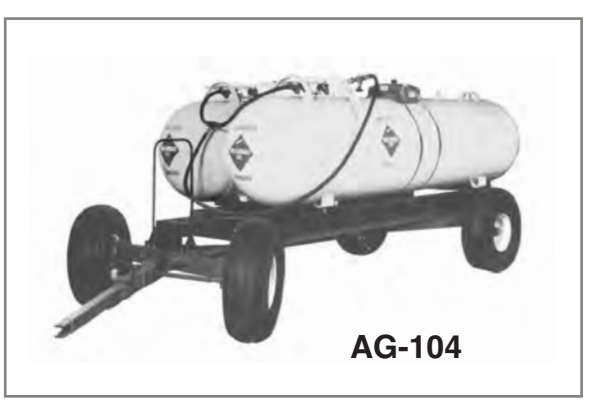
AG SYSTEMS WAGONS



AG-62 is a fixed fifth wheel wagon with a 60" wheel track and 21" rear axle clearance. The wagon is made especially for a 1000 gallon tank with a longer hitch pole for tank clearance.



AG-86 is a 19" clearance, adjustable 60" to 80" ammonia wagon which accommodates a 1450 gallon tank.



AG-104 is an extra heavy duty auto steer wagon with 82" wheel track, which makes it the shortest turning wagon in the industry. This wagon is set up for twin 1000 tallon ammonia tanks.



AG-204 is a fixed fifth wheel wagon with a 86" wheel track for a 2000 gallon tank. This wagon includes dual leaf springs.

SUREPOINT AG

SurePoint Ag Systems

QuickDraw SPRAY TENDER SYSTEM

The QuickDraw is a close system spray chemical tender. While eliminating chemical exposure the QuickDraw also utilizes a Micro-Motion mass flowmeter that measures the product density, mass, and volume. This results in extremely high accuracy without having to ever calibrate the flowmeter. The QuickDraw comes in two different versions and can be mounted to a tender trailer or stationary in a shop or barn.



QuickDraw MAX

Fully automated sprayer tender system. Start by creating a chemical recipe on an iPad and transfer and store to QuickDraw MAX via Wi-Fi. Enter the application rate per acre and size of the batch being created. QuickDraw MAX automatically calculates the total amount needed for each chemical and carrier and will turn off valves and pump when amount is achieved. QuickDraw MAX comes in models with up to 9 product valves and can handle up to 4 different carriers. Cabinet measures 49" x 31" and is 43.5" tall

QuickDraw LITE

Manual or Semi-Automated spray tender system. In the manual operation the user opens a product valve while watching the display until the desired amount is reached and then manually closes the valve. In semi-automated operation, the user enters in the amount of chemical needed for a batch and the QuickDraw LITE will shut the valve off when the set point is reached. The user then repeats this for the other products. The QuickDraw LITE comes in 6 manual valves, 3 automatic/ 3 manual valve combo, or 6 automatic valves models. Base measures 51" x 18.5" and overall 39" tall.



Call for more information and pricing!!

THE HANDLER & CHEMBINE

THE HANDLER I-i15

85H1FSI15M
15 Gallon Tank, 2" Plumbing

LIST ... **$ 2154.60**



THE HANDLER II

85H2FS200VM
42 Gallon Tank, 2" Plumbing
Engine NOT Included

LIST ... **$ 3680.00**



THE HANDLER III

85H3FS200VM
70 Gallon Tank, 2" Plumbing
Engine NOT Included

LIST ... **$ 4150.00**

85H3FS300VM
70 Gallon Tank, 3" Plumbing
Engine Not Included

LIST ... **$ 5310.00**



CHEMBINE
FREE FORM PLASTICS - A DIVISION OF BOURGAULT INDUSTRIES - MADE IN CANADA

2600242
75 Gallon Tank, 3" Plumbing
Engine NOT Included

LIST ... **$ 5120.00**



CHEMICAL INDUCTOR / SUMP PUMPS



IND 35

CHEMICAL INDUCTOR KITS

Kit Includes:

- Cone Bottom Tank
- Painted Stand
- 1 1/2" or 2" Valve

PART NO.	GALLONS	LIST
IND 17	17	$ 595.00
IND 35	35	$ 676.00
IND 65	65	$ 725.00
IND 110	110	$ 895.00

CONE BOTTOM TANKS

PART NO.	GALLONS	SIZE
42321	5	11" SQ. X 18" HT
18537	17	18½" X 23½"
15837	35	31" X 29½"
15637	65	31" X 37"
60737	110	31" X 52"
48400	STAND FOR 17 GAL	
48600	STAND FOR 35, 65, 110 GAL	



ROTO60

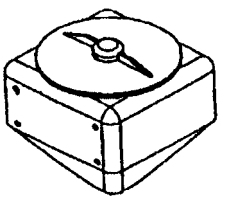
CONE BOTTOM TANK W/ 20" LID

Includes:

- Painted Stand
- Bottom Drain and Side Tank Fitting

Tank supports the use of the Chem-Blade®

PART NO.	GALLONS	DIA.	LIST
ROTO30	30	27"	$ 690.00
ROTO60	60	30"	$ 780.00
40354	110	30"	$ 780.00



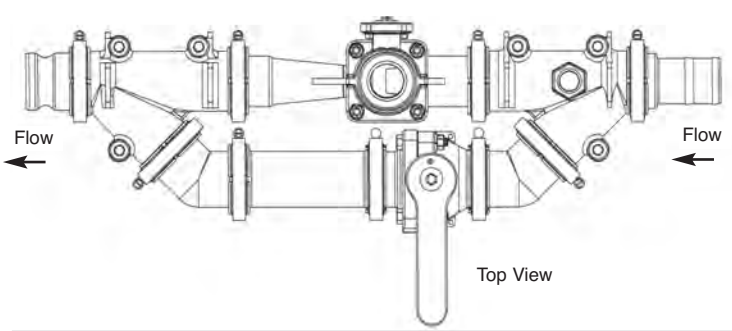
5 GALLON EDUCTOR



CHEM-BLADE® ORIGINAL

- Opens, empties, & rinses containers with speed and efficiency
- Built with high grade stainless steel
- Fits on any tank with a 16" lid & at least 30 gallon capacity

MANIFOLD INDUCTOR SYSTEM



Draws Wettable Powders from Inductor Tank for thorough Chemical Mixing

- Installed after pump, suction completely empties inductor tank • Keeps tank free of chemicals

PART NO.	DESCRIPTION	LIST
MIS220AAK	Hose Barb x Male Adapter 2" Full Port - Assembled	$ 951.18
MIS300AA	Male Adapter x Male Adapter 3" Full Port - Assembled	$1636.20



STAINLESS STEEL SUMP PUMPS

PART NO.	DESCRIPTION	
EPD3MS1	Stainless Steel Sump Pump, 1¼" x 1¼", ⅓ HP, Manual Shutoff	$ 855.00
EPD3AS1	Stainless Steel Sump Pump, 1¼" x 1¼", ⅓ HP, Automatic Shutoff	$ 961.00
EPD5MS1	Stainless Steel Sump Pump, 1½" x 1½", ½ HP, Manual Shutoff	$ 1605.00
EPD5AS1	Stainless Steel Sump Pump, 1½" x 1½", ½ HP, Automatic Shutoff	$ 1785.00

STAINLESS STEEL CONE BOTTOM TANKS



- 304 Non Polished Stainless Steel
- Backwelded
- 2" Pipeline
- Eductor Installed for Agitation
- 5 Year Warranty



PART NUMBER	SIZE	DIAMETER	OVERALL HEIGHT	NUMBER OF LEGS
CC0612PT10	2,430 GAL	72"	172"	3
CC814PT10	5,100 GAL	96"	198"	3
CC1114PT10	10,100 GAL	132"	205"	6

Novid®

STAINLESS STEEL TANKS



- 30,000 Gal. (12' x 35')
- 46,700 Gal. (14' x 40')

WARRANTY: 2 year: Workmanship
10 year: Leakage

BEST IN THE INDUSTRY

Check out our dike system on page 33

Standard:
- Butt welded joints
- 24" Manway, re-enforced
- Sight gauge, ¾", SS ball valve
- 3" Top vent
- Tanks manufactured with Non Polished 304 SS

Also Available:
- Polished 304 or 316 SS
- Smaller sizes and cone bottom tanks
- Threaded or flange fittings (3 - 4")
- Air System for Agitation
- DMI 14610100- ¾"x12" SS Lag Bolts

Stainless Steel Mix Tanks



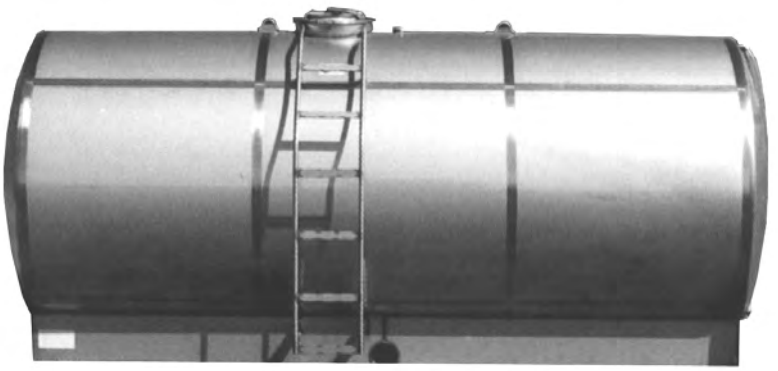
PART NUMBER	SIZE	DIAMETER	OVERALL HEIGHT
SSMIX60	60 GALLON	36"	33"
SSMIX80	80 GALLON	36"	38"
SSMIX120	120 GALLON	42"	38"
SSMIX150	150 GALLON	42"	44"
SSMIX250	250 GALLON	48"	52"

Standard:
- 2" Outlet
- (1) 1 ½" Coupling on the side
- (1) 2" Coupling on the side
- Rinse ring
- Anti-Vortex fitting
- NO lid

Also Available:
- Full lid, half hinged
- Add custom 1" couplings
- Greenleaf Jug Rinse

Novid®

STAINLESS STEEL NURSE TANKS



PART NO.	GALLON CAPACITY	HEAD DIAMETER	SHELL LENGTH	BAFFLE QUANTITY	O.A.L.	O.A.H.
8660-1600	1550	60"	120"	1- 12 GA.	137"	70"
8660-2450	2450	66"	156"	2- 12 GA.	176"	76"
8660-2800	2800	66"	180"	2- 12 GA.	201"	76"
8660-3150	3150	72"	168"	2- 12 GA.	190"	82"
8660-3300	3300	72"	180"	2- 12 GA.	203"	82"
8660-4200	4200	72"	228"	3- 12 GA.	250"	82"
8660-5200	5200	72"	288"	3- 12 GA.	310"	82"

Call for pricing and availability on tanks!!!
Ask about sparger tubes and other options..

POLY ELLIPTICAL DRAINABLE TANKS WITH SKID

SIZE	DIA.	HT.	LGTH.	COLOR	PART NO.	HOOP NO.	SKID NO.
1,610 GAL	69	63	140	BLUE, BLACK	40808	62434	90352
2,610 GAL	90	79	140	BLUE, BLACK	41383	63044/63045	90350
3,210 GAL	92	75	178	BLUE, BLACK	40824	62347/62348	90333

5 YEAR WARRANTY



Call for Pricing and Availability

KBK TANKS/ SECONDARY CONTAINMENT

VERTICAL FIBERGLASS TANKS

GALLON CAPACITY	DIMENSIONS
10,100	12' X 12'
11,000	12' X 13'
11,800	12' X 14'
12,600	12' X 15'
13,500	12' X 16'
15,000	12' X 17' 9"
16,900	12' X 20'
19,000	12' X 22' 6"
20,300	12' X 24'
25,380	12' X 30'
29,610	12' X 35'

Tanks include: Top Inspection Plate, 2 - 3" Outlets, Sight Gauge, Vent, Lift Brackets, Tie Down Brackets, Side Manway

OPTIONS:

- Gel Coating: Blocks UV Rays, Extends Life of Tank
- Dished Bottom: Easy Clean Out
- Other Outlet Sizes Available: 1"- 8"
- Add-on Electric Gallon Indicator

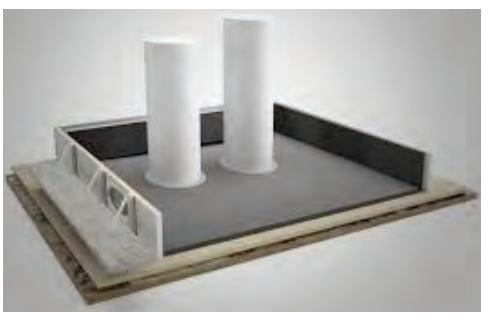


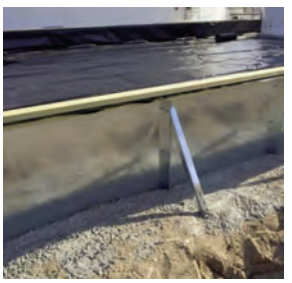
Call for Pricing!!

SECONDARY CONTAINMENT SYSTEMS

PLIA-LINER

- Custom fit liners for existing fertilizer and chemical dikes
- Excellent alternative to repairing or replacing cracked concrete dikes
- Geo Tech is a tank pad, meant to go between storage tank and concrete





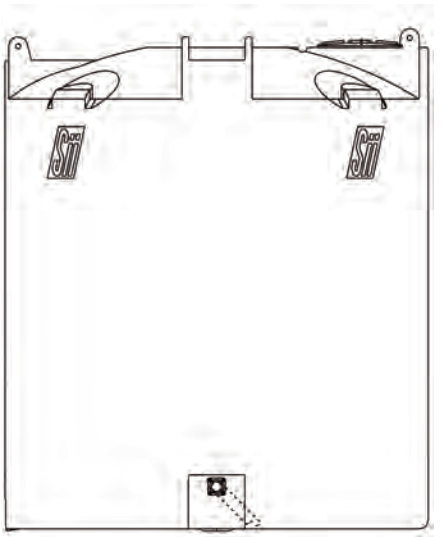
PLIA-DIKE

- Unaffected by freeze and thaw cycles
- Economic alternative to dikes with concrete containment

SNYDER TANKS

VERTICAL TANKS

SIZE	DIA.	HT.	COLOR	PART NO.	LIST
65 GAL	23	44	NATURAL	15537	$ 300.00
550 GAL	45	75	NATURAL	18037	$ 1145.00
550 GAL W/ 18" LID	64	47	NATURAL	18237	$ 1184.00
850 GAL	48	114	NATURAL	18137	$ 2140.00
1,100 GAL	64	87	NATURAL	18337	$ 2116.00
1,100 GAL	86	53	NATURAL, GREEN, BLACK	17137	$ 1785.00
1,500 GAL	86	70	NATURAL, GREEN, BLACK	17737	$ 2095.00
1,550 GAL	64	121	NATURAL	18437	$ 3025.00
1,650 GAL	86	77	NATURAL, GREEN	17837	$ 2338.00
2,000 GAL	90	88	NATURAL, GREEN, BLACK	505038	$ 3020.00
2,500 GAL	90	106	NATURAL, GREEN, BLACK	509038	$ 3446.00
3,000 GAL	90	126	NATURAL, GREEN, BLACK	513038	$ 4181.00
6,000 GAL	102	187	NATURAL	743038	$ 12,150.00
6,000 GAL	120	131	NATURAL, GREEN	700038	$ 11,018.00
6,900 GAL	120	155	NATURAL	714037	$ 11,040.00
10,500 GAL	142	168	NATURAL	533037	$ 18,830.00
15,000 GAL	165	184	YELLOW	44942	CALL
20,000 GAL	165	242	YELLOW	44926	CALL



CONE BOTTOM TANKS

15° SLOPE TANKS

SIZE	DIA.	HT.	COLOR	PART NO.	LIST
5,000 GAL	102	166	NATURAL	8050203	$ 8810.00

STANDS FOR 15° CONE BOTTOM TANKS

FOR 102" DIA.	62473	$ 5936.00

30° SLOPE TANKS

SIZE	DIA.	HT.	COLOR	PART NO.	LIST
1,775 GAL	86	93	NATURAL	19138	$ 2705.00
3,000 GAL	90	146	NATURAL	515037	$ 4595.00

STANDS FOR 30° CONE BOTTOM TANKS

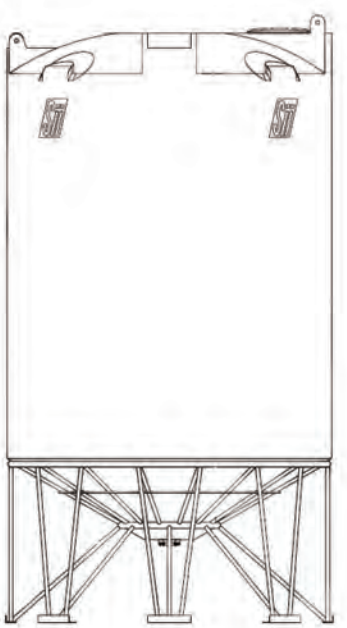
FOR 86" DIA.	79000	$ 2605.00
FOR 90" DIA.	79100	$ 3440.00

45° SLOPE TANKS

SIZE	DIA.	HT.	COLOR	PART NO.	LIST
500 GAL	64	84	NATURAL	61937	$ 1240.00
1,000 GAL	64	100	NATURAL	500038	$ 2221.00
1,500 GAL	64	138	NATURAL	501037	$ 2995.00
2,850 GAL	90	146	NATURAL	510037	$ 5188.00

STANDS FOR 45° CONE BOTTOM TANKS

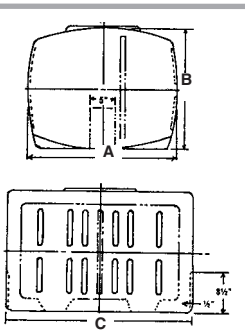
FOR 64" DIA.	78800	$ 2415.00
FOR 90" DIA.	79200	$ 4425.00



PCO TANKS

SIZE	A	B	C	PART NO.	LIST
30 GAL	19	20	25	10937	$ 285.00
50 GAL	19	20	38	11737	$ 310.00
100 GAL	30	26	38	12037	$ 491.00
150 GAL	36 1/2	26	48	15737	$ 595.00
200 GAL	36 1/2	34	48	16637	$ 745.00

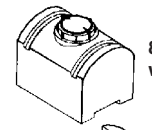
PCO Tanks do NOT include a tank fitting



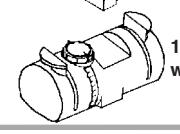
SNYDER TANKS

LAWN/ GARDEN TANKS

SIZE	DIA.	HT.	LGTH.	COLOR	PART NO.	LIST
8 GAL W/ INSERTS	12	15	16	NATURAL	10282	$ 203.00
12 GAL W/ INSERTS	12	19	16	NATURAL	10482	$ 219.00
15 GAL W/ INSERTS	14	14	32	NATURAL	11082	$ 185.00
25 GAL W/ INSERTS	18	16	36	NATURAL	11482	$ 215.00



8 and 12 Gallon w/ Inserts

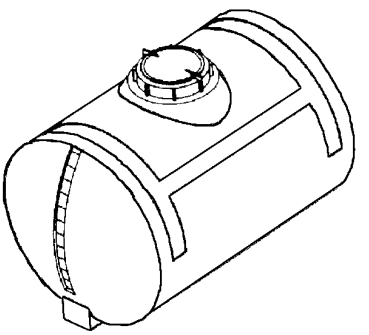


15 and 25 Gallon w/ Inserts

HORIZONTAL TANKS

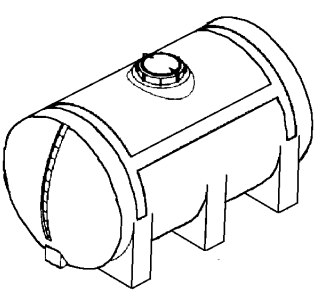
Turn to Pg. 36 for Saddles, Cradles, & Banding for Horizontal Tanks

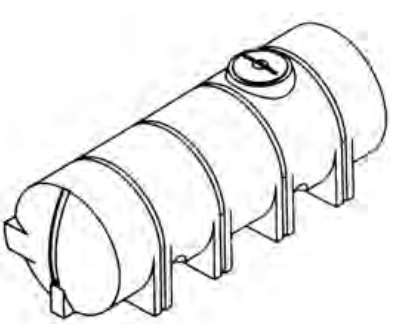
SIZE	DIA.	LGTH.	COLOR	PART NO.	LIST
25 GAL	23	19	NATURAL	10337	$ 175.00
55 GAL	23	38	NATURAL	10537	$ 276.00
110 GAL	30	50	NATURAL, YELLOW	11137	$ 458.00
150 GAL	30	60	NATURAL, YELLOW	11337	$ 552.00
150 GAL	32	56	NATURAL	11537	$ 547.00
200 GAL	32	71	NATURAL, YELLOW	12337	$ 660.00
200 GAL	38	52	NATURAL, YELLOW	12537	$ 665.00
300 GAL	38	72	NATURAL, YELLOW	13337	$ 898.00
400 GAL	42	72	NATURAL	13537	$ 1245.00
500 GAL	48	75	NATURAL	13937	$ 1200.00
1,000 GAL	65	87	NATURAL	14337	$ 4680.00



LEG TANKS AND SUPER NURSE TANKS

SIZE	DIA.	HT.	LGTH.	COLOR	PART NO.	LIST
30 GAL	23	26	20	NATURAL	10837	$ 195.00
60 GAL	23	26	38	NATURAL	10637	$ 330.00
125 GAL	30	35	50	NATURAL	11237	$ 560.00
230 GAL	38	43	52	NATURAL	12837	$ 823.00
300 GAL	38	43	72	NATURAL	13237	$ 986.00
525 GAL	48	53	75	NATURAL	14037	$ 1376.00
730 GAL	54	58	82	NATURAL	13637	$ 2180.00
750 SUPER NURSE	46	49	117	NATURAL	13037	$ 2745.00
1,025 SUPER NURSE	48	50	139	NATURAL, GREEN	14437	$ 2745.00
715 CENTER SLOPE	46	48	113	NATURAL	1004337	$ 2285.00
1,025 CENTER SLOPE	46	48	154	NATURAL	54137	$ 3075.00
1,250 CENTER SLOPE	46	47	154	NATURAL	543037	$ 4310.00
1,615 CENTER SLOPE	69	61	140	NATURAL	1003437	$ 5150.00
2,015 CENTER SLOPE	69	72	140	NATURAL	1003537	$ 6234.00
3,100 ELIPTICAL CENTER SLOPE*	92	74	142	NATURAL	7500201	$ 12,840.00
1,650 ELL. SUPER NURSE	71	55	140	NATURAL, BLACK	1000737	$ 4533.00
2,000 ELL. SUPER NURSE	84	55	142	NATURAL, BLACK	1002337	$ 5610.00
2,600 ELL. SUPER NURSE	82	69	156	NATURAL, BLACK	84737	$ 7960.00
3,000 ELL. SUPER NURSE	92	76	142	NATURAL, GREEN, BLACK	75038	$ 8550.00



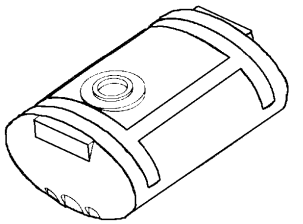


**3,100 Elliptical Center Slope comes with hoops and skid*

Turn to Pg. 36 for Hoop Assemblies for Super Nurse Tanks

SNYDER TANKS/ TANK COMPONENTS

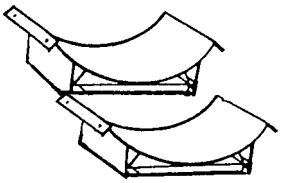
ELLIPTICAL TANKS



SIZE	DIA.	HT.	LGTH.	COLOR	PART NO.	LIST
525 GAL	58	37	81	NATURAL	14837	$ 1565.00
850 GAL	67	44	93	NATURAL	15037	$ 2290.00
1,025 GAL	78	47	94	NATURAL	14937	$ 2730.00

TANK COMPONENTS

SADDLES



PART NO.	DESCRIPTION	LIST
40400	FOR 30" AND 32" DIA. TANKS	$ 275.00
40500	FOR 38" DIA. TANKS	$ 380.00
40800	FOR 42" DIA. TANKS	$ 426.00
40900	FOR 48" DIA. TANKS	$ 625.00

CRADLES *Galvanized rolled steel*



PART NO.	DESCRIPTION	LIST
43100	FOR 110 GAL X 30", 150 GAL X 32"	$ 92.00
43200	FOR 150 GAL X 30", 200 GAL X 32"	$ 124.00
43600	FOR 200 GAL X 38"	$ 144.00
43700	FOR 300 GAL X 38", 400 GAL X 42"	$ 222.00
44000	FOR 500 X 48"	$ 245.00

BANDING FOR SADDLES AND SKIDS

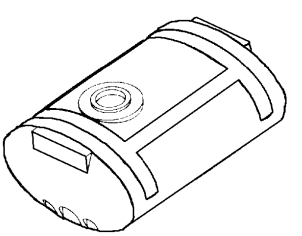
PART NO.	DESCRIPTION	NET
340	NYLON BANDING	$ 2.67/ft
341	NYLON BANDING BUCKLE	$ 9.50/ea

HOOP ASSEMBLIES *Come with J-Bolt package*



PART NO.	DESCRIPTION	LIST
459006	750 SUPER NURSE PER 2	$ 582.70
459017	1,025 SUPER NURSE PER 4	$ 644.00
459042	1,685 SUPER NURSE PER 4	$ 710.00
459023	2,000 SUPER NURSE PER 4	$ 999.00
459003	1,025 CENTER SLOPE PER 4	$ 545.00
459026	1,250 CENTER SLOPE PER 4	$ 655.00
45800009	1,615 CENTER SLOPE PER 4	$ 675.00
45800011	2,015 CENTER SLOPE PER 4	$ 720.00
458003	1,650 ELL. SUPER NURSE PER 4	$ 685.00
458007	2,000 ELL. SUPER NURSE PER 4	$ 1175.00
994002226	2,600 ELL. SUPER NURSE PER 4	$ 1490.00
459020	3,000 ELL. SUPER NURSE PER 4	$ 1685.00
904004226	*Optional Ladder for 2,600 Ell. Super Nurse*	

ELLIPTICAL TANKS & SKIDS

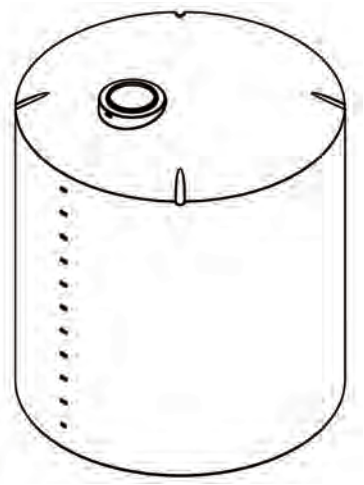


SIZE	DIA.	HT.	LGTH.	COLOR	PART NO.	LIST	SKID NO.	LIST
200 GAL	40	30	66	NATURAL	41252	$ 799.00	63015	$ 829.00
300 GAL	48	36	70	NATURAL	40327	$ 1045.00	63016	$ 885.00
500 GAL	57	44	82	NATURAL	40328	$ 1475.00	63018	$ 1282.00
750 GAL	69	48	88	NATURAL	40329	$ 2070.00	60371	$ 1720.00
1,000 GAL	78	55	90	NATURAL	40330	$ 2530.00	60372	$ 2006.00

NORWESCO TANKS

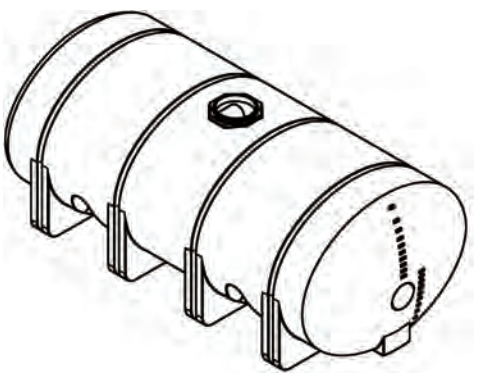
VERTICAL TANKS

SIZE	DIA.	HT.	COLOR	PART NO.
1,550 GAL	87	67	WHITE	40235
1,550HD GAL	87	67	BLUE	40236
2,100 GAL	87	87	WHITE	40178
2,100HD GAL	87	87	BLUE	40241
2,500 GAL	95	91	WHITE	40051
2,500HD GAL	95	91	BLUE	40052
3,000 GAL	95	109	WHITE	40754
3,000HD GAL	95	109	BLUE	40755
5,000 GAL	102	152	WHITE	40164
5,000HD GAL	102	152	BLUE	40166
6,100 GAL	119	140	WHITE	40659
6,100HD GAL	119	140	BLUE	40661
10,000 GAL	141	160	WHITE	43128
10,000HD GAL	141	160	BLUE	43130



SUPER NURSE TANKS

SIZE	DIA.	HT.	LGTH.	COLOR	PART NO.
525 GAL	49	54	71	WHITE	40181
525HD GAL	49	54	71	BLUE	40193
725 GAL	49	54	101	WHITE	40180
725HD GAL	49	54	101	BLUE	40194
1,025 SUPER NURSE	49	54	139	WHITE	40089
1,025HD SUPER NURSE	49	54	139	BLUE	40131
1,335 ELL. SUPER NURSE	66	55	126	WHITE	42927
1,335HD ELL. SUPER NURSE	66	55	126	BLUE	42929
1,635 ELL. SUPER NURSE	71	58	142	WHITE	40387
1,635HD ELL. SUPER NURSE	71	58	142	BLUE	40388
2,035 ELL. SUPER NURSE	84	56	142	WHITE	40618
2,035HD ELL. SUPER NURSE	84	56	142	BLUE	40623
2,635 ELL. SUPER NURSE	90	72	140	WHITE	40547
2,635HD ELL. SUPER NURSE	90	72	140	BLUE	40283
3,135 ELL. SUPER NURSE	88	80	150	WHITE	40686
3,135HD ELL. SUPER NURSE	88	80	150	BLUE	40688
4,035HD ELL. SUPER NURSE	92	75	192	BLUE	41269



Premium white tanks have a 3 year warranty

Heavy duty blue tanks have a 5 year warranty

BANDS FOR SUPER NURSE TANKS

PART NO.	DESCRIPTION	BANDS REQUIRED
60057	BAND FOR 1,025 SUPER NURSE	4
63642	BAND FOR 1,335 ELL. SUPER NURSE	3
60586	BAND FOR 1,635 ELL. SUPER NURSE	4
63840	BAND FOR 2,035 ELL. SUPER NURSE	4
60353	BAND FOR 2,635 ELL. SUPER NURSE	4
60297	BAND FOR 3,135 ELL. SUPER NURSE	4
62832	BAND FOR 4,035 ELL. SUPER NURSE	4



BANJO IBC ONE WAY BALL VALVES

PART NO.	DESCRIPTION	LIST
MAUSER/MAMOR:		
WFC230254	QD, Viton collar gasket, foil seal, red tamper evident handle seal, cap	$ 101.95
200FPT	Cap, 2" Female Thread	$ 10.84
SNYDER:		
VSFMTBC201V	One way ball valve, cap	$ 148.39
IBCAIR KIT	Mini Bulk Tank Pneumatic Test Kit, Complete	$ 199.80
CV100MT	1" Check Valve, Poly 1" Male Thread X 1" Female Thread	$ 32.04
350071	Stainless Steel Drilled Head Bolt, Syder Mini Bulk Tanks	
EZLOC	⅛" X 20", Tamper Evident Cable and Seal with Serial Number, No Tool Required	**NET** $ 2.21
EZLOC2	¼" x 14", Tamper Evident Cable and Seal with Serial Number, No Tool Required	**NET** $ 1.40

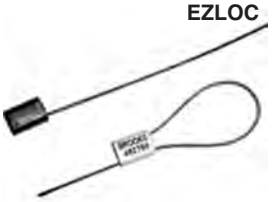


WFC230254



IBC-AIR

EZLOC





Square Stackable

PART NO.	DESCRIPTION
66337	220 Gallon Square Stackable, 45" L x 45" W x 45" H, Natural Color, Black 2-Way Base, GEM Cap, One 2" Bung, Wire Seal Locations, SII Vacuum Vent
65639	120 Gallon Excalibur Natural High Density Tank, GEM Cap, One 2" Bung, Wire Seal Locations, SII Vacuum Vent
65239	330 Gallon Excalibur Natural High Density Tank, GEM Cap, One 2" Bung, Wire Seal Locations, SII Vacuum Vent
1897203	275 Gallon Cage Buster, 100% Polyethylene, Sloped Drain Trough, One Way Valve, Stackable, 48" L x 40" W x 52" H
275MINI	275 Gallon Caged Mini Bulk Tank



Excalibur



Cage Buster



275MINI

TANK ACCESSORIES

PART NO.	DESCRIPTION	LIST	PART NO.	DESCRIPTION	LIST
341028	8" Lid Assembly	$ 46.54	343043	5" Insert for 18" Lid	$ 19.92
343080	10" Threaded Cap	$ 39.50	331154	Gem Cap Gasket	$ 50.00
343047	6" Screw on Cap	$ 26.99	34701609	Gem Cap - Solid	$ 92.00
343012	18" Lid Assembly	$ 43.00	34701611	Gem Cap- 2" Female Thread	$ 92.00
343041	18" Lid Only	$ 33.54	34701638	Gem Cap - 2" Buttress	$ 92.00
341125	18" Hinged Lid Assembly	$105.00	345008	Polyurethane Lid Tie	$ 8.00
TLVA10	Banjo 10" Lid & Ring	$ 81.57	347352	24" Lid Assembly	$ 98.02

Sparger Tube Assembly - Cut to length, threaded and drilled

Part No.	**ACPT034**	**ACPT100**	**ACPT114**	**ACPT112**	**ACPT200**
Description	¾" I.D. Poly Tubing	1" I.D. Poly Tubing	1¼" I.D. Poly Tubing	1½" I.D. Poly Tubing	2" I.D. Poly Tubing



FRESH WASH

26676 Safety/Fresh Water Tank





PART NO.	DESCRIPTION		LIST
3371 0019	Jet Agitators		$ 11.49
T34 TE	Agitator Tee ¾" MPT x ¾" FPT x ¾" FPT		$ 12.16
148 ALT	Pressure Vacuum Vent, Poly	(NET)	$298.00
3371 0028	¾" Eductor, Poly	(NET)	$ 72.35
46550-1 1/2PP	1½" Eductor, Poly		$184.77
Y9270-PP	¾" Eductor, Poly		$ 99.70



SNYDER FITTINGS W/GASKETS

(2¼" hole size)

PART NO.	DESCRIPTION	LIST
340001	¾" Nylon	$ 11.00
340002	1" Nylon	$ 11.00
340003	1¼" Nylon	$ 14.00
340004	1½" Nylon	$ 16.00

TANK ACCESSORIES

BANJO POLY BULKHEAD FITTINGS



- Double sided threads
- Standard with EPDM gasket. Viton Available.

PART NO.	DESCRIPTION	HOLE SIZE	LIST
TF050	½" Poly Bulkhead Tank Fitting	1⅝"	$ 17.10
TF075	¾" Poly Bulkhead Tank Fitting	1⅝"	$ 17.10
TF100	1" Poly Bulkhead Tank Fitting	2¼"	$ 20.48
TF125	1¼" Poly Bulkhead Tank Fitting	2¼"	$ 23.91
TF150	1½" Poly Bulkhead Tank Fitting	3"	$ 34.33
TF200	2" Poly Bulkhead Tank Fitting	3"	$ 34.33
TF220	2" Poly Bulkhead Tank Fitting	3¼"	$ 46.64
TF300	3" Poly Bulkhead Tank Fitting	4½"	$ 78.50
TF400	4" Poly Bulkhead Tank Fitting	5¾"	$ 213.56

BANJO 316 STAINLESS STEEL BULKHEAD FITTINGS



- Double sided threads
- Standard with EPDM gasket. Viton available.

PART NO.	DESCRIPTION	HOLE SIZE	LIST
TF038SS	⅜" SS Bulkhead Tank Fitting	1"	$ 165.57
TF050SS	½" SS Bulkhead Tank Fitting	1⅜"	$ 236.51
TF075SS	¾" SS Bulkhead Tank Fitting	1⅝"	$ 331.58
TF100SS	1" SS Bulkhead Tank Fitting	2¼"	$ 417.07
TF125SS	1¼" SS Bulkhead Tank Fitting	2¼"	$ 434.95
TF150SS	1½" SS Bulkhead Tank Fitting	3"	$ 549.62
TF200SS	2" SS Bulkhead Tank Fitting	3"	$ 520.66
TF220SS	2" SS Bulkhead Tank Fitting	3¼"	$ 584.59
TF300SS	3" SS Bulkhead Tank Fitting	4⅜"	$ 893.52

SS BOLTED COUPLER FLANGES



PART NO.	DESCRIPTION	PIPE SIZE	LIST
BFC125SS	1¼" Female NPT x 1¼" Female NPT	1¼"	$ 432.97
BFC150SS	1½" Female NPT x 1½" Female NPT	1½"	$ 339.09
BFC200SS	2" Female NPT x 2" Female NPT	2"	$ 398.96
BFC300SS	3" Female NPT x 3" Female NPT	3"	$ 840.69
BFC400SS	4" Female NPT x 4" Female NPT	4"	$1212.76

VENT CAPS

PART NO.	DESCRIPTION	LIST
VC230	2" Vent Cap/Anti Vortex with Mesh Screen	$ 33.22
VC200	2" Vent Cap/Anti Vortex without Screen	$ 20.57
VC300	3" Vent Cap/Anti Vortex without Screen	$ 46.04

POLY SIPHON TUBES

PART NO.	DESCRIPTION	LIST
ST200	2" Poly Siphon Tube	$ 37.03
ST300	3" Poly Siphon Tube	$ 54.75

BULKHEAD FITTING GASKETS

EPDM	FITS POLY BULKHEAD FITTING	FITS STAINLESS BULKHEAD FITTING	LIST
150G	TF050	N/A	$ 1.50
150G	TF075	TF075SS	$ 1.50
200G	TF100	TF100SS	$ 1.82
200G	TF125	TF125SS	$ 1.82
300G	TF150	TF150SS	$ 2.48
300G	TF200	TF200SS	$ 2.48
TF220G	TF220	TF220SS	$ 10.42
TF300G	TF300	TF300SS	$ 18.40
TF400G	TF400		$ 39.49

Viton Gaskets are available ....

ANTI VORTEX TANK FLANGE



PART NO.	DESCRIPTION	LIST
347007	Anti-Vortex with 1¼" Fitting	$ 29.00
TF100AV	1" Tank Flange Anti-Vortex	$ 45.15
TF125AV	1¼" Tank Flange Anti-Vortex	$ 43.33
TF150AV	1½" Banjo Tank Flange Anti-Vortex	$ 55.37
TF200AV	2" Banjo Tank Flange Anti-Vortex	$ 55.87

POLYPROPYLENE BLIND HOLE TANK FLANGES



- Stainless steel studs
- Poly foam gaskets

PART NO.	DESCRIPTION	LIST
BF100	1" x 1" Threaded Flange	$ 97.40
BF150	1½" x 1½" Threaded Flange	$ 98.98
BF200	2" x 2" Threaded Flange	$ 98.96
BF300	3" Threaded Flange	$ 146.26

BOTTOM DRAIN BOLTED



PART NO.	DESCRIPTION	LIST
BF150BD	1½" x 1½" Threaded Flange	$ 98.98
BF200BD	2" x 2" Threaded Flange	$ 98.98
BF300BD	3" x 3" Threaded Flange	$ 144.65

GASKETS

PART NO.	DESCRIPTION	LIST
BF100G	Poly Foam Gasket - 1"	$ 12.83
BF200G	Poly Foam Gasket - 1½" & 2"	$ 12.53
BF300G	Poly Foam Gasket - 3"	$ 26.46
BF200GE	EPDM 1½" & 2" Bolted Flange Gasket	$ 12.53
BF300GE	EPDM 3" Bolted Flange Gasket	$ 31.76

SOTERA

HAND PUMP

PACER HAND PUMP



PART NO.

59-00021A

LIST $ 282.00

AC UTILITY DIAPHRAGM PUMP

MODEL 460



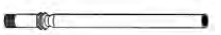
Santoprene™ Diaphragm
115 Volt AC
1" x 12" EPDM Hose

2" NPT Bung Adapter
Nozzle Boot
1" Manual Ball Valve Nozzle
Polypropylene Suction Pipe

5 YEAR DIAPHRAGM WARRANTY

460 LIST: **$ 1058.00**

ACCESSORIES



1" (2.54cm) polypropylene telescoping suction pipe 24" to 40"

DP-T4001 LIST: **$ 41.28**



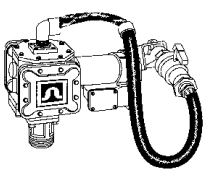
400F6775

¾" drum faucet

LIST: **$ 18.05**

12V DC DIAPHRAGM PUMP

MODEL 420



1" x 12' EPDM hose
Nozzle Boot
1" Manual Ball Valve Nozzle
Polypropylene Suction Pipe

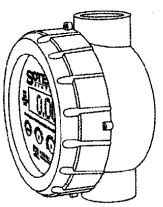
5 YEAR DIAPHRAGM WARRANTY

420 LIST: **$ 1058.00**

DIGITAL METER

MODEL 825

20 GPM



Glass Filled Polypropylene Construction

Digital LCD Display

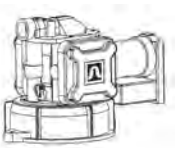
1" Inlets and Outlets

Powered by two AA Batteries

825 LIST: **$ 371.00**

12V DC DIAPHRAGM PUMP

MODEL 445



1" x 12' EPDM hose w/ball valve nozzle

Sotera 825 Digital Meter

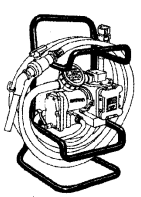
Liquid recirculation for mixing & transferring low to high viscosity chemicals

Snyder GEM cap tank mounting built into the pump

445 LIST: **$ 1393.00**

CHEMTRAVELLER™ SERIES 400

12 VOLT DC MODEL 435

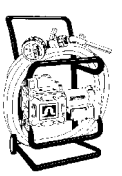


Basic Pump with:

Santoprene™ Diaphragm
1" x 14' EPDM Discharge Hose
1" x 9' EPDM Suction Hose
Ball Valve Nozzle • 12 Volt DC
2' Battery Cable and Clips
Digital Meter
Low Profile Tubular Frame

435 LIST: **$ 1705.00**

115 VOLT AC MODEL 465



Basic Pump with:

Santoprene™ Diaphragm
1" x 14' EPDM Discharge Hose
1" x 9' EPDM Suction Hose
Ball Valve Nozzle • 115 Volt AC Electric
Digital Meter
High Profile Tubular Frame
Wheel Kit

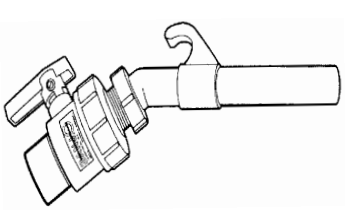
465 LIST: **$ 1580.00**

400 KTH1178 Repair Kit LIST: **$ 170.00**

Breakdown on Page 197

MISCELLANEOUS

PART NO.	DESCRIPTION	LIST
UVA100FP	Single Union Valve w/Angle End	$ 66.50
FO236	Anti-Drip Nozzle Spout	$ 26.90
VN 100	Poly Nozzle Valve	$ 120.35
EP-58-04	1" x 12' Hose	$ 83.00
TA283	2" Buttress Fem Thr x 2" Male Thr	$ 35.94
TA283QD	2" Buttress Fem Thr x 2" Male Cam	$ 27.99
DPJ4001	5 Gallon Calibration Jug	$ 245.00





DURA PRODUCTS

DURA-PUMP



- 2 year warranty
- 12 - 15 GPM

DP-6018E-12 *(DP-4012E)* EPDM Seal	**LIST**	**$ 842.80**
DP-6018V-12 *(DP-4013V)* Viton Seal	**LIST**	**$ 904.72**
DP-P6017A-E *(DP-P4017A-E)* Pump Cartridge w/ EPDM Seal	**LIST**	**$ 245.96**
DP-P6017A-V *(DP-P4017A-V)* Pump Cartridge w/ Viton Seal	**LIST**	**$ 261.44**
DP-G4001A-E Gasket Kit - EPDM	**LIST**	**$ 49.88**
DP-G4001A-V Gasket Kit - Viton	**LIST**	**$ 65.36**

Breakdown for the Dura-Pump on Page 163

DURA-METER



- Moisture sealed construction

DP-3000E EPDM Used for Chemicals and DEF	**LIST**	**$ 393.88**
DP-3000V VITON Used only for Chemicals	**LIST**	**$ 407.64**
DP-MFP01 Meter face only	**LIST**	**$ 340.56**

Breakdown for the Dura-Meter on Page 163

DURA-PUMP EASY CADDY



- Quickly Attaches Pump System to Frame of Cage Tank

Easy Caddy: 1" Suction & discharge hose, ball valve, and Dura Meter

DPEM-6318E-12 *(DPEM-4312E)* 12 Volt, EPDM Seal	**LIST**	**$ 1360.52**
DPEM-6318V-12 *(DPEM-4312V)* 12 Volt, Viton Seal	**LIST**	**$ 1467.16**
DPEM-6318S-12 *(DPEM-4312S)* 12 Volt, Silicone Seal	**LIST**	**$ 1467.16**
DPEM-6318E-110 *(DPEM-4315E)* 115 Volt, EPDM Seal	**LIST**	**$ 1462.00**
DPEM-6318V-110 *(DPEM-4315V)* 115 Volt, Viton Seal	**LIST**	**$ 1553.16**



Auto-Batch Easy Caddy: Same as Easy Caddy with upgraded Auto-Batch Dura Meter

DPABS-6318V-12 *(DPABS-4312V)* 12 Volt System, Viton Seals	**LIST**	**$ 2033.04**
DPABS-6318V-110 *(DPABS-4315V)* 115 Volt System, Viton Seals	**LIST**	**$ 2124.20**
DPAB-12V 1" Auto-Batch Meter, 12 Volt System, Viton Seals	**LIST**	**$ 1068.12**
DPAB-15V 1" Auto-Batch Meter, 115 Volt System, Viton Seals	**LIST**	**$ 1068.12**

DEF DISPENSING SYSTEM



135 gallon capacity DEF approved tank with Easy Caddy system, EPA approved tank check valve, and auto shutoff nozzle

DEFE-6018AE-12-135 *(DEFE-2012AE-135)* 12 Volt Pump	**LIST**	**$ 2139.68**

Easy Caddy: Suction hose, discharge hose, automatic nozzle and pump

DEFE-6018AE-12 *(DEFE-2012AE)* 12 Volt Caddy	**LIST**	**$ 1157.56**
DEFE-6018AE-110 *(DEFE-2015AE)* 110 Volt Caddy	**LIST**	**$ 1181.64**

Pump Only

DEF-6018E-12 *(DEF-2012E)* 12 Volt	**LIST**	**$ 897.84**
DEF-6018E-110 *(DEF-2015E)* 110 Volt	**LIST**	**$ 921.92**

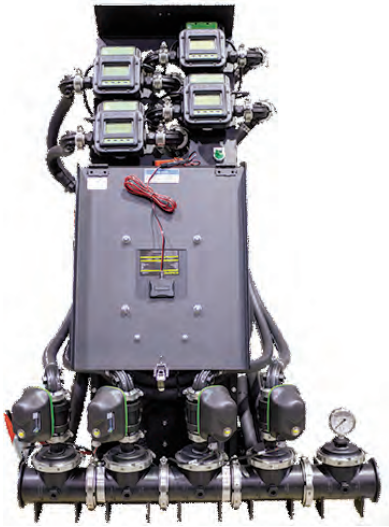
HIGH-FLOW DURA-METER



- Displays batch and total volume
- 2" operating flow rate 15-300 GPM
- 3" operating flow rate 15-700 GPM

DP-HFM2V 2" High-Flow Meter- Viton Seals	**LIST**	**$ 1176.48**
DP-HFM3V 3" High-Flow Meter- Viton Seals	**LIST**	**$ 1479.20**

DURA PRODUCTS



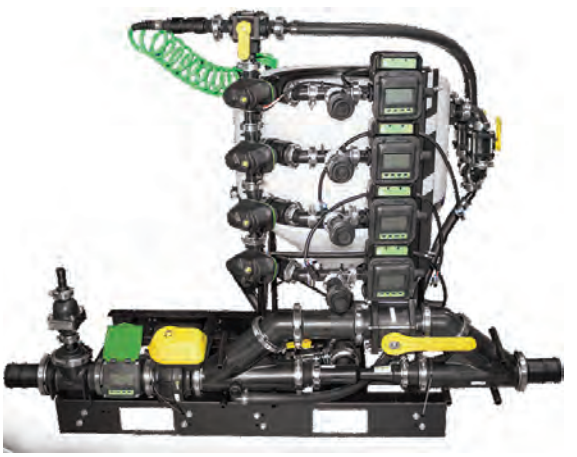
FASTBATCH DI

FastBatch™ DI injects chemicals into the carrier flow. The FastBatch™ DI comes with 4 pumps with Auto-Batch meters to connect to totes and can be plumbed to either a 2" or 3" line. With the integrated solar panel on the upgraded lid filling your sprayer has never been easier or faster. This system is best for growers that already has an inductor cone setup that they want to enhance and speed up. System measures 38" L x 35" W x 53" H

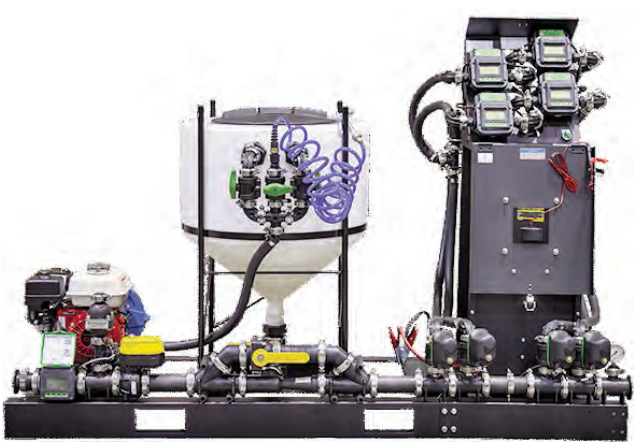
DPAB-DI2V-12 2" plumbing, 4 Viton pumps, 12V **LIST $ 10701.00**
DPAB-DI3V-12 3" plumbing, 4 Viton pumps, 12V **LIST $ 11175.00**

FASTBATCH VENTURI

FastBatch™ Venturi uses Dura Meters and Dura Valves to automate mixing via venturi suction. The FastBatch™ Venturi comes with a 40 gallon cone inductor with chemical blade, 2" or 3" Auto-Batch carrier system, and choice between 2 or 4 Dura Meters w/ 1" Dura valves all mounted to a metal frame with forklift slots for easy install and transport. This system is best for growers that have minimal space and want a simple automated system to draw out of chemical totes. System measures 58" L x 35" W



DPFB-VENT2V4-12 2" plumbing, 4 Viton Input, NO PUMP **LIST $ 15137.00**
DPFB-VENT3V4-12 3" plumbing, 4 Viton Input, NO PUMP **LIST $ 17800.00**



FASTBATCH MULTIJET

FastBatch™ MultiJet combines both the DI and Venturi into one unit to maximize your productivity. The unit does not come with a pump but does have mounting holes for one on a metal frame with forklift slots for easy install and transport. This system is best for growers that want a complete system that will decrease loading time and increase acres sprayed. System measures 93" L x 37" W

DPFP-MULT2V4-12 2" plumbing, 4 Viton pumps, NO TRANSFER PUMP **LIST $19622.00**
DPFP-MULT3V4-12 3" plumbing, 4 Viton pumps, NO TRANSFER PUMP **LIST $23600.00**

Turn to Page 200 for a Chemical Chart for Seals

AIRLINE FITTINGS

TEE UNION

PART NO.	DESCRIPTION	LIST
MT2600404	¼" TEE	$ 5.70
UTC516	5/16" TEE	$ 5.85
UTC380	⅜" TEE	$ 7.04
UTC120	½" TEE	$ 8.52



ELBOW UNION

PART NO.	DESCRIPTION	LIST
ULC140	¼" ELBOW	$ 4.46
ULC516	5/16" ELBOW	$ 5.16
ULC380	⅜" ELBOW	$ 6.70
ULC120	½" ELBOW	$ 7.98



MALE CONNECTOR

PART NO.	DESCRIPTION	LIST
MT2640404	¼" NPT X ¼" AIR	$ 3.03
MC51614	¼" NPT X 5/16" AIR	$ 3.20
MC38014	¼" NPT X ⅜" AIR	$ 4.31
MC14038	⅜" NPT X ¼" AIR	$ 3.97
MC38038	⅜" NPT X ⅜" AIR	$ 4.98
MC12038	⅜" NPT X ½" AIR	$ 6.70
MC38012	½" NPT X ⅜" AIR	$ 7.74
MC12012	½" NPT X ½" AIR	$ 7.50



UNION CONNECTOR

PART NO.	DESCRIPTION	LIST
MT2650404	¼" UNION	$ 3.93
UC516	5/16" UNION	$ 4.20
UC380	⅜" UNION	$ 5.35
UC380140	⅜" X ¼" UNION	$ 5.35
UC120	½" UNION	$ 6.30
UC120380	½" X ⅜" UNION	$ 7.50



STEM ADAPTER

PART NO.	DESCRIPTION	LIST
MT2620404	¼" BARB X ¼" NPT	$ 1.90
MT38014	⅜" BARB X ¼" NPT	$ 2.10



MALE ELBOW

PART NO.	DESCRIPTION	LIST
ME140180	⅛" NPT X ¼" AIR 90°	$ 3.93
ME140140	¼" NPT X ¼"AIR 90°	$ 4.46
ME380140	¼" NPT X ⅜" AIR 90°	$ 6.70
ME140380	⅜" NPT X ¼" AIR 90°	$ 5.33
ME516380	⅜" NPT X 5/16" AIR 90°	$ 8.10
ME380380	⅜" NPT X ⅜" AIR 90°	$ 7.33



CHECK VALVE

PART NO.	DESCRIPTION	LIST
CV140	¼" AIR CHECK VALVE	$ 21.70
CV380	⅜" AIR CHECK VALVE	$ 23.46



HAND VALVE

PART NO.	DESCRIPTION	LIST
JV140140	¼" VALVE	$ 9.25
JV380380	⅜" VALVE	$ 11.16



FEMALE ADAPTER

PART NO.	DESCRIPTION	LIST
MT2630404	¼" NPT X ¼" AIR	$ 6.20



TWO-WAY DIVIDER

PART NO.	DESCRIPTION	LIST
UCY140	¼" DIVIDER	$ 6.37
UCY516	5/16" DIVIDER	$ 6.41
UCY380140	⅜" X (2) ¼" DIVIDER	$ 7.57
UCY380	⅜" DIVIDER	$ 7.16



AIRLINE TUBING

PART NO.	DESCRIPTION	LIST
AIRLINE	¼" TUBING	$ 0.29/ft
AIRLINE5/16	5/16" TUBING	$ 0.40/ft
AIRLINE3/8	⅜" TUBING	$ 0.53/ft
AIRLINE1/2	½" TUBING	$ 0.57/ft



THREE-WAY DIVIDER

PART NO.	DESCRIPTION	LIST
WDC380140	⅜" X (3) ¼" DIVIDER	$ 9.97
WDC380	⅜" DIVIDER	$15.80



MALE ELBOW SWIVEL

PART NO.	DESCRIPTION	LIST
MESW140	¼" NPT X ¼" AIR SWIVEL	$ 6.39
MESW380140	¼" NPT X ⅜" AIR SWIVEL	$ 9.75
MESW380	⅜" NPT X ⅜" AIR SWIVEL	$ 10.10



GREENLEAF NOZZLES

	LIQUID PRESSURE PSI	CAPACITY ONE NOZZLE IN GPM	GALLONS PER ACRE BASED ON 20" NOZZLE SPACING								
			5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH
TDXL 11001 ORANGE BODY/ YELLOW TIP **TADF 01** ORANGE BODY/ ORANGE TIPS **AM 11001** ORANGE	20	0.07	4.2	3.5	2.6	2.1	1.7	1.5	1.3	1.2	1.0
	30	0.09	5.1	4.3	3.2	2.6	2.1	1.8	1.6	1..4	1.3
	40	0.10	5.9	4.9	3.7	3.0	2.5	2.1	1.9	1.6	1.5
	50	0.11	6.6	5.5	4.1	3.3	2.8	2.4	2.1	1.8	1.7
	60	0.12	7.3	6.1	4.5	3.6	3.0	2.6	2.3	2.0	1.8
	70	0.13	7.9	6.5	4.9	3.9	3.3	2.8	2.5	2.2	2.0
	80	0.14	8.4	7.0	5.2	4.2	3.5	3.0	2.6	2.3	2.1
	90	0.15	8.9	7.4	5.6	4.5	3.7	3.2	2.8	2.5	2.2
	100	0.16	9.4	7.8	5.9	4.7	3.9	3.4	2.9	2.6	2.3
TDXL 110015 GREEN BODY/ BLUE TIP **TADF 015** GREEN BODY/ ORANGE/YELLOW TIPS **AM 110015** GREEN	20	0.11	6.3	5..2	3.9	3.1	2.6	2.2	2.0	1.7	1.6
	30	0.13	7.7	6.4	4.8	3.9	3.2	2.8	2.4	2.1	1.9
	40	0.15	8.9	7.4	5.6	4.5	3.7	3.2	2.8	2.5	2.2
	50	0.17	10.0	8.3	6.2	5.0	4.1	3.6	3.1	2.8	2.5
	60	0.18	10.9	9.1	6.8	5.5	4.5	3.9	3.4	3.0	2.7
	70	0.20	11.8	9.8	7.4	5.9	4.9	4.2	3.7	3.3	2.9
	80	0.21	12.6	10.5	7.9	6.3	5.2	4.5	3.9	3.5	3.1
	90	0.22	13.4	11.1	8.3	6.7	5.6	4.8	4.2	3.7	3.3
	100	0.24	14.1	11.7	8.8	7.0	5.9	5.0	4.4	3.9	3.5
TDXL 11002 YELLOW BODY/ RED TIP **TADF 02** YELLOW BODY/ ORANGE/BLUE TIPS **AM 11002** YELLOW	20	0.14	8.4	7.0	5.2	4.2	3.5	3.0	2.6	2.3	2.1
	30	0.17	10.3	8.6	6.4	5.1	4.3	3.7	3.2	2.9	2.6
	40	0.20	11.9	9.9	7.4	5.9	4.9	4.2	3.7	3.3	3.0
	50	0.22	13.3	11.1	8.3	6.6	5.5	4.7	4.1	3.7	3.3
	60	0.24	14.5	12.1	9.1	7.3	6.1	5.2	4.5	4.0	3.6
	70	0.26	15.7	13.1	9.8	7.9	6.5	5.6	4.9	4.4	3.9
	80	0.28	16.8	14.0	10.5	8.4	7.0	6.0	5.2	4.7	4.2
	90	0.30	17.8	14.8	11.1	8.9	7.4	6.4	5.6	4.9	4.5
	100	0.32	18.8	15.7	11.7	9.4	7.8	6.7	5.9	5.2	4.7
TDXL 110025 PURPLE BODY/ BROWN TIP **TADF 025** PURPLE BODY/ YELLOW/BLUE TIPS **AM 110025** PURPLE	20	0.18	10.5	8.7	6.6	5.2	4.4	3.7	3.3	2.9	2.6
	30	0.22	12.9	10.7	8.0	6.4	5.4	4.6	4.0	3.6	3.2
	40	0.25	14.8	12.4	9.3	7.4	6.2	5.3	4.6	4.1	3.7
	50	0.28	16.6	13.8	10.4	8.3	6.9	5.9	5.2	4.6	4.1
	60	0.31	18.2	15.1	11.4	9.1	7.6	6.5	5.7	5.0	4.5
	70	0.33	19.6	16.4	12.3	9.8	8.2	7.0	6.1	5.5	4.9
	80	0.35	21.0	17.5	13.1	10.5	8.7	7.5	6.6	5.8	5.2
	90	0.37	22.3	18.5	13.9	11.1	9.3	7.9	7.0	6.2	5.6
	100	0.40	23.5	19.6	14.7	11.7	9.8	8.4	7.3	6.5	5.9
TDXL 11003 BLUE BODY/ GRAY TIP **TADF 03** BLUE BODY/ YELLOW/RED TIPS **AM 11003** BLUE	20	0.21	12.6	10.5	7.9	6.3	5.2	4.5	3.9	3.5	3.1
	30	0.26	15.4	12.9	9.6	7.7	6.4	5.5	4.8	4.3	3.9
	40	0.30	17.8	14.8	11.1	8.9	7.4	6.4	5.6	4.9	4.5
	50	0.34	19.9	16.6	12.4	10.0	8.3	7.1	6.2	5.5	5.0
	60	0.37	21.8	18.2	13.6	10.9	9.1	7.8	6.8	6.1	5.5
	70	0.40	23.6	19.6	14.7	11.8	9.8	8.4	7.4	6.5	5.9
	80	0.42	25.2	21.0	15.7	12.6	10.5	9.0	7.9	7.0	6.3
	90	0.45	26.7	22.3	16.7	13.4	11.1	9.5	8.3	7.4	6.7
	100	0.47	28.2	23.5	17.6	14.1	11.7	10.1	8.8	7.8	7.0
TDXL 11004 RED BODY/ WHITE TIP **TADF 04** RED BODY/ BLUE/BROWN TIPS **AM 11004** RED	20	0.28	16.8	14.0	10.5	8.4	7.0	6.0	5.2	4.7	4.2
	30	0.35	20.6	17.1	12.9	10.3	8.6	7.3	6.4	5.7	5.1
	40	0.40	23.7	19.8	14.8	11.9	9.9	8.5	7.4	6.6	5.9
	50	0.45	26.5	22.1	16.6	13.3	11.1	9.5	8.3	7.4	6.6
	60	0.49	29.1	24.2	18.2	14.5	12.1	10.4	9.1	8.1	7.3
	70	0.53	31.4	26.2	19.6	15.7	13.1	11.2	9.8	8.7	7.9
	80	0.57	33.6	28.0	21.0	16.8	14.0	12.0	10.5	9.3	8.4
	90	0.60	35.6	29.7	22.3	17.8	14.8	12.7	11.1	9.9	8.9
	100	0.63	37.6	31.3	23.5	18.8	15.7	13.4	11.7	10.4	9.4
TDXL 11005 BROWN BODY/ BLACK TIP **TADF 05** BROWN BODY/ RED/GRAY TIPS **AM 11005** BROWN	20	0.35	21.0	17.5	13.1	10.5	8.8	7.5	6.6	5.8	5.3
	30	0.43	25.7	21.4	16.1	12.9	10.7	9.2	8.0	7.1	6.4
	40	0.50	29.7	24.8	18.6	14.9	12.4	10.6	9.3	8.3	7.4
	50	0.56	33.2	27.7	20.8	16.6	13.8	11.9	10.4	9.2	8.3
	60	0.61	36.4	30.3	22.7	18.2	15.2	13.0	11.4	10.1	9.1
	70	0.66	39.3	32.8	24.6	19.7	16.4	14.0	12.3	10.9	9.8
	80	0.71	42.0	35.0	26.3	21.0	17.5	15.0	13.1	11.7	10.5
	90	0.75	44.6	37.1	27.9	22.3	18.6	15.9	13.9	12.4	11.1
	100	0.79	47.0	39.1	29.3	23.5	19.6	16.8	14.7	13.0	11.7
TDXL 11006 GRAY BODY/ TURQUOISE TIP **TADF 06** GRAY BODY/ GRAY TIPS **AM 11006** GRAY	20	0.42	25.2	21.0	15.8	12.6	10.5	9.0	7.9	7.0	6.3
	30	0.52	30.9	25.7	19.3	15.4	12.9	11.0	9.6	8.6	7.7
	40	0.60	35.7	29.7	22.3	17.8	14.9	12.7	11.1	9.9	8.9
	50	0.67	39.9	33.2	24.9	19.9	16.6	14.2	12.5	11.1	10.0
	60	0.74	43.7	36.4	27.3	21.8	18.2	15.6	13.6	12.1	10.9
	70	0.79	47.2	39.3	29.5	23.6	19.7	16.8	14.7	13.1	11.8
	80	0.85	50.4	42.0	31.5	25.2	21.0	18.0	15.8	14.0	12.6
	90	0.90	53.5	44.6	33.4	26.7	22.3	19.1	16.7	14.9	13.4
	100	0.95	56.4	47.0	35.2	28.2	23.5	20.1	17.6	15.7	14.1
TDXL 11008 WHITE BODY/ PURPLE TIP **TADF 08** WHITE BODY/ WHITE TIPS	30	0.69	41.2	34.3	25.7	20.6	17.1	14.7	12.9	11.4	10.3
	40	0.80	47.5	39.6	29.7	23.8	19.8	17.0	14.9	13.2	11.9
	50	0.89	53.1	44.3	33.2	26.6	22.1	19.0	16.6	14.8	13.3
	60	0.98	58.2	48.5	36.4	29.1	24.2	20.8	18.2	16.2	14.5
	70	1.06	62.9	52.4	39.3	31.4	26.2	22.5	19.6	17.5	15.7
	80	1.13	67.2	56.0	42.0	33.6	28.0	24.0	21.0	18.7	16.8
	90	1.20	71.3	59.4	44.6	35.6	29.7	25.5	22.3	19.8	17.8
	100	1.26	75.1	62.6	47.0	37.6	31.3	26.8	23.5	20.9	18.8
TDXL 11010 BLACK BODY/ BLACK TIP **TADF 10** BLACK BODY/ BLACK TIPS	30	0.87	51.4	42.9	32.2	25.7	21.4	18.4	16.1	14.3	12.9
	40	1.00	59.4	49.5	37.1	29.7	24.8	21.2	18.6	16.5	14.9
	50	1.12	66.4	55.3	41.5	33.2	27.7	23.7	20.8	18.4	16.6
	60	1.22	72.7	60.6	45.5	36.4	30.3	26.0	22.7	20.2	18.2
	70	1.32	78.6	65.5	49.1	39.3	32.7	28.1	24.6	21.8	19.6
	80	1.41	84.0	70.0	52.5	42.0	35.0	30.0	26.3	23.3	21.0
	90	1.50	89.1	74.3	55.7	44.6	37.1	31.8	27.8	24.8	22.3
	100	1.58	93.9	78.3	58.7	47.0	39.1	33.5	29.3	26.1	23.5



The TDXL uses the TurboDrop® venturi to meter and inject air into the spray fluid making the TDXL superior in drift contol and excellent in coverage. Operating pressure ranges from 20-120 psi for wide application rates.

TDXL 11001-10

LIST **$ 19.21**



Approve & recommended by Bayer for use with Liberty herbicide. The TADF dual fan pattern allows the nozzle to cover the spray target 2-4 times in one pass. Operating pressure ranges from 20-120 psi for wide application rates.

TADF 01-10

LIST **$ 32.11**



The AM nozzle uses a two piece air injected design for drift control with an unique air cleaning system to prevent plugging. Operating pressure ranges from 15-90 psi for wide application rates.

AM 11001-06

LIST **$ 8.89**

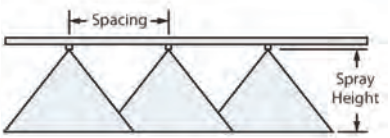
TURBO TEEJET INDUCTION FLAT SPRAY TIPS

FEATURES:

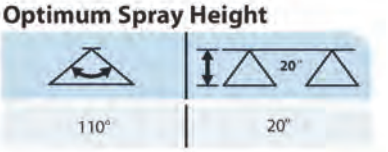
- 110° wide angle, air induction tapered flat spray tip
- Removable pre-orifice
- All polymer construction for excellent chemical and wear resistance
- Depending on the chemical, produces large air-filled drops through a Venturi air aspirator resulting in less drift
- Compact size to prevent tip damage
- Patented orifice design provides large round passages to minimize plugging
- Ideal for use with automatic spray controllers
- Wide operating pressure range: 15-100 PSI
- Automatic cap alignment with 25598-*-NYR for sizes 015-06; 114502A-*-CELR for sizes 08-10



CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
—	EXCELLENT	EXCELLENT



Optimum Spray Height



List		PSI	DROP SIZE	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	20" GPA 4 MPH	GPA 5 MPH	GPA 6 MPH	GPA 8 MPH	GPA 10 MPH	GPA 12 MPH	GPA 15 MPH	GPA 20 MPH	GALLONS PER 1000 SQ. FT. 2 MPH	3 MPH	4 MPH	5 MPH
$ 18.21	TTI110015 (100) GREEN	15	UC	0.092	12	6.8	5.5	4.6	3.4	2.7	2.3	1.8	1.4	0.31	0.21	0.16	0.13
		20	UC	0.11	14	8.2	6.5	5.4	4.1	3.3	2.7	2.2	1.6	0.37	0.25	0.19	0.15
		30	UC	0.13	17	9.7	7.7	6.4	4.8	3.9	3.2	2.6	1.9	0.44	0.29	0.22	0.18
		40	UC	0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20
		50	UC	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23
		60	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
		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
$ 18.21	TTI11002 (50) YELLOW	15	UC	0.12	15	8.9	7.1	5.9	4.5	3.6	3.0	2.4	1.8	0.41	0.27	0.20	0.16
		20	UC	0.14	18	10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1	0.48	0.32	0.24	0.19
		30	UC	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23
		40	UC	0.20	26	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27
		50	UC	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30
		60	UC	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33
		70	XC	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35
		80	XC	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38
		90	XC	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41
		100	XC	0.32	41	24	19.0	15.8	11.9	9.5	7.9	6.3	4.8	1.1	0.73	0.54	0.44
$ 18.21	TTI110025 (50) PURPLE	15	UC	0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20
		20	UC	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24
		30	UC	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30
		40	UC	0.25	32	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34
		50	UC	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38
		60	UC	0.31	40	23	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.1	0.70	0.53	0.42
		70	XC	0.33	42	25	19.6	16.3	12.3	9.8	8.2	6.5	4.9	1.1	0.75	0.56	0.45
		80	XC	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48
		90	XC	0.38	49	28	23	18.8	14.1	11.3	9.4	7.5	5.6	1.3	0.86	0.65	0.52
		100	XC	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54
$ 18.21	TTI11003 (50) BLUE	15	UC	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24
		20	UC	0.21	27	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.71	0.48	0.36	0.29
		30	UC	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35
		40	UC	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41
		50	UC	0.34	44	25	20	16.8	12.6	10.1	8.4	6.7	5.0	1.2	0.77	0.58	0.46
		60	UC	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50
		70	XC	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54
		80	XC	0.42	54	31	25	21	15.6	12.5	10.4	8.3	6.2	1.4	0.95	0.71	0.57
		90	XC	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61
		100	XC	0.47	60	35	28	23	17.4	14.0	11.6	9.3	7.0	1.6	1.1	0.80	0.64
$ 18.21	TTI11004 (50) RED	15	UC	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33
		20	UC	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38
		30	UC	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48
		40	UC	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54
		50	UC	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61
		60	UC	0.49	63	36	29	24	18.2	14.6	12.1	9.7	7.3	1.7	1.1	0.83	0.67
		70	XC	0.53	68	39	31	26	19.7	15.7	13.1	10.5	7.9	1.8	1.2	0.90	0.72
		80	XC	0.57	73	42	34	28	21	16.9	14.1	11.3	8.5	1.9	1.3	0.97	0.78
		90	XC	0.60	77	45	36	30	22	17.8	14.9	11.9	8.9	2.0	1.4	1.0	0.82
		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
$ 18.21	TTI11005 (50) BROWN	15	UC	0.31	40	23	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.1	0.70	0.53	0.42
		20	UC	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48
		30	UC	0.43	55	32	26	21	16.0	12.8	10.6	8.5	6.4	1.5	0.97	0.73	0.58
		40	UC	0.50	64	37	30	25	18.6	14.9	12.4	9.9	7.4	1.7	1.1	0.85	0.68
		50	UC	0.56	72	42	33	28	21	16.6	13.9	11.1	8.3	1.9	1.3	0.95	0.76
		60	UC	0.61	78	45	36	30	23	18.1	15.1	12.1	9.1	2.1	1.4	1.0	0.83
		70	XC	0.66	84	49	39	33	25	19.6	16.3	13.1	9.8	2.2	1.5	1.1	0.90
		80	XC	0.71	91	53	42	35	26	21	17.6	14.1	10.5	2.4	1.6	1.2	0.97
		90	XC	0.75	96	56	45	37	28	22	18.6	14.9	11.1	2.6	1.7	1.3	1.0
		100	XC	0.79	101	59	47	39	29	23	19.6	15.6	11.7	2.7	1.8	1.3	1.1
$ 18.21	TTI11006 (50) GRAY	15	UC	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50
		20	UC	0.42	54	31	25	21	15.6	12.5	10.4	8.3	6.2	1.4	0.95	0.71	0.57
		30	UC	0.52	67	39	31	26	19.3	15.4	12.9	10.3	7.7	1.8	1.2	0.88	0.71
		40	UC	0.60	77	45	36	30	22	17.8	14.9	11.9	8.9	2.0	1.4	1.0	0.82
		50	UC	0.67	86	50	40	33	25	19.9	16.6	13.3	9.9	2.3	1.5	1.1	0.91
		60	UC	0.73	93	54	43	36	27	22	18.1	14.5	10.8	2.5	1.7	1.2	0.99
		70	XC	0.79	101	59	47	39	29	23	19.6	15.6	11.7	2.7	1.8	1.3	1.1
		80	XC	0.85	109	63	50	42	32	25	21	16.8	12.6	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
$ 21.29	TTI11008 (50) WHITE	15	—	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	—	0.57	73	42	34	28	21	16.9	14.1	11.3	8.5	1.9	1.3	0.97	0.78
		30	—	0.69	88	51	41	34	26	20	17.1	13.7	10.2	2.3	1.6	1.2	0.94
		40	—	0.80	102	59	48	40	30	24	19.8	15.8	11.9	2.7	1.8	1.4	1.1
		50	—	0.89	114	66	53	44	33	26	22	17.6	13.2	3.0	2.0	1.5	1.2
		60	—	0.98	125	73	58	49	36	29	24	19.4	14.6	3.3	2.2	1.7	1.3
		70	—	1.06	136	79	63	52	39	31	26	21	15.7	3.6	2.4	1.8	1.4
		80	—	1.13	145	84	67	56	42	34	28	22	16.8	3.8	2.6	1.9	1.5
		90	—	1.20	154	89	71	59	45	36	30	24	17.8	4.1	2.7	2.0	1.6
		100	—	1.26	161	94	75	62	47	37	31	25	18.7	4.3	2.9	2.1	1.7
$ 21.29	TTI11010 LIGHT BLUE	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
		60	—	1.22	156	91	72	60	45	36	30	24	18.1	4.2	2.8	2.1	1.7
		70	—	1.32	169	98	78	65	49	39	33	26	19.6	4.5	3.0	2.2	1.8
		80	—	1.41	180	105	84	70	52	42	35	28	21	4.8	3.2	2.4	1.9
		90	—	1.50	192	111	89	74	56	45	37	30	22	5.1	3.4	2.6	2.0
		100	—	1.58	202	117	94	78	59	47	39	31	23	5.4	3.6	2.7	2.2

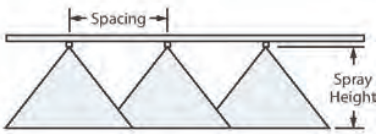
AI TEEJET AIR INDUCTION FLAT SPRAY TIPS

CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
GOOD	EXCELLENT	EXCELLENT

FEATURES:

- 110° tapered edge flat spray pattern for uniform conerage in broadcast spraying
- Stainless steel insert
- Depending on the chemical, produces large air-filled drops through a Venturi air aspirator
- Available with a molded Quick TeeJet® cap with nozzle in AIC model
- Polymer insert holder and pre-orifice with VisiFlo® color-coding
- Large droplets for less drift
- Wide operating pressure range: 30-115 PSI
- Automatic cap alignment with 25598-*-NYR





Optimum Spray Height



List		PSI	DROP SIZE	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	20" GPA 4 MPH	GPA 5 MPH	GPA 6 MPH	GPA 8 MPH	GPA 10 MPH	GPA 12 MPH	GPA 15 MPH	GPA 20 MPH	GALLONS PER 1000 SQ. FT. 2 MPH	3 MPH	4 MPH	5 MPH
AI $ 21.57 AIC $ 23.39	AI110015 AIC110015 (100) GREEN	30	UC	0.13	17	9.7	7.7	6.4	4.8	3.9	3.2	2.6	1.9	0.44	0.29	0.22	0.18
		40	XC	0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20
		50	XC	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23
		60	VC	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24
		70	VC	0.20	26	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27
		80	VC	0.21	27	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.71	0.48	0.36	0.29
		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
AI $ 21.57 AIC $ 23.39	AI11002 AIC11002 (50) YELLOW	30	UC	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23
		40	XC	0.20	26	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27
		50	XC	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30
		60	VC	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33
		70	VC	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35
		80	VC	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	1.0	0.63	0.48	0.38
		90	VC	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41
		100	C	0.32	41	24	19.0	15.8	11.9	9.5	7.9	6.3	4.8	1.1	0.73	0.54	0.44
AI $ 21.57 AIC $ 23.39	AI110025 AIC110025 (50) PURPLE	30	UC	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30
		40	XC	0.25	32	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34
		50	XC	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38
		60	XC	0.31	40	23	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.1	0.70	0.53	0.42
		70	VC	0.33	42	25	19.6	16.3	12.3	9.8	8.2	6.5	4.9	1.1	0.75	0.56	0.45
		80	VC	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48
		90	VC	0.38	49	28	23	18.8	14.1	11.3	9.4	7.5	5.6	1.3	0.86	0.65	0.52
		100	C	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54
AI $ 21.57 AIC $ 23.39	AI11003 AIC11003 (50) BLUE	30	UC	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35
		40	XC	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41
		50	XC	0.34	44	25	20	16.8	12.6	10.1	8.4	6.7	5.0	1.2	0.77	0.58	0.46
		60	XC	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50
		70	VC	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54
		80	VC	0.42	54	31	25	21	15.6	12.5	10.4	8.3	6.2	1.4	0.95	0.71	0.57
		90	VC	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61
		100	C	0.47	60	35	28	23	17.4	14.0	11.6	9.3	7.0	1.6	1.1	0.80	0.64
AI $ 21.57 AIC $ 23.39	AI11004 AIC11004 (50) RED	30	UC	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48
		40	XC	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54
		50	XC	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61
		60	XC	0.49	63	36	29	24	18.2	14.6	12.1	9.7	7.3	1.7	1.1	0.83	0.67
		70	VC	0.53	68	39	31	26	19.7	15.7	13.1	10.5	7.9	1.8	1.2	0.90	0.72
		80	VC	0.57	73	42	34	28	21	16.9	14.1	11.3	8.5	1.9	1.3	0.97	0.78
		90	VC	0.60	77	45	36	30	22	17.8	14.9	11.9	8.9	2.0	1.4	1.0	0.82
		100	C	0.63	81	47	37	31	23	18.7	15.6	12.5	9.4	2.1	1.4	1.1	0.86
AI $ 21.57 AIC $ 23.39	AI11005 AIC11005 (50) BROWN	30	UC	0.43	55	32	26	21	16.0	12.8	10.6	8.5	6.4	1.5	0.97	0.73	0.58
		40	XC	0.50	64	37	30	25	18.6	14.9	12.4	9.9	7.4	1.7	1.1	0.85	0.68
		50	XC	0.56	72	42	33	28	21	16.6	13.9	11.1	8.3	1.9	1.3	0.95	0.76
		60	XC	0.61	78	45	36	30	23	18.1	15.1	12.1	9.1	2.1	1.4	1.0	0.83
		70	VC	0.66	84	49	39	33	25	19.6	16.3	13.1	9.8	2.2	1.5	1.1	0.90
		80	VC	0.71	91	53	42	35	26	21	17.6	14.1	10.5	2.4	1.6	1.2	0.97
		90	VC	0.75	96	56	45	37	28	22	18.6	14.9	11.1	2.6	1.7	1.3	1.0
		100	VC	0.79	101	59	47	39	29	23	19.6	15.6	11.7	2.7	1.8	1.3	1.1
AI $ 21.57 AIC $ 23.39	AI11006 AIC11006 (50) GRAY	30	UC	0.52	67	39	31	26	19.3	15.4	12.9	10.3	7.7	1.8	1.2	0.88	0.71
		40	UC	0.60	77	45	36	30	22	17.8	14.9	11.9	8.9	2.0	1.4	1.0	0.82
		50	XC	0.67	86	50	40	33	25	19.9	16.6	13.3	9.9	2.3	1.5	1.1	0.91
		60	XC	0.73	93	54	43	36	27	22	18.1	14.5	10.8	2.5	1.7	1.2	0.99
		70	XC	0.79	101	59	47	39	29	23	19.6	15.6	11.7	2.7	1.8	1.3	1.1
		80	VC	0.85	109	63	50	42	32	25	21	16.8	12.6	2.9	1.9	1.4	1.2
		90	VC	0.90	115	67	53	45	33	27	22	17.8	13.4	3.1	2.0	1.5	1.2
		100	VC	0.95	122	71	56	47	35	28	24	18.8	14.1	3.2	2.2	1.6	1.3
AI $ 21.57 AIC $ 23.39	AI11008 AIC11008 (50) WHITE	30	UC	0.69	88	51	41	34	26	20	17.1	13.7	10.2	2.3	1.6	1.2	0.94
		40	UC	0.80	102	59	48	40	30	24	19.8	15.8	11.9	2.7	1.8	1.4	1.1
		50	XC	0.89	114	66	53	44	33	26	22	17.6	13.2	3.0	2.0	1.5	1.2
		60	XC	0.98	125	73	58	49	36	29	24	19.4	14.6	3.3	2.2	1.7	1.3
		70	XC	1.06	136	79	63	52	39	31	26	21	15.7	3.6	2.4	1.8	1.4
		80	VC	1.13	145	84	67	56	42	34	28	22	16.8	3.8	2.6	1.9	1.5
		90	VC	1.20	154	89	71	59	45	36	30	24	17.8	4.1	2.7	2.0	1.6
		100	VC	1.26	161	94	75	62	47	37	31	25	18.7	4.3	2.9	2.1	1.7
AI $ 21.57 AIC $ 23.39	AIC11010 LIGHT BLUE	30	UC	0.87	111	65	52	43	32	26	22	17.2	12.9	3.0	2.0	1.5	1.2
		40	UC	1.00	128	74	59	50	37	30	25	19.8	14.9	3.4	2.3	1.7	1.4
		50	XC	1.12	143	83	67	55	42	33	28	22	16.6	3.8	2.5	1.9	1.5
		60	XC	1.22	156	91	72	60	45	36	30	24	18.1	4.1	2.8	2.1	1.7
		70	XC	1.32	169	98	78	65	49	39	33	26	19.6	4.5	3.0	2.2	1.8
		80	XC	1.41	180	105	84	70	52	42	35	28	21	4.8	3.2	2.4	1.9
		90	VC	1.50	192	111	89	74	56	45	37	30	22	5.1	3.4	2.6	2.0
		100	VC	1.58	202	117	94	78	59	47	39	31	23	5.4	3.6	2.7	2.1
AI $ 21.57 AIC $ 23.39	AIC11015 LIGHT GREEN	30	UC	1.30	166	97	77	64	48	39	32	26	19.3	4.4	2.9	2.2	1.8
		40	UC	1.50	192	111	89	74	56	45	37	30	22	5.1	3.4	2.6	2.0
		50	XC	1.68	215	125	100	83	62	50	42	33	25	5.7	3.8	2.9	2.3
		60	XC	1.84	236	137	109	91	68	55	46	36	27	6.3	4.2	3.1	2.5
		70	XC	1.98	253	147	118	98	74	59	49	39	29	6.7	4.5	3.4	2.7
		80	XC	2.12	271	157	126	105	79	63	52	42	31	7.2	4.8	3.6	2.9
		90	VC	2.25	288	167	134	111	84	67	56	45	33	7.7	5.1	3.8	3.1
		100	VC	2.37	303	176	141	117	88	70	59	47	35	8.1	5.4	4.0	3.2

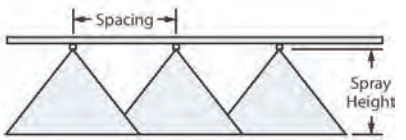
AIXR TEEJET AIR INDUCTION XR FLAT SPRAY TIPS

FEATURES:

- 110° wide angle, air induction tapered flat spray tip
- 2-piece UHMWPE polymer construction for excellent chemical and wear resistance
- Automatic cap alignment with 25612-*-NYR for sizes 015-06; 25598-*-NYR for sizes 08-10
- Wide operating pressure range: 15-90 PSI
- Depending on the chemical, produces large air-filled drops through a Venturi air aspirator resulting in less drift
- Compact size to prevent tip damage



CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
GOOD	EXCELLENT	EXCELLENT



Optimum Spray Height



List	PSI	DROP SIZE	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	GPA @ 20" 4 MPH	GPA @ 20" 5 MPH	GPA @ 20" 6 MPH	GPA @ 20" 8 MPH	GPA @ 20" 10 MPH	GPA @ 20" 12 MPH	GPA @ 20" 15 MPH	GPA @ 20" 20 MPH	GALLONS PER 1000 SQ. FT. @ 20" 2 MPH	3 MPH	4 MPH	5 MPH
$ 11.76	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
AIXR110015 (100) GREEN	20	XC	0.11	14	8.2	6.5	5.4	4.1	3.3	2.7	2.2	1.6	0.37	0.25	0.19	0.15
	30	C	0.13	17	9.7	7.7	6.4	4.8	3.9	3.2	2.6	1.9	0.44	0.29	0.22	0.18
	40	C	0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20
	50	C	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23
	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
	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
	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
$ 11.76	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
AIXR11002 (50) YELLOW	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
	75	M	0.27	35	20	16.0	13.4	10.0	8.0	6.7	5.3	4.0	0.92	0.61	0.46	0.37
	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
$ 11.76	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
AIXR110025 (50) PURPLE	20	XC	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24
	30	XC	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30
	40	VC	0.25	32	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34
	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
	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
	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
$ 11.76	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
AIXR11003 (50) BLUE	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
	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
	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
$ 11.76	15	UC	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33
AIXR11004 (50) RED	20	XC	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38
	30	XC	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48
	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
	75	C	0.55	70	41	33	27	20	16.3	13.6	10.9	8.2	1.9	1.2	0.94	0.75
	90	C	0.60	77	45	36	30	22	17.8	14.9	11.9	8.9	2.0	1.4	1.0	0.82
$ 11.76	15	UC	0.31	40	23	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.1	0.70	0.53	0.42
AIXR11005 (50) BROWN	20	XC	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48
	30	XC	0.43	55	32	26	21	16.0	12.8	10.6	8.5	6.4	1.5	0.97	0.73	0.58
	40	XC	0.50	64	37	30	25	18.6	14.9	12.4	9.9	7.4	1.7	1.1	0.85	0.68
	50	VC	0.56	72	42	33	28	21	16.6	13.9	11.1	8.3	1.9	1.3	0.95	0.76
	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
	75	C	0.68	87	50	40	34	25	20	16.8	13.5	10.1	2.3	1.5	1.2	0.92
	90	C	0.75	96	56	45	37	28	22	18.6	14.9	11.1	2.6	1.7	1.3	1.0
$ 11.76	15	UC	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50
AIXR11006 (50) GRAY	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
	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
	75	C	0.82	105	61	49	41	30	24	20	16.2	12.2	2.8	1.9	1.4	1.1
	90	C	0.90	115	67	53	45	33	27	22	17.8	13.4	3.1	2.0	1.5	1.2
$ 13.81	15	—	0.49	63	36	29	24	18.2	14.6	12.1	9.7	7.3	1.7	1.1	0.83	0.67
AIXR11008 (50) WHITE	20	—	0.57	73	42	34	28	21	16.9	14.1	11.3	8.5	1.9	1.3	0.97	0.78
	30	—	0.69	88	51	41	34	26	20	17.1	13.7	10.2	2.3	1.6	1.2	0.94
	40	—	0.80	102	59	48	40	30	24	19.8	15.8	11.9	2.7	1.8	1.4	1.1
	50	—	0.89	114	66	53	44	33	26	22	17.6	13.2	3.0	2.0	1.5	1.2
	60	—	0.98	125	72	58	49	36	29	24	19.4	14.6	3.3	2.2	1.7	1.3
	75	—	1.10	141	82	65	54	41	33	27	22	16.3	3.7	2.5	1.9	1.5
	90	—	1.20	154	89	71	59	45	36	30	24	17.8	4.1	2.7	2.0	1.6
$ 13.81	15	—	0.61	78	45	36	30	23	18.1	15.1	12.1	9.1	2.1	1.4	1.0	0.83
AIXR11010 LIGHT BLUE	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
	60	—	1.22	156	91	72	60	45	36	30	24	18.1	4.2	2.8	2.1	1.7
	75	—	1.37	175	102	81	68	51	41	34	27	20	4.7	3.1	2.3	1.9
	90	—	1.50	192	111	89	74	56	45	37	30	22	5.1	3.4	2.6	2.0

XR TEEJET EXTENDED RANGE FLAT SPRAY TIPS

FEATURES:

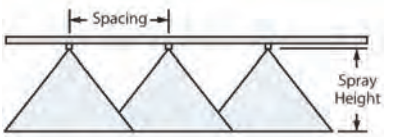
- 80° or 110° spray angle with VisiFlo® color-coding
- Ideal for rigs with sprayer controllers
- Automatic cap alignment with 25612-*-NYR for sizes 01-08; 25610-*-NYR for sizes 10-15
- Reduces dift in lower pressures, better coverage at higher pressures
- Operating pressure range: 15-60 PSI
- Orifice size 10-15 only available in stainless steel



PWM Approved

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

80°	30"
110°	20"

List		PSI	DROP SIZE 80°	DROP SIZE 110°	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	20" GPA 4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	GALLONS PER 1000 SQ. FT. 2 MPH	3 MPH	4 MPH	5 MPH
$ 11.30	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
$ 11.30	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	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
		30	F	F	0.13	17	9.7	7.7	6.4	4.8	3.9	3.2	2.6	1.9	0.44	0.29	0.22	0.18
		40	F	F	0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20
		50	F	F	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23
		60	F	F	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24
$ 11.30	XR8002 XR11002 (50)	15	M	M	0.12	15	8.9	7.1	5.9	4.5	3.6	3.0	2.4	1.8	0.41	0.27	0.20	0.16
		20	M	F	0.14	18	10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1	0.48	0.32	0.24	0.19
		30	F	F	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23
		40	F	F	0.20	26	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27
		50	F	F	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30
		60	F	F	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33
$ 11.30	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	F	F	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30
		40	F	F	0.25	32	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34
		50	F	F	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38
		60	F	F	0.31	40	23	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.1	0.70	0.53	0.42
$ 11.30	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	F	F	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35
		40	F	F	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41
		50	F	F	0.34	44	25	20	16.8	12.6	10.1	8.4	6.7	5.0	1.2	0.77	0.58	0.46
		60	F	F	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50
$ 11.30	XR80035 (50)	15	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
		20	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
		30	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
		40	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
		50	F		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	F		0.43	55	32	26	21	16.0	12.8	10.6	8.5	6.4	1.5	0.97	0.73	0.58
$ 11.30	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
$ 11.30	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	F	F	0.61	78	45	36	30	23	18.1	15.1	12.1	9.1	2.1	1.4	1.0	0.83
$ 11.30	XR8006 XR11006 (50)	15	C	C	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50
		20	C	M	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
$ 11.30	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
$ 13.40	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	VC	C	0.71	91	53	42	35	26	21	17.6	14.1	10.5	2.4	1.6	1.2	0.97
		30	C	C	0.87	111	65	52	43	32	26	22	17.2	12.9	3.0	2.0	1.5	1.2
		40	C	M	1.00	128	74	59	50	37	30	25	19.8	14.9	3.4	2.3	1.7	1.4
		50	C	M	1.12	143	83	67	55	42	33	28	22	16.6	3.8	2.5	1.9	1.5
		60	C	M	1.22	156	91	72	60	45	36	30	24	18.1	4.1	2.8	2.1	1.7
$ 13.40	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	VC	C	1.50	192	111	89	74	56	45	37	30	22	5.1	3.4	2.6	2.0
		50	C	C	1.68	215	125	100	83	62	50	42	33	25	5.7	3.8	2.9	2.3
		60	C	C	1.84	236	137	109	91	68	55	46	36	27	6.3	4.2	3.1	2.5

TURBO TWINJET TWIN FLAT SPRAY TIPS

FEATURES:

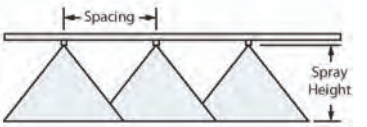
- Dual outlet design produces two 110° flat fan patterns with the angle between each spray pattern is 60°
- Molded polymer for excellent chemical and wear resistance
- For broadcast spraying where leaf coverage and canopy penetration is important
- Automatic cap alignment with 25612-*-NYR
- Droplet size is slightly larger than same size Turbo TeeJet providing less drift and increased coverage
- Ideal for use with automatic spray controllers
- Operating pressure range: 20-90 PSI

PWM Approved

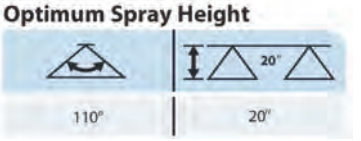


CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
EXCELLENT	EXCELLENT	VERY GOOD
VERY GOOD*	EXCELLENT*	EXCELLENT*

*At pressures below 30 PSI (2.0 bar)



Optimum Spray Height



List		PSI	DROP SIZE	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	20" GPA 4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	GALLONS PER 1000 SQ. FT. 2 MPH	3 MPH	4 MPH	5 MPH
$ 12.77	TTJ60-11002 (100) YELLOW	20	C	0.14	18	10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1	0.48	0.32	0.24	0.19
		30	C	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23
		40	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	M	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30
		60	M	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33
		70	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
		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
		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
$ 12.77	TTJ60-110025 (100) PURPLE	20	VC	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24
		30	C	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30
		40	C	0.25	32	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34
		50	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	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
		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
		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
$ 12.77	TTJ60-11003 (100) BLUE	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	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
		70	C	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54
		80	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
		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
$ 12.77	TTJ60-11004 (50) RED	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
		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
		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
		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
$ 12.77	TTJ60-11005 (50) BROWN	20	VC	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48
		30	C	0.43	55	32	26	21	16.0	12.8	10.6	8.5	6.4	1.5	0.97	0.73	0.58
		40	C	0.50	64	37	30	25	18.6	14.9	12.4	9.9	7.4	1.7	1.1	0.85	0.68
		50	C	0.56	72	42	33	28	21	16.6	13.9	11.1	8.3	1.9	1.3	0.95	0.76
		60	C	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
		80	C	0.71	91	53	42	35	26	21	17.6	14.1	10.5	2.4	1.6	1.2	0.97
		90	C	0.75	96	56	45	37	28	22	18.6	14.9	11.1	2.6	1.7	1.3	1.0
$ 12.77	TTJ60-11006 (50) GRAY	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
		60	C	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
		80	C	0.85	109	63	50	42	32	25	21	16.8	12.6	2.9	1.9	1.4	1.2
		90	C	0.90	115	67	53	45	33	27	22	17.8	13.4	3.1	2.0	1.5	1.2
$ 12.77	TTJ60-11008 (50) WHITE	20		0.57	73	42	34	28	21	16.9	14.1	11.3	8.5	1.9	1.3	0.97	0.78
		30		0.69	88	51	41	34	26	20	17.1	13.7	10.2	2.3	1.6	1.2	0.94
		40		0.80	102	59	48	40	30	24	19.8	15.8	11.9	2.7	1.8	1.4	1.09
		50		0.89	114	66	53	44	33	26	22	17.6	13.2	3.0	2.0	1.5	1.2
		60		0.98	125	73	58	49	36	29	24	19.4	14.6	3.3	2.2	1.7	1.3
		70		1.06	136	79	63	52	39	31	26	21	15.7	3.6	2.4	1.8	1.4
		80		1.13	145	84	67	56	42	34	28	22	16.8	3.8	2.6	1.9	1.5
		90		1.20	154	89	71	59	45	36	30	24	17.8	4.1	2.7	2.0	1.6
$ 12.77	TTJ60-11010 (50) LIGHT BLUE	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
		60		1.22	156	91	72	60	45	36	30	24	18.1	4.1	2.8	2.1	1.7
		70		1.32	169	98	78	65	49	39	33	26	19.6	4.5	3.0	2.2	1.8
		80		1.41	180	105	84	70	52	42	35	28	21	4.8	3.2	2.4	1.9
		90		1.50	192	111	89	74	56	45	37	30	22	5.1	3.4	2.6	2.0

AIR INDUCTION TURBO TWINJET TWIN FLAT TIPS

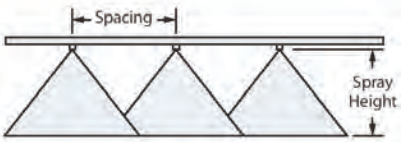
FEATURES:

- Air induction with dual 110° flat fan patterns
- Good coverage with increased canopy penetration
- Best suited for postemergence applications
- Automatic cap alignment with 25598-*-NYR for sizes 015-06; 114502A-*-CELR for sizes 08-15
- 60° between the forward and back spray patterns
- Excellent drift control with coarse to very coarse droplets
- Operating pressure range: 20-90 PSI

PWM Approved



CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
GOOD	EXCELLENT	EXCELLENT



Optimum Spray Height



List		PSI	DROP SIZE	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	GPA @ 20"								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
$ 13.25	AITTJ60-11002VP (100) YELLOW	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
		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
$ 13.25	AITTJ60-110025VP (100) PURPLE	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
		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
$ 13.25	AITTJ60-11003VP (50) BLUE	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
		80	C	0.42	54	31	25	21	15.6	12.5	10.4	8.3	6.2	1.4	0.95	0.71	0.57
		90	C	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61
$ 13.25	AITTJ60-11004VP (50) RED	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
		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
		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
$ 13.25	AITTJ60-11005VP (50) BROWN	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	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	C	0.66	84	49	39	33	25	19.6	16.3	13.1	9.8	2.2	1.5	1.1	0.90
		80	C	0.71	91	53	42	35	26	21	17.6	14.1	10.5	2.4	1.6	1.2	0.97
		90	C	0.75	96	56	45	37	28	22	18.6	14.9	11.1	2.6	1.7	1.3	1.0
$ 13.25	AITTJ60-11006VP (50) GRAY	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	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	C	0.79	101	59	47	39	29	23	19.6	15.6	11.7	2.7	1.8	1.3	1.1
		80	C	0.85	109	63	50	42	32	25	21	16.8	12.6	2.9	1.9	1.4	1.2
		90	C	0.90	115	67	53	45	33	27	22	17.8	13.4	3.1	2.0	1.5	1.2
$ 15.24	AITTJ60-11008VP (50) WHITE	20	UC	0.57	73	42	34	28	21	16.9	14.1	11.3	8.5	1.9	1.3	0.97	0.78
		30	UC	0.69	88	51	41	34	26	20	17.1	13.7	10.2	2.3	1.6	1.2	0.94
		40	XC	0.80	102	59	48	40	30	24	19.8	15.8	11.9	2.7	1.8	1.4	1.09
		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	C	1.20	154	89	71	59	45	36	30	24	17.8	4.1	2.7	2.0	1.6
$ 15.24	AITTJ60-11010VP (50) LIGHT BLUE	20	UC	0.71	91	53	42	35	26	21	17.6	14.1	10.5	2.4	1.6	1.2	0.97
		30	UC	0.87	111	65	52	43	32	26	22	17.2	12.9	3.0	2.0	1.5	1.2
		40	UC	1.00	128	74	59	50	37	30	25	19.8	14.9	3.4	2.3	1.7	1.4
		50	XC	1.12	143	83	67	55	42	33	28	22	16.6	3.8	2.5	1.9	1.5
		60	XC	1.22	156	91	72	60	45	36	30	24	18.1	4.1	2.8	2.1	1.7
		70	XC	1.32	169	98	78	65	49	39	33	26	19.6	4.5	3.0	2.2	1.8
		80	XC	1.41	180	105	84	70	52	42	35	28	21	4.8	3.2	2.4	1.9
		90	VC	1.50	192	111	89	74	56	45	37	30	22	5.1	3.4	2.6	2.0
$ 15.24	AITTJ60-11015VP (50) LIGHT GREEN	20	UC	1.06	136	79	63	52	39	31	26	21	15.7	3.6	2.4	1.8	1.4
		30	UC	1.30	166	97	77	64	48	39	32	26	19.3	4.4	2.9	2.2	1.8
		40	UC	1.50	192	111	89	74	56	45	37	30	22	5.1	3.4	2.6	2.0
		50	XC	1.68	215	125	100	83	62	50	42	33	25	5.7	3.8	2.9	2.3
		60	XC	1.84	236	137	109	91	68	55	46	36	27	6.3	4.2	3.1	2.5
		70	XC	1.98	253	147	118	98	74	59	49	39	29	6.7	4.5	3.4	2.7
		80	VC	2.12	271	157	126	105	79	63	52	42	31	7.2	4.8	3.6	2.9
		90	VC	2.25	288	167	134	111	84	67	56	45	33	7.7	5.1	3.8	3.1

TURBO TEEJET WIDE ANGLE FLAT SPRAY TIPS

FEATURES:

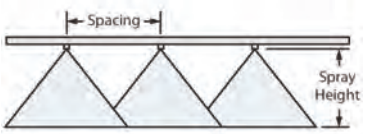
- 110° tapered edge wide angle spray pattern for uniform coverage
- Large, rounded internal passage to minimize clogging
- Superior wear characteristics
- Automatic cap alignment with 25612-*-NYR for sizes 01-08; 114502A-*-CELR for sizes 10-12
- Unique internal configuration means substantially longer wear life
- Excellent resistance to corrosive solutions
- Operating pressure range: 15-90 PSI

PWM Approved

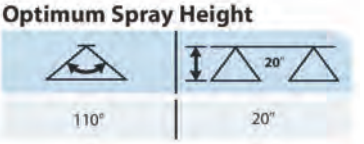


CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
VERY GOOD	VERY GOOD	VERY GOOD
GOOD*	EXCELLENT*	VERY GOOD*

*At pressures below 30 PSI (2.0 bar)



Optimum Spray Height



List		PSI	DROP SIZE	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	20" GPA 4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	GALLONS PER 1000 SQ. FT. 2 MPH	3 MPH	4 MPH	5 MPH
$ 10.65	TT11001 (100) ORANGE	15	C	0.061	7.8	4.5	3.6	3.0	2.3	1.8	1.5	1.2	0.91	0.21	0.14	0.10	0.08
		20	C	0.071	9.1	5.3	4.2	3.5	2.6	2.1	1.8	1.4	1.1	0.24	0.16	0.12	0.10
		30	M	0.087	11	6.5	5.2	4.3	3.2	2.6	2.2	1.7	1.3	0.30	0.20	0.15	0.12
		40	M	0.10	13	7.4	5.9	5.0	3.7	3.0	2.5	2.0	1.5	0.34	0.23	0.17	0.14
		50	M	0.11	14	8.2	6.5	5.4	4.1	3.3	2.7	2.2	1.6	0.37	0.25	0.19	0.15
		60	F	0.12	15	8.9	7.1	5.9	4.5	3.6	3.0	2.4	1.8	0.41	0.27	0.20	0.16
		75	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
		90	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
$ 10.65	TT110015 (100) GREEN	15	VC	0.092	12	6.8	5.5	4.6	3.4	2.7	2.3	1.8	1.4	0.31	0.21	0.16	0.13
		20	C	0.11	14	8.2	6.5	5.4	4.1	3.3	2.7	2.2	1.6	0.37	0.25	0.19	0.15
		30	M	0.13	17	9.7	7.7	6.4	4.8	3.9	3.2	2.6	1.9	0.44	0.29	0.22	0.18
		40	M	0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20
		50	M	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23
		60	F	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24
		75	F	0.21	27	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.71	0.48	0.36	0.29
		90	F	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
$ 10.65	TT11002 (50) YELLOW	15	VC	0.12	15	8.9	7.1	5.9	4.5	3.6	3.0	2.4	1.8	0.41	0.27	0.20	0.16
		20	VC	0.14	18	10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1	0.48	0.32	0.24	0.19
		30	C	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23
		40	M	0.20	26	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27
		50	M	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30
		60	M	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33
		75	F	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
		90	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
$ 10.65	TT110025 (100) PURPLE	15	VC	0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20
		20	VC	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24
		30	C	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30
		40	M	0.25	32	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34
		50	M	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38
		60	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
		75	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
		90	F	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
$ 10.65	TT11003 (50) BLUE	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
		60	M	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50
		75	M	0.41	52	30	24	20	15.2	12.2	10.1	8.1	6.1	1.4	0.93	0.70	0.56
		90	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
$ 10.65	TT11004 (50) RED	15	XC	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33
		20	VC	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38
		30	C	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48
		40	C	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54
		50	M	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61
		60	M	0.49	63	36	29	24	18.2	14.6	12.1	9.7	7.3	1.7	1.1	0.83	0.67
		75	M	0.55	70	41	33	27	20	16.3	13.6	10.9	8.2	1.9	1.2	0.94	0.75
		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
$ 10.65	TT11005 (50) BROWN	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
		60	M	0.61	78	45	36	30	23	18.1	15.1	12.1	9.1	2.1	1.4	1.0	0.83
		75	M	0.68	87	50	40	34	25	20	16.8	13.5	10.1	2.3	1.5	1.2	0.92
		90	M	0.75	96	56	45	37	28	22	18.6	14.9	11.1	2.6	1.7	1.3	1.0
$ 10.65	TT11006 (50) GRAY	15	XC	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50
		20	VC	0.42	54	31	25	21	15.6	12.5	10.4	8.3	6.2	1.4	0.95	0.71	0.57
		30	VC	0.52	67	39	31	26	19.3	15.4	12.9	10.3	7.7	1.8	1.2	0.88	0.71
		40	VC	0.60	77	45	36	30	22	17.8	14.9	11.9	8.9	2.0	1.4	1.0	0.82
		50	C	0.67	86	50	40	33	25	19.9	16.6	13.3	9.9	2.3	1.5	1.1	0.91
		60	C	0.73	93	54	43	36	27	22	18.1	14.5	10.8	2.5	1.7	1.2	0.99
		75	C	0.82	105	61	49	41	30	24	20	16.2	12.2	2.8	1.9	1.4	1.1
		90	M	0.90	115	67	53	45	33	27	22	17.8	13.4	3.1	2.0	1.5	1.2
$ 10.65	TT11008 (50) WHITE	15	XC	0.49	63	36	29	24	18.2	14.6	12.1	9.7	7.3	1.7	1.1	0.83	0.67
		20	VC	0.57	73	42	34	28	21	16.9	14.1	11.3	8.5	1.9	1.3	0.97	0.78
		30	VC	0.69	88	51	41	34	26	20	17.1	13.7	10.2	2.3	1.6	1.2	0.94
		40	C	0.80	102	59	48	40	30	24	19.8	15.8	11.9	2.7	1.8	1.4	1.1
		50	C	0.89	114	66	53	44	33	26	22	17.6	13.2	3.0	2.0	1.5	1.2
		60	C	0.98	125	73	58	49	36	29	24	19.4	14.6	3.3	2.2	1.7	1.3
		75	M	1.10	141	82	65	54	41	33	27	22	16.3	3.7	2.5	1.9	1.5
		90	M	1.20	154	89	71	59	45	36	30	24	17.8	4.1	2.7	2.0	1.6
$ 12.77	TT11010 LIGHT BLUE	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
		60	—	1.22	156	91	72	60	45	36	30	24	18.1	4.2	2.8	2.1	1.7
		75	—	1.37	175	102	81	68	51	41	34	27	20	4.6	3.1	2.3	1.87
		90	—	1.50	192	111	89	74	56	45	37	30	22	5.1	3.4	2.6	2.0
$ 12.77	TT11012 MAGENTA	15	—	0.73	93	54	43	36	27	22	18.1	14.5	10.8	2.5	1.7	1.2	0.99
		20	—	0.85	109	63	50	42	32	25	21	16.8	12.6	2.9	1.9	1.5	1.2
		30	—	1.04	133	77	62	51	39	31	26	21	15.4	3.5	2.4	1.8	1.4
		40	—	1.20	154	89	71	59	45	36	30	24	17.8	4.1	2.7	2.0	1.6
		50	—	1.34	172	99	80	66	50	40	33	27	19.9	4.6	3.0	2.3	1.8
		60	—	1.47	188	109	87	73	55	44	36	29	22	5.0	3.3	2.5	2.0
		75	—	1.64	210	122	97	81	61	49	41	32	24	5.6	3.7	2.8	2.2
		90	—	1.80	230	134	107	89	67	53	45	36	27	6.1	4.1	3.1	2.5

ACCUPULSE TWINJET TWIN FLAT SPRAY TIPS

FEATURES:

- Non-air induction twin spray tip that produces highly drift-resistant droplets
- Specifically designed for use on sprayers equipped with PWM spray tip control
- Optimal for burndown, pre-emerge, and post-emerge systemic applications
- Alignment with 25612-*-NYR
- Acetal construction for long wear life and excellent chemical resistance
- Can also be use for non-PWM applications where maximum drift control is desired
- Capacities of 015-15

PWM Approved



List		PSI	DROP SIZE	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ/MIN	20" GPA* 4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	14 MPH	16 MPH	20 MPH	GALLONS PER 1000 SQ. FT.* 2 MPH	3 MPH	4 MPH	5 MPH
$ 18.21	APTJ-110015VP (100) GREEN	20	UC	0.115	15	8.5	6.8	5.7	4.3	3.4	2.8	2.4	2.1	1.7	0.39	0.26	0.20	0.16
		30	UC	0.134	17	9.9	8.0	6.6	5.0	4.0	3.3	2.8	2.5	2.0	0.46	0.30	0.23	0.18
		40	UC	0.150	19	11.1	8.9	7.4	5.6	4.5	3.7	3.2	2.8	2.2	0.51	0.34	0.26	0.20
		50	UC	0.163	21	12.1	9.7	8.1	6.1	4.8	4.0	3.5	3.0	2.4	0.55	0.37	0.28	0.22
		60	XC	0.175	22	13.0	10.4	8.7	6.5	5.2	4.3	3.7	3.2	2.6	0.60	0.40	0.30	0.24
		70	XC	0.185	24	13.7	11.0	9.2	6.9	5.5	4.6	3.9	3.4	2.7	0.63	0.42	0.31	0.25
		80	XC	0.195	25	14.5	11.6	9.7	7.2	5.8	4.8	4.1	3.6	2.9	0.66	0.44	0.33	0.27
		90	XC	0.204	26	15.1	12.1	10.1	7.6	6.1	5.0	4.3	3.8	3.0	0.7	0.46	0.35	0.28
		100	XC	0.212	27	15.7	12.6	10.5	7.9	6.3	5.2	4.5	3.9	3.1	0.7	0.48	0.36	0.29
$ 18.21	APTJ-11002VP (100) YELLOW	20	UC	0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.2	2.8	2.2	0.51	0.34	0.26	0.20
		30	UC	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.8	3.3	2.7	0.61	0.41	0.31	0.24
		40	UC	0.20	26	14.9	11.9	9.9	7.4	5.9	5.0	4.2	3.7	3.0	0.68	0.45	0.34	0.27
		50	UC	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.7	4.1	3.3	0.75	0.50	0.37	0.30
		60	UC	0.23	29	17.1	13.7	11.4	8.5	6.8	5.7	4.9	4.3	3.4	0.78	0.52	0.39	0.31
		70	XC	0.25	32	18.6	14.9	12.4	9.3	7.4	6.2	5.3	4.6	3.7	0.85	0.57	0.43	0.34
		80	XC	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.5	4.8	3.9	0.88	0.59	0.44	0.35
		90	XC	0.27	35	20	16.0	13.4	10.0	8.0	6.7	5.7	5.0	4.0	0.9	0.61	0.46	0.37
		100	XC	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.9	5.2	4.2	1.0	0.63	0.48	0.38
$ 18.21	APTJ-110025VP (100) PURPLE	20	UC	0.19	24	14.1	11.3	9.4	7.1	5.6	4.7	4.0	3.5	2.8	0.65	0.43	0.32	0.26
		30	UC	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.7	4.1	3.3	0.75	0.50	0.37	0.30
		40	UC	0.25	32	18.6	14.9	12.4	9.3	7.4	6.2	5.3	4.6	3.7	0.85	0.57	0.43	0.34
		50	UC	0.27	35	20	16.0	13.4	10.0	8.0	6.7	5.7	5.0	4.0	0.92	0.61	0.46	0.37
		60	UC	0.29	37	22	17.2	14.4	10.8	8.6	7.2	6.2	5.4	4.3	1.0	0.66	0.49	0.39
		70	XC	0.31	40	23	18.4	15.3	11.5	9.2	7.7	6.6	5.8	4.6	1.1	0.70	0.53	0.42
		80	XC	0.33	42	25	19.6	16.3	12.3	9.8	8.2	7.0	6.1	4.9	1.1	0.75	0.56	0.45
		90	XC	0.34	44	25	20	16.8	12.6	10.1	8.4	7.2	6.3	5.0	1.2	0.77	0.58	0.46
		100	XC	0.35	45	26	21	17.3	13.0	10.4	8.7	7.4	6.5	5.2	1.2	0.79	0.60	0.48
$ 18.21	APTJ-11003VP (50) BLUE	20	UC	0.23	29	17.1	13.7	11.4	8.5	6.8	5.7	4.9	4.3	3.4	0.78	0.52	0.39	0.31
		30	UC	0.27	35	20	16.0	13.4	10.0	8.0	6.7	5.7	5.0	4.0	0.92	0.61	0.46	0.37
		40	UC	0.30	38	22	17.8	14.9	11.1	8.9	7.4	6.4	5.6	4.5	1.0	0.68	0.51	0.41
		50	UC	0.33	42	25	19.6	16.3	12.3	9.8	8.2	7.0	6.1	4.9	1.1	0.75	0.56	0.45
		60	UC	0.35	45	26	21	17.3	13.0	10.4	8.7	7.4	6.5	5.2	1.2	0.79	0.60	0.48
		70	XC	0.37	47	27	22	18.3	13.7	11.0	9.2	7.8	6.9	5.5	1.3	0.84	0.63	0.50
		80	XC	0.39	50	29	23	19.3	14.5	11.6	9.7	8.3	7.2	5.8	1.3	0.88	0.66	0.53
		90	XC	0.41	52	30	24	20	15.2	12.2	10.1	8.7	7.6	6.1	1.4	0.9	0.70	0.56
		100	XC	0.42	54	31	25	21	15.6	12.5	10.4	8.9	7.8	6.2	1.4	1.0	0.71	0.57
$ 18.21	APTJ-11004VP (50) RED	20	UC	0.31	40	23	18.4	15.3	11.5	9.2	7.7	6.6	5.8	4.6	1.05	0.70	0.53	0.42
		30	UC	0.36	46	27	21	17.8	13.4	10.7	8.9	7.6	6.7	5.3	1.2	0.82	0.61	0.49
		40	UC	0.40	51	30	24	19.8	14.9	11.9	9.9	8.5	7.4	5.9	1.4	0.91	0.68	0.54
		50	UC	0.43	55	32	26	21	16.0	12.8	10.6	9.1	8.0	6.4	1.5	1.0	0.73	0.58
		60	UC	0.47	60	35	28	23	17.4	14.0	11.6	10.0	8.7	7.0	1.6	1.1	0.80	0.64
		70	XC	0.49	63	36	29	24	18.2	14.6	12.1	10.4	9.1	7.3	1.7	1.1	0.83	0.67
		80	XC	0.52	67	39	31	26	19.3	15.4	12.9	11.0	9.7	7.7	1.8	1.2	0.88	0.71
		90	XC	0.54	69	40	32	27	20	16.0	13.4	11.5	10.0	8.0	1.8	1.2	0.9	0.73
		100	XC	0.56	72	42	33	28	21	16.6	13.9	11.9	10.4	8.3	1.9	1.3	1.0	0.76
$ 18.21	APTJ-11005VP (50) BROWN	20	UC	0.38	49	28	23	18.8	14.1	11.3	9.4	8.1	7.1	5.6	1.3	0.86	0.65	0.52
		30	UC	0.45	58	33	27	22	16.7	13.4	11.1	9.5	8.4	6.7	1.5	1.02	0.77	0.61
		40	UC	0.50	64	37	30	25	18.6	14.9	12.4	10.6	9.3	7.4	1.7	1.1	0.85	0.68
		50	UC	0.55	70	41	33	27	20	16.3	13.6	11.7	10.2	8.2	1.9	1.2	0.94	0.75
		60	UC	0.59	76	44	35	29	22	17.5	14.6	12.5	11.0	8.8	2.0	1.3	1.0	0.80
		70	XC	0.63	81	47	37	31	23	18.7	15.6	13.4	11.7	9.4	2.1	1.4	1.1	0.86
		80	XC	0.66	84	49	39	33	25	19.6	16.3	14.0	12.3	9.8	2.2	1.5	1.1	0.90
		90	XC	0.69	88	51	41	34	26	20	17.1	14.6	12.8	10.2	2.3	1.6	1.2	0.9
		100	XC	0.72	92	53	43	36	27	21	17.8	15.3	13.4	10.7	2.4	1.6	1.2	1.0
$ 18.21	APTJ-11006VP (50) GRAY	20	UC	0.45	58	33	27	22	16.7	13.4	11.1	9.5	8.4	6.7	1.5	1.02	0.77	0.61
		30	UC	0.53	68	39	31	26	19.7	15.7	13.1	11.2	9.8	7.9	1.8	1.2	0.90	0.72
		40	UC	0.60	77	45	36	30	22	17.8	14.9	12.7	11.1	8.9	2.0	1.4	1.0	0.82
		50	UC	0.66	84	49	39	33	25	19.6	16.3	14.0	12.3	9.8	2.2	1.5	1.1	0.90
		60	UC	0.71	91	53	42	35	26	21	17.6	15.1	13.2	10.5	2.4	1.6	1.2	0.97
		70	XC	0.76	97	56	45	38	28	23	18.8	16.1	14.1	11.3	2.6	1.7	1.3	1.0
		80	XC	0.80	102	59	48	40	30	24	19.8	17.0	14.9	11.9	2.7	1.8	1.4	1.1
		90	XC	0.84	108	62	50	42	31	25	21	17.8	15.6	12.5	2.9	1.9	1.4	1.1
		100	XC	0.88	113	65	52	44	33	26	22	18.7	16.3	13.1	3.0	2.0	1.5	1.2
$ 18.21	APTJ-11008VP (50) WHITE	20	UC	0.60	77	45	36	30	22	17.8	14.9	12.7	11.1	8.9	2.0	1.4	1.02	0.82
		30	UC	0.71	91	53	42	35	26	21	17.6	15.1	13.2	10.5	2.4	1.6	1.2	0.97
		40	UC	0.80	102	59	48	40	30	24	19.8	17.0	14.9	11.9	2.7	1.8	1.4	1.1
		50	UC	0.88	113	65	52	44	33	26	22	18.7	16.3	13.1	3.0	2.0	1.5	1.2
		60	UC	0.95	122	71	56	47	35	28	24	20	17.6	14.1	3.2	2.2	1.6	1.3
		70	XC	1.02	131	76	61	50	38	30	25	22	18.9	15.1	3.5	2.3	1.7	1.4
		80	XC	1.08	138	80	64	53	40	32	27	23	20	16.0	3.7	2.4	1.8	1.5
		90	XC	1.13	145	84	67	56	42	34	28	24	21	16.8	3.8	2.6	1.9	1.5
		100	XC	1.18	151	88	70	58	44	35	29	25	22	17.5	4.0	2.7	2.0	1.6

TURBO FLOODJET/ FLOODJET



TK-VS

FEATURES:

- Large, round orifice reduces clogging
- Stainless steel with VisiFlo® color-coding
- Alignment with 25600-*-NYR



TF-VS

TK-VS Stainless w/ VisiFlo Coding **LIST $ 21.34**

TK-SS Stainless Steel **LIST $ 20.22**

TF-VS Stainless w/ VisiFlo Coding **LIST $ 21.34**

TF-VP Polymer **LIST $ 4.89**

TYPE		Liquid	Capacity	GALLONS PER ACRE -- 40" SPACING								
FloodJet Tip No.	Color	Pressure in PSI	in GPM	4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	14 MPH	16 MPH	20 MPH
TK-VS1	Stainless	10	.10	3.7	3.0	2.5	1.9	1.5	1.2	1.1	.93	.74
		20	.14	5.3	4.2	3.5	2.6	2.1	1.8	1.5	1.3	1.1
		30	.17	6.4	5.1	4.3	3.2	2.6	2.1	1.8	1.6	1.3
		40	.20	7.4	5.9	5.0	3.7	3.0	2.5	2.1	1.9	1.5
TK-VS2 TF-*2	Red	10	.20	7.4	5.9	5.0	3.7	3.0	2.5	2.1	1.9	1.5
		20	.28	10.5	8.4	7.0	5.3	4.2	3.5	3.0	2.6	2.1
		30	.35	12.9	10.3	8.6	6.4	5.1	4.3	3.7	3.2	2.6
		40	.40	14.9	11.9	9.9	7.4	5.9	5.0	4.2	3.7	3.0
TK-VS2.5 TF-*2.5	Brown	10	.25	9.3	7.4	6.2	4.6	3.7	3.1	2.7	2.3	1.9
		20	.35	13.1	10.5	8.8	6.6	5.3	4.4	3.8	3.3	2.6
		30	.43	16.1	12.9	10.7	8.0	6.4	5.4	4.6	4.0	3.2
		40	.50	18.6	14.9	12.4	9.3	7.4	6.2	5.3	4.6	3.7
TK-VS3 TF-*3	Gray	10	.30	11.1	8.9	7.4	5.6	4.5	3.7	3.2	2.8	2.2
		20	.42	15.8	12.6	10.5	7.9	6.3	5.3	4.5	3.9	3.2
		30	.52	19.3	15.4	12.9	9.7	7.7	6.4	5.5	4.8	3.9
		40	.60	22	17.8	14.9	11.1	8.9	7.4	6.4	5.6	4.5
TK-VS4 TF-*4	White	10	.40	14.9	11.9	9.9	7.4	5.9	5.0	4.2	3.7	3.0
		20	.57	21	16.8	14.0	10.5	8.4	7.0	6.0	5.3	4.2
		30	.69	26	21	17.2	12.9	10.3	8.6	7.4	6.4	5.1
		40	.80	30	24	19.6	14.9	11.9	9.9	8.5	7.4	5.9
TK-VS5 TF-*5	L. Blue	10	.50	18.6	14.9	12.4	9.3	7.4	6.2	5.3	4.6	3.7
		20	.71	26	21	17.5	13.1	10.5	8.8	7.5	6.6	5.3
		30	.87	32	26	21	16.1	12.9	10.7	9.2	8.0	6.4
		40	1.0	37	30	25	18.6	14.9	12.4	10.6	9.3	7.4
TK-VS7.5 TF-*7.5	L. Green	10	.75	27	22	18.6	13.9	11.1	9.3	8.0	7.0	5.6
		20	1.1	39	32	26	19.7	15.8	13.1	11.3	9.8	7.9
		30	1.3	48	39	32	24	19.3	16.1	13.8	12.1	9.7
		40	1.5	56	45	37	28	22	18.6	15.9	13.9	11.1
TK-VS10 TF-*10	Black	10	1.0	37	30	25	18.6	14.9	12.4	10.6	9.3	7.4
		20	1.4	53	42	35	26	21	17.5	15.0	13.1	10.5
		30	1.7	64	51	43	32	26	21	18.4	16.1	12.9
		40	2.0	74	59	50	37	30	25	21	18.6	14.9
TK-SS15	Stainless	10	1.5	56	45	37	28	22	18.6	15.9	13.9	11.1
		20	2.1	79	63	53	39	32	26	23	19.7	15.8
		30	2.6	96	77	64	48	39	32	28	24	19.3
		40	3.0	111	89	74	56	45	37	32	28	22
TK-SS20	Stainless	10	2.0	74	59	50	37	30	25	21	18.6	14.9
		20	2.8	105	84	70	53	42	35	50	26	21
		30	3.5	129	103	86	64	51	43	37	32	26
		40	4.0	149	119	99	74	59	50	42	37	30
TK-SS30	Stainless	10	3.0	111	89	74	56	45	37	32	28	22
		20	4.2	158	126	105	79	63	53	45	39	32
		30	5.2	193	154	129	96	77	64	55	48	39
		40	6.0	223	178	149	111	89	74	64	56	45



TF-VP

STAINLESS THREADED NOZZLES

PART NO.	THREAD SIZE	LIST
1/4KSS5	¼	$ 31.15
1/4KSS7.5	¼	$ 31.15
1/4KSS10	¼	$ 31.15
1/4KSS15	¼	$ 31.15
1/4KSS18	¼	$ 31.15
1/4KSS20	¼	$ 31.15
1/4KSS22	¼	$ 31.15
1/4KSS24	¼	$ 31.15
1/4KSS27	¼	$ 31.15
3/8KSS30	⅜	$ 41.74
3/8KSS35	⅜	$ 41.74
3/8KSS45	⅜	$ 41.74
1/2KSS40	½	$ 50.49
1/2KSS50	½	$ 50.49
1/2KSS60	½	$ 50.49
1/2KSS120	½	$ 50.19
3/4KSS90	¾	$ 68.77
3/4KSS100	¾	$ 68.77
3/4KSS110	¾	$ 68.77
3/4KSS120	¾	$ 68.77
3/4KSS140	¾	$ 68.77
3/4KSS180	¾	$123.89
3/4KSS210	¾	$123.89



KSS- Male Pipe Threads

QUICK FLOODJET

Quick FloodJet®

Spray Tip Number	Color Code	Liquid Pressure in PSI	Capacity in GPM	GALLONS PER ACRE -- 40" SPACING 8 MPH	10 MPH	12 MPH	14 MPH	16 MPH	GALLONS PER ACRE -- 60" SPACING 8 MPH	10 MPH	12 MPH	14 MPH	16 MPH
QCK-SS20	White	10	2.0	37	30	25	21	18.6	25	19.8	16.5	14.1	12.4
		20	2.8	53	42	35	30	26	35	28	23	20	17.5
		30	3.5	64	51	43	37	32	43	34	29	25	21
		40	4.0	74	59	50	42	37	50	40	33	28	25
QCK-SS30	Yellow	10	3.0	56	45	37	32	28	37	30	25	21	18.6
		20	4.2	79	63	53	45	39	53	42	35	30	26
		30	5.2	96	77	64	55	48	64	51	43	37	32
		40	6.0	111	89	74	64	56	74	59	50	42	37
QCK-SS40	Red	10	4.0	74	59	50	42	37	50	40	33	28	25
		20	5.7	105	84	70	60	53	70	56	47	40	35
		30	6.9	129	103	86	73	64	86	69	57	49	43
		40	8.0	149	119	99	85	74	99	79	66	57	50
QCK-SS50	Gray	10	5.0	93	74	62	53	46	62	50	41	35	31
		20	7.1	131	105	88	75	66	88	70	58	50	44
		30	8.7	161	129	107	92	80	107	86	71	61	54
		40	10.0	186	149	124	106	93	124	99	83	71	62
QCK-SS60	Blue	10	6.0	111	89	74	64	56	74	59	50	42	37
		20	8.5	158	126	105	90	79	105	84	70	60	53
		30	10.4	193	154	129	110	96	129	103	86	73	64
		40	12.0	223	178	149	127	111	149	119	99	85	74
QCK-SS80	Black	10	8.0	149	119	99	85	74	99	79	66	57	50
		20	11.3	210	168	140	120	105	140	112	93	80	70
		30	13.9	257	206	171	147	129	171	137	114	98	86
		40	16.0	297	238	198	170	149	198	158	132	113	99
QCK-SS100	Light Blue	10	10.0	186	149	124	106	93	124	99	83	71	62
		20	14.1	263	210	175	150	131	175	140	117	100	88
		30	17.3	322	257	214	184	161	214	171	143	122	107
		40	20	371	297	248	212	186	248	198	165	141	124
QCK-SS120	Orange	10	12.0	223	178	149	127	111	149	119	99	85	74
		20	17.	315	252	210	180	158	210	168	140	120	105
		30	21	286	309	257	220	193	257	206	171	147	129
		40	24	446	356	297	255	223	297	238	198	170	149
QCK-SS150	Brown	10	15.0	278	223	186	159	139	186	149	124	106	93
		20	21	394	315	263	225	197	263	210	175	150	131
		30	26	482	386	322	276	241	322	257	214	184	161
		40	30		446	371	318	278	371	297	248	212	186
QCK-SS180	Green	10	18.0	334	267	223	191	167	223	178	149	127	111
		20	25	473	378	315	270	236	315	252	210	180	158
		30	31		463	386	331	289	386	309	257	220	193
		40	36			446	382	334	446	356	297	255	223
QCK-SS210	Purple	10	21.0	390	312	260	223	195	260	208	173	149	130
		20	30		441	368	315	276	368	294	245	210	184
		30	36			450	386	338	450	360	300	257	225
		40	42				446	390		416	347	297	260



No. QCK-SS --

Quick FloodJet Spray Tip

QCK SS 20 TO 40

LIST ... **$ 60.71**

QCK SS 50 TO 80

LIST ... **$ 66.38**

QCK SS 100 TO 120

LIST ... **$ 82.80**

QCK SS 150 TO 210

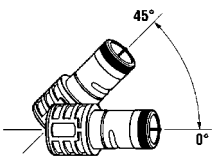
LIST ... **$ 130.56**

Quick Turbo FloodJet®

Exclusive Quick Turbo FloodJet Features:

- Patented turbulence chamber creates a dramatic improvement in pattern uniformity.
- Pre-orifice design produces larger droplets for reduced drift.
- Large, round orifice reduces clogging.
- Grooved side molding for automatic alignment with any quick-connect coupler.
- Stainless steel with color-coding for easy size identification.
- Available in standard sizes from 1.5 up to 24.0 GPM at pressures of 10 to 30 psi.

Tip Color	Nozzle Number	Liquid Pressure in PSI	Capacity 1 Nozzle in GPM	GALLONS PER ACRE 40" SPACING 10 MPH	12 MPH	14 MPH	16 MPH	GALLONS PER ACRE 60" SPACING 10 MPH	12 MPH	14 MPH	16 MPH
BEIGE	QCTF-VS15	10	1.5	22	18.6	15.9	13.9	14.9	12.4	10.6	9.3
		20	2.1	32	26	23	19.7	21	17.5	15.0	13.1
		30	2.6	39	32	28	24	26	21	18.4	16.1
WHITE	QCTF-VS20	10	2.0	30	25	21	18.6	19.8	16.5	14.1	12.4
		20	2.8	42	35	30	26	28	23	20	17.5
		30	3.5	51	43	37	32	34	29	25	21
YELLOW	QCTF-VS30	10	3.0	45	37	32	28	30	25	21	18.6
		20	4.2	63	53	45	39	42	35	30	26
		30	5.2	77	64	55	48	51	43	37	32
RED	QCTF-VS40	10	4.0	59	50	42	37	40	33	28	25
		20	5.7	84	70	60	53	56	47	40	35
		30	6.9	103	86	73	64	69	57	49	43
GRAY	QCTF-VS50	10	5.0	74	62	53	46	50	41	35	31
		20	7.1	105	88	75	66	70	58	50	44
		30	8.7	129	107	92	80	86	71	61	54
BLUE	QCTF-VS60	10	6.0	89	74	64	56	59	50	42	37
		20	8.5	126	105	90	79	84	70	60	53
		30	10.4	154	129	110	96	103	86	73	64
BLACK	QCTF-VS80	10	8.0	119	99	85	74	79	66	57	50
		20	11.3	168	140	120	105	112	93	80	70
		30	13.9	206	171	147	129	137	114	98	86
L. BLUE	QCTF-VS100	10	10.0	149	124	106	93	99	83	71	62
		20	14.1	210	175	150	131	140	117	100	88
		30	17.3	257	214	184	161	171	143	122	107
ORANGE	QCTF-VS120	10	12.0	178	149	127	111	119	99	85	74
		20	17.0	252	21	180	158	168	140	120	105
		30	21.0	309	257	220	193	206	171	147	129



Nozzle can be mounted between 0° and 45°

Suggested Minimum Spray Height*

Nozzle Spacing	Spray Height
40"	18 - 20"
60"	25 - 28"
120"	50 - 55"

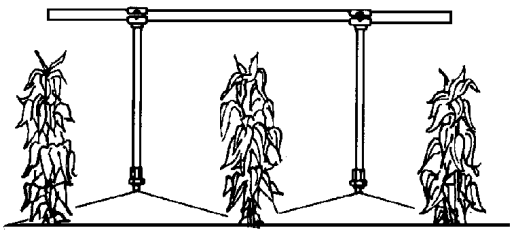
* When nozzle is mounted parallel to the ground

QCTF-VS 15 to 80 LIST ... **$ 56.45**

QCTF-VS 100 to 120 LIST ... **$ 77.04**

TEEJET DOUBLE OUTLET SPRAY TIPS





150° Series Stainless Steel

Suggested for post-directed applications with hose drops.

15001 - 9SS **LIST $ 26.63**

TIP NO. Strainer Screen Size	Liquid Pressure in PSI	Capacity 1 Nozzle in GPM	GALLONS PER ACRE--30" SPACING									GALLONS PER ACRE--40" SPACING								
			4 MPH	5 MPH	6 MPH	7 MPH	8 MPH	10 MPH	12 MPH	14 MPH	16 MPH	4 MPH	5 MPH	6 MPH	7 MPH	8 MPH	10 MPH	12 MPH	14 MPH	16 MPH
	20	.07	3.5	2.8	2.3	2.0	1.8	1.4	1.2	1.0	--	2.6	2.1	1.8	1.5	1.3	1.1	--	--	--
	25	.08	3.9	3.1	2.6	2.2	2.0	1.6	1.3	1.1	--	2.9	2.4	2.0	1.7	1.5	1.2	--	--	--
15001	30	.09	4.3	3.4	2.9	2.5	2.1	1.7	1.4	1.2	1.1	3.2	2.6	2.1	1.8	1.6	1.3	1.1	--	--
(200 Mesh)	40	.10	5.0	4.0	3.3	2.8	2.5	2.0	1.7	1.4	1.2	3.7	3.0	2.5	2.1	1.9	1.5	1.2	1.1	--
	50	.11	5.5	4.4	3.7	3.2	2.8	2.2	1.8	1.6	1.4	4.2	3.3	2.8	2.4	2.1	1.7	1.4	1.2	1.0
	60	.12	6.1	4.9	4.0	3.5	3.0	2.4	2.0	1.7	1.5	4.6	3.6	3.0	2.6	2.3	1.8	1.5	1.3	1.1
	20	.11	5.3	4.2	3.5	3.0	2.6	2.1	1.8	1.5	1.3	3.9	3.2	2.6	2.3	2.0	1.6	1.3	1.1	--
	25	.12	5.9	4.7	3.9	3.4	2.9	2.4	2.0	1.7	1.5	4.4	3.5	2.9	2.5	2.2	1.8	1.5	1.3	1.1
150015	30	.13	6.4	5.1	4.3	3.7	3.2	2.6	2.1	1.8	1.6	4.8	3.9	3.2	2.8	2.4	1.9	1.6	1.4	1.2
(100 Mesh)	40	.15	7.4	5.9	5.0	4.2	3.7	3.0	2.5	2.1	1.9	5.6	4.5	3.7	3.2	2.8	2.2	1.9	1.6	1.4
	50	.17	8.3	6.6	5.5	4.7	4.2	3.3	2.8	2.4	2.1	6.2	5.0	4.2	3.6	3.1	2.5	2.1	1.8	1.6
	60	.18	9.1	7.3	6.1	5.2	4.6	3.6	3.0	2.6	2.3	6.8	5.5	4.6	3.9	3.4	2.7	2.3	2.0	1.7
	20	.14	7.0	5.6	4.7	4.0	3.5	2.8	2.3	2.0	1.8	5.3	4.2	3.5	3.0	2.6	2.1	1.8	1.5	1.3
	25	.16	7.8	6.3	5.2	4.5	3.9	3.1	2.6	2.2	2.0	5.9	4.7	3.9	3.4	2.9	2.4	2.0	1.7	1.5
15002	30	.17	8.6	6.9	5.7	4.9	4.3	3.4	2.9	2.5	2.1	6.4	5.1	4.3	3.7	3.2	2.6	2.1	1.8	1.6
(100 Mesh)	40	.20	9.9	7.9	6.6	5.7	5.0	4.0	3.3	2.8	2.5	7.4	5.9	5.0	4.2	3.7	3.0	2.5	2.1	1.9
	50	.22	11.1	8.9	7.4	6.3	5.5	4.4	3.7	3.2	2.7	7.3	6.6	5.5	4.7	4.2	3.3	2.8	2.4	2.1
	60	.25	12.1	9.7	8.1	6.9	6.1	4.9	4.0	3.5	3.0	9.1	7.3	6.1	5.2	4.6	3.6	3.0	2.6	2.3
	20	.21	10.5	8.4	7.0	6.0	5.3	4.2	3.5	3.0	2.6	7.9	6.3	5.3	4.5	3.9	3.2	2.6	2.3	2.0
	25	.24	11.7	9.4	7.8	6.7	5.9	4.7	3.9	3.4	2.9	8.8	7.0	5.9	5.0	4.4	3.5	2.9	2.5	2.2
15003	30	.26	12.9	10.3	8.6	7.4	6.4	5.1	4.3	3.7	3.2	9.7	7.7	6.4	5.5	4.8	3.9	3.2	2.8	2.4
(100 Mesh)	40	.30	14.9	11.9	9.9	8.5	7.4	5.9	4.0	4.2	3.9	11.1	8.9	7.4	6.4	5.6	4.5	3.7	3.2	2.8
	50	.34	16.6	13.3	11.1	9.5	8.3	6.6	5.5	4.7	4.2	12.5	10.0	8.3	7.1	6.2	5.0	4.2	3.6	3.1
	60	.37	18.2	14.6	12.1	10.4	9.1	7.3	6.1	5.2	4.6	13.6	10.9	9.1	7.8	6.8	5.5	4.6	3.9	3.4
	20	.28	14.0	11.2	9.3	8.0	7.0	5.6	4.7	4.0	3.5	10.5	8.4	7.0	6.0	5.3	4.2	3.5	3.0	2.6
	25	.32	15.7	12.5	10.4	8.9	7.8	6.3	5.2	4.5	3.9	11.7	9.4	7.8	6.7	5.9	4.7	3.9	3.4	2.9
15004	30	.35	17.2	13.7	11.4	9.8	8.6	6.9	5.7	4.9	4.3	12.9	10.3	8.6	7.4	6.4	5.1	4.3	3.7	3.2
(50 Mesh)	40	.40	19.8	15.8	13.2	11.3	9.9	7.9	6.6	5.7	5.0	14.9	11.9	9.9	8.5	7.4	5.9	5.0	4.2	3.7
	50	.45	22	17.7	14.8	12.7	11.1	8.9	7.4	6.3	5.5	16.6	13.3	11.1	9.5	8.3	6.6	5.5	4.7	4.2
	60	.49	24	19.4	16.2	13.9	12.1	9.7	8.1	6.9	6.1	18.2	14.6	12.1	10.4	9.1	7.3	6.1	5.2	4.6
	20	.35	17.5	14.0	11.7	10.0	8.8	7.0	5.8	5.0	4.4	13.1	10.5	8.8	7.5	6.6	5.3	4.4	3.8	3.3
15005	25	.40	19.6	15.7	13.0	11.2	9.8	7.8	6.5	5.6	4.9	14.7	11.7	9.8	8.4	7.3	5.9	4.9	4.2	3.7
(50 Mesh)	30	.43	21.3	17.0	14.2	12.2	10.6	8.5	7.1	6.1	5.3	16.0	12.8	10.6	9.1	8.0	6.4	5.3	4.6	4.0
	40	.50	25	19.8	16.5	14.1	12.4	9.9	8.3	7.1	6.2	18.6	14.9	12.4	10.6	9.3	7.4	6.2	5.3	4.6
	50	.56	28	22	18.5	15.8	13.8	11.1	9.2	7.9	6.9	21	16.6	13.8	11.9	10.4	8.3	6.9	5.9	5.2
	60	.61	30	24	20	17.3	15.2	12.1	10.1	8.7	7.6	23	18.2	15.2	13.0	11.4	9.1	7.6	6.5	5.7
	20	.42	21	16.8	14.0	12.0	10.5	8.4	7.0	6.0	5.3	15.8	12.6	10.5	9.0	7.9	6.3	5.3	4.5	3.9
	25	.47	23	18.8	15.7	13.4	11.7	9.4	7.8	6.7	5.9	17.6	14.1	11.7	10.1	8.8	7.0	5.9	5.0	4.4
15006	30	.52	26	21	17.2	14.7	12.9	10.3	8.6	7.4	6.4	19.3	15.4	12.9	11.0	9.7	7.7	6.4	5.5	4.8
(50 Mesh)	40	.60	30	24	19.8	17.0	14.9	11.9	9.9	8.5	7.4	22	17.8	14.9	12.7	11.1	8.9	7.4	6.4	5.6
	50	.67	33	27	22	19.0	16.6	13.3	11.1	9.5	8.3	25	19.9	16.6	14.2	12.5	10.0	8.3	7.1	6.2
	60	.74	36	29	24	21	18.2	14.6	12.1	10.4	9.1	27	22	18.2	15.6	13.6	10.9	9.1	7.8	6.8
	20	.57	28	22	18.7	16.0	14.0	11.2	9.3	8.0	7.0	21	16.8	14.0	12.0	10.5	8.4	7.0	6.0	5.3
	25	.63	31	25	21	17.9	15.7	12.5	10.4	8.9	7.8	23	18.8	15.7	13.4	11.7	9.4	7.5	6.7	5.9
15008	30	.69	34	27	23	19.6	17.2	13.7	11.4	9.8	8.6	26	21	17.2	14.7	12.9	10.3	8.6	7.4	6.4
(50 Mesh)	40	.80	40	32	26	23	19.8	15.8	13.2	11.3	9.9	30	24	19.8	17.0	14.9	11.9	9.9	8.5	7.4
	50	.89	44	35	30	25	22	17.7	14.8	12.7	11.1	33	27	22	19.0	16.6	13.3	11.1	9.5	8.3
	60	.98	49	39	32	28	24	19.4	16.2	13.9	12.1	36	29	24	21	18.2	14.6	12.1	10.4	9.1
	20	.64	32	25	21	18.0	15.8	12.6	10.5	9.0	7.9	24	18.9	15.8	13.5	11.8	9.5	7.9	6.8	5.9
	25	.91	35	28	23	20	17.6	14.1	11.7	10.1	8.8	26	21	17.6	15.1	13.2	10.6	8.8	7.6	6.6
15009	30	.78	39	31	26	22	19.3	15.4	12.9	11.0	9.7	29	23	19.3	16.5	14.5	11.6	9.7	8.3	7.2
(50 Mesh)	40	.90	45	36	30	25	22	17.8	14.9	12.7	11.1	33	27	22	19.1	16.7	13.4	11.1	9.6	8.4
	50	1.00	50	40	33	28	25	19.9	16.6	14.2	12.5	37	30	25	21	18.7	14.9	12.5	10.7	9.3
	60	1.10	55	44	36	31	27	22	18.2	15.6	13.6	41	33	28	23	20	16.4	13.6	11.7	10.2

STREAMJET FERTILIZER NOZZLES



SJ3

- Three solid streams of equal velocity and capacity
- Removable metering orifice for easy cleaning
- All acetal construction for excellent chemical resistance
- VisiFlo® color-coding system
- Solid stream pattern minimizes leaf burn and virtually no drift
- Equally spaced distribution at 20" height
- Operating pressure range: 20-60 PSI
- Automatic alignment with 25598-*-NYR

LIST $ 14.47

	PSI	CAPACITY ONE NOZZLE IN GPM	GPA 20° 3 MPH	4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH
SJ3-015-VP (100)	20	0.11	10.9	8.2	6.5	5.4	4.1	3.3	2.7	2.3	2.0	1.8	1.6
	30	0.13	12.9	9.7	7.7	6.4	4.8	3.9	3.2	2.8	2.4	2.1	1.9
	40	0.15	14.9	11.1	8.9	7.4	5.6	4.5	3.7	3.2	2.8	2.5	2.2
	50	0.16	15.8	11.9	9.5	7.9	5.9	4.8	4.0	3.4	3.0	2.6	2.4
	60	0.17	16.8	12.6	10.1	8.4	6.3	5.0	4.2	3.6	3.2	2.8	2.5
SJ3-02-VP (50)	20	0.14	13.9	10.4	8.3	6.9	5.2	4.2	3.5	3.0	2.6	2.3	2.1
	30	0.17	16.8	12.6	10.1	8.4	6.3	5.0	4.2	3.6	3.2	2.8	2.5
	40	0.20	19.8	14.9	11.9	9.9	7.4	5.9	5.0	4.2	3.7	3.3	3.0
	50	0.21	21	15.6	12.5	10.4	7.8	6.2	5.2	4.5	3.9	3.5	3.1
	60	0.22	22	16.3	13.1	10.9	8.2	6.5	5.4	4.7	4.1	3.6	3.3
SJ3-03-VP (50)	20	0.24	24	17.8	14.3	11.9	8.9	7.1	5.9	5.1	4.5	4.0	3.6
	30	0.27	27	20	16.0	13.4	10.0	8.0	6.7	5.7	5.0	4.5	4.0
	40	0.30	30	22	17.8	14.9	11.1	8.9	7.4	6.4	5.6	5.0	4.5
	50	0.33	33	25	19.6	16.3	12.3	9.8	8.2	7.0	6.1	5.4	4.9
	60	0.35	35	26	21	17.3	13.0	10.4	8.7	7.4	6.5	5.8	5.2
SJ3-04-VP (50)	20	0.30	30	22	17.8	14.9	11.1	8.9	7.4	6.4	5.6	5.0	4.5
	30	0.36	36	27	21	17.8	13.4	10.7	8.9	7.6	6.7	5.9	5.3
	40	0.40	40	30	24	19.8	14.9	11.9	9.9	8.5	7.4	6.6	5.9
	50	0.43	43	32	26	21	16.0	12.8	10.6	9.1	8.0	7.1	6.4
	60	0.47	47	35	28	23	17.4	14.0	11.6	10.0	8.7	7.8	7.0
SJ3-05-VP (50)	20	0.36	36	27	21	17.8	13.4	10.7	8.9	7.6	6.7	5.9	5.3
	30	0.45	45	33	27	22	16.7	13.4	11.1	9.5	8.4	7.4	6.7
	40	0.50	50	37	30	25	18.6	14.9	12.4	10.6	9.3	8.3	7.4
	50	0.55	54	41	33	27	20	16.3	13.6	11.7	10.2	9.1	8.2
	60	0.59	58	44	35	29	22	17.5	14.6	12.5	11.0	9.7	8.8
SJ3-06-VP (50)	20	0.42	42	31	25	21	15.6	12.5	10.4	8.9	7.8	6.9	6.2
	30	0.54	53	40	32	27	20	16.0	13.4	11.5	10.0	8.9	8.0
	40	0.60	59	45	36	30	22	17.8	14.9	12.7	11.1	9.9	8.9
	50	0.66	65	49	39	33	25	19.6	16.3	14.0	12.3	10.9	9.8
	60	0.70	69	52	42	35	26	21	17.3	14.9	13.0	11.6	10.4
SJ3-08-VP	20	0.56	55	42	33	28	21	16.6	13.9	11.9	10.4	9.2	8.3
	30	0.72	71	53	43	36	27	21	17.8	15.3	13.4	11.9	10.7
	40	0.80	79	59	48	40	30	24	19.8	17.0	14.9	13.2	11.9
	50	0.88	87	65	52	44	33	26	22	18.7	16.3	14.5	13.1
	60	0.94	93	70	56	47	35	28	23	19.9	17.4	15.5	14.0
SJ3-10-VP	20	0.65	64	48	39	32	24	19.3	16.1	13.8	12.1	10.7	9.7
	30	0.90	89	67	53	45	33	27	22	19.1	16.7	14.9	13.4
	40	1.00	99	74	59	50	37	30	25	21	18.6	16.5	14.9
	50	1.11	110	82	66	55	41	33	27	24	21	18.3	16.5
	60	1.19	118	88	71	59	44	35	29	25	22	19.6	17.7
SJ3-15-VP	20	0.99	98	74	59	49	37	29	25	21	18.4	16.3	14.7
	30	1.24	123	92	74	61	46	37	31	26	23	20	18.4
	40	1.50	149	111	89	74	56	45	37	32	28	25	22
	50	1.68	166	125	100	83	62	50	42	36	31	28	25
	60	1.83	181	136	109	91	68	54	45	39	34	30	27
SJ3-20-VP	20	1.41	140	105	84	70	52	42	35	30	26	23	21
	30	1.75	173	130	104	87	65	52	43	37	32	29	26
	40	2.00	198	149	119	99	74	59	50	42	37	33	30
	50	2.28	226	169	135	113	85	68	56	48	42	38	34
	60	2.49	247	185	148	123	92	74	62	53	46	41	37

Note: *Tabulation based on spraying water at 70° F*



SJ7

- Seven solid streams of equal velocity and capacity
- Removable metering orifice for easy cleaning
- All acetal construction for excellent chemical resistance
- VisiFlo® color-coding system
- Solid stream pattern minimizes leaf burn and virtually no drift
- Excellent spray distribution quality
- Operating pressure range: 20-60 PSI

LIST $ 18.37

	PSI	CAPACITY ONE NOZZLE IN GPM	GPA 20° 3 MPH	4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH
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

Note: *Tabulation is based on spraying water at 70° F*

STREAMJET VARIBLE RATE NOZZLES / TWINJET

PTC-VR PUSH-TO-CONNECT

- Simple elastomer (EPDM) variable orifice for reliable operation
- Ideal for installation on planters and toolbars for fertilizer application
- Nylon construction for strength and chemical resistance
- Operating pressure: 10-100 PSI

PART NO.	TUBING SIZE ¼"	5/16"	3/8"
PTC-VR-X0.5	X	X	X
PTC-VR-X1.0	X	X	X
PTC-VR-X2.0		X	X

LIST $ 43.41

Assembly	Liquid Pressure in PSI	Capacity 1 Nozzle in GPM	GPA for 30"Spacing (water) 4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	16 MPH	20 MPH
QJ-VR-X0.5 & PTC-VR-X0.5	10	0.09	4.5	3.6	3.0	2.2	1.8	1.5	1.1	0.9
	20	0.13	6.4	5.1	4.3	3.2	2.6	2.1	1.6	1.3
	30	0.17	8.4	6.7	5.6	4.2	3.4	2.8	2.1	1.7
	40	0.21	10.4	8.3	6.9	5.2	4.2	3.5	2.6	2.1
	50	0.24	11.9	9.5	7.9	5.9	4.8	4.0	3.0	2.4
	60	0.29	14.4	11.5	9.6	7.2	5.7	4.8	3.6	2.9
	70	0.34	16.8	13.5	11.2	8.4	6.7	5.6	4.2	3.4
	80	0.40	19.8	15.8	13.2	9.9	7.9	6.6	5.0	4.0
	90	0.46	23	18.2	15.2	11.4	9.1	7.6	5.7	4.6
	100	0.54	27	21	17.8	13.4	10.7	8.9	6.7	5.3
QJ-VR-X1.0 & PTC-VR-X1.0	10	0.13	6.4	5.1	4.3	3.2	2.6	2.1	1.6	1.3
	20	0.21	10.4	8.3	6.9	5.2	4.2	3.5	2.6	2.1
	30	0.28	13.9	11.1	9.2	6.9	5.5	4.6	3.5	2.8
	40	0.35	17.3	13.9	11.6	8.7	6.9	5.8	4.3	3.5
	50	0.44	22	17.4	14.5	10.9	8.7	7.3	5.4	4.4
	60	0.53	26	21	17.5	13.1	10.5	8.7	6.6	5.2
	70	0.64	32	25	21	15.8	12.7	10.6	7.9	6.3
	80	0.77	38	30	25	19.1	15.2	12.7	9.5	7.6
	90	0.90	45	36	30	22	17.8	14.9	11.1	8.9
	100	1.03	51	41	34	25	20	17.0	12.7	10.2
QJ-VR-X2.0 & PTC-VR-X2.0	10	0.38	18.8	15.0	12.5	9.4	7.5	6.3	4.7	3.8
	20	0.57	28	23	18.8	14.1	11.3	9.4	7.1	5.6
	30	0.73	36	29	24	18.1	14.5	12.0	9.0	7.2
	40	0.87	43	34	29	22	17.2	14.4	10.8	8.6
	50	1.03	51	41	34	25	20	17.0	12.7	10.2
	60	1.20	59	48	40	30	24	19.8	14.9	11.9
	70	1.40	69	55	46	35	28	23	17.3	13.9
	80	1.61	80	64	53	40	32	27	19.9	15.9
	90	1.84	91	73	61	46	36	30	23	18.2
	100	2.07	102	82	68	51	41	34	26	20



Note: *Tabulation based on spraying water at 70° F*

SJ7-VR STREAMJET

- Simple elastomer (EPDM) variable orifice for reliable operation
- SJ7-VR are intended for use with flow meter based control only
- Multiple capacities available for wide range of application rates
- Operating pressure: 30-80 PSI



LIST $ 40.72

Nozzle	Liquid Pressure in PSI	Capacity 1 Nozzle in GPM	GPA for 30"Spacing (water) 5 MPH	6 MPH	7 MPH	8 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH
SJ7A-VR-X0.5	30	0.16	6.3	5.3	4.5	4.0	3.2	2.6	2.3	2.0	1.8	1.6
	40	0.19	7.5	6.3	5.4	4.7	3.8	3.1	2.7	2.4	2.1	1.9
	50	0.22	8.7	7.3	6.2	5.4	4.4	3.6	3.1	2.7	2.4	2.2
	60	0.26	10.3	8.6	7.4	6.4	5.1	4.3	3.7	3.2	2.9	2.6
	70	0.30	11.9	9.9	8.5	7.4	5.9	5.0	4.2	3.7	3.3	3.0
	80	0.35	13.9	11.6	9.9	8.7	6.9	5.8	5.0	4.3	3.9	3.5
SJ7A-VR-X1.0	30	0.28	11.1	9.2	7.9	6.9	5.5	4.6	4.0	3.5	3.1	2.8
	40	0.35	13.9	11.6	9.9	8.7	6.9	5.8	5.0	4.3	3.9	3.5
	50	0.44	17.4	14.5	12.4	10.9	8.7	7.3	6.2	5.4	4.8	4.4
	60	0.55	22	18.2	15.6	13.6	10.9	9.1	7.8	6.8	6.1	5.4
	70	0.67	27	22	19.0	16.6	13.3	11.1	9.5	8.3	7.4	6.6
	80	0.80	32	26	23	19.8	15.8	13.2	11.3	9.9	8.8	7.9
SJ7A-VR-X2.0	30	0.70	28	23	19.8	17.3	13.9	11.6	9.9	8.7	7.7	6.9
	40	0.85	34	28	24	21	16.8	14.0	12.0	10.5	9.4	8.4
	50	1.00	40	33	28	25	19.8	16.5	14.1	12.4	11.0	9.9
	60	1.17	46	39	33	29	23	19.3	16.5	14.5	12.9	11.6
	70	1.35	53	45	38	33	27	22	19.1	16.7	14.9	13.4
	80	1.55	61	51	44	38	31	26	22	19.2	17.1	15.3

Note: *Tabulation based on spraying water at 70° F*

TIP NO. (strainer screen size) 65°, 80° AND 110° SERIES	Liquid Pressure in PSI	Capacity 1 Nozzle in GPM	Capacity 1 Nozzle in oz./min.	GALLONS PER ACRE 20" NOZZLE SPACING 5 MPH	6 MPH	7 MPH	8 MPH	30" NOZZLE SPACING 5 MPH	6 MPH	7 MPH	8 MPH
TJ60-650134 (100 Mesh)	30	.12	15	6.9	5.7	4.9	4.3	4.6	3.8	3.3	2.9
	40	.13	17	8.0	6.6	5.7	5.0	5.3	4.4	3.8	3.3
	50	.15	19	8.9	7.4	6.4	5.6	5.9	4.9	4.2	3.7
	60	.16	20	9.7	8.1	7.0	6.1	6.5	5.4	4.6	4.1
TJ60-6502 TJ60-8002 (100 Mesh)	30	.17	22	10.3	8.6	7.3	6.4	6.9	5.7	4.9	4.3
	40	.20	26	11.9	9.9	8.5	7.4	7.9	6.6	5.7	4.9
	50	.22	28	13.3	11.1	9.5	8.3	8.9	7.4	6.3	5.5
	60	.24	31	14.6	12.1	10.4	9.1	9.7	8.1	6.9	6.1
TJ60-6503 TJ60-8003 TJ60-11003 (100 Mesh)	30	.26	33	15.4	12.9	11.0	9.6	10.3	8.6	7.3	6.4
	40	.30	38	17.8	14.9	12.7	11.1	11.9	9.9	8.5	7.4
	50	.34	44	19.9	16.6	14.2	12.5	13.3	11.1	9.5	8.3
	60	.37	47	22	18.2	15.6	13.6	14.6	12.1	10.4	9.1
TJ60-6504 TJ60-8004 TJ60-11004 (50 Mesh)	30	.35	45	21	17.1	14.7	12.9	13.7	11.4	9.8	8.6
	40	.40	51	24	19.8	17.0	14.8	15.8	13.2	11.3	9.9
	50	.45	58	27	22	19.0	16.6	17.7	14.8	12.7	11.1
	60	.49	63	29	24	21	18.2	19.4	16.2	13.9	12.1
TJ-60-6506 TJ60-8006 TJ60-11006 (50 Mesh)	30	.52	67	31	26	22	19.3	21	17.1	14.7	12.9
	40	.60	77	36	30	25	22	24	19.8	17.0	14.8
	50	.67	86	40	33	28	25	27	22	19.0	16.6
	60	.73	93	44	36	31	27	29	24	21	18.2
TJ60-6508 TJ60-8008 TJ60-11008 (50 Mesh)	30	.69	88	41	34	29	26	27	23	19.6	17.1
	40	.80	102	48	40	34	30	32	26	23	19.8
	50	.89	114	53	44	38	33	35	30	25	22
	60	.98	125	58	49	42	36	39	32	28	24

TWINJET
TWIN FLAT SPRAY TIPS



Suggested Minimum Spray Height

Spray Angle	Spray Height 20" Spacing
80°	17 -19"
110°	10 -12"

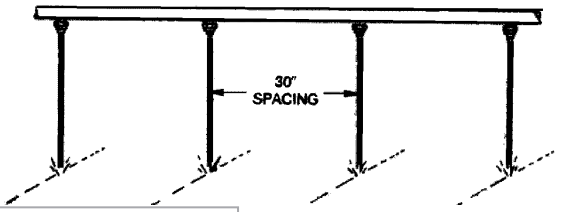
- Penetrates crop residue or dense foliage
- Smaller droplets for thorough coverage
- Stainlees steel w/ VisiFlo® color-coding

LIST $ 19.64

STREAMJET SOLID STREAM NOZZLES

STAINLESS STEEL for banding fertilizers

Chart based on 30" spacing and based on water



NOZZLE NO.	LIQUID PRESSURE IN PSI	CAPACITY IN GPM	GALLONS PER ACRE								
			4 MPH	6 MPH	7 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH
	50	.45	22	14.9	12.7	8.9	7.4	6.4	5.6	5.0	4.5
H 1/4USS00-04	60	.49	24	16.2	13.9	9.7	8.1	6.9	6.1	5.4	4.9
TP0004SS	70	.54	27	17.8	15.3	10.7	8.9	7.6	6.7	5.9	5.3
	50	.55	27	18.2	15.6	10.9	9.1	7.8	6.8	6.1	5.4
H 1/4USS00-05	60	.61	30	20	17.3	12.1	10.1	8.6	7.5	6.7	6.0
TP0005SS	70	.66	33	22	18.7	13.1	10.9	9.3	8.2	7.3	6.5
	50	.67	33	22	19	13.3	11.1	9.5	8.3	7.4	6.6
H 1/4USS00-06	60	.73	36	24	21	14.5	12.0	10.3	9.0	8.0	7.2
TP0006SS	70	.79	39	26	22	15.6	13	11.2	9.8	8.7	7.8
	50	.89	44	29	25	17.6	14.7	12.6	11.0	9.8	8.8
H1/4USS00-08	60	.98	49	32	28	19.4	16.2	13.9	12.1	10.8	9.7
TP0008SS	70	1.04	51	34	29	21.	17.2	14.7	12.9	11.4	10.3
	10	.5	25	16.5	12.4	9.9	8.3	7.1			
	20	.7	35	23	17.5	14.0	11.7	10.0			
	30	.9	43	29	21	17.2	14.3	12.3			
	40	1.0	49	33	25	19.8	16.5	14.1			
H 1/4 USS0010	50	1.12	55	37	28	22	18.5	15.8	13.9	12.3	11.1
TP0010SS	60	1.22	60	40	30	24	20	17.3	15.1	13.4	12.1
	70	1.32	65	44	33	26	22	18.7	16.3	14.5	13.1
	80	1.41	70	47	35	28	23	19.9	17.4	15.5	14.0
	90	1.50	74	50	37	30	25	21	18.6	16.5	14.9
	100	1.58	78	52	39	31	26	22	19.6	17.4	15.6
	10	.8	37	25	18.6	14.9	12.4	10.6			
	20	1.1	53	35	26	21	17.5	15.0			
	30	1.3	64	43	32	26	21	18.4			
	40	1.5	74	49	37	30	25	21			
H 1/4 USS0015	50	1.68	83	55	42	33	28	24	21	18.5	16.6
TP0015SS	60	1.84	91	61	46	36	30	26	23	20	18.2
	70	1.98	98	65	49	39	33	28	25	22	19.6
	80	2.12	105	70	52	42	35	30	26	23	21
	90	2.25	111	74	56	45	37	32	28	25	22
	100	2.37	117	78	59	47	39	34	29	26	23
	10	1.0	49	33	25	19.8	16.5	14.1			
	20	1.4	70	47	35	28	23	20			
	30	1.7	86	57	43	34	29	24			
	40	2.0	99	66	49	40	33	28			
H 1/4 USS0020	50	2.24	111	74	55	44	37	32	28	25	22
TP0020SS	60	2.45	121	81	61	49	40	35	30	27	24
	70	2.65	131	87	66	52	44	37	33	29	26
	80	2.83	140	93	70	56	47	40	35	31	28
	90	3.00	149	99	74	59	50	42	37	33	30
	100	3.16	156	104	78	63	52	45	39	35	31
	10	1.5	74	49	37	30	25	21			
	20	2.1	105	70	53	42	35	30			
	30	2.6	129	86	64	51	43	37			
	40	3.0	148	99	74	59	49	42			
H 1/4 USS0030	50	3.35	166	111	83	66	55	47	41	37	33
TP0030SS	60	3.67	182	121	91	73	61	52	45	40	36
	70	3.97	197	131	98	79	66	56	49	44	39
	80	4.24	210	140	105	84	70	60	52	47	42
	90	4.50	223	149	111	89	74	64	56	50	45
	100	4.74	235	156	117	94	78	67	59	52	47
	10	2.0	99	66	49	40	33	28			
	20	2.8	140	93	70	56	47	40			
	30	3.5	171	114	86	69	57	49			
	40	4.0	198	132	99	79	66	57			
H 1/4 USS0040	50	4.47	221	148	111	89	74	63	55	49	44
TP0040SS	60	4.90	243	162	121	97	81	69	61	54	49
	70	5.29	262	175	131	105	87	75	65	58	52
	80	5.66	280	187	140	112	93	80	70	62	56
	90	6.00	297	198	149	119	99	85	74	66	59
	100	6.32	313	209	156	125	104	89	78	70	63

- Chart based on water.
- Permits banding fluids at high speeds.
- Large orifices, with no internal obstructions permit nonclogging suspension applications.
- Low drift potential.



H1/4USS0004 - 40

LIST $ 23.19



TP0004 - 40SS

LIST $ 17.38

TEEJET FLOW REGULATORS

MASTER TABULATIONS FOR GALLONS PER ACRE COVERAGES USING TeeJet® FLOW REGULATORS

NOTE: 30" SPACING

ORIFICE PLATE NO.	PRESSURE IN PSI	CAPACITY IN GPM	GALLONS PER ACRE * BASED ON WATER WITH FLOW REGULATORS SPACED AT 30"				
			3 MPH	4 MPH	5 MPH	6 MPH	8 MPH
4916-15	10	.014	.92	.69	.55	.46	.35
	20	.020	1.3	.99	.79	.66	.50
	30	.025	1.7	1.2	.99	.83	.62
	40	.029	1.9	1.4	1.1	.96	.72
4916-16	10	.016	1.1	.79	.63	.53	.40
	20	.023	1.5	1.1	.91	.76	.57
	30	.028	1.8	1.4	1.1	.92	.69
	40	.032	2.1	1.6	1.3	1.1	.79
4916-18	10	.021	1.4	1.0	.83	.69	.52
	20	.029	1.9	1.4	1.1	.96	.72
	30	.036	2.4	1.8	1.4	1.2	.89
	40	.042	2.8	2.1	1.7	1.4	1.0
4916-20	10	.026	1.7	1.3	1.0	.86	.64
	20	.037	2.4	1.8	1.5	1.2	.92
	30	.045	3.0	2.2	1.8	1.5	1.1
	40	.052	3.4	2.6	2.1	1.7	1.3
4916-22	10	.031	2.0	1.5	1.2	1.0	.77
	20	.043	2.8	2.1	1.7	1.4	1.1
	30	.053	3.5	2.6	2.1	1.7	1.3
	40	.061	4.0	3.0	2.4	2.0	1.5
4916-24	10	.037	2.4	1.8	1.5	1.2	.92
	20	.053	3.5	2.6	2.1	1.7	1.3
	30	.064	4.2	3.2	2.5	2.1	1.6
	40	.074	4.9	3.7	2.9	2.4	1.8
4916-25	10	.040	2.6	2.0	1.6	1.3	.99
	20	.056	3.7	2.8	2.2	1.8	1.4
	30	.069	4.6	3.4	2.7	2.3	1.7
	40	.080	5.3	4.0	3.2	2.6	2.0
4916-26	10	.043	2.8	2.1	1.7	1.4	1.1
	20	.061	4.0	3.0	2.4	2.0	1.5
	30	.074	4.9	3.7	2.9	2.4	1.8
	40	.085	5.6	4.2	3.4	2.8	2.1
4916-27	10	.045	3.0	2.2	1.8	1.5	1.1
	20	.064	4.2	3.2	2.5	2.1	1.6
	30	.078	5.1	3.9	3.1	2.6	1.9
	40	.090	5.9	4.5	3.6	3.0	2.2
4916-28	10	.049	3.2	2.4	1.9	1.6	1.2
	20	.069	4.6	3.4	2.7	2.3	1.7
	30	.085	5.6	4.2	3.4	2.8	2.1
	40	.098	6.5	4.9	3.9	3.2	2.4
4916-29	10	.054	3.6	2.7	2.1	1.8	1.3
	20	.076	5.0	3.8	3.0	2.5	1.9
	30	.093	6.1	4.6	3.7	3.1	2.3
	40	.107	7.1	5.3	4.2	3.5	2.6
4916-30	10	.057	3.8	2.8	2.3	1.9	1.4
	20	.081	5.3	4.0	3.2	2.7	2.0
	30	.099	6.5	4.9	3.9	3.3	2.5
	40	.114	7.5	5.6	4.5	3.8	2.8
4916-31	10	.061	4.0	3.0	2.4	2.0	1.5
	20	.087	5.7	4.3	3.4	2.9	2.2
	30	.106	7.0	5.2	4.2	3.5	2.6
	40	.122	8.1	6.0	4.8	4.0	3.0
4916-32	10	.067	4.4	3.3	2.7	2.2	1.7
	20	.095	6.3	4.7	3.8	3.1	2.4
	30	.117	7.7	5.8	4.6	3.9	2.9
	40	.135	8.9	6.7	5.3	4.5	3.3
4916-34	10	.073	4.8	3.6	2.9	2.4	1.8
	20	.104	6.9	5.1	4.1	3.4	2.6
	30	.127	8.4	6.3	5.0	4.2	3.1
	40	.147	9.7	7.3	5.8	4.9	3.6
4916-35	10	.078	5.1	3.9	3.1	2.6	1.9
	20	.111	7.3	5.5	4.4	3.7	2.7
	30	.136	9.0	6.7	5.4	4.5	3.4
	40	.157	10.4	7.8	6.2	5.2	3.9
4916-37	10	.086	5.7	4.3	3.4	2.8	2.1
	20	.121	8.0	6.0	4.8	4.0	3.0
	30	.148	9.8	7.3	5.9	4.9	3.7
	40	.171	11.3	8.5	6.8	5.6	4.2
4916-39	10.	.095	6.3	4.7	3.8	3.1	2.4
	20	.135	8.9	6.7	5.3	4.5	3.3
	30	.165	10.9	8.2	6.5	5.4	4.1
	40	.191	12.6	9.5	7.6	6.3	4.7
4916-40	10	.102	6.7	5.0	4.0	3.4	2.5
	20	.144	9.5	7.1	5.7	4.8	3.6
	30	.177	11.7	8.8	7.0	5.8	4.4
	40	.204	13.5	10.1	8.1	6.7	5.0
4916-41	10	.105	6.9	5.2	4.2	3.5	2.6
	20	.149	9.8	7.4	5.9	4.9	3.7
	30	.182	12.0	9.0	7.2	6.0	4.5
	40	.211	13.9	10.4	8.4	7.0	5.2
4916-43	10	.115	7.6	5.7	4.6	3.8	2.8
	20	.163	10.8	8.1	6.5	5.4	4.0
	30	.199	13.1	9.9	7.9	6.6	4.9
	40	.230	15.2	11.4	9.1	7.6	5.7
4916-45	10	.125	8.3	6.2	5.0	4.1	3.1
	20	.177	11.7	8.8	7.0	5.8	4.4
	30	.216	14.3	10.7	8.6	7.1	5.3
	40	.249	16.4	12.3	9.9	8.2	6.2
4916-46	10	.135	8.9	6.7	5.3	4.5	3.3
	20	.191	12.6	9.5	7.6	6.3	4.7
	30	.233	15.4	11.5	9.2	7.7	5.8
	40	.269	17.8	13.3	10.7	8.9	6.7
4916-47	10	.137	9.0	6.8	5.4	4.5	3.4
	20	.194	12.8	9.6	7.7	6.4	4.8
	30	.238	15.7	11.8	9.4	7.9	5.9
	40	.275	18.2	13.6	10.9	9.1	6.8
4916-48	10	.143	9.4	7.1	5.7	4.7	3.5
	20	.202	13.3	10.0	8.0	6.7	5.0
	30	.247	16.3	12.2	9.8	8.2	6.1
	40	.285	18.8	14.1	11.3	9.4	7.1
4916-49	10	.147	9.7	7.3	5.8	4.9	3.6
	20	.208	13.7	10.3	8.2	6.9	5.1
	30	.255	16.8	12.6	10.1	8.4	6.3
	40	.294	19.4	14.6	11.6	9.7	7.3
4916-51	10	.165	10.9	8.2	6.5	5.4	4.1
	20	.233	15.4	11.5	9.2	7.7	5.8
	30	.285	18.8	14.1	11.3	9.4	7.1
	40	.329	21.7	16.3	13.0	10.9	8.1
4916-52	10	.167	11.0	8.3	6.6	5.5	4.1
	20	.237	15.6	11.7	9.4	7.8	5.9
	30	.290	19.1	14.4	11.5	9.6	7.2
	40	.335	22.	16.6	13.3	11.1	8.3
4916-54	10	.180	11.9	8.9	7.1	5.9	4.5
	20	.255	16.8	12.6	10.1	8.4	6.3
	30	.312	21.	15.4	12.4	10.3	7.7
	40	.360	24.	17.8	14.3	11.9	8.9

TeeJet® FLOW REGULATORS

Flow regulators are usually mounted behind cultivator shanks for sub-surface application of liquid fertilizers and soil fumigants. They are also used for above-ground streaming applications.

TYPICAL ASSEMBLY



BODY | **4916** Orifice Plate | **18999EPR** Orifice Gasket | **8400** Hose Shank | **25608 NYR** Cap



NOTE: Always insert orifice plate with side marked with number facing the outlet.

LIST **4916-___** **$ 5.12**

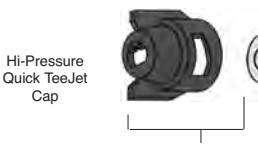
MASTER TABULATIONS FOR GALLONS PER ACRE COVERAGES USING TeeJet® FLOW REGULATORS - 30"SPACING.

ORIFICE PLATE NO.	PRESSURE IN PSI	CAPACITY IN GPM	GALLONS PER ACRE * BASED ON WATER WITH FLOW REGULATORS SPACED AT 30"				
			3 MPH	4 MPH	5 MPH	6 MPH	8 MPH
4916-55	5	0.133	8.8	6.6	5.3	4.4	3.3
	10	0.188	12.4	9.3	7.4	6.2	4.7
	20	0.266	17.6	13.2	10.5	8.8	6.6
	30	0.326	21.5	16.1	12.8	10.8	8.1
4916-57	5	0.141	9.3	7.0	5.6	4.7	3.6
	10	0.200	13.2	9.9	7.9	6.6	5.0
	20	0.283	18.7	14	11.2	9.3	7.0
	30	0.346	22.8	17.1	13.7	11.4	8.6
4916-59	5	0.152	10.0	7.5	6.0	5.0	3.8
	10	0.215	14.2	10.6	8.5	7.1	5.3
	20	0.304	20.1	15.0	12.0	10.0	7.5
	30	0.372	24.8	18.4	14.7	12.3	9.2
4916-61	5	0.165	10.9	8.2	6.5	5.4	4.1
	10	0.233	15.4	11.5	9.2	7.7	5.8
	20	0.330	21.8	16.3	13.1	10.9	8.2
	30	0.404	26.7	20.0	16.0	13.3	10.0
4916-63	5	0.174	11.5	6.6	6.9	5.7	4.3
	10	0.246	16.2	12.2	9.7	8.1	6.1
	20	0.347	22.9	17.2	13.7	11.5	8.6
	30	0.425	28.1	21.0	16.8	14.0	10.5
4916-65	5	0.185	12.2	9.2	7.3	6.1	4.6
	10	0.261	17.2	12.9	10.3	8.6	6.5
	20	0.369	24.4	18.3	14.6	12.2	9.1
	30	0.452	29.8	22.4	17.9	14.9	11.2
4916-67	5	0.196	12.9	9.7	7.8	6.5	4.9
	10	0.278	18.3	13.8	11.0	9.2	6.9
	20	0.392	25.9	19.4	15.5	12.9	9.7
	30	0.481	31.7	23.8	19.0	15.9	11.9
4916-68	5	0.203	13.4	10.0	8.0	6.7	5.0
	10	0.287	18.9	14.2	11.4	9.5	7.1
	20	0.405	26.7	20.0	16.0	13.4	10.0
	30	0.496	32.7	24.6	19.6	16.4	12.3
4916-70	5	0.218	14.3	10.7	8.6	7.1	5.3
	10	0.306	20.2	15.1	12.1	10.1	7.6
	20	0.433	26.6	21.4	17.1	14.3	10.7
	30	0.530	35.0	26.2	21.0	17.5	13.1
4916-72	5	0.226	14.9	11.2	8.9	7.5	5.6
	10	0.320	21.1	15.8	12.7	10.6	7.9
	20	0.453	29.9	22.4	17.9	14.8	11.2
	30	0.554	36.6	27.4	21.9	18.3	13.7
4916-73	5	0.233	15.4	11.5	9.2	7.7	5.8
	10	0.330	21.8	16.3	13.1	10.9	8.2
	20	0.467	30.8	23.1	18.5	15.4	11.6
	30	0.572	37.8	28.3	22.7	18.9	14.2
4916-75	5	0.245	16.2	12.1	9.7	8.1	6.1
	10	0.347	22.9	17.2	13.7	11.5	8.6
	20	0.491	32.4	24.3	19.4	16.2	12.2
	30	0.601	39.7	29.7	23.8	19.8	14.9
4916-78	5	0.272	18.0	13.5	10.8	9.0	8.7
	10	0.385	25.4	19.1	15.2	12.7	9.5
	20	0.544	35.9	26.9	21.5	18.0	13.5
	30	0.667	44.0	33.0	26.4	22.0	16.5
4916-80	5	0.280	18.5	13.9	11.1	9.2	6.9
	10	0.397	26.2	19.7	15.7	13.1	9.8
	20	0.561	37.0	27.8	22.2	18.5	13.9
	30	0.687	45.3	34.0	27.2	22.7	17.0
4916-81	5	0.290	19.1	14.4	11.5	9.6	7.2
	10	0.411	27.1	20.3	16.3	13.8	10.2
	20	0.581	38.3	28.8	23.0	19.2	14.4
	30	0.711	46.9	35.2	28.2	23.5	17.6
4916-83	5	0.317	20.9	15.7	12.6	10.5	7.8
	10	0.449	29.6	22.2	17.8	14.8	11.1
	20	0.634	41.8	31.4	25.1	20.9	15.7
	30	0.777	51.3	38.5	30.8	25.6	19.2
4916-86	5	0.332	22	16	13.1	11	8.2
	10	0.470	31	23	19	16	11.6
	20	0.664	44	33	26	22	18
	30	0.813	54	40	32	27	20
4916-89	5	0.346	23	17	14	11.4	8.6
	10	0.490	32	24	19	16	12.1
	20	0.693	46	34	27	23	17
	30	0.849	56	42	34	28	21
4916-91	5	0.389	24	18	15	12.2	9.1
	10	0.523	35	20	21	17	12.9
	20	0.739	49	37	29	24	18
	30	0.905	60	45	36	30	22
4916-93	5	0.387	26	19	15	12.8	8.6
	10	0.547	36	27	22	18	14
	20	0.774	51	38	31	26	19
	30	0.947	63	47	38	31	23
4916-95	5	0.404	27	20	18	13	10
	10	0.572	38	28	23	19	14
	20	0.808	53	40	32	27	20
	30	0.990	65	49	39	33	25
4916-98	5	0.442	29	22	18	15	10.9
	10	0.625	41	31	25	21	15
	20	0.884	56	44	35	29	22
	30	1.08	71	53	43	36	27
4916-103	5	0.461	30	23	16	15	11.4
	10	0.653	43	32	26	22	16
	20	0.823	61	46	37	30	23
	30	1.13	75	56	45	37	28
4916-107	5	0.518	34	28	21	17	12.8
	10	0.733	48	36	29	24	18
	20	1.04	69	51	41	34	26
	30	1.27	84	63	50	42	31
4916-110	5	0.548	36	27	22	18	14
	10	0.775	51	38	31	26	19
	20	1.10	73	54	44	36	27
	30	1.34	88	66	53	44	33
4916-115	5	0.605	40	30	24	20	15
	10	0.855	56	42	34	28	21
	20	1.21	80	60	48	40	30
	30	1.48	96	73	59	49	37
4916-120	5	0.629	42	31	25	21	16
	10	0.890	59	44	35	29	22
	20	1.26	83	62	50	42	31
	30	1.54	102	76	61	51	38
4916-125	5	0.883	46	34	27	23	17
	10	0.980	65	49	39	32	24
	20	1.39	92	69	55	46	34
	30	1.70	112	84	67	56	42
4916-128	5	0.721	48	36	29	24	18
	10	1.02	67	50	40	34	25
	20	1.44	95	71	57	48	36
	30	1.77	117	88	70	58	44
4916-132	5	0.774	51	38	31	26	19
	10	1.10	73	64	44	36	27
	20	1.55	102	77	61	51	38
	30	1.90	125	94	75	63	47
4916-136	5	0.840	55	42	33	26	21
	10	1.18	79	59	47	39	28
	20	1.68	111	83	67	55	42
	30	2.06	136	102	82	68	61
4916-140	5	0.894	59	44	35	30	22
	10	1.27	84	63	50	42	31
	20	1.79	118	89	71	59	44
	30	2.19	145	108	87	72	54
4916-144	5	0.926	61	46	37	31	23
	10	1.31	86	65	52	43	32
	20	1.85	122	92	73	61	46
	30	2.27	150	112	90	75	56
4916-147	5	0.953	63	47	38	31	24
	10	1.35	89	67	53	45	33
	20	1.91	126	95	78	63	47
	30	2.33	154	115	92	77	58
4916-151	5	1.04	69	51	41	34	28
	10	1.47	97	73	58	49	36
	20	2.08	137	103	62	69	51
	30	2.55	168	126	101	84	63
4916-156	5	1.10	73	54	44	36	27
	10	1.55	102	77	61	51	38
	20	2.20	145	109	87	73	54
	30	2.69	178	133	107	89	67
4916-161	5	1.15	76	57	46	36	28
	10	1.63	108	81	65	54	40
	20	2.31	152	114	91	76	57
	30	2.83	187	140	112	93	70
4916-166	5	1.21	80	60	48	40	30
	10	1.72	114	85	68	57	43
	20	2.43	160	120	95	80	60
	30	2.97	196	147	118	98	74
4916-170	5	1.30	86	64	51	43	32
	10	1.84	121	91	73	61	46
	20	2.61	172	129	103	86	65
	30	3.19	211	158	126	106	79
4916-172	5	1.30	90	67	54	45	34
	10	1.92	127	95	76	63	48
	20	2.71	179	134	107	89	67
	30	3.32	219	164	131	110	82
4916-177	5	1.41	93	70	56	47	35
	10	2.00	132	99	79	68	50
	20	2.83	187	140	112	83	70
	30	3.46	228	171	137	114	86
4916-182	5	1.47	97	73	58	49	36
	10	2.08	137	103	62	69	51
	20	2.95	195	146	117	97	73
	30	3.61	238	179	143	119	89
4916-187	5	1.56	103	77	62	51	39
	10	2.21	146	109	88	73	55
	20	3.12	206	154	124	103	77
	30	3.82	252	189	151	126	95
4916-196	5	1.73	114	88	69	57	43
	10	2.45	162	121	97	81	61
	20	3.46	228	171	137	114	86
	30	4.24	280	210	168	140	105
4916-205	5	1.88	124	93	74	62	47
	10	2.65	175	131	105	87	66
	20	3.75	248	186	149	124	93
	30	4.59	303	227	182	151	114
4916-218	5	2.11	139	104	84	70	52
	10	2.98	197	148	118	98	74
	20	4.21	276	208	167	139	104
	30	5.16	341	255	204	170	126
4916-234	5	2.45	162	121	97	81	61
	10	3.47	229	172	137	115	86
	20	4.91	324	243	194	162	122
	30	6.01	387	297	238	198	149
4916-250	5	2.83	187	140	112	93	70
	10	4.00	264	198	158	132	99
	20	5.66	374	280	224	167	140
	30	6.83	457	343	274	229	172

TEEJET NOZZLE CAPS

Quick TeeJet®

Hi-Pressure Caps for Pressures up to 300 psi

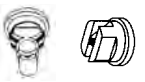


19438-EPR EPDM standard **$ .88**

19438-VI Viton optional **$ 3.45**

Hi-Pressure Quick TeeJet Cap and Seal Gasket Set

For use with Spray Tips

Quick Teejet Caps	PART NUMBER		
	Quick Teejet Cap Only	Quick Teejet Cap Seat Gasket Set	
	**25611- * -NY**	**25612- * -NYR**	 **TeeJet Flat Spray Tips** (Smaller Capacities) XR -01 Thru -08 TT -01 Thru -08 AIXR -015 Thru -06 TTJ60 All **APTJ** All **150 (Double Outlet)** All
	**25609- * -NY**	**25610- * -NYR**	 XR(SS) -10 Thru -15
	**25597- * -NY**	**25598- * -NYR**	 **AIXR** -08 Thru -10 **AITTJ** -015 Thru -06 **TTI** -015 Thru -06 **AI** All **SJ3** All **TJ60** All
	**25599- * -NY**	**25600- * -NYR**	 **TF-VS FloodJet** **TF-VP FloodJet** **TK-VS FloodJet**
	**25607- * -NY**	**25608- * -NYR**	 **TK-SS FloodJet** **TP StreamJet** **Hose Shank**
	---	**114502A-*-CELR**	**AITTJ60** -08 Thru -15 **TTI** -08 Thru -10 **TT** -10 Thru -12 ***Only available in Black, White, Light Green, Light Blue, and Raspberry Red**
	---	**QJ4676-1/4-NYR**	Permits use of standard ¼" nozzles. Can be used for mounting pressure gauge at the nozzle.
	---	**19843-NYR**	Provides shut-off at nozzle for quick spacing change or change in spray swath.

PART NO.	DESCRIPTION	LIST
25611 * NY	Cap ONLY	$ 1.23
25609 * NY	Cap ONLY	$ 1.41
25597 * NY	Cap ONLY	$ 1.41
25599 * NY	Cap ONLY	$ 1.41
25607 * NY	Cap ONLY	$ 1.41
QJ4676 1/8 NYR	Cap & Gasket	$ 3.84
QJ4676 1/4 NYR	Cap & Gasket	$ 3.84
19843 NYR	Blank Cap	$ 3.67
19438 EPR	Gasket EPDM	$ .88
19438 VI	Gasket VITON	$ 3.45
18999 EPR	Orifice Gasket (EPDM)	$ 1.82
18999 VI	Orifice Gasket (VITON)	$10.86
QJ4676 45 1/4 NYR	45° Quick Teejet Cap	$ 7.26
QJ4676 90 1/4 NYR	90° Quick Teejet Cap	$ 7.26

PART NO.	DESCRIPTION	LIST
25612 * NYR	Cap & Gasket	$ 1.73
25610 * NYR	Cap & Gasket	$ 1.95
25598 * NYR	Cap & Gasket	$ 1.95
25600 * NYR	Cap & Gasket	$ 1.95
25608 * NYR	Cap & Gasket	$ 1.95
114502A * CELR	Cap & Gasket	$ 3.20

HARDI
Cap & Gaskets

23306H * CELR	Fits TT, XR Nozzles	$ 2.01
21398H * CELR	Fits AI, TJ Nozzles	$ 2.01
23308EPR	Gasket EPDM	$ 1.01
55240-CELR	Adapts Hardi to TeeJet Connection	$ 4.49

WILGER

40203	Adapts Wilger Nozzle Body to TeeJet Connection	$ 4.97

* Specify Color Code

Black	1
White	2
Red	3
Blue	4
Green	5
Yellow	6
Brown	7
Orange	8
Gray	9

QuickTeeJet®

11/16" - 16
QJT-NYB



11/16" - 16
QJT8360-NYB



¼" NPT
QJ1/4T-NYB



QJ8355-NYB



22674-1/4-NYB





QJ1/4TT-NYB



QJ8360-NYB

PART NO.	DESCRIPTION	LIST
QJ1/4TT NYB	Quick Teejet Body	$ 4.49
QJT NYB	Quick Adapter/Boom	$ 8.31
22674 1/4 NYB	Quick Teejet ¼" 45°	$ 4.49
QJ1/4T NYB	Quick Teejet ¼"	$ 4.49
QJ8360 NYB	Check Valve ¼" MPT	$ 8.15
QJT8360 NYB	Check Valve Noz. Thd.	$ 8.88
QJ8355 1/4 NYB	Quick Tach-top Diaphragm	$16.35
19191 R	Gasket for QJT NYB	$ 3.13

11750 TeeJet 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 and polypropylene. . . stainless steel ball and spring.

PART NO.	DESCRIPTION	LIST
11750 SS 10	10 PSI Stainless Check Valve	$ 34.13
11750 SS 5	5 PSI Stainless Check Valve	$ 34.13
11750 PP 10	10 PSI Poly Check Valve	$ 9.12
11750 PP 5	5 PSI Poly Check Valve	$ 9.12

CHECK VALVE ASSEMBLY

PART NO.	DESCRIPTION	LIST
QJT-50	½" Hose Assy	$ 11.25
QJT-38	⅜" Hose Assy	$ 11.25
QJ 98595-1/4-5	¼" Airline Assy	$ 28.09
QJ 98594-3/8-5	⅜" Airline Assy	$ 28.09
QJ 114401-5/16-5	5/16" Airline Assy	$ 28.09
QJ 98588-1/4	¼" Airline Cap Only	$ 9.17
QJ 114398-5/16	5/16" Airline Cap Only	$ 9.17
QJ 98586-3/8	⅜" Airline Cap Only	$ 9.17



Airline Cap Only



Hose Check Valve Assy

Airline Check Valve Assy





21953 Diaphragm
EPDM or Viton

21950 End Cap
2, 5, 10 PSI



PART NO.	DESCRIPTION	LIST
21953 EPR	EPDM Diaphragm	$ 0.80
21953 VI	Viton Diaphragm	$ 2.44
21950 10 NYB	End Cap 10 PSI	$ 5.91
21950 2 NYB	End Cap 2 PSI	$ 5.91
21950 5 NYB	End Cap 5 PSI	$ 5.91

4193A TeeJet
Strainer and Check Valve



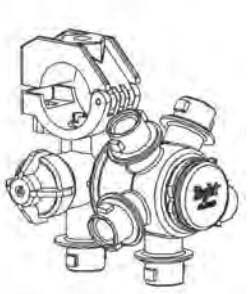
Minimizes nozzle dripping ... fits all TeeJet nozzles. Ball check opens at 5 psi. Recommended for flow rates up to 0.8 GPM. 24, 50, 100, 200 mesh screens.

NOTE: Use of these Ball Check Valves results in a pressure drop of 5 to 10 psi depending on spring rating.

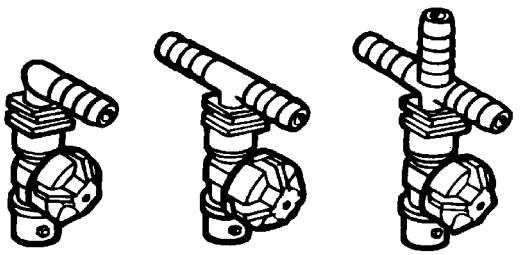
PART NO.	STRAINER/BALL CHK.	MESH	PSI	LIST
4193A PP 5 24SS	Polypro-SS Ball	24	5	$ 6.45
4193A PP 5 50SS	Polypro-SS Ball	50	5	$ 6.45
4193A PP 5 100SS	Polypro-SS Ball	100	5	$ 6.45
4193A SS 5 50SS	Stainless Steel	50	5	$ 31.66

NOZZLE BODIES

Multiple Nozzle Bodies with Fertilizer Outlet



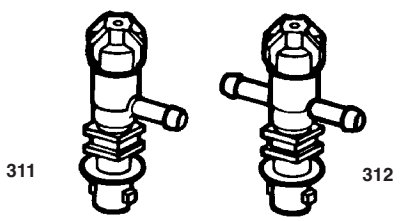
PART NO.	DESCRIPTION	LIST
QJ363F-1-NYB	1" Wet Boom Turret, 3 Spray Outlets	$ 31.45
QJ364F-1-NYB	1" Wet Boom Turret, 4 Spray Outlets	$ 31.45
QJ365F-1-NYB	1" Wet Boom Turret, 5 Spray Outlets	$ 31.45
QJ363F-1000-1NYB	1" Single Hose Shank, 3 Spray Outlets	$ 37.72
QJ364F-1000-1NYB	1" Single Hose Shank, 4 Spray Outlets	$ 37.72
QJ365F-1000-1NYB	1" Single Hose Shank, 5 Spray Outlets	$ 37.72
QJ363F-1000-2NYB	1" Double Hose Shank, 3 Spray Outlets	$ 37.72
QJ364F-1000-2NYB	1" Double Hose Shank, 4 Spray Outlets	$ 37.72
QJ365F-1000-2NYB	1" Double Hose Shank, 5 Spray Outlets	$ 37.72



211 212 213

Nozzle Bodies with Check Valves

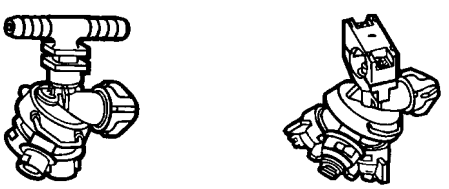
PART NO.	DESCRIPTION	LIST
211 406 NYB	⅜" Single/Check L	$ 16.13
211 540 NYB	½" Single/Check L	$ 16.13
211 785 NYB	¾" Single/Check L	$ 16.13
212 406 NYB	⅜" Double/Check T	$ 16.13
212 540 NYB	½" Double/Check T	$ 16.13
212 785 NYB	¾" Double Check T	$ 16.13
213 406 NYB	⅜" Triple/Check Cross	$ 16.13
213 540 NYB	½" Triple/Check Cross	$ 16.13
213 785 NYB	¾" Triple/Check Cross	$ 16.13



311 312

Nozzle Bodies with Check Valves

PART NO.	DESCRIPTION	LIST
311 375 NYB	⅜" Single Hose Shank	$ 13.34
311 500 NYB	½" Single Hose Shank	$ 13.34
311 750 NYB	¾" Single Hose Shank	$ 13.34
312 375 NYB	⅜" Double Hose Shank	$ 13.34
312 500 NYB	½" Double Hose Shank	$ 13.34
312 750 NYB	¾" Double Hose Shank	$ 13.34



24230 24216

Turret Nozzle Bodies

PART NO.	DESCRIPTION	LIST
24230 1 540 NYB	½" Single Turret	$ 34.64
24230 2 540 NYB	½" Double Turret	$ 34.64
24230 1 785 NYB	¾" Single Turret	$ 34.64
24230 2 785 NYB	¾" Double Turret	$ 34.64
24230 3 785 NYB	¾" Triple Turret	$ 34.64
24216 3/4 NYB	Wet Boom Turret ¾"	$ 18.43
24216 1 NYB	Wet Boom Turret 1"	$ 18.43





"All nozzle bodies come with 5# check valves"

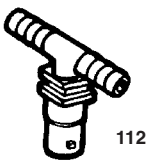
PART NO .		NUMBER OF SPRAY OUTLETS	TO FIT HOSE I.D.	LIST PRICE
SINGLE	DOUBLE			
QJ363 500-1-NYB	QJ363 500-2-NYB	3	½"	$ 31.47
QJ363 750-1-NYB	QJ363 750-2-NYB	3	¾"	$ 31.47
QJ363 1000-1-NYB	QJ363 1000-2-NYB	3	1"	$ 31.47
QJ365 750-1-NYB	QJ365 750-2-NYB	5	¾"	$ 31.47
QJ365 1000-1-NYB	QJ365 1000-2-NYB	5	1"	$ 31.47

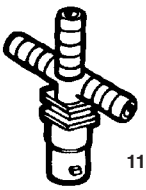
PART NO.	NUMBER OF SPRAY OUTLETS	TO CLAMP ON	LIST PRICE
QJ363 1/2 NYB	3	½" PIPE	$ 25.20
QJ373 3/4 NYB	3	¾" PIPE	$ 25.20
QJ373 1 NYB	3	1" PIPE	$ 25.20
QJ365 1 NYB	5	1" PIPE	$ 25.20

NOZZLE BODIES & CLAMPS

NOZZLE BODIES WITH HOSE SHANKS


111


112


113

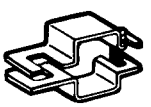
PART NO.	DESCRIPTION	LIST
111 406 NYB	⅜" Single L	$ 6.56
111 540 NYB	½" Single L	$ 6.56
111 785 NYB	¾" Single L	$ 6.56
112 406 NYB	⅜" Double T	$ 6.56
112 540 NYB	½" Double T	$ 6.56
112 785 NYB	¾" Double T	$ 6.56
113 406 NYB	⅜" Triple Cross	$ 6.56
113 540 NYB	½" Triple Cross	$ 6.56
113 785 NYB	¾" Triple Cross	$ 6.56

SPRAYING SYSTEMS QUICK TACH

Vari-Spacing Clamps for Boom

QJ111




QJ111SQ

PART NO.	DESCRIPTION	LIST
QJ111 1/2	For ½" Round Tube	$ 4.35
QJ111 3/4	For ¾" Round Tube	$ 4.35
QJ111 1	For 1" Round Tube	$ 4.35
QJ111 1 1/4	For 1¼" Round Tube	$ 4.35
QJ111SQ 3/4	For ¾" Square Tube	$ 4.35
QJ111SQ 1	For 1" Square Tube	$ 4.35
QJ111SQ 1 1/4	For 1¼" Square Tube	$ 4.35
QJ111SQ 1 1/2	For 1½" Square Tube	$ 4.35
QJ111SQ 3/4-304SS	For ¾" Square Tube Stainless	$ 9.53
QJ111SQ 1-304SS	For 1" Square Tube Stainless	$ 9.53
QJ111SQ 1 1/4-304SS	For 1¼" Square Tube Stainless	$ 9.53
QJ111SQ 1 1/2-304SS	For 1½" Squre Tube Stainless	$ 9.53

STANDARD

CLAMP SUB-ASSEMBLIES for Vari-Spacing Nozzles





PART NO.	DESCRIPTION	LIST
111 1/2	½" Round Boom Clamp	$ 7.40
111 3/4	¾" Round Boom Clamp	$ 7.40
111 1	1" Round Boom Clamp	$ 7.40
111 1 1/4	1¼" Round Boom Clamp	$ 12.85
111SQ 1	1" Square Boom Clamp	$ 8.49
111SQ 1 1/4	1¼" Square Boom Clamp	$ 12.76
111SQ 1 1/2	1½" Square Boom Clamp	$ 15.17

NYLON HOSE SHANK NOZZLES



PART NO.	DESCRIPTION	LIST
8120 NYB 406TD	⅜" Nylon "T"	$ 5.12
8121 NYB 406TD	⅜" Nylon "L"	$ 5.12
8120 NYB 540TD	½" Nylon "T"	$ 5.12
8121 NYB 540TD	½" Nylon "L"	$ 5.12
12670 406TD NYB	⅜" Nylon Straight	$ 10.63

HIGH FLOW NOZZLE BODIES FOR SELF PROPELLED SPRAYERS

3.0 GPM - MAXIMUM



PART NO.	DESCRIPTION	LIST
QJ383-3/4NYB	¾" Pipe	$ 49.83
QJ383-1NYB	1" Pipe	$ 49.83
98488-VI	Viton Seal to Retrofit Nozzle Body to Case, John Deere ($11/16$" to ⅜")	$ 10.68


QJ17560

WET BOOM NOZZLE BODY

PART NO.	DESCRIPTION	LIST
QJ17560 1/2 NYB	½" Pipe	$ 4.81
QJ17560 3/4 NYB	¾" Pipe	$ 4.81
QJ17560 1 NYB	1" Pipe	$ 4.81

NOZZLE FITTINGS



TeeJet®

TeeJet STRAINERS

Strainer is three part assembly consisting of body, cap and screen. Stainless steel screens in 24, 50, 100 and 200 mesh sizes.

TeeJet Strainer No.	Strainer Body & Cap Material	Mesh Screen Material
5053*	Brass	Stainless Steel
8079-PP*	Polypropylene	Stainless Steel
5053-AL*	Aluminum	Stainless Steel
6051-SS*	Stainless Steel	Stainless Steel

* Specify mesh size when ordering.

PART NO.	DESCRIPTION	LIST
5053 50 SS	Brass/50M Screen	$ 4.65
5053 100 SS	Brass/100M Screen	$ 4.65
8079 PP 24	Poly/24M Screen	$ 1.98
8079 PP 50	Poly/50M Screen	$ 1.98
8079 PP 100	Poly/100M Screen	$ 1.98

NOZZLE FITTINGS

TeeJet NOZZLE CAPS

Fit all TeeJet bodies



TeeJet Cap No.	Material
1325	Brass
8027-NY	Nylon
8027-1-NY	Nylon (Extra long size)
1325-AL	Aluminum
1325-ALEF	Aluminum, Electrofilmed
1325-I	Steel
1325-SS	Stainless Steel

PART NO.	DESCRIPTION	LIST
1325	Brass Cap	$ 2.26
1325 AL	Aluminum Cap	$ 2.16
1325 SS	Stainless Cap	$ 13.19
8027 NYB	Nylon Cap	$ 1.53
18032A NYB	Nylon Wing Cap	$ 2.09

TEEJET NOZZLE BODIES



Type-TT
Male Inlet Connection

TEEJET BODY NO.	FOR TEEJET NOZZLE TYPE	MALE NPT SIZE	MATERIAL	LIST
1336	1/8TT	⅛"	Brass	$ 3.69
1322	1/4TT	¼"	Brass	$ 3.69
8028 NYB	1/4TT NYB	¼"	Nylon	$ 2.64
1322 SS	1/4TT SS	¼"	Stainless Steel	$ 24.19
1324	3/8TT	⅜"	Brass	$ 3.69
1340	1/2TT	½"	Brass	$ 13.34



Type-T
Female Inlet Connection

TEEJET BODY NO.	FOR TEEJET NOZZLE TYPE	FEMALE NPT SIZE	MATERIAL	LIST
1335	1/8T	⅛"	Brass	$ 3.69
1321	1/4T	¼"	Brass	$ 3.69
12094 NYB	1/4 NYB	¼"	Nylon	$ 2.59
1321 SS	1/4T SS	¼"	Stainless Steel	$ 24.19
1323	3/8T	⅜"	Brass	$ 6.23
1339	1/2T	½"	Brass	$ 13.33

WILGER BOOM END FLUSH VALVES



- Compact design
- Large internal diameter to maximize flow and minimize chemical residue
- Viton O-rings come standard

25175-V0 Fits on 1¼" NPT **LIST $ 34.83**
25176-V0 Fits on 1" NPT **LIST $ 41.32**
41402-V0 Fits on Case booms **LIST $ 34.83**

ADAPTERS

Adapter No.	Material	Outlet Conn. N.P.T. (F)
4676	Brass	⅛", ¼", ⅜" ½" or ¾"
4676-NY	Nylon	⅛" or ¼"
4676-AL	Aluminum	⅛" or ¼"
4676-SS	Stainless Steel	⅛", ¼", ⅜" ½" or ¾"

PART NO.	DESCRIPTION	LIST
4676 1/4	Brass ¼" FPT	$ 4.59
4676 3/4	Brass ¾" FPT	$ 19.31
4676 NYB 1/4	Nylon ¼" FPT	$ 3.78
4676 SS 1/4	Stainless ¼"	$ 15.43
4676 SS 3/8	Stainless ⅜"	$ 24.98
4676 SS 1/2	Stainless ½"	$ 34.32
4676 SS 3/4	Stainless ¾"	$ 47.23



Type 8400

Type 4251



PART NO.	DESCRIPTION	LIST
8400 406 NYB	Nylon ⅜"	$ 1.74
8400 500 NYB	Nylon ½"	$ 1.74
4251 375	Brass ⅜"	$ 5.24
4251 500	Brass ½"	$ 5.24
4251 375 SS	SS ⅜"	$ 10.77
4251 500 SS	SS ½"	$ 10.77
QJHS 406 NYB	Nylon ⅜"	$ 14.17
QJHS 500 NYB	Nylon ½"	$ 14.17



TeeJet SLOTTED STRAINERS

One-piece strainers for use with liquids containing suspended solids.

TeeJet Strainer No.	Available Material	Equivalent To Mesh Sizes
4514 NY-10	Nylon	50
4514 NY-20	Nylon	25
4514 NY-32	Nylon	16

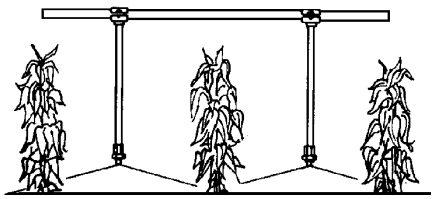
LIST $ 2.09

PLUG TIP

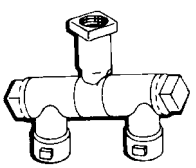
No. 3942 Plug Tip . . . to temporarily shut off selected nozzles, merely by replacing spray tips with these plug tips. Easy, quick way to change spacing of operating nozzles on boom.

PART NO.	DESCRIPTION	LIST
3942	Brass Blank Plug	$ .78
3942 AL	Aluminum Blank	$ .78
3942 SS	Stainless Blank	$ 1.14

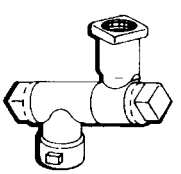
TeeJet®



PART NO.	DESCRIPTION	LIST
21353 6 15 NYB	Quick TeeJet Hose Drop, with EPDM Gasket, 15"	$ 19.30
21353 6 24 NYB	Quick TeeJet Hose Drop, with EPDM Gasket, 24"	$ 19.30
21354 15 NYB	TeeJet Hose Drop, Nylon Throughout	$ 12.77
21354 24 NYB	TeeJet Hose Drop, Nylon Throughout	$ 14.22



QJ8600-2-1/4-NY



QJ8600-1/4-NY

PART NO.	DESCRIPTION	LIST
8600 2 1/4T NYB	Nylon Double Swivel	$ 16.66
8600 1/4T NYB	Nylon Single Swivel	$ 13.71
QJ8600 2 1/4 NYB	Quickjet Double	$ 14.33
QJ8600 1/4 NYB	Quickjet Single	$ 11.90



XP BoomJet®

Features: Unique orifice geometry produces wide spray pattern while maintaining superior distribution across entire width • Extra wide spray pattern - up to 18.5 ft. • Pre-orifice design minimizes drift • Acetel or stainless steel construction for excellent chemical resistance

Typical Applications: Boomless field spray applications • Roadside and right-of-way applications • End row spraying • Orchard spraying • De-icing applications • Forestry



How to Order:
Specify part number.

PART NO.	DESCRIPTION	SIZE	LIST
1/4XP-*VP	Visiflo® Polymer Right or Left	Size 10	$ 81.12
1/4XP-*VP	Visiflo® Polymer Right or Left	Sizes 20 or 25	$ 81.12
1/2XP-*VP	Visiflo® Polymer Right or Left	Sizes 40 or 80	$ 96.62

**** Need to specify right or left spray when ordering***

TIP NO. / COLOR	PSI	CAPACITY ONE NOZZLE IN GPM	SPRAY WIDTH "W" (FEET)		HEIGHT = 24" GPA FOR SINGLE NOZZLE						HEIGHT = 36" GPA FOR SINGLE NOZZLE					
			24" HT	36" HT	2 MPH	4 MPH	6 MPH	10 MPH	15 MPH	20 MPH	2 MPH	4 MPH	6 MPH	10 MPH	15 MPH	20 MPH
1/4XP10RVP 1/4XP10LVP ORANGE	20	.071	8.5	10.0	21	10.3	6.9	4.1	2.8	2.1	17.6	8.8	5.9	3.5	2.3	1.8
	30	.87	10.0	11.0	22	10.8	7.2	4.3	2.9	2.2	19.6	9.8	6.5	3.9	2.6	2.0
	40	1.00	11.0	12.5	23	11.3	7.5	4.5	3.0	2.3	19.8	9.9	6.6	4.0	2.6	2.0
	50	1.12	12.5	13.5	22	11.1	7.4	4.4	3.0	2.2	21	10.3	6.8	4.1	2.7	2.1
	60	1.22	13.0	14.5	23	11.6	7.7	4.6	3.1	2.3	21	10.4	6.9	4.2	2.8	2.1
1/4XP20R 1/4XP20L (VP or VS) YELLOW	20	1.42	9.0	11.0	39	19.5	13.0	7.8	5.2	3.9	32	16	10.7	6.4	4.3	3.2
	30	1.75	11.5	12.0	38	18.8	12.6	7.5	5.0	3.8	36	18.0	12.0	7.2	4.8	3.6
	40	2.00	13.5	14.0	37	18.3	12.2	7.3	4.9	3.7	35	17.7	11.8	7.1	4.7	3.5
	50	2.25	14.5	15.0	38	19.2	12.8	7.7	5.1	3.8	37	18.6	12.4	7.4	5.0	3.7
	60	2.50	15.0	16.0	41	21	13.8	8.3	5.5	4.1	39	19.3	12.9	7.7	5.2	3.9
1/4XP25R 1/4XP25L (VP or VS) VIOLET	20	1.74	10.5	11.0	41	21.	13.7	8.2	5.5	4.1	39	19.6	13.1	7.8	5.2	3.9
	30	2.13	12.0	13.5	44	22	14.6	8.8	5.9	4.4	39	19.5	13.0	7.8	5.2	3.9
	40	2.5	13.5	14.5	46	23	15.3	9.2	6.1	4.6	43	21	14.2	8.5	5.7	4.3
	50	2.75	14.5	15.0	47	23	15.6	9.4	6.3	4.7	45	23	15.1	9.1	6.1	4.5
	60	3.00	15.0	16.0	50	25	16.5	9.9	6.6	5.0	46	23	15.5	9.3	6.2	4.6
1/2XP40R 1/2XP40L (VP or VS) RED	20	2.87	11.0	12.0	65	32	22	12.9	8.6	6.5	59	30	19.7	11.8	7.9	5.9
	30	3.53	13.0	14.5	67	34	22	13.4	9.0	6.7	60	30	20	12.1	8.0	6.0
	40	4.00	14.0	15.5	71	35	24	14.1	9.4	7.1	64	32	21	12.8	8.5	6.4
	50	4.55	15.0	16.0	75	38	25	15.0	10.0	7.5	70	35	23	14.1	9.4	7.0
	60	5.00	16.0	17.5	77	39	26	15.5	10.3	7.7	71	35	24	14.1	9.4	7.1
1/2XP80R 1/2XP80L (VP or VS) WHITE	20	5.60	13.0	15.4	107	53	36	21	14.2	10.7	89	45	30	17.9	11.9	8.9
	30	6.83	15.0	16.5	113	56	38	23	15.0	11.3	102	51	34	20	13.7	10.2
	40	8.00	16.0	17.5	124	62	41	25	16.5	12.4	113	57	38	23	15.1	11.3
	50	8.73	16.5	18.0	131	65	44	26	17.5	13.1	120	60	40	24	16.0	12.0
	60	9.60	17.5	18.5	136	68	45	27	18.1	13.6	128	64	43	26	17.1	12.8

#36516-3
8-WAY MANIFOLD



Part Number	Inlet (NPTF)	Outlet (NPTF)	Pressure PSIG
TM075050	¾"	½"	0-150

POLY MANIFOLD

PART NO.	DESCRIPTION	LIST
TM075050	¾" Inlet x ½" Outlet, ¼" Gauge Port	$ 60.54

DirectoValve®



144P

144A-1

144A Valve for Pressures up to 100 PSI

- 10 GPM flow with only 5 PSI pressure drop.
- Can be ganged with 144 and 144H Directo Valve control valves.
- 2 amp current draw.
- Polypropylene body for chemical resistance.

MODEL NO.	INLET SIZE	OUTLET SIZE	FLOW RATE AT 5 PSI PRESSURE DROP	MAXIMUM PRESSURE	LIST
144P 1	¾"	½"	10 GPM	100 PSI	$ 347.40
144A 1	¾"	½"	10 GPM	100 PSI	$ 231.87
145H 1	1"	1"	15 GPM	100 PSI	$ 576.62

REPAIR PARTS

PART NO.	DESCRIPTION	LIST
PKAB144 1 KIT	Repair Kit, EPDM	$ 45.28
PKAB144 1 VI KIT	Repair Kit, Viton	$ 67.70
PKAB144A 1 KIT	Repair Kit, New 144A Valve	$ 45.28
PKAB144A 1 VI KIT	Repair Kit, Viton for 144A	$ 67.70
PKAB144P 1 KIT	Repair Kit	$ 67.70

PART NO.	DESCRIPTION	LIST
PKAB145H KIT	Repair Kit, EPDM	$ 81.51
AB145H VI 1 KIT	Repair Kit, Viton	$ 116.78
18605 NYB	145 Replacement Coil	$ 176.76
15163 NYB	144A1 Replacement Coil	$ 83.42
45632	144P1 Replacement Coil	$ 234.20

144A-1-3 VALVE

• Three way solenoid operated. DirectoValve is designed to maintain constant spraying pressure when one or more boom sections are shut off.

• ¾" flow through connections with two ½" outlets provide large flow capacities with only 5 PSI pressure drop at 8 GPM flow. Maximum pressure 65 PSI.



144A-1-3 VALVE

Automatically maintains system pressure when valve is "ON" or "OFF"

LIST... **$ 342.70**

PKAB14413 KIT

Repair Kit LIST... **$ 51.96**



- 2-way and 3-way versions available.
- ¾" or 1" NPT (F) connections.
- Wetted parts: Nylon, Teflon, Polypropylene and Viton.
- Works with a simple single pole off/on switch
- 1 amp power consumption.
- 5 PSI pressure drop for 32 GPM flow.
- 14 second regulating version available
- 12 VDC operation.
- Accessory power cable available

344BEC

Remote Control Electric Ball Valves Compatible With All Sprayer Controls

MODEL NUMBER	NUMBER OF OUTLETS	CONNECTION SIZE	LIST
344BEC 23C	1	¾" NPT	$ 498.66
344BEC 24C	1	1" NPT	$ 498.66
344BEC 33C	2	¾" NPT	$ 610.24
344BEC 34C	2	1" NPT	$ 610.24
344BEC 2FC	1	1" Flange	$ 498.66

TeeJet 440 Series DirectoValve Manifold



- Quick, simple plumbing of up to five electric ball valves • Flexible inlet and outlet connection options • Easy mounting with built-in brackets
- Maximum pressure rating: 300 PSI/20 bar

443BEC44T4T LIST: **$ 1791.95**

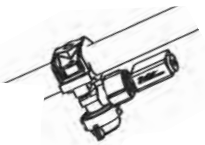
50515 22CP05 ... Replacement Motor ... LIST: **$ 422.41**



TeeJet 450 Series 3 Valve Manifold

453BEC2N4C	Threaded DirectoValve Bank	LIST:	**$ 1597.54**
453BEC2NFC	DirectoValve Manifold Bank	LIST:	**$ 1547.54**
453BEC3FBFC	DirectoValve Flowback Bank	LIST:	**$ 1757.26**

TEEJET VALVES



INEXPENSIVE ELECTRIC FENCE ROW SHUT-OFF

115880-1-12

SINGLE NOZZLE, NOZZLE BODY

LIST ... **$ 281.00**

98552-05

CABLE FOR SHUTOFF VALVES REQ.

LIST ... **$ 24.57**

6B 1

Manually Operated Control Valve

LIST ... **$ 82.86**

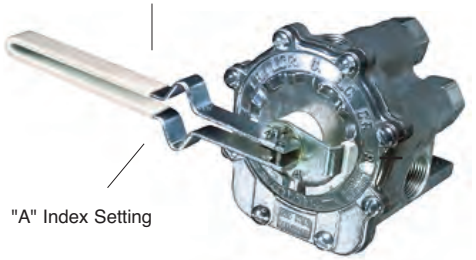
PKAB6B KIT Repair Kit

LIST ... **$ 34.81**



Control Valve

¼" NPT Pressure Gauge Port



"A" Index Setting

Side connection for bypass and pressure relief valve is interchangeable with spray gun connection.

17Y

← Manually Operated Control Valve

LIST .... **$ 210.39**

Repair Kit

PKAB17KIT

LIST ... **$ 58.44**



POLYPROPYLENE BALL VALVES



340M-PP Series Manual Ball Valves

- Quarter turn of handle from shutoff to full flow.
- 2-way and 3-way versions available. 3-way version diverts flow to either outlet; no shutoff.
- Wetted parts: glass-reinforced polypropylene, Teflon and Viton.

VALVE NUMBER	PRESSURE	NUMBER OF OUTLETS	CONNECTION SIZE	LIST
343M 3 3/8PP	150 PSI	2	⅜" NPT (F)	$ 86.56
343M 2 1/2PP	150 PSI	1	½" NPT (F)	$ 71.59
343M 3 1/2PP	150 PSI	2	½" NPT (F)	$ 86.56
344M 2 3/4PP	125 PSI	1	¾" NPT (F)	$ 73.31
344M 3 3/4PP	125 PSI	2	¾" NPT (F)	$ 88.67
344M 2 1PP	125 PSI	1	1" NPT (F)	$ 97.14
344M 3 1PP	125 PSI	2	1" NPT (F)	$ 88.67
346M 2 1 1/4PP	125 PSI	1	1¼" NPT (F)	$117.17
346M 3 1 1/4PP	125 PSI	2	1¼" NPT (F)	$142.80
346M 2 1 1/2PP	125 PSI	1	1½" NPT (F)	$117.77
346M 3 1 1/2PP	125 PSI	2	1½" NPT (F)	$142.80

RINSE NOZZLE & REGULATING VALVES

55270 Tank Rinsing Nozzle



- 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
- Provides 360° coverage of inside surface of tank for tank diameters up to 10'
- Self-lubricating and self-flushing design
- 9-20 GPM

PART NO.	DESCRIPTION	LIST
55270-3/4-18-POM	¾" Tank Rinsing Nozzle	$ 134.82

244C-3/4 Remote Control Electric Regulating Valve



The 244-3/4 butterfly valve provides remote pressure control. Features two-wire lead for use in 12VDC system, reduced pressure loss (1 PSI for 20 GPM flow), and maximum operating pressure of 100 PSI. ¾" NPT(F) connections. Good corrosion resistance. Low current draw (0.15 amp).

PART NO.	DESCRIPTION	LIST
244C 3/4	Regulating Valve	$ 274.60

Type 23520 Regulating Valve

Polypropylene construction for excellent chemical resistance. ½" and ¾" NPT connections. Pressures to 125 PSI. 10 PSI pressure drop at 10 GPM flow rate for ½", 18 GPM for ¾" size.



PART NO	LIST
23520 1/2 PP	$ 48.65
23520 3/4 PP	$ 48.65

Spring-Loaded Jug Rinsing Valve & Nozzle

Nozzle attached to a spring-loaded valve, designed to rinse out chemical jugs or measuring containers. The orifice in the tip of the rotating ball is directed upward and has enough force to remove the toughest deposits from the bottom of the container.



PART NO.	DESCRIPTION	LIST
CRN16454	½" Jug Rinsing Valve & Nozzle	$ 745.13

Diaphragm Type Pressure Relief/Regulating Valves



Nylon inlet body with aluminum bonnet. Choice of ½" or ¾" NPT (M) inlet and (F) outlet connections. Flow rates to 56 GPM for ½" size and to 70 GPM for ¾" size. Pressures to 50 and 300 PSI.

PART NO.	SIZE	PSI	LIST
8460 1/2	½"	300	$103.02
8460 1/2 50	½"	50	$103.02
8460 3/4	¾"	300	$103.02
8460 3/4 50	¾"	50	$103.02
AB8460 KIT	Repair Kit		$ 37.23

Piston Type Pressure Relief/Regulating Valves



Model 23120

Polypropylene with stainless steel spring.

- Excellent chemical resistance.
- EPDM Rubber O-Rings
- Choice of ½" or ¾" NPT (M) inlet and (F) outlet connections.
- For pressures to 100 PSI.
- ¼" port for pressure gauge.

Model 23120A

- Same as 23120 but with 316SS spring and Viton O-Ring

PART NO.	DESCRIPTION	LIST
23120 1/2 PP	Regulating Valve	$ 56.15
23120 3/4 PP	Regulating Valve	$ 56.15
23120A 1/2 PP	Regulating Valve	$ 84.78
23120A 3/4 PP	Regulating Valve	$ 84.78

CAMERA KITS



AgCam

7" Monitor with dual event switches, includes remote, 12V power, 110v power, and monitor stand

PART NO.	DESCRIPTION	NET
DMAC-H7	Monitor Only	$ 563.00
DMAC-H7-C1	Monitor w/1 Camera	$ 1199.00
DMAC-H7-C2	Monitor w/2 Cameras	$ 1850.00



DMAC-CK1

Camera with 60' x 20' Cables

NET... $ 658.00

DMAC-EC20	20' Extension Cable	Net ...$ 73.00
DMAC-EC60	60' Extension Cable	Net ...$ 99.00

DMOV-H7Q-C1

7" QUAD HD MONITOR
1 HD camera kit

NET $ 659.00

OVERVIEW

DMOV-EC20	20' Extension Cable	Net ...$ 33.00
DMOV-EC65	65' Extension Cable	Net ...$ 53.00

DMOV-HC
HD CAMERA

NET $ 190.00

DMOV-RC
STD CAMERA

NET $ 190.00



- 7" 1080P HD Monitor
- IP69K durability rating
- Standard 1080P HD camera
- 65 lb. magnet
- 30 ft. camera cable
- Three camera inputs
- Remote included

VWIC713HD NET... $ 349.00

Vision Works



- Rechargable internal battery, lasts 8 hours
- App available on iOS or Android
- 100' of wireless range
- Capable of 2 users at the same time
- IP68 durability rating

RVWIFI-BAT NET... $ 199.00



- 5" 1080P HD Monitor
- IP69K durability rating
- Standard 1080P HD camera
- 65 lb. magnet
- 15 ft. camera cable
- Three camera input

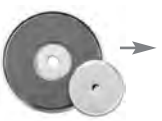
VWIC513HD NET... $ 349.00

HD Camera Kit w/ 30ft Cable

VWCAMBN1080 NET $ 179.00

Camera Kit w/ 30ft Cable

VWCAMBN NET $ 159.00



367D	Magnet, 3¼"
LJ45AMC	Heavy Duty Suction Cup, Able to Attach to RAM Mount



TEEJET



TeeJet Sentry 6141

ISOBUS Tip Flow Monitor



•Individually monitor flow performance from every spray tip or metering orifice on your equipment
•Compact flow meter integrated into every nozzle body
•Flow meter detects flow variation caused by clogs, nozzle damage or loss, or upstream flow restrictions
•With ISOBUS compatability, Sentry 6141 can connect to any UT display without having to add a dedicated console
•Errors are indicated by audible alarm, display notification, and illuminated LED at the affected nozzle
•System can handle up to 120 nozzles simultaneously
•Flow meters are rated from 0.15-2.5 GPM

Sentry Flow Meter

The turbine style flow meter used with the Sentry 6141 is compact and reliable. The threaded connection allows the sensor to be added to various TeeJet single and multiple outlet nozzle bodies. Flow meter attaches in between the nozzle body and the diaphram check valve to provide positive spray tip shutoff.



SURESPEED

SureSpeed is a complete high-speed, high-accuracy planting solution with superior performance at speeds up to 12 mph. This integrated seed metering and delivery system provides 99%+ singulation and the lowest seed delivery point in the industry for optimal seed placement. Accuracy is a priority and speed is a bonus.

FEATURES

•**Performance-** Unique meter orientation and brush wheel controls transfer of seed from disk to delivery belt to maximize singulation and perfect spacing at all speeds. Flighted delivery belt has lowest release point in the industry.

•**Low Maintenance-** Sealed gearboxes, brushless DC motors, and kevlar reinforced belt are built for performance and longevity.

•**Built for the Field-** Tool-less disassembly is built for ease of inspection and care of system. Stainless steel and teflon infused seed disk reduces drag and static electricity buildup.

•**Color-Blind-** Built to install on various makes and models of box hopper and bulk fill planters.



AG LEADER

SUREFORCE™

SureForce™ automatically adjusts weight on the planter to maintain consistent depth no matter the field conditions. SureForce™ is bi-direction control with integrated hydraulic down force with uplift capability.



FEATURES

•**1 Sensor per Row-** Gauge wheel sensor on every row to give accurate reading for gauge wheel load recorded and down force or uplift applied.

•**200 Readings per Second-** Weight on the gauge wheel of every row is sensed 200 times per second and force is automatically adjusted up or down to maintain consistent depth based on changing field topography, soil conditions, planter weight, etc.

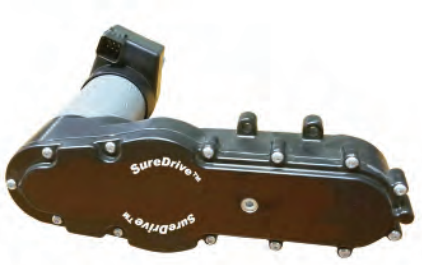
•**From 1 to 36 Rows of Control-** Individual row control for just about any make, model, or size from 1-36 rows- including interplants.



SUREDRIVE®



SureDrive® is Ag Leader's electric drive solution. Of the many features of electric drives, growers gain precise control of meter preformance to incorporate variable rate planting, turn compensation, and row-by-row shut-off.



FEATURES

•**Color-Blind-** Built to install on most major planter brands on the market and isn't tied to specific brand or type of seed meter.

•**Maintenance Free-** Sealed, robust construction is maintenance free for season after season durablility and reliablility while eliminating upkeep on chains and bearings.

•**Strongest Drive on the Market-** Four cold forged, high-grade steel gears, precision bearings, and a drive chain, all submersed in a full synthetic fluid bath. This makes for a high quality electric drive that can control even hard pulling finger meters.

•**Turn Compensation-** Automatically adjust meter speed on each row to keep a consistent population around turns and contours.

•**Powerful Meter Control-** Consistent, hyper-responsive meter control for easy variable rate control and individual row shut-off.

AG LEADER



SteadySteer Assisted Steering

Optional assisted steering for the GPS 7000, GPS 7500, or Third Party Receivers

- Quick, easy installation with 13 possible motor orientations
- Detachable motor and quick release cables make transferring between vehicles a breeze
- New gear teeth design and high-torque motor delivers more power with quiet operation
- Steering module can be upgraded with an unlock to allow integrated and hydraulicsteering
- Can be paired with any InCommand display with any GPS receiver
- Auto headland turning with the added TurnPath™ unlock

GPS 7000

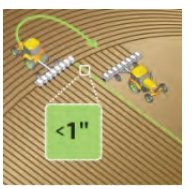
- Entry-level option for growers seeking a cost effective receiver.
- Differential corrections include GLIDE, WAAS, TerraStar-C Pro, and RTK
- Increased signal uptime provided by standard StableLoc™technology.
- Outputs simulated radar speed.
- LED diagnostics for at-a-glance monitoring.
- Sealed, compact, rugged design.



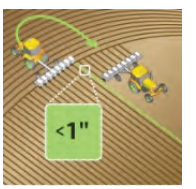
GPS 7500

- Fully scalable, rugged smart antenna, designed to meet the need of extended RTK lines in excess of 20 miles
- Differential corrections include GLIDE, WAAS, TerraStar-C Pro, TerraStar-X, and RTK
- RTK Assist provides 20 min. of signal when RTK signal is lost
- Increased signal uptime provided by standard StableLoc™ technology.
- GLONASS comes standard
- Output simulated radar speed.
- Up to 20 Hz output.
- LED dianostics for system monitoring.

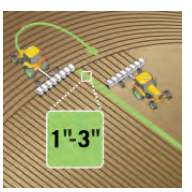




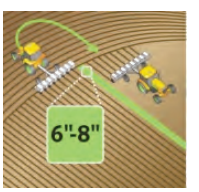
RTK



TerraStar-X



TerraStar-C Pro



WAAS

RTK ASSIST

RTK ASSIST maintains RTK-Level performance for up to 20 minutes during RTK radio blind spots or cell network interuptions. Automatic 20 minute reset once signal reconnects.



STEERCOMMAND™ AUTOMATED STEERING SYSTEM

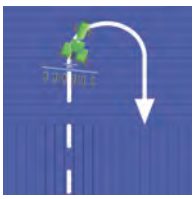
For growers seeking an integrated steering experience, SteerCommand Z2™ offers best-in-class intergrated steering performance.

- Nine-Axis Terrain Compensation accomodates for roling ground and driving through waterways, ditches and over terraces.
- Maximum compatibility with custom installation kits for many different vehicles.
- Easy user friendly calibration and auto detection of orientation makes installation fast and simple.
- Auto headland turning with the added TurnPath™ unlock

RightPath™

Passive implement steering to keep your implement centered on the guidance line

•**Proper Implement Placement-** Proper placement of your implement ensures precise input placement, increases efficiency, and minimizes crop damage, yield loss and operator challenges
•**Broad Compatibilty-** Compatible with InCommand Go displays with Ag Leader's SteadSteer or SteerCommand Z2 systems for mixed fleets of new or old equipment
•**GPS-Correction Flexability-** Supports GPS 7500 receivers on TerraStar-C Pro, TerraStar-X, or RTK corrections



TurnPath™

TurnPath™ allows the InCommand display to automatically generate a guidance line for an accurate turn and approach. All that is needed is either a SteadySteer or SteerCommand Z2, field boundary, and TurnPath unlock. There is also a 24 hour free TurnPath™ trial with all InCommand displays.

SeedCommand™

SeedCommand provides complete control over planting operations - from seeding populations that vary based on planting prescriptions to the AutoSwath feature that automatically turns planter sections ON/OFF based on a field map.



Variable Rate Planting



Planter Monitoring



Hybrid/Variety Mapping



Split Planting



AutoSwath controls planter clutches to automatically turn planter sections on/off based on field maps and already planted areas.



SureStop™ Clutch

Air Seeder Support - Ag Leader offers support for ground drive air seeder carts with linear actuator control. Calibration enhancements, meter prime feature and support for meter circuit clutches provide the benefits of SeedCommand to broad-acre seeding: AutoSwath, logging and mapping, variable rate seeding/fertilizer application and more

RightSpot™

RightSpot™ gives you nozzle-by-nozzle control with turn compensation. This allows you to achieve a wider speed range at the same rate and pressure with the same nozzle tip.

FEATURES

•**Nozzle-By-Nozzle-** Supports booms with up to 144 nozzles.

•**Consistant Coverage-** Flow rate and pressure are controlled independently to keep the same droplet size through turns and speed changes.

•**Blended Pulse Technology®-** Alternates pulsing at the nozzle to eliminate skips in spray pattern.

•**Color-Blind-** RightSpot™ fits on most common brands and models of sprayers and nozzle bodies. Including John Deere, Case, Hagie, Rogator, and Apache with Hypro/Arag, Teejet, or Wilger nozzle bodies.





InCommand Go 16

This large, full-color 15.6" HD touchscreen controller is the command post of an advanced precision farming operation. InCommand Go 16 does it all: planter and application control, yield monitoring, real-time data logging and more. You're connected to the world and controlling it from your cab - all while steering hands free with accuracy and repeatability. Supported by SMS advanced precision farming desktop software, InCommand Go16 offers file format compatibility with many other hardware solutions, including managing and moving guidance lines across precision farming systems.

- Planter Control
- Multi-product Variable Rate Control
- AutoSwath Control
- Data/Coverage Logging
- Steering WAAS to RTK and more
- Air Seeder Support
- Application Control (liquid and granular)
- Boom Height Control
- Yield Monitoring
- SMS Software Compatibility
- ISOBUS Compliant
- Ability to split screen



InCommand Go 10

The InCommand Go 10 display features a full color 10.1" HD touchscreen. The new InCommand Go10 is a versatile precision farming tool for farmers and growers who want year-round operation control, as well as integrated guidance and steering. Monitoring and application control is also included in the InCommand Go 10 package.

- Compatibility with the ISO 11783 (ISOBUS) Virtual Terminal Standard
- Real-time data logging and automated steering compatibility
- Built-in manual guidance
- Planter and application control
- Multiple map views through the display
- Implement-specific tabs that can be minimized
- Full-screen mapping
- Yield Monitoring
- Four video camera inputs
- Easy mobility from vehicle to vehicle

The InCommand Go 10 Guidance display features a full color 10.1" HD touchscreen. It offers the reliability of an Ag Leader product for someone just looking for basic guidance or the ability to run automated steering.

- Compact design with built-in lightbar
- Built-in manual guidance
- Works with automated steering systems
- Compatibility with ISO 11783 Virtual Terminal
- Full Screen mapping
- Can be unlocked to full InCommand Go 10 capabilities with an unlock

DISPLAY FEATURE COMPARISON

	InCommand Go 16	InCommand Go 10	InCommand Go 10G
DISPLAY FEATURES			
Display Size	15.6”	10.1”	10.1”
Pinch, Pan, Swipe, Zoom Gesture	✓	✓	✓
Split Screen	✓		
Headlands	✓	✓	✓
Multiple Product Control	Up to 8	Up to 3	
Camera Support	✓	✓	✓
AgFiniti	✓	✓	✓
DisplayCast	✓	✓	✓
Precription Scaling	✓	✓	
Remote Support	✓	✓	✓
GUIDANCE & STEERING			
Lightbar Guidance	✓	✓	✓
SteadySteer Mechanical Steering	✓	✓	✓
SteerCommand Z2 Hydraulic Steering	✓	✓	✓
GLIDE, SBAS (WAAS/EGNOS), TerraStar, RTK	✓	✓	✓
SmartPath	✓	✓	✓
Coverage Mapping	✓	✓	✓
StableLoc	✓	✓	✓
PLANTING/SEEDING			
Hybrid/Variety Logging	✓	✓	
Variable Rate Planting	✓	✓	
Planter Section Control (AutoSwath)	36 Sections	36 Sections	
Split-Planter Logging	✓	✓	
Planter Population Monitoring	✓	✓	
Advance Seed Monitoring	✓	✓	
Row-by-Row Planter Performance	✓	✓ (STMM/PMM)	
SureDrive, SureForce, SureSpeed Support	✓		
APPLICATION CONTROL			
Liquid Product Application Control	✓	✓	
Liquid Section Control (AutoSwath)	36 Sections	36 Sections	
Variable Rate Application	✓	✓	
Chemical Injection	✓	✓	
SmartReport	✓	✓	
AutoSwath Based on Previously Applied Maps	✓	✓	
Container Sequencing	✓	✓	
Dry Product Application Control	✓	✓	
Strip-Till	✓	✓	
Air Seeder Support	✓	✓	
RightSpot™	✓		
YIELD MONITORING			
Grain Harvest	✓	✓	
Harvest Variety Tracking	✓	✓	
Load Variety Maps	✓	✓	
CartACE	✓	✓	✓
WATER MANAGEMENT			
Topography Mapping	✓		
Survey Collection	✓		
Intellislope Plow Control	✓		
ISOBUS			
Universal Terminal Support	✓	✓	✓
Task Controller	✓	✓	

YIELD MONITORING

Ag Leader provides the most widely-used grain yield monitoring technology in the world. Create and view yield and moisture maps while harvesting and instantly observe how field conditions affect yield.

- More accurate yield data
- On-the-go yield comparisons
- Better hybrid/variety selections
- In-depth performance analysis
- Make storage decisions based on moisture readings in the field



Summary Screen

Harvest summary screen provides at-a-glance information about number of acres harvested, total and average bushels harvested and more.



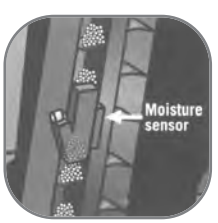
Yield and Moisture Mapping

View yield and moisture maps in real time for instant feedback on yield performance across the field.



Hybrid/Variety Yield Mapping

Overlay planting maps with real-time maps to view instant yield and moisture variations by hybrid/variety in the field. This provides better seed selection data for next planting season.



Grain is fed into the harvester's elevator where sensors read the moisture content of the grain.



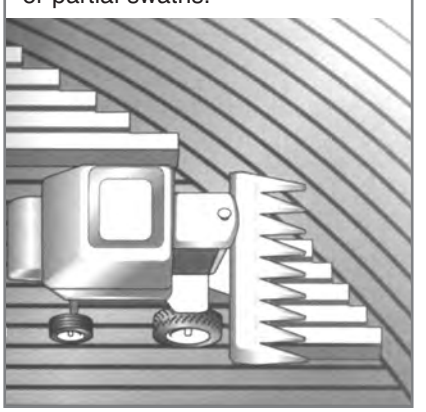
As the grain is delivered to the holding tank, the mass flow sensor monitors yield.



Information on both yield and moisture from the sensors are recorded by the InCommand display mounted in the cab.

AutoSwath™ for Harvest

Harvest data is recorded based on the number of rows being harvested, providing accurate data when harvesting point rows or partial swaths.



HARVEST FEATURES	InCommand Go10	InCommand Go16
AutoSwath	x	x
Grain Harvest	x	x
Hybrid Background Map		x
Harvest Variety Tracking		x
Guidance	x	x
Autosteer	x	x
Load Variety Maps		x

AG LEADER

Growers can now easily take their maps and data with them on their Ipad with the AgFiniti® mobile app. Ask us what AgFiniti® can do for you.



SMS FEATURES	BASIC	ADVANCED
File processing from most precision ag displays	x	x
Sorts data by geography	x	x
Generate crop plans	x	x
Create, manage and export guidance lines	x	x
Print summary maps, charts and reports	x	x
Write simple prescriptions	x	x
Download/import images	x	x
Query tools to analyze specific areas	x	x
Booklet printing		x
Equation writing		x
Calendar View		x
3D plotting and terrain viewing		x
Comparison analysis		x
Multi-year averaging		x
Network installation		x
Project Management		x
Dataset Playback		x

SMS™ Basic Software

SMS Basic is designed to help make bottom line improvements to any operation. Step-by-step software wizards and a common-sense interface make setup and using the software easy. SMS Basic works seamlessly with Ag Leader's precision farming hardware, but offers compatibility with other hardware solutions. Use SMS Basic on its own or as part of a grower/ consultant relationship with SMS Advanced.

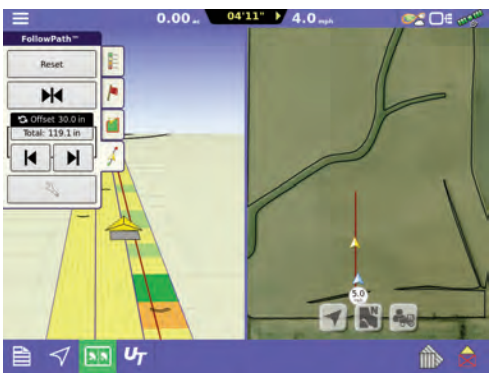
SMS™ Advanced Software

Managing information for multiple operations and clients is easy using SMS Advanced. In addition to powerful analysis tools, SMS Advanced serves as the data warehouse for those who provide precision farming information services to multiple grower clients. SMS Advanced allows consultants to spend less time crunching numbers and more time analyzing information that benefits the client's bottom line.

CartACE™

Utilize your existing Ag Leader autosteer to simplify grain cart operation by sharing guidance lines with the combine.

CartACE simplifies unloading-on-the-go by utilizing DisplayCast. The InCommand displays in the combine and grain cart tractor communicate back in forth, by using the combine's auger offset and direction of travel of the combine, to give the grain cart operator a guidance line to engage the autosteer that lines up perfectly with the combine auger. Also, if a grain tank counter is installed the grain cart operator can see how many bushels are in the grain tank.



BESTWAY AUTOGLIDE / RAVEN VSN®

AUTOGLIDE XR



- Rugged, long-range, ultrasonic sensors
- Electric over hydraulic control so there is no extra hydraulic components added to sprayer
- Easy to use and install
- 3-Mode setting: Bare Ground, Partial Canopy, or Full Canopy Mode for better performance in different field conditions
- Can be operated with stand-alone console or any ISOBUS display
- Additional bracket can attach sensors to Yield 360 Y-drops



VSN® Visual Guidance



VSN® transforms machine guidance through emerged crops. This innovation utilizes a non-contact stereo vision camera to navigate crop rows.



•Operate at high speeds, up to 20 mph even in full canopy
•Stays in row in crops from 4" to full canopy
•Automatically adjust to planting path inconsistencies
•Quick, easy in-field calibration
•Outperforms and is easier than RTK networks
•Utilizes non-contact radar sensors in full canopy crops instead of mechanical feelers, reducing crop damage
•Requires Raven Viper 4+ with either RS1 or SC1

RAVEN PRECISION

VIPER 4+

- Sleek design with 12.1" capacitive touchscreen and intuitive, tablet-like interface
- Horizontal or vertical orientation
- Dust-proof for tough environments
- Four camera input for monitoring bin levels, blind spots, roadway operation, and more
- Customizable user interface
- On-screen implement location with section status
- State-of-the-art rugged magnesium alloy enclosure
- Customization by user and machine
- Set up machine and product profiles
- Integrated, fully scalable GPS receiver including Slingshot® GS, Satellite GS and RTK
- ISO VT with task controller capabilities



CR7™

- 7" capacitive screen
- Ability to access settings while in a job
- ISO Universal Terminal and Task Controller functionality via unlock
- Straight A-B, pivot, contour, and last pass guidance
- Simplified, customizable widget layout
- Map-based navigation
- Compatible with autosteer products including DirectSteer, SmarTrax MD, RS1, and SC1
- Drop-in replacement for a legacy CR7 with 2x the processing power and 4x the memory



RS1™

- Combines autosteer, GPS, and Slingshot into one easy-to-use unit
- Compatible with Viper® 4+ and CR7™
- Remote performance monitoring and support through Slingshot
- Enhanced diagnostics and health tests
- Serial GPS output or radar output
- Compatible with both ISO Steer Ready and Raven Aftermarket Steering Controllers
- Simplified field calibration procedure
- Enhanced steering performance in a wide range of terrain
- Fully scaleable GPS solution



RAVEN PRECISION

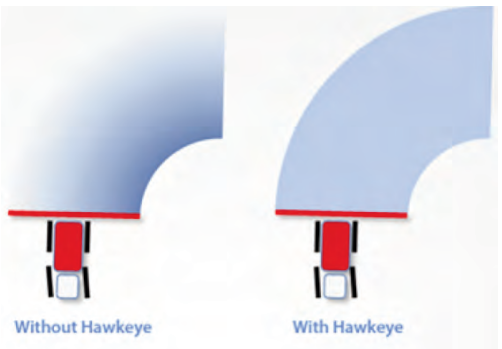
HAWKEYE 2®

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



BENEFITS

- Simple installation, setup, and calibration
- Precise application rate in a variety of conditions
- Consistent coverage
- Wide speed range
- Nozzle-by-nozzle turn compensation minimizes over and under applications
- Individual nozzle shut-off with Hawkeye HD
- Accurate droplet size and placement
- Extended range out of each nozzle
- Blended pulse application
- Ability to manage drift and off-target applications





RAVEN RCM™

The Raven Rate Control Module (RCM) is the most precise application controller on the market and your solution for every season. The RCM is an user friendly ISOBUS product controller that can control up to 5 products in one ECU for both liquid and dry applications.

FEATURES

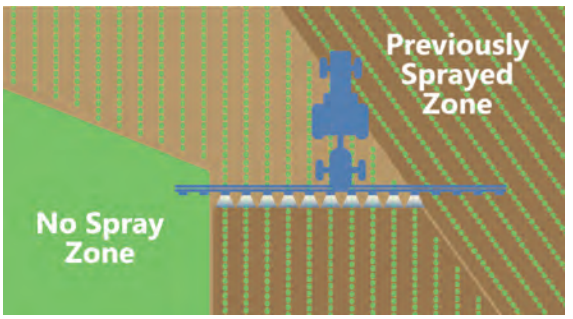
- Liquid, NH_3, and dry applications
- Integrated magnet mount option to easily attach and detach with any metal frame
- Easily navigate and manage multiple products, tallies, and sensor data
- Configure run screen based on operator preference
- Diagnostic tests and readings to easily calibrate, tune and troubleshoot system
- Compatible with ISOBUS Virtual Terminal and Task Controllers



RAVEN PRECISION

AccuBoom

- Automatically turns booms on and off
- Up to 10 boom section control
- Reduction in overlap
- Hands off control
- Reduced stress
- Simplified coverage of point rows



SC1™

- Operating speeds up to 29 MPH
- Machine-specific tune sets
- Compatible with Viper® 4+ or CR7™ displays
- Utilize 700S™, 500S™, or 3rd party receivers



DirecSteer™



- Simple to install and highly portable
- Silent operation
- High-torque electric-drive motor
- Compatible with all major equipment brands
- Compatible with Viper 4+ and CR7

700S™

- High performance dual frequency antenna
- Fully scaleable (WAAS, GS, RTK)
- Provides high accuracy DGPS for SmarTrax and SmarTrax MD
- GLONASS and dual frequency GLIDE
- Simple and fast setup
- Seamless integration
- RTK-L and RTK-Pro Capable





Slingshot™ - Corrections and Online Services

• Wireless RTK correction signals via cellular networks for universal access to sub-inch accuracy • Zero line-of-site RTK signal limitations • In-cab high-speed internet access • Near instant data transfer • Remote live support via high-speed internet • Slingshot RTK is compatible with Raven and non-Raven precision ag equipment, and public CORS networks

RAVEN PRECISION/ DIGIFARM

Sidekick Pro™ -Direct Injection system



- High-Resolution Encoder
- Automatic closed-system calibration
- Integrated single-unit design
- Real-time diagnostics
- Advanced system design with in-line mixing
- Powerful positive-displacement pump
- High and low-volume capacities to match your operating needs
- Compatible with Raven field computers and ISOBUS Task Controllers

AccuFlow Vortex

- Reduced fittings from older dual cooler systems
- Gruv-lock coupling allows for removal of flowmeter easier for maintenance
- Safety bleed down circuit out the vapor lines takes 30 minutes or to bleed cooler down
- Stainless steel inner tube & encasement for longevity of system
- Three different models available to fit application needs
- HP Plus system has stainless on demand pump to reach rate once control valve is fully opened
- Available in dual valve or fast valve configuration: Dual valve ideal ideal for variable rate applications



AccuFlow Vortex with 1" Valve	AccuFlow Vortex with 1½" Valve	AccuFlow Vortex HP Plus
3-30 GPM	3-50 GPM	3-80 GPM

DigiFarm VBN

DigiFarm VBN maximizes RTK correction accuracy and reliability by combing all of the bases in their network with powerful server software to create a virtual base station in close proximity to where you are working.

ADVANTAGES

- Compatible with all major brands of GPS receivers
- Short baseline distance
- No need to change radio IDs
- No line shifts
- No need for a repeater

VBN vs. Single Base RTK	VBN	Single Base RTK
Sub-inch year-to-year repeatability	Yes	Yes
Sub-inch accuracy at 6 miles	Yes	Yes
Sub-inch accuracy at 20 miles	Yes	No
No line shift between towers	Yes	Yes
Maintain accuracy during base station outage period	Yes	No
Water management vertical accuracy greater than 2 miles from base	Yes	No
Hardware specific data streams customized for each brand of GPS	Yes	No
Baseline distance always minimized for improved accuracy	Yes	No

DigiFarm Beacon v4.0

Stream RTK data into any receiver without the need for cables. Simply plug the Beacon into your receiver, program your login information into the DigiFarm app on your tablet, and hit connect. Within seconds you will be streaming RTK data directly to your receiver. The Beacon is rugged device that enables a wireless Bluetooth connection between GPS/GNSS receiver and a Bluetooth enabled tablet.

ADVANTAGES

- Use a device that you already own and may already be paying a data plan
- No need to purchase expensive radios or base stations
- Cost effective
- Very fast installation



NH_3 HEAT EXCHANGERS

RAVEN STAINLESS STEEL ACCUFLOW™

PART NO.	DESCRIPTION	LIST
117-0171-730	Dual Valve 30 GPM Kit Includes: AccuFlow Stainless Steel Vortex Cooler, 1" Control Valve, 1" On/Off Valve, Stainless Flowmeter, Y-Strainer, and necessary plumbing	$8028.00
117-0171-731	Single Valve 30 GPM Kit Includes: AccuFlow Stainless Steel Vortex Cooler, 1" Fast Valve, Stainless Flowmeter, Y-Strainer, and necessary plumbing	$7792.00



RAVEN STAINLESS STEEL ACCUFLOW VORTEX™

PART NO.	DESCRIPTION	LIST
117-0171-718	Dual Valve, Single Inlet 50 GPM Kit Includes: AccuFlow Stainless Steel Vortex Cooler, 1½" Control Valve, 1½" On/Off Valve, Stainless Flowmeter, Y-Strainer, and necessary plumbing	$ 11,850.00
117-0171-717	Single Valve, Single Inlet 50 GPM Kit Includes: AccuFlow Stainless Steel Vortex Cooler, 1½" Fast Valve, Stainless Flowmeter, Y-Strainer, and necessary plumbing	$ 11,692.00



063-0173-987	***AccuFlow Vortex Cooler Only, Stainless***	***$ 2918.00***
117-0171-713	***Vortex to AccuFlow Adapter Kit***	***$ 566.00***

CONTINENTAL HEAT EXCHANGER

PART NO.	DESCRIPTION	LIST
A-SF-3000GHLM-KIT	Single Valve 30* GPM Kit Includes: Stainless Continental Heat Exchanger, 1¼" Control Valve, 1¼" On/Off Valve, Y-Strainer, and necessary plumbing ***Need to Add Flowmeter***	$ 5525.00



**30 GPM if inlet plumbed with a single 1¼" hose. 55 GPM if plumbed with dual 1¼" hoses and 70 GPM if plumbed with dual 1½" hoses.*

A-SF-3000GHRAB	***Stainless Continental Heat Exchanger w/ Raven Bracket Adapter***	***$ 2084.64***

CONTROLLER OPTIONS

PART NO.	DESCRIPTION	LIST
063-0171-220	SCS 450 Console	$ 2936.00
115-0171-085	10' Console Cable	$ 565.00
115-0171-800	12' Product Cable- Single Section Shutoff	$ 614.00
115-0171-836	12' Product Cable- 3 Section Shutoff	$ 1223.00
115-0159-856	12' Product Extension Cable	$ 602.00
115-0159-857	24' Product Extension Cable	$ 591.00

HEAT EXCHANGER PARTS/ TEEJET CONTROLLER

HEAT EXCHANGER PARTS

PART NO.	DESCRIPTION	LIST
333-9000-001	1" Cast Iron Y-Strainer	$ 78.00
333-9000-125	1¼" Cast Iron Y-Strainer	$ 113.00
333-9000-067	1½" Cast Iron Y-Strainer	$ 166.00
063-0173-655	2" Cast Iron Y-Strainer	$ 223.00
333-9000-007	20 Mesh Screen	$ 38.00
418-0000-001	Magnets	$ 12.00
114UN XHI	1¼" Union	$ 64.55
219-0000-027	Union Teflon Gasket	$ 47.00
219-0000-154	1½" Strainer Teflon Gasket	$ 38.50
73 105 01	1" NH_3 Manual Valve	$ 93.25
73 106 01	1¼" NH_3 Manual Valve	$ 270.00
73 107 01	1½" NH_3 Manual Valve	$ 310.00
063-0173-867	RFM 60S Flowmeter	$ 1296.00
063-0173-869	RFM 60SG Flowmeter	$ 1350.00
063-0173-878	1" NH_3 Fast Valve	$ 998.00
063-0173-877	1" NH_3 Control Valve	$ 998.00
063-0173-876	1" NH_3 On/Off Valve	$ 992.00
063-0173-626	1½" NH_3 Fast Valve	$ 1997.00
063-0173-667	1½" NH_3 Control Valve	$ 1600.00
063-0173-668	1½" NH_3 On/Off Valve	$ 1653.00

RAVEN ACCUFLOW PARTS

PART NO.	DESCRIPTION	LIST
107-0171-063	Cooler Bracket	$ 92.00
107-0171-068	Z-Bracket	$ 90.50
417-0001-009	Temperature Gauge	$ 268.00
117-0171-121	Super Cooler Repair Kit	$ 109.00
117-0171-591	Vortex Repair Kit	$ 91.00

RAVEN ACCUFLOW VALVE MOTORS

PART NO.	DESCRIPTION	LIST
063-0173-666	Fast Valve, Motor Only	$ 933.00
063-0172-980	Control Valve, Motor Only	$ 586.00
063-0173-207	On/Off Valve, Motor Only	$ 727.00

CONTINENTAL HEAT EXCHANGER PARTS

PART NO.	DESCRIPTION	LIST
ASFRK	Heat Exchanger Repair Kit	$ 7.29

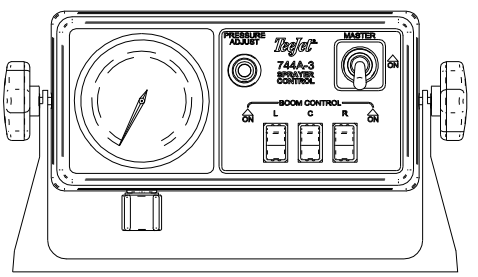
KZ VALVES & MOTORS

PART NO.	DESCRIPTION	LIST
KZ-100F	1" NH_3 Fast Valve	$ 996.06
KZ-100SD	1" NH_3 Control Valve	$ 1246.23
KZ-100	1" NH_3 On/Off Valve	$ 872.03
KZ-150F	1½" NH_3 Fast Valve	$ 1412.35
KZ-150SD	1½" NH_3 Control Valve	$ 1488.54
KZ-150	1½" NH_3 On/Off Valve	$ 1361.19
KZ-MOTORF	Fast Valve, Motor Only	$ 792.45
KZ-MOTORSD	Control Valve, Motor Only	$ 816.27
KZ-MOTOR	On/Off Valve, Motor Only	$ 792.46
KZ-RAV	KZ Motor to 1" or 1¼" Raven Valve Adapter	$ 88.03
KZ-RAV150	KZ Motor to 1½" Raven Valve Adapter	$ 187.98

744A MANUAL SPRAYER CONTROLLER

Model 744A controls 3 sections with a 100 psi liquid filled gauge.

Solenoid kit comes with 12' power cable, 8' harness cable, and 8' extension cable
Ball valve kit comes with 8' power cable, 12' console cable, and 9' harness cable



PART NO.	DESCRIPTION	LIST
90-50161	744A Solenoid Valve Kit (244C- ¾" Regulating Valve is Included)	$ 608.20
90-02439UX	744A Ball Valve Kit	$ 734.54
45-20079	15' Extension Cable *(for 90-50161)*	$ 139.80
45-10086	10' Extension Cable *(for 90-0239UX)*	$ 121.00

Note:
Electric Solenoid Valves are on Page 68
Electric Ball Valves are on Page 68
Electric Regulating Valves are on Page 70

RAVEN PRECISION

SCS CONSOLES

PART NO.	DESCRIPTION	LIST
063-0171-220	SCS 450 Serial Interface Console (6 Boom)	$ 2936.00
063-0172-542	SCS 660 Serial Interface Console w/ Master Switch (7 Boom/ Granular)	$ 3307.00



SCS CABLE COMPONENTS

OLD STYLE CABLES

PART NO.	DESCRIPTION	LIST
115-0159-418	10' Console Power Cable	$ 518.00
115-0159-404	6' Flow Control Cable	$ 336.00
115-0159-405	12' Flow Control Cable	$ 414.00
115-0159-409	12' Flow Extension Cable	$ 379.00
115-0159-414	24' Flow Extension Cable	$ 458.00
115-0159-415	Reverse Polarity Adapter	$ 22.00

RADAR SPEED SENSOR & CABLES

PART NO.	DESCRIPTION	LIST
115-0159-539	12' Raven Radar Power Cable	$ 300.50
115-0159-526	Dickey John Radar Adapter Cable	$ 332.00
115-0159-517	Case IH & New Holland TG Radar Adapter Cable	$ 379.00
115-0171-304	Case MX & STX Radar Adapter Cable	$ 606.00
115-0159-700	JD 7000/ 8000/ 9000 Radar Adapter Cable	$ 321.00
115-0171-670	JD 30 & R Series Radar Adapter Cable	$ 297.00

FLOW METER CABLES

PART NO.	DESCRIPTION	LIST
115-0159-016	6' Flow Meter Ext. Cable	$ 173.00
115-0159-017	12' Flow Meter Ext. Cable	$ 182.00
115-0159-019	24' Flow Meter Ext. Cable	$ 221.00

NEW STYLE CABLES

PART NO.	DESCRIPTION	LIST
115-0171-085	10' Console Power Cable	$ 565.00
115-0159-495	6' Flow Control Cable (7 Boom Spade Terminals)	$ 346.00
115-0159-496	12' Flow Control Cable (7 Boom Spade Terminals)	$ 444.00
115-0171-086	6' Flow Control Cable (6 Boom Weather Pack)	$ 591.00
115-0171-055	12' Flow Control Cable (3 Boom Weather Pack)	$ 546.00
115-0171-129	12' Flow Control Cable (6 Boom Weather Pack)	$ 639.00
115-0159-856	12' Flow Extension Cable (3 Boom)	$ 602.00
115-0159-707	3' Console Power Cable (SCS 660)	$ 578.00
115-0159-787	21' Flow Control Cable (Granular Application)	$ 675.00

WHEEL DRIVE SPEED SENSOR & CABLES

PART NO.	DESCRIPTION	LIST
063-0159-484	Wheel Drive Speed Sensor Complete Assembly	$1284.00
063-0159-438	21' Sensor Assembly	$ 337.00
115-0159-032	12' Speed Ext. Cable	$ 179.00
115-0159-018	24' Speed Ext. Cable	$ 203.00

RAVEN VALVES/ MICRO-TRAK

MICRO-TRAK ASTRO GPS SPEED SENSOR



- Radar Update Rate: 1 Hz
- Mounting: Magnetic
- Speed Cal: 785 on Raven Consoles
- Has 2 Status Lights on Interface Module
  -One for Power & Another for Satellite Fix

PART NO. **1415R** LIST: **$ 557.00**

MICRO-TRAK FLOWMATE™



- Easy to install
- Low cost
- Verifies ground drive pump settings
- Wide variety of flometer compatability
- Displays and records the volume of liquid transferred from bulk tanks
- Simple setup
- Resettable gallons counter
- Backlight for night operations
- Comes with 40' flow cable and 10' power cable
- Ensures accurate flow for fertilizer and other liquid products

PART NO.	DESCRIPTION	LIST
1739	FlowMate Monitor	$ 552.00
18664	Raven Flow Meter Adapter	$ 153.87
1513	FM3000P Flow Meter (40-396 GPM, 3" MNPT)	$ 2116.00

RAVEN ON / OFF VALVES

ON / OFF VALVES	DESCRIPTION		LIST
 063-0173-876	Ends Inlet Ends Outlet Operating Pressure Body Material Flow Capacity	1" NPT Female 1" NPT Female 300 PSI Cast Iron 49 GPM	**$ 992.00**
063-0172-178 	Ends Inlet Ends Outlet Operating Pressure Body Material Flow Capacity	2" NPT Female 2" NPT Female 300 PSI Stainless Steel 180 GPM @ 40 PSI	**$ 1395.00**

RAVEN FLOWMETERS

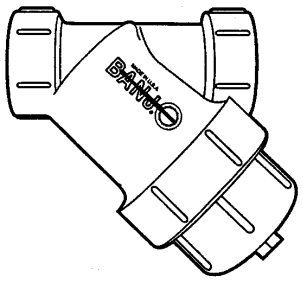
PART NO.	DESCRIPTION	LIST PRICE
 **063-0172-058** **RFM15**	Ends Inlet 1½" NPT Female Ends Outlet 1½" NPT Female Pressure Rating 150 PSI Related Capacity 0.3-15 GPM Body Material Polypropylene	**$ 594.00**
 **063-0171-985** **RFM60P**	Ends Inlet 1½" NPT Female Ends Outlet 1½" NPT Female Pressure Rating 150 PSI Related Capacity 1-60 GPM Body Material Polypropylene	**$ 814.00**
 **063-0173-867** **RFM60S**	Ends Inlet 1½" NPT Female Ends Outlet 1½" NPT Female Pressure Rating 400 PSI Related Capacity 1-60 GPM Body Material Stainless Steel	**$ 1296.00**
 **063-0173-578** **RFM100**	Ends Inlet M220 Flange Ends Outlet M220 Flange Pressure Rating 150 PSI Related Capacity 3-100 GPM Body Material Polypropylene	**$ 1204.00**
 **063-0173-579** **RFM200P**	Ends Inlet M300 Flange Ends Outlet M300 Flange Pressure Rating 90 PSI Related Capacity 15-200 GPM Body Material Polypropylene	**$ 1806.00**

Breakdown for the RFM 60P, 60S, 100, & 200P on Page 194

RAVEN VALVES

PART NO.	DESCRIPTION		LIST
REGULATING VALVES			
 **063-0159-001**	Ends Inlet Ends Outlet Operating Pressure Body Material	¾" NPT Female ¾" NPT Female 200 PSI Polypropylene	**$ 203.00**
063-0172-125 	Ends Inlet Ends Outlet Operating Pressure Body Material	1" NPT Female 1" NPT Female 200 PSI Polypropylene	**$ 537.00**
 **063-0171-894**	Ends Inlet Ends Outlet Operating Pressure Body Material	1½" NPT Female 1½" NPT Female 200 PSI Polypropylene	**$ 604.00**
063-0173-877 For NH_3 	Ends Inlet Ends Outlet Operating Pressure Body Material	1" NPT Female 1" NPT Female 300 PSI Cast Iron	**$ 998.00**
 **063-0172-177**	Ends Inlet Ends Outlet Operating Pressure Body Material	2" NPT Female 2" NPT Female 300 PSI Stainless Steel	**$ 1369.00**
063-0172-181 	Ends Inlet Ends Outlet Operating Pressure Body Material	3" NPT Female 3" NPT Female 300 PSI Stainless Steel	**$ 2493.00**
 **063-0173-878** **FAST VALVE** For NH_3	Ends Inlet Ends Outlet Operating Pressure Body Material	1" NPT Female 1" NPT Female 300 PSI Cast Iron	**$ 998.00**
	BOOM VALVE		
063-0171-928 	Flange Inlet Outlets Pressure Rating Pressure Drop per Valve On Time/Off Time (plunger style valve for complete shut-off)	M220 Banjo NPT Female 175 PSI 30 GPM @ 5PSI 0.7 Seconds	**$ 1137.00**

BANJO STRAINERS



BANJO®
LIQUID HANDLING PRODUCTS



THREADED "Y" STRAINERS



MANIFOLD "Y" STRAINERS

PART NO.	SIZE	DESCRIPTION	LIST
LS 050 20	½" x ½"	20 Mesh	$ 63.30
LS 050 40	½" x ½"	40 Mesh	$ 59.52
LS 050 80	½" x ½"	80 Mesh	$ 67.19
LS 075 20	¾" x ¾"	20 Mesh	$ 59.52
LS 075 40	¾" x ¾"	40 Mesh	$ 59.52
LS 075 80	¾" x ¾"	80 Mesh	$ 67.13
LS 100 20	1" x 1"	20 Mesh	$ 65.49
LS 100 40	1" x 1"	40 Mesh	$ 59.76
LS 100 80	1" x 1"	80 Mesh	$ 66.93
LS 125 20	1¼" x 1¼"	20 Mesh	$ 65.49
LS 125 40	1¼" x 1¼"	40 Mesh	$ 65.82
LS 125 80	1¼" x 1¼"	80 Mesh	$ 73.69
LS 150 06	1½" x 1½"	06 Mesh	$ 145.41
LS 150 12	1½" x 1½"	12 Mesh	$ 134.28
LS 150 20	1½" x 1½"	20 Mesh	$ 134.43
LS 150 50	1½" x 1½"	50 Mesh	$ 134.43
LS 150 80	1½" x 1½"	80 Mesh	$ 145.12
LS 200 06	2" x 2"	6 Mesh	$ 145.55
LS 200 12	2" x 2"	12 Mesh	$ 134.29
LS 200 20	2" x 2"	20 Mesh	$ 134.43
LS 200 50	2" x 2"	50 Mesh	$ 134.43
LS 200 80	2" x 2"	80 Mesh	$ 131.94
LSM 300 20	3" x 3"	20 Mesh	$ 872.23
LSM 300 50	3" x 3"	50 Mesh	$ 872.23

REPLACEMENT PARTS

SCREENS

PART NO.	DESCRIPTION	FITS	LIST
LS 720	20 Mesh	LS 050/LS 075	$ 43.14
LS 740	40 Mesh	LS 050/LS 075	$ 39.21
LS 780	80 Mesh	LS 050/LS 075	$ 46.56
LS 120	20 Mesh	LS 100/LS 125	$ 43.14
LS 140	40 Mesh	LS 100/LS 125	$ 43.78
LS 180	80 Mesh	LS 100/LS 125	$ 42.32
LS 206	6 Mesh	LS 150/LS 200	$ 87.18
LS 212	12 Mesh	LS 150/LS 200	$ 83.72
LS 220	20 Mesh	LS 150/LS 200	$ 83.72
LS 250	50 Mesh	LS 150/LS 200	$ 83.72
LS 280	80 Mesh	LS 150/LS 200	$ 79.26
LS 312	12 Mesh	LSM 300	$ 255.06
LS 320	20 Mesh	LSM 300	$ 231.84
LS 350	50 Mesh	LSM 300	$ 231.84

	PART NO.	FITS	LIST
CAPS	LS 075C	LS 050/LS 075	$ 31.30
	LS 100C	LS 100/LS 125	$ 26.03
	LS 200C	LS 150/LS 200	$ 49.00
GASKETS	LS 075G	LS 050/LS 075	$ 5.03
	LS 100G	LS 100/LS 125	$ 6.63
	LS 150G	LS 150/LS 200	$ 6.63
	MLS 300G	LS 300	$ 13.00

	PART NO.	SIZE	LIST
BODY, CAP & GASKET	LS 050B/C	Body, Cap and Gasket ½"	$ 34.19
	LS 075B/C	Body, Cap and Gasket ¾"	$ 34.19
	LS 100B/C	Body, Cap and Gasket 1"	$ 34.19
	LS 125B/C	Body, Cap and Gasket 1¼"	$ 34.19
	LS 150B/C	Body, Cap and Gasket 1½"	$ 76.62
	LS 200B/C	Body, Cap and Gasket 2"	$ 76.62

PART NO.	SIZE	DESCRIPTION	LIST
MLS 200 06	2" Standard Port Flange	6 Mesh	$ 164.65
MLS 200 20	2" Standard Port Flange	20 Mesh	$ 167.09
MLS 200 30	2" Standard Port Flange	30 Mesh	$ 148.50
MLS 200 50	2" Standard Port Flange	50 Mesh	$ 167.09
MLS 200 80	2" Standard Port Flange	80 Mesh	$ 184.32
MLS 200 100	2" Standard Port Flange	100 Mesh	$ 164.65
MLS 222 04	2" Full Port Flange	4 Mesh	$ 199.26
MLS 222 08	2" Full Port Flange	8 Mesh	$ 219.18
MLS 222 10	2" Full Port Flange	10 Mesh	$ 248.81
MLS 222 16	2" Full Port Flange	16 Mesh	$ 248.81
MLS 222 30	2" Full Port Flange	30 Mesh	$ 226.19
MLS 222 50	2" Full Port Flange	50 Mesh	$ 226.19
MLS 222 80	2" Full Port Flange	80 Mesh	$ 248.81
MLS 222 100	2" Full Port Flange	100 Mesh	$ 248.81
MLS 300 08	3" Full Port Flange	8 Mesh	$ 815.70
MLS 300 12	3" Full Port Flange	12 Mesh	$ 910.53
MLS 300 20	3" Full Port Flange	20 Mesh	$ 827.78
MLS 300 50	3" Full Port Flange	50 Mesh	$ 827.78

SCREENS

PART NO.	DESCRIPTION	FITS	LIST
LS 206	6 Mesh	MLS 200	$ 87.18
LS 220	20 Mesh	MLS 200	$ 83.72
LS 230	30 Mesh	MLS 200	$ 77.58
LS 250	50 Mesh	MLS 200	$ 83.72
LS 280	80 Mesh	MLS 200	$ 79.26
LST 204SS	4 Mesh	MLS 222	$ 116.59
LST 206SS	6 Mesh	MLS 222	$ 116.59
LST 208SS	8 Mesh	MLS 222	$ 116.59
LST 210SS	10 Mesh	MLS 222	$ 116.59
LST 216SS	16 Mesh	MLS 222	$ 116.59
LST 230SS	30 Mesh	MLS 222	$ 105.99
LST 250SS	50 Mesh	MLS 222	$ 105.99
LST 280SS	80 Mesh	MLS 222	$ 116.59
LST 2100SS	100 Mesh	MLS 222	$ 116.59
LS 308	8 Mesh	MLS 300	$ 255.08
LS 312	12 Mesh	MLS 300	$ 255.08
LS 320	20 Mesh	MLS 300	$ 231.84
LS 350	50 Mesh	MLS 300	$ 231.84

REPLACEMENT PARTS

	PART NO.	DESCRIPTION	LIST
MLS 200	LS 150C	Strainer Cap	$ 45.26
	LS150G	Cap Gasket	$ 6.63
	MLS 200B	Strainer Body	$ 72.29
MLS 222	MLS220C1	Strainer Cap	$ 50.07
	MLS220R1	Strainer Ring	$ 28.65
	MLS220G1	Cap Gasket	$ 7.48
	MLS222B	Strainer Body	$ 75.58
MLS300	MLS300CAP	Strainer Cap	$ 313.96
	MLS300G	Cap Gasket	$ 13.00
	LS300EC	End Cap	$ 58.10
	MLS300ECG	End Cap Gasket	$ 24.02

BANJO STRAINERS

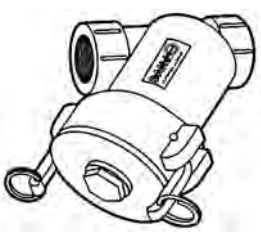


BANJO ¾" & 1" POLY STRAINERS



PART NO.	DESCRIPTION	LIST
LST075 16	¾" Strainer/16M Screen	$ 69.26
LST075 30	¾ Strainer/30M Screen	$ 69.26
LST075 50	¾" Strainer/50M Screen	$ 64.23
LST075 80	¾" Strainer/80M Screen	$ 69.26
LST075 100	¾" Strainer/100M Screen	$ 69.26
LST100 16	1" Strainer/16M Screen	$ 69.26
LST100 30	1" Strainer/30M Screen	$ 69.88
LST100 50	1" Strainer/50M Screen	$ 64.29
LST100 80	1" Strainer/80M Screen	$ 69.68
LST100 100	1" Strainer/100M Screen	$ 69.26
LST116	16M Screen - Fits ¾" & 1"	$ 37.61
LST130	30M Screen - Fits ¾" & 1"	$ 38.44
LST150	50M Screen - Fits ¾" & 1"	$ 36.93
LST180	80M Screen - Fits ¾" & 1"	$ 34.95
LST1100	100M Screen - Fits ¾" & 1"	$ 36.73
LST075 HB	¾" Strainer Head & Bowl	$ 43.40
LST075 H	¾" Strainer Head	$ 21.94
LST100 HB	1" Strainer Head & Bowl	$ 43.40
LST100 H	1" Strainer Head	$ 21.94
LST100 B	Bowl - Fits ¾" & 1"	$ 26.03
LST100 G	Gasket - Fits ¾" & 1"	$ 6.79
LST100 GV	Gasket/Viton - Fits ¾" & 1"	$ 14.10

LSQ SERIES



PART NO.	SIZE	DESCRIPTION	LIST
LSQ 200 12	2" x 2"	LSQ Line Strainer - 12M	$ 215.81
LSQ 200 20	2" x 2"	LSQ Line Strainer - 20M	$ 215.81
LSQ 200 30	2" x 2"	LSQ Line Strainer - 30M	$ 213.47
LSQ 200 50	2" x 2"	LSQ Line Strainer - 50M	$ 215.81
LSQ 200 80	2" x 2"	LSQ Line Strainer - 80M	$ 214.10
		REPAIR PARTS	
LSQ 200B		2" LSQ Line Strainer Body	$ 139.00
LSQ 200G		2" Gasket (fits 1½" and 2" Strainers)	$ 13.77
PLUG 100		1" Plug	$ 5.39
LSQ 200P		Cam Pin Stainless Steel (fits 1½" and 2" Strainers)	$ 6.46
LS 212		12 Mesh Screen (fits 1½" and 2" Strainers)	$ 83.72
LS 220		20 Mesh Screen (fits 1½" and 2" Strainers)	$ 83.72
LS 230		30 Mesh Screen (fits 1½" and 2" Strainers)	$ 77.58
LS 250		50 Mesh Screen (fits 1½" and 2" Strainers)	$ 83.72
LS 280		80 Mesh Screen (fits 1½" and 2" Strainers)	$ 79.26
LSQ 200CAP		2" Cap (fits 1½" and 2" Strainers)	$ 125.59

BANJO 1-1/4" and 1-1/2" POLY "T" STRAINERS

PART NO.	DESCRIPTION	LIST
LST 125 16	1¼" Strainer/16M Screen	$ 137.97
LST 125 30	1¼" Strainer/30M Screen	$ 138.65
LST 125 50	1¼" Strainer/50M Screen	$ 137.97
LST 125 80	1¼" Strainer/80M Screen	$ 141.27
LST 125 100	1¼" Strainer/100M Screen	$ 137.97
LST 150 16	1½" Strainer/16M Screen	$ 139.00
LST 150 30	1½" Strainer/30M Screen	$ 138.65
LST 150 50	1½" Strainer/50M Screen	$ 125.43
LST 150 80	1½" Strainer/80M Screen	$ 141.27
LST 150 100	1½" Strainer/100M Screen	$ 138.93
LST 1516	16M Screen - Fits 1¼" & 1½"	$ 57.79
LST 1530	30M Screen - Fits 1¼" & 1½"	$ 58.65
LST 1550	50M Screen - Fits 1¼" & 1½"	$ 57.79
LST 1580	80M Screen - Fits 1¼" & 1½"	$ 62.38
LST 15100	100M Screen - Fits 1¼" & 1½"	$ 59.06
LST 125 HB	1¼" Strainer Head & Bowl	$ 95.13
LST 125 H	1¼" Strainer Head	$ 58.00
LST 150 HB	1½" Strainer Head & Bowl	$ 95.13
LST 150 H	1½" Strainer Head	$ 58.00
LST 150 B	Bowl - Fits 1¼" & 1½"	$ 42.00
LST 150 G	Gasket - Fits 1¼" & 1½"	$ 6.63
LST 150 GV	Gasket/Viton - Fits 1¼" & 1½"	$ 15.38

2" "T" STRAINERS (316 SS HEAD WITH POLY BOWL)

PART NO.	DESCRIPTION	LIST
LST 200 04SS	2" Strainer/4M Screen	$1152.85
LST 200 06SS	2" Strainer/6M Screen	$1152.85
LST 200 10SS	2" Strainer/10M Screen	$1152.85
LST 200 16SS	2" Strainer/16M Screen	$1152.85
LST 200 30SS	2" Strainer/30M Screen	$1152.85
LST 200 50SS	2" Strainer/50M Screen	$1558.57
LST 200 80SS	2" Strainer/80M Screen	$1558.57
LST 200 100SS	2" Strainer/100M Screen	$1152.85
LST 204SS	4M Screen - Fits 2"	$ 116.59
LST 206SS	6M Screen - Fits 2"	$ 116.59
LST 208SS	8M Screen - Fits 2"	$ 116.59
LST 210SS	10M Screen - Fits 2"	$ 116.59
LST 216SS	16M Screen - Fits 2"	$ 116.59
LST 230SS	30M Screen - Fits 2"	$ 105.99
LST 250SS	50M Screen - Fits 2"	$ 105.99
LST 280SS	80M Screen - Fits 2"	$ 116.59
LST 2100SS	100M Screen - Fits 2"	$ 116.59
LST 200 HSS	2" Strainer 316 SS Head	$1174.17
LST 200 B	2" Strainer Poly Bowl	$ 221.60
LST 200 GV	2" Strainer Gasket/Viton	$ 47.70



MANIFOLD 1" & 2" STANDARD PORT "T" STRAINERS

PART NO.	DESCRIPTION	LIST
MLST100 16	1" Flanged "T" Strainer/16 Mesh Screen	$ 75.26
MLST100 30	1" Flanged "T" Strainer/ 30 Mesh Screen	$ 75.26
MLST100 50	1" Flanged "T" Strainer/50 Mesh Screen	$ 77.93
MLST100 80	1" Flanged "T" Strainer/ 80 Mesh Screen	$ 76.79
MLST100 100	1" Flanged "T" Strainer/100 Mesh Screen	$ 76.33
MLST150 16	2" Standard Port "T" Strainer/16 Mesh Screen	$ 142.71
MLST 150 30	2" Standard Port "T" Strainer/30 Mesh Screen	$ 142.71
MLST 150 50	2" Standard Port "T" Strainer/50Mesh Screen	$ 129.23
MLST 150 80	2" Standard Port "T" Strainer/80 Mesh Screen	$ 145.54
MLST 150 100	2" Standard Port "T" Strainer/100 Mesh Screen	$ 143.13

Spraying Systems Co.

126ML LINE STRAINERS

Strainer heads are available in polypropylene. Bowl materials are polypropylene. Each strainer includes stainless steel screen (with polypropylene frames on ¾" to 1½" sizes) and gaskets. 200 PSI max.





PART NO.	DESCRIPTION	LIST
126ML3	¾" Nylon - SS Screen	$ 53.28
126ML4	1" Nylon - SS Screen	$ 53.28
126ML5	1¼" Nylon - SS Screen	$ 109.02
126ML6	1½" Nylon - SS Screen	$ 109.02

WHEN ORDERING, PLEASE SPECIFY SCREEN SIZE.

STAINLESS SCREEN ONLY

PART NO.	MESH	FOR STRAINER	LIST
16903 1 SSPP	16	124A & 126 ¾" & 1"	$ 21.42
16903 3 SSPP	30	124A & 126 ¾" & 1"	$ 21.42
16903 4 SSPP	50	124A & 126 ¾" & 1"	$ 21.42
16903 5 SSPP	80	124A & 126 ¾" & 1"	$ 21.42
16903 6 SSPP	100	124A & 126 ¾" & 1"	$ 21.42
16903 7 SSPP	200	124A & 126 ¾" & 1"	$ 21.42
15941 1 SSPP	16	124 & 126 1¼" & 1½"	$ 30.16
15941 2 SSPP	30	124 & 126 1¼" & 1½"	$ 30.16
15941 3 SSPP	50	124 & 126 1¼" & 1½"	$ 30.16
15941 4 SSPP	80	124 & 126 1¼" & 1½"	$ 30.16
15941 5 SSPP	100	124 & 126 1-¼" & 1½"	$ 30.16

SMALL HYPRO LINE STRAINER

These Hypro Strainers are ideal for pressure washer applications. They have a clear Polyimide Bowl and a low profile - Male Ported, Nylon Cap. Screens are 80 Mesh Stainless Steel and have an effective area of 1.34 sq. in. Gaskets are Viton.

PART NO.	DESCRIPTION	LIST
3350 0082F	½ Strainer	$ 29.11
3351 0020	Bowl	$ 7.60
1700 0065	Gasket Viton	$ 5.04
1700 0064	Gasket Buna	$ 1.59
3800 0047	Screen	$ 9.12



122 LINE STRAINER



PART NO.	LIST
122 1/2 PP-50	$ 28.88
122 3/4 PP-50	$ 28.88

PART NO.	DESCRIPTION	LIST
23174 2 304SS	30 Mesh Screen	$ 10.03
45102 3 SSPP	50 Mesh Screen	$ 11.06
45102 4 SSPP	80 Mesh Screen	$ 11.06
45102 5 SSPP	100 Mesh Screen	$ 11.06
23173 EPR	EPDM Gasket	$ 7.63
23173 VI	Viton Gasket	$ 14.62
23172 PP	Bowl	$ 11.75

GASKET REPLACEMENT

PART NO.	MAT'L.	FOR STRAINER	LIST
7717 2/226 VI	Viton	124 ¾" & 1"	$ 19.30
12291 BU	Buna	124 1¼" & 1½"	$ 7.92
12291 VI	Viton	124 1¼" & 1½"	$ 24.66
50494 EPR	EPDM	Bowl Gasket for 126ML ¾" & 1"	$ 3.63
63150 EPR	EPDM	Cap Gasket for 126ML ¾", 1",1¼"	$ 4.78
48656 EPR	EPDM	Bowl Gasket for 126ML 1¼" & 1½"	$ 7.28

STRAINER HEADS

PART NO.	DESCRIPTION	LIST
50491 PP	Strainer Head Poly Flange for 126MLF50	$ 19.59
50492 3/4 PP	Strainer Head Poly Flange ¾" for 126ML	$ 19.59
50492 1 PP	Strainer Head Poly Flange 1" for 126ML	$ 19.59
63065 1-1/4 PP	Strainer Head Poly 1¼" for 126ML	$ 39.93

BOWL

PART NO.	DESCRIPTION	LIST
15403 NY	Bowl Poly for 124A ¾" - 1"	$ 46.71
50493 PP	Bowl Poly for 126ML ¾" - 1"	$ 19.32
48654 PP	Bowl Poly for 126ML 1¼" - 1½"	$ 39.53

Strainer Screen Color Codes

12 mesh - black	30 mesh - red	80 mesh - yellow
16 mesh - dk red	40 mesh - brown	100 mesh - green
20 mesh - tan	50 mesh - blue	200 mesh - orange

CHECK VALVES/ BUTTERFLY VALVES



POLYPROPYLENE SWIVELS

Ideal for transfer pumps and mini bulk tanks.

PART NO.	DESCRIPTION	LIST
SW100	1" Female NPT x 1" Male NPT Poly Swivel	$ 25.59
SW150	1½" Female NPT x 1½" Male NPT Poly Swivel	$ 31.35
SW200	2" Female NPT x 2" Male NPT Poly Swivel	$ 35.17
SW220	2" Female NPT x 2" Male NPT Poly Swivel, Full Port	$ 58.49

POLY CHECK VALVES

PART NO.	DESCRIPTION	MAX PSI	PIPE SIZE	LIST
CV050	½" Check Valve	300	1/2"	$ 30.43
CV100MT	1" Male x Female NPT	300	1"	$ 32.04
CV100	1" Check Valve	300	1"	$ 38.44
CV221	2" Full Port Check Valve	300	2"	$ 53.27
CV300	3" Full Port Check Valve	300	3"	$ 78.40





PVC CHECK VALVES



PART NO.	DESCRIPTION	LIST
KC 0500T	½" Check Valve or Foot Valve	$ 21.47
KC 0750T	¾" Check Valve or Foot Valve	$ 22.26
KC 1000T	1" Check Valve or Foot Valve	$ 32.21
KC 1250T	1¼" Check Valve or Foot Valve	$ 42.94
KC 1500T	1½" Check Valve or Foot Valve	$ 45.78
KC 2000T	2" Check Valve or Foot Valve	$ 65.78

STAINLESS CHECK VALVES WITH VITON "O" RING



PART NO.	DESCRIPTION	LIST
CVSE050	½" X ½" FPT CHECK VALVE	$ 26.95
CVSE075	¾" X ¾" FPT CHECK VALVE	$ 32.10
CVSE100	1" X 1" FPT CHECK VALVE	$ 44.30
CVSE125	1¼" X 1¼" CHECK VALVE	$ 58.90
CVSE150	1½" X 1½" CHECK VALVE	$ 76.45
CVSE200	2" X 2" CHECK VALVE	$ 124.20
CVSE300	3" X 3" CHECK VALVE	$ 446.20

BRAY SERIES 30 VALVE



- High strength through stem design exclusive close tolerance, double "D" connection
- Non-corrosive, heavy duty acetal bushing
- Self adjusting double "U" cup seal design
- Extended neck length allows for 2" of piping
- Primary and secondary seals
- Unique tongue and groove seat design
- Valve bodies meet ANSI 150 pressure ratings for hydrostatic shell test requirements, LOCKING HANDLE

PART NO.	DESCRIPTION	LIST
30BS 1	1"	$ 164.00
30BS 2	2"	$ 133.00
30BS 3	3"	$ 178.50
30BS 4	4"	$ 235.45

PNEUMATIC ACTUATOR
for Bray Series 30 Valve

92 0630 11300 532 ... List $ 208.00

301014 23201530 **...** Spacer, needed for 1" Valve ...

920630-21903536 **...** Seal Kit for Pneumatic Actuator ...

STAINLESS STEEL FLANGES

PART NO.	FLANGES	LIST
2 x 6FL SS	2" Stainless	$ 135.00
3 x 7FL SS	3" Stainless	$ 199.55
4 x 9FL SS	4" Stainless	$ 272.00
5/8 x 5SD SS	4½" SS Hex	$ 4.40
5/8 11 NT SS	SS Nut	$ 0.90
5/8LW SS	SS Lockwasher	$ 0.38
3 x 7FLGSKT	3" Gasket	$ 13.85
4 x 9FLGSKT	4" Gasket	$ 18.00

SINGLE UNION VALVES



PART NO.	DESCRIPTION	LIST
SUV050	½" X ½" FPT Full Port	$ 31.60
SUV075	¾" X ¾" FPT Full Port	$ 31.60
SUV100	1" X 1" FPT Full Port	$ 39.54
SUV125	1¼" X 1¼" Full Port	$ 81.45
SUV150	1½" X 1½" Full Port	$ 80.96
SUV200	2" X 2" Full Port	$ 85.52

BALL VALVES

ALL STAINLESS LOCKING BALL VALVE



PART NO.	DESCRIPTION	LIST
78 14	¼" Full Port Locking Valve	$ 50.98
78 38	⅜" Full Port Locking Valve	$ 49.54
78 12	½" Full Port Locking Valve	$ 54.13
78 34	¾" Full Port Locking Valve	$ 65.75
78 100	1" Full Port Locking Valve	$ 100.38
78 114	1¼" Full Port Locking Valve	$ 145.40
78 112	1½" Full Port Locking Valve	$ 197.61
78 200	2" Full Port Locking Valve	$ 302.09
78 300	3" Full Port Locking Valve	$ 855.92

POLY MICRO VALVES

PART NO.	DESCRIPTION	LIST
LV025V	¼" Female NPT X ¼" Female NPT	$ 38.37
LV038V	⅜" Female NPT X ⅜" Female NPT	$ 38.37
LV050V	½" Female NPT X ½" Female NPT	$ 38.37
LV025MTV	¼" Female NPT X ¼" Male NPT	$ 38.37
LV038MTV	⅜" Female NPT X ⅜" Male NPT	$ 38.37
LV038050MTV	⅜" Female NPT X ½" Male NPT	$ 38.37
LV050MTV	½" Female NPT X ½" Male NPT	$ 38.37
LV050100MTV	½" Female NPT X 1" Male NPT	$ 43.85
LVHB038V	⅜" Hose Barb X ⅜" Hose Barb	$ 38.37
LVHB050V	½" Hose Barb X ½" Hose Barb	$ 38.37
LVHB075V	¾" Hose Barb X ¾" Hose Barb	$ 38.37
LVHB038050MTV	⅜" Hose Barb x ½" Male NPT	$ 38.37
LVHB075MTV	¾" Hose Barb X ¾" Male NPT	$ 38.41
LVHB075100MTV	¾" Hose Barb X 1" Male NPT	$ 43.85
LV050SLV	½" Side Load 3-Way Valve	$ 52.14



LV*V**



LV*MTV**



LVHB*V**



LVHB*MTV**

PLATED MICRO VALVES



Model 90-FML
LEVER HANDLE



Model 90-FFB
BUTTERFLY HANDLE

Order by Model Number. Specify handle preference - lever or butterfly.
EXAMPLE: 90FFL -- (L for lever) 90FFB -- (B For butterfly)

MODEL	INLET/OUTLET	MAX. PRESS	MAX. TEMP	LIST
90FF*18	⅛ FNPT/ ⅛ FNPT	300 PSI	212°	$ 18.34
90FF*14	¼ FNPT/ ¼ FNPT	300 PSI	212°	$ 17.40
90FM*14	¼ FNPT/ ¼ MNPT	300 PSI	212°	$ 17.81
90FF*38	⅜ FNPT/ ⅜ FNPT	300 PSI	212°	$ 17.40
90FM*38	⅜ FNPT/ ⅜ MNPT	300 PSI	212°	$ 17.81
90FF*12	½ FNPT/ ½ FNPT	300 PSI	212°	$ 21.64
90FM*12	½ FNPT/ ½ MNPT	300 PSI	212°	$ 23.09

POLY BALL VALVES

1. 

2. 

3. 

4. 

5. 

6. 

THREADED BOLTED VALVES

REF #	PART NO.	DESCRIPTION	MAX PSI	HANDLE PART NO.	LIST
1	V050	½" FPT x ½" FPT	300	V10153A	$ 65.15
1	V075	¾" FPT x ¾" FPT	300	V10153A	$ 65.15
1	V100	1" FPT x 1"FPT	225	V10153A	$ 65.15
1	V100FP	1" FPT x 1" FPT Full Port	300	V10153A	$ 71.89
1	V125	1¼" FPT x 1¼" FPT	300	V10153A	$ 71.89
1	V125FP	1¼" FPT x 1¼" FPT Full Port	225	V20153	$ 92.04
1	V150	1½" FPT x 1½" FPT	225	V20153	$ 92.04
1	V200	2" FPT x 2" FPT	225	V20153	$ 92.04
2	V200FP	2" FPT x 2" FPT Full Port	225	V25153	$ 127.04
2	V300	3" FPT x 3" FPT	225	V25153	$ 204.90
2	V300FP	3" FPT x 3" FPT Full Port	200	V25153	$ 302.98
2	V400	4" FPT x 4" FPT	100	V25153	$ 660.87

THREADED STUBBY VALVES

REF #	PART NO.	DESCRIPTION	MAX PSI	HANDLE PART NO.	LIST
3	VS204FP	2" FPT x 2" FPT Stubby Full Port	225	VS25153	$ 122.58
4	VSMT200	2" MPT x 2" FPT Stubby	100	VS20152SH	$ 101.75
5	VSMT204FP	2" MPT x 2" FPT Stubby Full Port	200	VS25153	$ 122.58

THREADED HOSE END VALVES

REF #	PART NO.	DESCRIPTION	MAX PSI	HANDLE PART NO.	LIST
6	VA150	1½" FPT x 1½" FPT Angle	225	V20152	$ 110.83
6	VA200	2" FPT x 2" FPT Angle	200	V20152	$ 110.83
6	VA200FP	2" FPT x 2" FPT Angle Full Port	225	V25152	$ 162.32

POLY BALL VALVES WITH CAMLOCK END

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MALE ADAPTER VALVES VALVES

REF #	PART NO.	DESCRIPTION	MAX PSI	HANDLE PART NO.	LIST
1	VSF200	2" Male Adapter x 2" FPT Stubby	100	VS20152SH	$ 101.75
1	VSF204FP	2" Male Adapter x 2" FPT Stubby Full Port	100	VS25153	$ 122.58
2	VSFMT200	2" Male Adapter x 2" MPT Stubby	225	VS20152SH	$ 108.23
2	VSFMT204FP	2" Male Adapter x 2" MPT Stubby Full Port	150	VS25153	$ 122.58
2	VSFMT300	3" Male Adapter x 3" MPT Stubby	225	V25153	$ 244.32
2	VSFMT300FP	3" Male Adapter x 3" MPT Stubby Full Port	100	V25153	$ 308.40
3	VSFHB200	2" Male Adapter x 2" Hose Barb	100	VS20152SH	$ 124.07
3	VSFHB204FP	2" Male Adapter x 2" Hose Barb Full Port	100	VS25153	$ 108.05
3	VSFHB300FP	3" Male Adapter x 3" Hose Barb Full Port	100	V25153	$ 279.20
4	VFMT200FP	2" Male Adapter x 2" MPT Full Port	150	V25153	$ 147.58
5	VSF200CF	2" Male Adapter x 2" Standard Flange Stubby	100	VS20152SH	$ 101.75
5	MVSF220FP	2" Male Adapter x 2" Full Port Flange Stubby	150	VS25153	$ 122.58
5	MVSF300FP	3" Male Adapter x 3" Full Port Flange	100	V25153	$ 304.96

FEMALE COUPLER VALVES

REF #	PART NO.	DESCRIPTION	MAX PSI	HANDLE PART NO.	LIST
6	VSHBD204FP	2" Female Coupler x 2" Hose Barb Full Port	100	VS25153	$ 135.00
6	VSHBD300FP	3" Female Coupler x 3" Hose Barb Full Port	100	V25153	$ 323.20
7	MVSD220FP	2" Female Coupler x 2" Full Port Flange	100	VS25153	$ 135.10
7	MVSD300FP	3" Female Coupler x 3" Full Port Flange	100	V25153	$ 323.50

3-WAY POLY BALL VALVES & ACCESSORIES

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SIDE LOAD VALVES

REF #	PART NO.	DESCRIPTION	MAX PSI	HANDLE PART NO.	LIST
2	V075SL	¾" FPT 3-Way Straight Handle	200	V10153A	$ 93.88
2	V100SL	1" FPT 3-Way Straight Handle	200	V10153A	$ 93.88
1	V125SL	1¼" FPT 3-Way T-Handle	300	V20353TS	$ 145.60
1	V150SL	1½" FPT 3-Way T-Handle	225	V20353TS	$ 145.60
2	V200SL	2" FPT 3-Way Straight Handle	225	V25153SH	$ 180.62

BOTTOM LOAD VALVES

REF #	PART NO.	DESCRIPTION	MAX PSI	HANDLE PART NO.	LIST
3	V075BL	¾" FPT 3-Way T-Handle	200	V10353TB	$ 93.98
3	V100BL	1" FPT 3-Way T-Handle	225	V10353TB	$ 93.88
3	V125BL	1¼" FPT 3-Way T-Handle	300	V20353TB	$ 145.60
3	V150BL	1½" FPT 3-Way T-Handle	225	V20353TB	$ 145.60
4	V200BL	2" FPT 3-Way Straight Handle	200	V25353B	$ 180.79

VALVES HANDLES

REF #	PART NO.	LIST
5	V10153A	$ 9.17
5	V20153	$ 15.50
5	V25153	$ 25.32
5	VS20152SH	$ 17.07
5	VS25153	$ 25.32
5	V20152	$ 15.50
5	V25152	$ 25.32

VALVE ACCESSORIES

REF #	PART NO.	DESCRIPTION	LIST
6	V25272	Metal Valve Carry Handle	$ 42.60
7	V25270	Straight Valve Mounting Bracket	$ 28.44
8	V25271	90° Valve Mounting Bracket	$ 33.35

POLY ELECTRIC & MANIFOLD BALL VALVES



PART NO.	DESCRIPTION	MAX. PSI	PIPE SIZE	OPENING THRU BALL	LIST
EVX101	1" Electric Valve	150	1"	1"	$ 772.89
EVX121	1¼" Electric Valve	150	1¼"	1"	$ 754.04
EVX151	1½" Electric Valve	150	1½"	1½"	$1108.40
EVX201	2" Electric Valve	150	2"	1½"	$1108.40
EVX221	2" Full Port Electric Valve	150	2"	2"	$1208.16
EVX300	3" Full Port Electric Valve	100	3"	3"	$2190.84

EP21A10310	Replacement Motor, 3 Wire, for 1" & 1¼"	$ 656.38
EP31B10310	Replacement Motor, 3 Wire, for 1½" & 2"	$ 919.93
EP61C10310	Replacement Motor, 3 Wire, for 3"	$1742.05

PART NO.	DESCRIPTION	LIST
MEVX100	1" Flange X Flange Electric Port Ball Valve	$ 783.00
MEVX103	2" Inlet x 3- 1" Outlet 3 Manifold Valves	$ 2489.14
MEVX200	2" Banjo Valve with 1-1/2" Ball	$ 1140.33
MEVX220	2" Full Port Manifold Electric Ball Valve	$ 1230.50
MEVX300	3" Full Port Manifold Electric Ball Valve	$ 2196.33



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MANIFOLD VALVES

REF #	PART NO.	DESCRIPTION	MAX PSI	HANDLE PART NO.	LIST
1	VSMT200CF	2" Flange x 2" MPT Stubby	150	VS20152SH	$ 118.42
1	MVSMT300	3" Flange x 3" MPT Stubby	225	V25153	$ 313.71
2	MVS220FP	2" Full Port Flange x 2" FPT Stubby	300	VS25153	$ 147.07
3	MVS220CF	2" Full Port Flange x 2" Full Port Flange Stubby	150	VS25153	$ 122.58
3	MVS300CF	3" Flange x 3" Flange Stubby	200	V25153	$ 244.32
3	MVS300CFFP	3" Full Port Flange x 3" Full Port Flange Stubby	150	V25153	$ 297.99
4	MV100CF	1" Full Port Flange x 1" Full Port Flange	300	V10153A	$ 71.83
4	MV200CF	2" Flange x 2" Flange	225	V20153	$ 98.65
4	MV220CF	2" Full Port Flange x 2" Full Port Flange	300	V25153	$ 131.44
4	MV300	3" Flange x 3" Flange	150	V25153	$ 217.53
4	MV300CF	3" Full Port Flange x 3" Full Port Flange	200	V25153	$ 313.71

GARDEN HOSE & MANIFOLD FITTINGS

BANJO FLOW METERS



FM100

PART NO.	DESCRIPTION	LIST
FM100	1" Female NPT Flow Meter, 2-100 GPM	$ 1589.18
MFM100	1" Manifold Flow Meter, 2-110 GPM	$ 1732.84
MFM220	2" Full Port Manifold Flow Meter, 6-300 GPM	$ 1988.92
MFM300	3" Full Port Manifold Flow Meter, 14-670 GPM	$ 2471.08



MFM220



A

B

D

F



GHFT075A



GHMT075B



GHFT075D



GHMT075F



GHFT075MPT



GHMT075FPT



GHMT075MPT

GARDEN HOSE FITTINGS

ITEM	DESCRIPTION	LIST
GHFT075A	¾" Adapter x ¾" Garden Hose Female Thread	$ 8.91
GHMT075B	¾" Coupler x ¾" Garden Hose Male Thread	$ 27.67
GHFT075D	¾" Coupler x ¾" Garden Hose Female Thread	$ 31.32
GHMT075F	¾" Adapter x ¾" Garden Hose Male Thread	$ 8.91
GHFT075MPT	¾" Male NPT x ¾" Garden Hose Female Thread	$ 8.91
GHMT075FPT	¾" Female NPT x ¾" Garden Hose Male Thread	$ 7.69
GHMT075MPT	¾" Male NPT x ¾" Garden Hose Male Thread	$ 8.91

MANIFOLD FITTINGS

ITEM	PART NO.	DESCRIPTION	LIST
A	MCV100	1" Manifold Check Valve	$ 31.29
A	MCV200	2" Manifold Check Valve	$ 40.50
A	MCV220	2" Full Port Manifold Check Valve	$ 48.74
A	MCV300	3" Full Port Manifold Check Valve	$ 81.08
B	M200SWP90	2" Sweep Manifold	$ 25.01
B	M220SWP90	2" Full Port Sweep Manifold	$ 22.00
B	M220200SWP90	2" Full Port x 2" Sweep Manifold	$ 26.98
B	M300SWP90	3" Full Port Sweep Manifold	$ 100.84
C	M220ASWP90	2" Male Adapter x 2" Full Port Sweep Manifold	$ 23.10
C	M300ASWP90	3" Male Adapter x 3" Full Port Sweep Manifold	$ 116.42
D	M220BRBSWP90	2" Hose Barb x 2" Full Port Sweep Manifold	$ 51.86
D	M300BRBSWP90	3" Hose Barb x 3" Full Port Sweep Manifold	$ 100.84
E	M220MPTSWP90	2" Male NPT x 2" Full Port Sweep Manifold	$ 25.37
E	M300MPTSWP90	3" Male NPT x 3" Full Port Sweep Manifold	$ 116.42



A



B



C



D



E

MANIFOLD FITTINGS













ITEM	PART NO.	DESCRIPTION	LIST
A	M100075BRB	1" Flange x ¾" Hose Barb	$ 3.92
A	M100BRB	1" Flange x 1" Hose Barb	$ 3.92
A	M100125BRB	1" Flange x 1¼" Hose Barb	$ 3.92
A	M200100BRB	2" Std Port Flange x 1" Hose Barb	$ 8.57
A	M200125BRB	2" Std Port Flange x 1¼" Hose Barb	$ 8.88
A	M200150BRB	2" Std Port Flange x 1½" Hose Barb	$ 7.80
A	M200BRB	2" Std Port Flange x 2" Hose Barb	$ 8.57
A	M220100BRB	2" Full Port Flange x 1" Hose Barb	$ 10.52
A	M220150BRB	2" Full Port Flange x 1½" Hose Barb	$ 8.57
A	M220BRB	2" Full Port Flange x 2" Hose Barb	$ 7.80
A	M220125BRB	2" Full Port Flange x 1¼" Hose Barb	$ 8.57
A	M300220BRB	3" Flange x 2" Hose Barb	$ 26.32
A	M300BRB	3" Flange x 3" Hose Barb	$ 23.79
B	M100075BRB90	1" Flange x ¾" Hose Barb 90° Elbow	$ 4.76
B	M100BRB90	1" Flange x 1" Hose Barb 90° Elbow	$ 4.76
B	M100125BRB90	1" Flange x 1¼" Hose Barb 90° Elbow	$ 4.76
B	M100150BRB90	1" Flange x 1½" Hose Barb 90° Elbow	$ 28.64
B	M200100BRB90	2" Std Port Flange x 1" Hose Barb 90° Elbow	$ 15.86
B	M200125BRB90	2" Std Port Flange x 1¼" Hose Barb 90° Elbow	$ 15.88
B	M200150BRB90	2" Std Port Flange x 1½" Hose Barb 90° Elbow	$ 14.43
B	M200BRB90	2" Std Port Flange x 2" Hose Barb 90° Elbow	$ 15.88
B	M220150BRB90	2" Full Port Flange x 1½" Hose Barb 90° Elbow	$ 15.88
B	M220BRB90	2" Full Port Flange x 2" Hose Barb 90° Elbow	$ 15.88
B	M300220BRB90	3" Flange x 2" Hose Barb 90° Elbow	$ 26.16
B	M300BRB90	3" Flange x 3" Hose Barb 90° Elbow	$ 63.64
C	M100050FPT	1" Flange x ½" Female Thread	$ 4.04
C	M100075FPT	1" Flange x ¾" Female Thread	$ 4.04
C	M100FPT	1" Flange x 1" Female Thread	$ 7.57
C	M200FPT	2" Std Port Flange x 2" Female Thread	$ 21.93
C	M220FPT	2" Full Port Flange x 2" Female Thread	$ 35.36
C	M300FPT	3" Flange x 3" Female Thread	$ 56.92
D	M100075MPT	1" Flange x ¾" Male Thread	$ 4.52
D	M100MPT	1" Flange x 1" Male Thread	$ 4.52
D	M100125MPT	1" Flange x 1 ¼" Male Thread	$ 4.52
D	M200125MPT	2" Std Port Flange x 1¼" Male Thread	$ 7.59
D	M200150MPT	2" Std Port Flange x 1½" Male Thread	$ 7.59
D	M200MPT	2" Std Port Flange x 2" Male Thread	$ 7.59
D	M220MPT	2" Full Port Flange x 2" Male Thread	$ 7.59
D	M300MPT	3" Flange x 3" Male Thread	$ 21.04
E	M100TEE	1" Flanged Tee	$ 10.99
E	M101TEE	1" Flanged Tee Long	$ 11.02
E	M200100TEE	2" Std Port x 1" Flanged Tee	$ 22.18
E	M200TEE	2" Std Port Flanged Tee	$ 21.04
E	M220100TEE	2" Full Port Flange Tee x 1" Flanged Tee	$ 23.42
E	M220TEE	2" Full Port Flanged Tee	$ 21.04
E	M220200TEE	2" Full Port Flanged Tee x 2" Std Port Flange	$ 36.24
E	M300TEE	3" Flanged Tee	$ 99.13
F	M200100CPG	2" Std Port Flange x 1" Reducer Flange	$ 23.26
F	M220100CPG	2" Full Port Flange x 1" Reducer Flange	$ 25.61
F	M220200CPG	2" Full Port Flange x 2" Std Port Reducer Flange	$ 25.61
F	M300200CPG	3" x 2" Standard Port Reducer Flange	$ 59.73
F	M300220CPG	3" x 2" Full Port Reducer Flange	$ 54.30

MANIFOLD FITTINGS


G


H


I


J


K


L


M


N


O

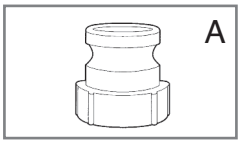

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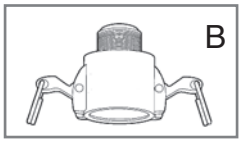
ITEM	PART NO.	DESCRIPTION	LIST
G	M100CPG45	1" Flange x 45°	$ 17.78
G	M200CPG45	2" Flange x 45°	$ 20.94
G	M220CPG45	2" Full Port Flange x 45°	$ 25.26
G	M300CPG45	3" Flange x 45°	$103.31
H	M100CPG90	1" x 1" Flange 90°	$ 11.95
H	M200CPG90	2" x 2" Std. Port Flange 90°	$ 20.00
H	M200CPG90SH	2" x 2" Std. Port Flange 90° Short	$ 20.00
H	M220CPG90	2" x 2" Full Port Flange	$ 18.20
H	M300CPG90	3" x 3" Flange 90°	$ 86.34
I	M100CPG	1" x 1" Flange	$ 9.63
I	M200CPG	2" x 2" Std. Port Flange	$ 20.48
I	M220CPG	2" x 2" Full Port Flange	$ 23.03
I	M220CPG6	2" x 2" Full Port Flange x 6"	$ 32.37
I	M300CPG	3" x 3" Std. Port Flange	$ 27.13
I	M300CPG7	3" x 3" Std. Port Flange x 7"	$ 31.99
J	M100PLG	1" Flange Plug	$ 4.57
J	M200PLG	2" Std. Port Flange Plug	$ 7.59
J	M220PLG	2" Full Port Flange Plug	$ 9.58
J	M300PLG	3" Flange Plug	$ 25.61
J	M100PLG025	1" Flange Plug with ¼" FPT	$ 17.72
J	M200PLG038	2" Std. Port Flange Plug with ⅜" FPT	$ 25.04
J	M200PLG050	2" Std. Port Flange Plug with ½" FPT	$ 22.89
J	M200PLG075	2" Std. Port Flange Plug with ¾" FPT	$ 22.89
J	M200PLG100	2" Std. Port Flange Plug with 1" FPT	$ 22.89
J	M220PLG075	2" Full Port Flange Plug with ¾" FPT	$ 34.90
J	M300PLG075	3" Std. Port Flange Plug with ¾" FPT	$ 41.41
J	M300PLG100	3" Std. Port Flange Plug with 1" FPT	$ 42.67
K	FC100	1" Worm Screw Clamp - 100 Series	$ 10.90
K	FC200	2" Worm Screw Clamp - 200 Series Std. Port	$ 12.79
K	FC220	2" Worm Screw Clamp - 220 Series Full Port	$ 13.28
K	FC300	3" Worm Screw Clamp - 300 Series	$ 18.37
L	M100G	EPDM Gasket (1") -100 Series	$ 3.63
L	M100GV	Viton Gasket (1") -100 Series FKM	$ 10.15
L	150G	EPDM Gasket (1½") - 200 Series Std. Port	$ 1.50
L	150GV	Viton Gasket (1½") - 200 Series Std. Port FKM	$ 17.86
L	200G	EPDM Gasket (2") - 220 Series Full Port	$ 1.82
L	200GV	Viton Gasket (2") - 220 Series Full Port FKM	$ 27.68
L	300G	EPDM Gasket (3") - 300 Series	$ 2.48
L	300GV	Viton Gasket (3") - 300 Series FKM	$ 37.95
L	FG100	EPDM Gasket with Gasket Holder- 100 Series	$ 2.43
L	FG200	EPDM Gasket with Gasket Holder- 200 Series	$ 2.60
L	FG220	EPDM Gasket with Gasket Holder- 220 Series	$ 2.65
L	FG300	EPDM Gasket with Gasket Holder- 300 Series	$ 3.78
M	M100A	1" Manifold Flange x 1" Male Adapter	$ 10.42
M	M200A	2" Manifold Flange x 2" Male Adapter	$ 13.92
M	M220A	2" Full Port Manifold Flange x 2" Male Adapter	$ 13.92
M	M300A	3" Std. Port Manifold Flange x 3" Male Adapter	$ 29.68
N	M100CR	1" Flanged Cross	$ 32.26
N	M200CR	2" Std. Port Flanged Cross	$ 52.60
N	M220CR	2" Full Port Flanged Cross	$ 57.85
N	M300CR	3" Flanged Cross	$116.32
O	M100BRB45	1" Flange x 1" Hose Barb 45° Elbow	$ 23.44
O	M200BRB45	2" Std. Port Flange x 2" Hose Barb 45° Elbow	$ 33.10
O	M220BRB45	2" Full Port Flange x 2" Hose Barb 45° Elbow	$ 31.90
O	M300BRB45	3" Flange x 3" Hose Barb 45° Elbow	$111.25
P	M220D	2" Full Port Flange x 2" Female Cam Lock Coupler	$ 35.22
P	M303D	3" Flange x 3" Female Cam Lock Coupler	$ 67.45

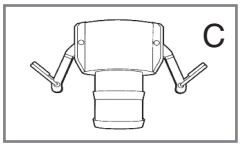
POLY CAM LOCK COUPLINGS

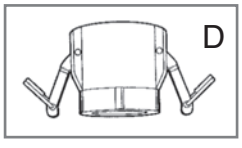
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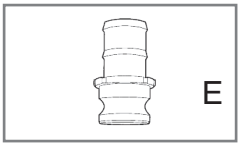
PART NO.	SIZE	DESCRIPTION	LIST
75 A1/2	½"	Male Adapter	$ 9.82
75 A3/4	¾"	Male Adapter	$ 8.21
100 A	1"	Male Adapter	$ 8.21
125 A	1¼"	Male Adapter	$ 8.21
150 A	1½"	Male Adapter	$ 9.30
200 A	2"	Male Adapter	$ 10.96
300 A	3"	Male Adapter	$ 26.46
400 A	4"	Male Adapter	$ 48.46
75 B1/2	½"	Female Coupler	$ 22.54
75 B3/4	¾"	Female Coupler	$ 18.77
100 B	1"	Female Coupler	$ 21.53
125 B	1¼"	Female Coupler	$ 21.53
150 B	1½"	Female Coupler	$ 25.35
200 B	2"	Female Coupler	$ 30.91
300 B	3"	Female Coupler	$ 51.57
400 B	4"	Female Coupler	$ 122.62
050 C	½"	Shank Coupler	$ 18.77
075 C	¾"	Shank Coupler	$ 18.77
100 C	1"	Shank Coupler	$ 21.55
125 C	1¼"	Shank Coupler	$ 21.53
150 C	1½"	Shank Coupler	$ 25.22
200 C	2"	Shank Coupler	$ 30.75
300 C	3"	Shank Coupler	$ 51.57
400 C	4"	Shank Coupler	$ 102.18
075 D	¾"	Female Coupler	$ 18.77
100 D	1"	Female Coupler	$ 21.53
125 D	1¼"	Female Coupler	$ 21.53
150 D	1½"	Female Coupler	$ 25.22
200 D	2"	Female Coupler	$ 30.75
300 D	3"	Female Coupler	$ 51.57
400 D	4"	Female Coupler	$ 102.18
050 E	½"	Shank Adapter	$ 8.87
075 E	¾"	Shank Adapter	$ 8.87
100 E	1"	Shank Adapter	$ 9.83
125 E	1¼"	Shank Adapter	$ 9.83
150 E	1½"	Shank Adapter	$ 9.86
200 E	2"	Shank Adapter	$ 12.93
300 E	3"	Shank Adapter	$ 32.92
400 E	4"	Shank Adapter	$ 48.46
075 F	¾"	Male Adapter	$ 8.87
100 F	1"	Male Adapter	$ 9.83
125 F	1¼"	Male Adapter	$ 9.83
150 F	1½"	Male Adapter	$ 9.86
200 F	2"	Male Adapter	$ 12.93
300 F	3"	Male Adapter	$ 33.92
400 F	4"	Male Adapter	$ 48.46
075 CAP	¾"	Cap	$ 18.77
100 CAP	1"	Cap	$ 20.71
125 CAP	1¼"	Cap	$ 20.71
150 CAP	1½"	Cap	$ 25.22
200 CAP	2"	Cap	$ 30.75
300 CAP	3"	Cap	$ 51.57
400 CAP	4"	Cap	$ 74.52
075 PL	¾"	Plug	$ 8.98
100 PL	1"	Plug	$ 8.61
125 PL	1¼"	Plug	$ 8.61
150 PL	1½"	Plug	$ 11.40
200 PL	2"	Plug	$ 12.84
200 PLH	2"	Plug with Handle	$ 22.90
300 PL	3"	Plug	$ 26.91
300 PLH	3"	Plug with Handle	$ 34.80
400 PL	4"	Plug	$ 38.09

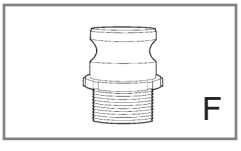


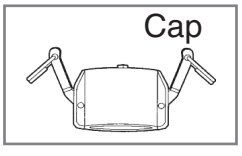


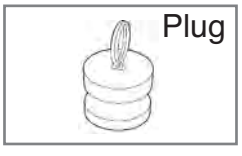












STAINLESS STEEL COUPLINGS

PART NO.	SIZE	DESCRIPTION	LIST
A150 SS	1½"	Male Adapter SS	$ 45.00
A200 SS	2"	Male Adapter SS	$ 55.00
A300 SS	3"	Male Adapter SS	$113.00
B150 SS	1½"	Female Coupler SS	$ 78.00
B200 SS	2"	Female Coupler SS	$ 94.60
B300 SS	3"	Female Coupler SS	$157.60
C150 SS	1½"	Shank Coupler SS	$ 72.00
C200 SS	2"	Shank Coupler SS	$ 92.00
C300 SS	3"	Shank Coupler SS	$181.00
D150 SS	1½"	Female Coupler SS	$ 79.00
D200 SS	2"	Female Coupler SS	$ 94.60
D300 SS	3"	Female Coupler SS	$155.00
E150 SS	1½"	Shank Adapter SS	$ 53.00
E200 SS	2"	Shank Adapter SS	$ 73.00
E300 SS	3"	Shank Adapter SS	$159.00
F150 SS	1½"	Male Adapter SS	$ 65.00
F200 SS	2"	Male Adapter SS	$ 77.70
F300 SS	3"	Male Adapter SS	$162.55
DC150 SS	1½"	Cap SS	$ 70.00
DC200 SS	2"	Cap SS	$ 82.10
DC300 SS	3"	Cap SS	$135.00
DP150 SS	1½"	Plug SS	$ 43.00
DP200 SS	2"	Plug SS	$ 48.77
DP300 SS	3"	Plug SS	$105.00

GASKETS & SHIMS

PART NO.	DESCRIPTION	LIST
75G	¾" Gasket EPDM	$ 1.57
100G	1" Gasket EPDM	$ 1.72
150G	1½" Gasket EPDM	$ 1.50
200G	2" Gasket EPDM	$ 1.82
300G	3" Gasket EPDM	$ 2.48
400G	4" Gasket EPDM	$ 6.17
75GXT	¾" Thick Gasket	$ 2.34
100GXT	1" Thick Gasket	$ 2.58
150GXT	1½" Thick Gasket	$ 2.84
200GXT	2" Thick Gasket	$ 3.69
300GXT	3" Thick Gasket	$ 4.94
4ZGS075	¾" Shim	$ .90
4ZGS100	1" Shim	$ .90
4ZGS150	1½" Shim	$ .90
4ZGS200	2" Shim	$ 1.35
4ZGS300	3" Shim	$ 1.95

CAM LOCK / METAL HOSE BARBS


200A-90


200B-90


200C-90


200CSW-90


200D-90


200F-90


200FSW-90

POLYPROPYLENE 90° COUPLINGS

PART NO.	DESCRIPTION	LIST
150A 90	90° Male Adapter 1½" Female Thread	$17.80
150C 90	90° Female Coupler 1½" Hose Shank	$36.25
150D 90	90° Female Coupler 1½" Female Thread	$36.25
150F 90	90° Male Adapter 1½" Male Thread	$21.09
200A 90	90° Male Adapter 2" Female Thread	$20.06
200B 90	90° Female Coupler, 2" Male Thread	$45.02
200C 90	90° Female Coupler 2" Hose Shank	$37.46
200CSW90	90° Female Coupler 2" Hose Shank, Sweep	$39.40
200D 90	90° Female Coupler 2" Female Thread	$37.49
200F 90	90° Male Adapter 2" Male Thread	$18.84
200F 45	45° Male Adapter 2" Male Thread	$35.41
200FSW90	90° Male Adapter 2" Male Thread, Sweep	$19.80
300FSW90	90° Male Adapter 3" Male Thread, Sweep	$54.40

ADAPTERS & COUPLERS

PART NO.	DESCRIPTION	LIST
201B	2" Female Coupler X 2" Extended Male Thread	$ 30.75
303B200A	3" Female Coupler w/ 3 Arms X 2" Male Adapter	$ 92.09
303B	3" Female Coupler X 3" Extended Male Thread	$ 65.15
200150C	2" Female Coupler X 1½" Hose Shank	$ 34.90
303C	3" Female Coupler w/ 3 Arms X 3" Hose Shank	$ 66.15
200FF	2" Male Adapter X 2" Male Adapter	$ 32.15
300FF	3" Male Adapter X 3" Male Adapter	$ 81.03
300F200F	3" Male Adapter X 2" Male Adapter	$ 81.03


201B


303B200A


303B


303C


200FF


300F200F

STEEL & SS HOSE BARBS

PART NO.	SHANK	MATERIAL	LIST
STC 10	1	Plated Steel	$ 17.20
STC 15	1¼	Plated Steel	$ 18.00
STC 20	1½	Plated Steel	$ 20.37
STC 25	2	Plated Steel	$ 23.66
STC 30	2½	Plated Steel	$ 39.27
STC 35	3	Plated Steel	$ 52.00
STC 40	4	Plated Steel	$ 80.07
RST 1	½	Stainless	$ 30.40
RST 5	¾	Stainless	$ 31.37
RST 10	1	Stainless	$ 35.00
RST 15	1¼	Stainless	$ 43.00
RST 20	1½	Stainless	$ 51.00
RST 25	2	Stainless	$ 70.11
RST 30	2½	Stainless	$ 125.00
RST 35	3	Stainless	$ 183.00
RST 40	4	Stainless	$ 280.17

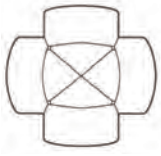
STAINLESS STEEL HOSE BARBS

PART NO.	DESCRIPTION	LIST
HB025SS	¼" MPT x ¼" Hose Barb	$ 11.05
HB025038SS	¼" MPT x ⅜" Hose Barb	$ 11.05
HB025050SS	¼" MPT x ½" Hose Barb	$ 11.05
HB038SS	⅜" MPT x ⅜" Hose Barb	$ 13.50
HB038050SS	⅜" MPT x ½" Hose Barb	$ 13.50
HB050SS	½" MPT x ½" Hose Barb	$ 17.75
HB050075SS	½" MPT x ¾" Hose Barb	$ 19.40
HB075SS	¾" MPT x ¾" Hose Barb	$ 19.65
HB075050SS	¾" MPT x ½" Hose Barb	$ 36.94
HB075100SS	3/4" MPT x 1" Hose Barb	$ 22.50
HB100SS	1" MPT x 1" Hose Barb	$ 29.65
HB100075SS	1" MPT X ¾" Hose Barb	$ 55.35
HB125SS	1¼" MPT x 1¼" Hose Barb	$ 40.05
HB150SS	1½" MPT x 1½" Hose Barb	$ 51.95
HB200SS	2" MPT x 2" Hose Barb	$ 88.60
HB300SS	3" MPT x 3" Hose Barb	$324.80

SCHEDULE 80 POLY PIPE FITTINGS

HOSE MENDER

PART NO.	DESCRIPTION	LIST
HM025	¼" x ¼" Hose Barb	$ 2.36
HM038	⅜" x ⅜" Hose Barb	$ 2.36
HM050	½" x ½" Hose Barb	$ 2.44
HM075	¾" x ¾" Hose Barb	$ 2.64
HM100	1" x 1" Hose Barb	$ 3.22
HM125	1¼" x 1¼" Hose Barb	$ 3.62
HM150	1½" x 1½" Hose Barb	$ 6.42
HM200	2" x 2" Hose Barb	$ 8.04
HM300	3" x 3" Hose Barb	$ 25.11

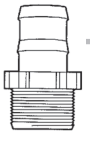


POLY CROSSES

PART NO.	DESCRIPTION	LIST
CR025	¼" Poly Cross	$ 20.20
CR038	⅜" Poly Cross	$ 22.18
CR050	½" Poly Cross	$ 34.35
CR075	¾" Poly Cross	$ 34.35
CR100	1" Poly Cross	$ 34.35
CR125	1¼" Poly Cross	$ 51.19
CR150	1½" Poly Cross	$ 51.19
CR200	2" Poly Cross	$ 52.26

POLY ELBOWS 90˚

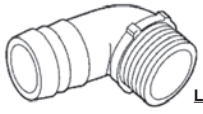
PART NO.	DESCRIPTION	LIST
EL025-90	¼" Poly Pipe Elbow 90˚	$ 5.56
EL038-90	⅜" Poly Pipe Elbow 90˚	$ 7.49
EL050-90	½" Poly Pipe Elbow 90˚	$ 6.79
EL075-90	¾" Poly Pipe Elbow 90˚	$ 6.13
EL100-90	1" Poly Pipe Elbow 90˚	$ 7.19
EL125-90	1¼" Poly Pipe Elbow 90˚	$ 10.80
EL150-90	1½" Poly Pipe Elbow 90˚	$ 16.14
EL200-90	2" Poly Pipe Elbow 90˚	$ 16.79
EL300-90	3" Poly Pipe Elbow 90˚	$ 85.21



POLY HOSE BARB

PART NO.	DESCRIPTION	LIST
HB025	¼" Male Thread x ¼" Hose Shank	$ 2.13
HB025/038	¼" Male Thread x ⅜" Hose Shank	$ 2.13
HB025/050	¼" Male Thread x ½" Hose Shank	$ 2.55
HB038/025	⅜" Male Thread x ¼" Hose Shank	$ 2.03
HB038	⅜" Male Thread x ⅜" Hose Shank	$ 2.30
HB038/050	⅜" Male Thread x ½" Hose Shank	$ 2.30
HB050/025	½" Male Thread x ¼" Hose Shank	$ 1.94
HB050/038	½" Male Thread x ⅜" Hose Shank	$ 2.30
HB050	½" Male Thread x ½" Hose Shank	$ 1.94
HB050/075	½" Male Thread x ¾" Hose Shank	$ 2.55
HB075/038	¾" Male Thread x ⅜" Hose Shank	$ 2.55
HB075/050	¾" Male Thread x ½" Hose Shank	$ 2.55
HB075	¾" Male Thread x ¾" Hose Shank	$ 2.11
HB075/058	¾" Male Thread x ⅝" Hose Shank	$ 3.12
HB075/100	¾" Male Thread x 1" Hose Shank	$ 3.12
HB100/075	1" Male Thread x ¾" Hose Shank	$ 3.12
HB100	1" Male Thread x 1" Hose Shank	$ 2.62
HB100/125	1" Male Thread x 1 ¼" Hose Shank	$ 3.82
HB125/075	1¼" Male Thread x ¾" Hose Shank	$ 3.21
HB125/100	1¼" Male Thread x 1" Hose Shank	$ 3.82
HB125	1¼" Male Thread x 1¼" Hose Shank	$ 3.82
HB125/150	1¼" Male Thread x 1½" Hose Shank	$ 7.31
HB150/100	1¼" Male Thread x 1" Hose Shank	$ 5.72
HB150/125	1¼" Male Thread x 1¼" Hose Shank	$ 5.72
HB150	1½" Male Thread x 1½" Hose Shank	$ 5.35
HB150/200	1½" Male Thread x 2" Hose Shank	$ 9.83
HB200/150	2" Male Thread x 1½" Hose Shank	$ 8.20
HB200	2" Male Thread x 2" Hose Shank	$ 6.51
HB300	3" Male Thread x 3" Hose Shank	$ 21.04
HB400	4" Male Thread x 4" Hose Shank	$ 52.87

POLY HOSE BARBS 90˚



PART NO.	DESCRIPTION	LIST
HB-025-90	¼" Male Thread x ¼" Hose Shank 90˚	$ 2.55
HB-025/038-90	¼" Male Thread x ⅜" Hose Shank 90˚	$ 2.55
HB-025/050-90	¼" Male Thread x ½" Hose Shank 90˚	$ 2.55
HB-038-90	⅜" Male Thread x ⅜" Hose Shank 90˚	$ 2.55
HB-050/038-90	½" Male Thread x ⅜" Hose Shank 90˚	$ 2.55
HB-050/90	½" Male Thread x ½" Hose Shank 90˚	$ 2.55
HB-050/075-90	½" Male Thread x ¾" Hose Shank 90˚	$ 2.55
HB-075/050-90	¾" Male Thread x ½" Hose Shank 90˚	$ 3.22
HB-075-90	¾" Male Thread x ¾ Hose Shank 90˚	$ 2.88
HB-075/100-90	¾" Male Thread x 1" Hose Shank 90˚	$ 3.22
HB-100/075-90	1" Male Thread x ¾" Hose Shank 90˚	$ 4.12
HB-100-90	1" Male Thread x 1" Hose Shank 90˚	$ 3.42
HB-100/125-90	1" Male Thread x 1¼" Hose Shank 90˚	$ 5.03
HB-125/100-90	1¼" Male Thread x 1" Hose Shank 90˚	$ 5.03
HB-125-90	1¼" Male Thread x 1¼" Hose Shank 90˚	$ 5.03
HB-125/150-90	1¼" Male Thread x 1½" Hose Shank 90˚	$ 14.48
HB-150-90	1½" Male Thread x 1½" Hose Shank 90˚	$ 12.08
HB-150/125-90	1½" Male Thread x 1¼" Hose Shank 90˚	$ 14.48
HB-200-90	2" Male Thread x 2" Hose Shank 90˚	$ 13.21
HB-200/150-90	2"Male Thread x 1½" Hose Shank 90˚	$ 15.87
HB-300-90	3" Male Thread x 3" Hose Shank 90˚	$ 63.83

POLY HOSE BARB TEES

PART NO.	DESCRIPTION	LIST
HBT-050-038	½" x ½" x ⅜" Poly Hose Barb Tee	$ 3.90
HBT050	½" Poly Hose Barb Tee	$ 4.42
HBT-050-075	½" x ½" x ¾" Poly Hose Barb Tee	$ 4.42
HBT-075-050	¾" x ¾" x ½" Poly Hose Barb Tee	$ 4.42
HBT-075	¾" Poly Hose Barb Tee	$ 4.42
HBT-100-075	1" x 1" x ¾" Poly Hose Barb Tee	$ 3.89
HBT-100	1" Poly Hose Barb Tee	$ 4.65
HBT-150-100	1½" Hose Barb x 1½" Hose Barb x 1" Male Thread Hose Barb Tee	$ 32.29

POLY HOSE BARB ELBOWS

PART NO.	DESCRIPTION	LIST
HBEL-100-90	1" Poly Hose Barb x Elbow 90˚	$ 4.23
HBEL150/100-90	1½" Hose Barb x 1" Male Thread	$ 38.70

POLY NIPPLES



PART NO.	DESCRIPTION	LIST
NIP025-SH	¼" x Short Poly Pipe Nipple	$ 2.28
NIP038-SH	⅜" x Short Poly Pipe Nipple	$ 2.44
NIP050-SH	½" x Short Poly Nipple	$ 2.90
NIP050-3	½" x 3" Poly Nipple	$ 4.86
NIP075-SH	¾" x Short Poly Pipe Nipple	$ 2.90
NIP075-4	¾" x 4" Poly Pipe Nipple	$ 5.06
NIP075-6	¾" x 6" Poly Pipe Nipple	$ 5.97
NIP100-SH	1" x Short Poly Pipe Nipple	$ 2.98
NIP100-4	1" x 4" Poly Pipe Nipple	$ 5.39
NIP100-6	1" x 6" Poly Pipe Nipple	$ 6.67
NIP125-SH	1¼" x Short Poly Pipe Nipple	$ 3.78
NIP125-4	1¼" x 4" Poly Pipe Nipple	$ 6.67
NIP125-6	1¼" x 6" Poly Pipe Nipple	$ 7.60
NIP150-SH	1½" x Short Poly Pipe Nipple	$ 5.79
NIP150-3	1½" X 3" Short Poly Pipe Nipple	$ 8.57
NIP150-4	1½" x 4" Poly Pipe Nipple	$ 14.27
NIP150-5	1½" x 5" Poly Pipe Nipple	$ 15.99
NIP150-6	1½" x 6" Poly Pipe Nipple	$ 16.79
NIP200-SH	2" x Short Poly Pipe Nipple	$ 6.55
NIP200-4	2" x 4" Poly Pipe Nipple	$ 13.81
NIP200-6	2" x 6" Poly Pipe Nipple	$ 16.11
NIP300-SH	3" x Short Poly Pipe Nipple	$ 20.52
NIP300-4	3" x 4" Poly Pipe Nipple	$ 30.84
NIP300-6	3" X 6" Poly Pipe Nipple	$ 39.79
NIP400-SH	4" X Short Poly Nipple	$ 38.36

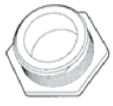
SCHEDULE 80 POLY PIPE FITTINGS

POLY PIPE CAPS



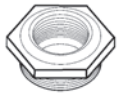
PART NO.	DESCRIPTION	LIST
CAP025	¼" Poly Pipe Cap	$ 4.00
CAP038	⅜" Poly Pipe Cap	$ 4.14
CAP050	½" Poly Pipe Cap	$ 10.39
CAP075	¾" Poly Pipe Cap	$ 10.39
CAP100	1" Poly Pipe Cap	$ 8.65
CAP125	1¼" Poly Pipe Cap	$ 11.69
CAP150	1½" Poly Pipe Cap	$ 14.71
CAP200	2" Poly Pipe Cap	$ 17.04
CAP300	3" Poly Pipe Cap	$ 60.98

POLY PIPE PLUGS



PART NO.	DESCRIPTION	LIST
PLUG025	¼" Poly Pipe Plug	$ 5.35
PLUG038	⅜" Poly Pipe Plug	$ 5.35
PLUG050	½" Poly Pipe Plug	$ 5.39
PLUG075	¾" Poly Pipe Plug	$ 5.39
PLUG100	1" Poly Pipe Plug	$ 5.39
PLUG125	1¼" Poly Pipe Plug	$ 7.06
PLUG150	1½" Poly Pipe Plug	$ 7.06
PLUG200	2" Poly Pipe Plug	$ 7.13
PLUG300	3" Poly Pipe Plug	$ 33.72

POLY REDUCER BUSHINGS



PART NO.	DESCRIPTION	LIST
RB038-025	⅜" x ¼" Poly Pipe Reducer Bushing	$ 5.06
RB050-025	½" x ¼" Poly Pipe Reducer Bushing	$ 4.21
RB050-038	½" x ⅜" Poly Pipe Reducer Bushing	$ 5.06
RB075-018	¾" x ⅛" Poly Pipe Reducer Bushing	$ 5.39
RB075-025	¾" x ¼" Poly Pipe Reducer Bushing	$ 5.06
RB075-038	¾" x ⅜" Poly Pipe Reducer Bushing	$ 5.06
RB075-050	¾" x ½" Poly Pipe Reducer Bushing	$ 5.06
RB100-018	1" x ⅛" Poly Pipe Reducer Bushing	$ 5.39
RB100-025	1" x ¼" Poly Pipe Reducer Bushing	$ 5.39
RB100-050	1" x ½" Poly Pipe Reducer Bushing	$ 5.39
RB100-075	1" x ¾" Poly Pipe Reducer Bushing	$ 5.39
RB125-038	1" X ⅜" Poly Pipe Reducer Bushing	$ 5.39
RB125-075	1¼" x ¾" Poly Pipe Reducer Bushing	$ 5.39
RB125-100	1¼" x 1" Poly Pipe Reducer Bushing	$ 5.39
RB150-075	1½" x ¾" Poly Pipe Reducer Bushing	$ 7.11
RB150-100	1½" x 1" Poly Pipe Reducer Bushing	$ 7.11
RB150-125	1½" x 1¼" Poly Pipe Reducer Bushing	$ 7.11
RB200-075	2" x ¾" Poly Pipe Reducer Bushing	$ 6.44
RB200-100	2" x 1" Poly Pipe Reducer Bushing	$ 6.44
RB200-125	2" x 1¼" Poly Pipe Reducer Bushing	$ 7.74
RB200-150	2" x 1½" Poly Pipe Reducer Bushing	$ 6.44
RB300-150	3" x 1½" Poly Pipe Reducer Bushing	$ 32.21
RB300-200	3" x 2" Poly Pipe Reducer Bushing	$ 26.85
RB400-300	4" x 3" Poly Pipe Reducer Bushing	$ 49.96

POLY PIPE COUPLINGS



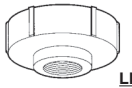
PART NO.	DESCRIPTION	LIST
CPLG025	¼" Poly Pipe Coupling	$ 6.89
CPLG038	⅜" Poly Pipe Coupling	$ 7.73
CPLG050	½" Poly Pipe Coupling	$ 7.73
CPLG075	¾" Poly Pipe Coupling	$ 7.37
CPLG100	1" Poly Pipe Coupling	$ 7.34
CPLG125	1¼" Poly Pipe Coupling	$ 11.86
CPLG150	1½" Poly Pipe Coupling	$ 16.44
CPLG200	2" Poly Pipe Coupling	$ 18.76
CPLG300	3" Poly Pipe Coupling	$ 53.05

POLY FEMALE HOSE BARB



PART NO.	DESCRIPTION	LIST
HBF075	¾" Female Thread	$ 6.25
HBF075-100	¾" Female Thread x 1" Hose	$ 5.22
HBF100	1" Female Thread x 1" Hose	$ 4.41

POLY PIPE REDUCER COUPLINGS



PART NO.	DESCRIPTION	LIST
RC100-075	1" x ¾" Poly Reducer Coupling	$ 11.45
RC150-100	1½" x 1" Poly Reducer Coupling	$ 19.46
RC150-125	1½" x 1¼" Poly Reducer Coupling	$ 19.46
RC200-050	2" x ½" Poly Reducer Coupling	$ 20.69
RC200-100	2" x 1" Poly Reducer Coupling	$ 17.22
RC200-125	2" x 1¼" Poly Reducer Coupling	$ 20.69
RC200-150	2" x 1½" Poly Reducer Coupling	$ 17.22
RC300-200	3" x 2" Poly Reducer Coupling	$ 61.14

POLY REDUCER NIPPLES



PART NO.	DESCRIPTION	LIST
RN050-038	½" x ⅜" Poly Reducer Nipple	$ 3.85
RN075-050	¾" x ½" Poly Reducer Nipple	$ 4.13
RN100-050	1" x ½" Poly Reducer Nipple	$ 5.33
RN100-075	1" x ¾" Poly Reducer Nipple	$ 4.84
RN125-075	1¼" x ¾" Poly Reducer Nipple	$ 5.59
RN125-100	1¼" x 1" Poly Reducer Nipple	$ 5.06
RN150-100	1½" x 1" Poly Reducer Nipple	$ 6.00
RN150-125	1½" x 1¼" Poly Reducer Nipple	$ 5.39
RN200-125	2" x 1¼" Poly Reducer Nipple	$ 7.34
RN200-150	2" x 1½" Poly Reducer Nipple	$ 5.98
RN300-200	3" x 2" Poly Reducer Nipple	$ 20.45

POLY STREET ELBOW 90˚



PART NO.	DESCRIPTION	LIST
SL025-90˚	¼" Poly Pipe Street Elbow 90˚	$ 5.56
SL038-90˚	⅜" Poly Pipe Street Elbow 90˚	$ 6.51
SL050-90˚	½" Poly Pipe Street Elbow 90˚	$ 5.91
SL075-90˚	¾" Poly Pipe Street Elbow 90°	$ 6.30
SL100-90˚	1" Poly Pipe Street Elbow 90˚	$ 7.47
SL125-90˚	1¼" Poly Pipe Street Elbow 90˚	$ 10.28
SL150-90˚	1½" Poly Pipe Street Elbow 90˚	$ 14.56
SL200-90˚	2" Poly Pipe Street Elbow 90˚	$ 17.27
SL300-90˚	3" Poly Pipe Street Elbow 90˚	$ 87.88

POLY STREET ELBOW 45˚



PART NO.	DESCRIPTION	LIST
SL075-45˚	¾" Poly Pipe Street Elbow 45˚	$ 12.19
SL100-45˚	1" Poly Pipe Street Elbow 45˚	$ 16.38
SL125-45˚	1¼" Poly Pipe Street Elbow 45˚	$ 20.29
SL150-45˚	1½" Poly Pipe Street Elbow 45˚	$ 20.62
SL200-45˚	2" Poly Pipe Street Elbow 45˚	$ 23.31
SL300-45˚	3" Poly Pipe Street Elbow 45˚	$ 96.54

POLYETHYLENE SUCTION BASKET STRAINER

PART NO.	DESCRIPTION	LIST
150SBS	1½" Female Thread Poly Basket	$ 27.67
200SBS	2" Female Thread Poly Basket	$ 45.51

POLY TEES



PART NO.	DESCRIPTION	LIST
TEE025	¼" Poly Pipe Tee	$ 7.23
TEE038	⅜" Poly Pipe Tee	$ 7.47
TEE050	½" Poly Pipe Tee	$ 6.55
TEE075	¾" Poly Pipe Tee	$ 7.03
TEE100	1" Poly Pipe Tee	$ 10.14
TEE125	1¼" Poly Pipe Tee	$ 14.03
TEE150	1½" Poly Pipe Tee	$ 15.97
TEE200	2" Poly Pipe Tee	$ 20.88
TEE300	3" Poly Pipe Tee	$ 94.75
TEG100	1" Poly Pipe Tee with Gauge Port	$ 34.07

POLYPROPYLENE PIPE FITTINGS

MALE TAPER THREADS AND HOSE BARBS

PART NO.	THREAD	BARB	LIST
3A1814	⅛	¼	$ .71
3A1838	⅛	⅜	$ .71
3A14	¼	¼	$ .70
3A1438	¼	⅜	$ .69
3A1412	¼	½	$ .71
3A3814	⅜	¼	$ .83
3A38	⅜	⅜	$ .71
3A3812	⅜	½	$ .70
A3858	⅜	⅝	$ .88
3A1214	½	¼	$ .74
3A1238	½	⅜	$ .79
3A12	½	½	$ .79
3A1258	½	⅝	$ .79
3A1234	½	¾	$ .79
A12100	½	1	$ 2.63
A3414	¾	¼	$ .98
3A3438	¾	⅜	$ .90
3A3412	¾	½	$ .91
3A3458	¾	⅝	$ .90
3A34	¾	¾	$ .91
3A34100	¾	1	$ 1.08
3A10034	1	¾	$ 1.24
3A100	1	1	$ 1.22
3A100114	1	1¼	$ 2.03
3A11434	1¼	¾	$ 2.30
3A114100	1¼	1	$ 2.15
3A114	1¼	1¼	$ 2.40
3A114112	1¼	1½	$ 2.50
3A112114	1½	1¼	$ 2.55
3A112	1½	1½	$ 2.45
3A200	2	2	$ 4.14

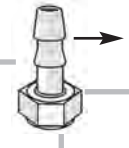
ELBOWS: MALE TAPER BY HOSE BARB

PART NO.	THREAD	BARB	LIST
EL1814	⅛	¼	$ 2.63
EL1838	⅛	⅜	$ 2.52
3EL14	¼	¼	$ 1.05
3EL1438	¼	⅜	$ 1.04
3EL1412	¼	½	$ 1.10
EL1458	¼	⅝	$ 3.00
3EL3814	⅜	¼	$ 1.08
3EL38	⅜	⅜	$ 1.20
3EL3812	⅜	½	$ 1.15
EL3858	⅜	⅝	$ 1.60
3EL1214	½	¼	$ 1.20
3EL1238	½	⅜	$ 1.20
3EL12	½	½	$ 1.20
3EL1258	½	⅝	$ 1.35
3EL1234	½	¾	$ 1.35
EL12100	½	1	$ 3.90
3EL3438	¾	⅜	$ 1.66
3EL3412	¾	½	$ 1.55
3EL3458	¾	⅝	$ 1.65
3EL34	¾	¾	$ 1.65
3EL34100	¾	1	$ 2.50
3EL10012	1	½	$ 2.35
3EL10034	1	¾	$ 2.54
3EL100	1	1	$ 3.25
3EL11434	1¼	¾	$ 8.65
3EL114100	1¼	1	$ 6.32
3EL114	1¼	1¼	$ 6.20
3EL114112	1¼	1½	$ 10.40
3EL112	1½	1½	$ 7.36
3EL200	2	2	$ 8.95





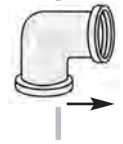












HOSE MENDERS

PART NO.	BARB	BARB	LIST
SHM18	⅛	⅛	$ .68
3SHM14	¼	¼	$ .69
SHM3814	⅜	¼	$ 1.24
3SHM38	⅜	⅜	$ .70
3SHM1238	½	⅜	$ .81
3SHM12	½	½	$ .70
3SHM1214	½	¼	$ .77
3SHM1258	½	⅝	$ .83
3SHM5838	⅝	⅜	$ .79
3SHM58	⅝	⅝	$ .79
3SHM34	¾	¾	$ .91
3SHM100	1	1	$ 1.17
3SHM114	1¼	1¼	$ 2.65
3SHM112	1½	1½	$ 3.51
HM200	2	2	$ 8.04

ELBOWS: HOSE BARBS BY HOSE BARBS

PART NO.	BARB	BARB	LIST
EL14HB	¼	¼	$ 1.70
3EL38HB	⅜	⅜	$ 1.05
EL1214HB	½	¼	$ 1.40
EL1238HB	½	⅜	$ 1.86
3EL12HB	½	½	$ 1.05
EL58HB	⅝	⅝	$ 2.55
3EL34HB	¾	¾	$ 1.40
3EL100HB	1	1	$ 2.85

FEMALE THREADS BY SLIP ON HOSE BARBS

PART NO.	THREADED	BARB	LIST
3Q12	½	½	$ 3.18
3Q14	¼	¼	$ 3.18

HEX AND SQUARE HEAD PLUGS WITH MALE TAPER THREADS

PART NO.	HEAD	THREAD	LIST
3F18	Hex	⅛	$ .66
3F14	Hex	¼	$ .69
3F38	Hex	⅜	$ .71
3F12	Hex	½	$ .77
3F34	Hex	¾	$ .81
3F100	Hex	1	$ 1.07
3F114	Hex	1¼	$ 1.94
3F112	Hex	1½	$ 2.15
3F200	Hex	2	$ 2.70

COUPLINGS: FEMALE PIPE BY FEMALE PIPE

PART NO.	THREAD	THREAD	LIST
3FC12	½	½	$ 4.52
3FC34	¾	¾	$ 4.71
3FC100	1	1	$ 8.06
3FC114	1¼	1¼	$ 9.89
3FC112	1½	1½	$ 10.12
3FC200	2	2	$ 11.36

ELBOWS: FEMALE PIPE BY FEMALE PIPE

PART NO.	THREAD	THREAD	LIST
3LL12	½	½	$ 5.53
3LL34	¾	¾	$ 6.10
3LL100	1	1	$ 9.50
3LL114	1¼	1¼	$ 13.50
3LL112	1½	1½	$ 15.40
3LL200	2	2	$ 20.45

POLYPROPYLENE PIPE FITTINGS

NIPPLES: MALE TAPER PIPE THREAD



PART NO.	THREAD	THREAD	LIST
3M14	¼	¼	$ .70
3M38	⅜	⅜	$ .74
3M12	½	½	$ .78
3M34	¾	¾	$ .95
3M100	1	1	$ 1.17
3M114	1¼	1¼	$ 2.62
3M112	1½	1½	$ 4.56
3M200	2	2	$ 5.00
3M1238	½	⅜	$ .77
3M3438	¾	⅜	$ 1.05
3M3412	¾	½	$ .95

REDUCER BUSHINGS



PART NO.	THREAD	THREAD	LIST
3RB3818	⅜	⅛	$ 2.04
3RB3814	⅜	¼	$ 1.57
3RB1214	½	¼	$ 1.80
3RB1238	½	⅜	$ 2.38
3RB3418	¾	⅛	$ 2.06
3RB3414	¾	¼	$ 1.95
3RB3438	¾	⅜	$ 1.95
3RB3412	¾	½	$ 1.95
3RB10012	1	½	$ 2.34
3RB10034	1	¾	$ 2.09
3RB11434	1¼	¾	$ 4.77
3RB114100	1¼	1	$ 4.60
3RB11234	1½	¾	$ 5.83
3RB112100	1½	1	$ 5.03
3RB112114	1½	1¼	$ 5.28
3RB200100	2	1	$ 8.02
3RB200114	2	1¼	$ 6.88
3RB200112	2	1½	$ 5.90
3RB300200	3	2	$ 18.10

STREET ELBOWS: 90°



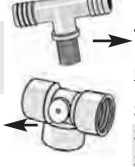
PART NO.	THREAD	THREAD	LIST
3SE14	¼	¼	$ 2.60
3SE12	½	½	$ 3.55
3SE34	¾	¾	$ 4.13
3SE100	1	1	$ 10.50
3SE114	1¼	1¼	$ 15.45
3SE112	1½	1½	$ 16.70
3SE200	2	2	$ 18.25

STREET ELBOWS: 45°



PART NO.	THREAD	THREAD	LIST
3SE3445	¾	¾	$ 2.40
SEQ414	¼	¼	$ 9.13

TEES: FEMALE TAPER PIPE THREAD



PART NO.	THREAD	LIST
3TT14	¼	$ 4.80
3TT12	½	$ 8.23
3TT34	¾	$ 10.25
3TT100	1	$ 13.83
3TT114	1¼	$ 17.55
3TT112	1½	$ 21.00
3TT200	2	$ 28.60

TEES: BARBED

PART NO.	BARB	BARB 2 & 3	LIST
T18	⅛	⅛	$ 1.49
3T14	¼	¼	$ 1.37
3T1438	¼	⅜	$ 1.28
3T38	⅜	⅜	$ 1.14
3T3812	⅜	½	$ 2.00
T3858	⅜	⅝	$ 1.31
T1238	½	⅜	$ 1.20
3T12	½	½	$ 1.19
3T58	⅝	⅝	$ 1.44
3T3412	¾	½	$ 3.86
3T34	¾	¾	$ 1.45
3T100	1	1	$ 2.15
3T114	1¼	1¼	$ 6.40
3T112	1½	1½	$ 8.75
3T200	2	2	$ 14.05

TEES: BARBS BY MALE



PART NO.	THREAD	BARB	LIST
T1814T	⅛	¼	$ 1.36
T14T	¼	¼	$ 1.20
T1438T	¼	⅜	$ 1.25
T1412T	¼	½	$ 1.27
T3814T	⅜	¼	$ 1.45
T38T	⅜	⅜	$ 1.50
T3812T	⅜	½	$ 2.60
T1238T	½	⅜	$ 1.40
T12T	½	½	$ 1.40
T34T	¾	¾	$ 2.16
T34100T	¾	1	$ 3.04

TEES: GAUGE PORT FEMALE TEE



PART NO.	THREAD	PORT	LIST
3GTT1214	½	¼	$ 6.20
3GTT3414	¾	¼	$ 17.36

NYLON STRAPS

PART NO.	LENGTH	WIDTH	LIST
3NS7	6¾	.195”	$ 1.15
3NS8	8	.189”	$ 0.35
3NS12	11½	.189”	$ 0.45
3NS17	17	.189”	$ 2.10
3NS21	21	.315”	$ 1.81
3NS28	28	.354”	$ 2.29
3NS32	32	.354”	$ 2.43

ELBOWS: MALE THREAD BY HOSE BARB



PART NO.	THREAD	BARB	LIST
3NTL14	11/16	¼	$ 2.01
3NTL38	11/16	⅜	$ 1.76
3NTL12	11/16	½	$ 1.76
3NTL58	11/16	⅝	$ 2.19
3NTL34	11/16	¾	$ 2.42

TEES: MALE THREAD BY HOSE BARB

PART NO.	THREAD	BARB	LIST
3NTT38	11/16	⅜	$ 1.87
3NTT12	11/16	½	$ 1.87
3NTT58	11/16	⅝	$ 2.89
3NTT34	11/16	¾	$ 2.90

POLYPROPYLENE PIPE FITTINGS

TEES: BARBS BY FEMALE

PART NO.	BARB	BARB	LIST
3T34F	¾	¾	$ 4.15

CROSSES: BARB BY MALE

PART NO.	THREAD	BARB	LIST
3T38C	11/16	⅜	$ 4.07
3T12C	11/16	½	$ 8.28
3T34C	11/16	¾	$ 3.76

NUT NOT INCLUDED

NOZZLE BODY NUT

PART NO.	THREAD	LIST
3B12	11/16	$ .37

STRAIGHT HOSE SHANKS: THREAD BY BARB

PART NO.	THREAD	BARB	LIST
338D	11/16	⅜	$ 1.47
33812D	11/16	½	$ 1.51

NOZZLE FITTINGS: SWIVEL NUT

PART NO.	THREAD	LIST
PF38027	11/16	$ .62

NOZZLE FITTINGS: NOZZLE CAP PLUG

PART NO.	THREAD	LIST
33942NY	11/16	$ .65

NIPPLES: NOZZLE FITTINGS

PART NO.	THREAD	THREAD	LIST
3NB1614	11/16	¼	$ .82
3NB1612	11/16	½	$ 1.03

FEMALE SPRAY TIP ADAPTERS

PART NO.	THREAD	THREAD	LIST
NF1614	11/16	¼	$ 1.60

METERING BARB FOR 8027 SWIVEL NUT

PART NO.	BARB	LIST
3K8414	¼	$ .65
3K8438	⅜	$ .66
3K8412	½	$ .68

BALL CHECK VALVE

PART NO.	DESCRIPTION	LIST
NBC 10	11/16 FPS X 11/16	$ 8.72

GARDEN HOSE: FLAT SEAT HOSE BARBS

PART NO.	BARB	LIST
3C14	¼	$ .74
3C38	⅜	$ .74
3C12	½	$ .74
3C58	⅝	$ .74
3C34	¾	$ .74
3C100	1	$ 1.64

GARDEN HOSE: WASHERS & FILTERS

PART NO.	O.D.	I.D.	LIST
W406V	1	¾	$ .14
W160M	1	⅝	$ .97

MALE GARDEN HOSE: THREADS AND BARBS

PART NO.	THREAD	BARB	LIST
3D3438	¾	⅜	$ .94
3D3412	¾	½	$ .94
3D3458	¾	⅝	$ .94
3D34	¾	¾	$ .94

ADAPTERS: MALE GARDEN HOSE THREADS

PART NO.	THREAD	THREAD	LIST
3E3412	¾	½	$ .95
3E34	¾	¾	$ 1.05

ELBOWS: FEMALE PIPE THREADS BY HOSE BARBS

PART NO.	THREAD	BARB	LIST
EL3812F	⅜	½	$ 3.24
3EL3412F	¾	½	$ 3.00
3EL34F	¾	¾	$ 4.67

ADAPTERS: FEMALE GARDEN HOSE BY MALE PIPE

PART NO.	THREAD	THREAD	LIST
3H34	¾	¾	$ 2.75

ADAPTERS: MALE AND FEMALE GARDEN HOSE THREAD

PART NO.	THREAD	THREAD	LIST
3I34	¾	¾	$ 2.73

COUPLINGS: FEMALE GARDEN HOSE BY FEMALE PIPE

PART NO.	THREAD	THREAD	LIST
3J3412	¾	½	$ 2.73

ADAPTERS: MALE GARDEN HOSE BY FEMALE PIPE

PART NO.	THREAD	THREAD	LIST
3G3414	¾	¼	$ 2.81
3G3412	¾	½	$ 2.81
3G34	¾	¾	$ 2.73

ELBOWS: GARDEN HOSE BY MALE PIPES

PART NO.	THREAD	THREAD	LIST
3EL3412GP	¾	½	$ 4.28

GARDEN HOSE: BLANK CAP

PART NO.	THREAD	LIST
3N34	¾	$ 1.40

GARDEN HOSE: SWIVEL NUTS

PART NO.	THREAD	LIST
3B34	¾	$ .81

SWIVEL NUTS

PART NO.	THREAD	LIST
3B35	¾	$ 1.63

PIPE FITTINGS



CAST IRON NIPPLES

PART NO.	DESCRIPTION
14XCLNP CI	¼"xClose NPL
14X2NP CI	¼"x2" NPL
14X3NP CI	¼"x3" NPL
14X4NP CI	¼"x4" NPL
14X6NP CI	¼"x6" NPL
38XCLNP CI	⅜"xClose NPL
38X2NP CI	⅜"x2" NPL
38X3NP CI	⅜"x3" NPL
38X4NP CI	⅜"x4" NPL
38X6NP CI	⅜"x6" NPL
12XCLNP CI	½"xClose NPL
12X2NP CI	½"x2" NPL
12X3NP CI	½"x3" NPL
12X4NP CI	½"x4" NPL
12X6NP CI	½"x6" NPL
34XCLNP CI	¾"xClose NPL
34X2NP CI	¾"x2" NPL
34X3NP CI	¾"x3" NPL
34X4NP CI	¾"x4" NPL
34X6NP CI	¾"x6" NPL
100XCLNP CI	1"xClose NPL
100X2NP CI	1"x2" NPL
100X3NP CI	1"x3" NPL
100X4NP CI	1"x4" NPL
100X6NP CI	1"x6" NPL
114XCLNP CI	1¼"xClose NPL
114X2NP CI	1¼"x2" NPL
114X3NP CI	1¼"x3" NPL
114X4NP CI	1¼"x4" NPL
114X6NP CI	1¼"x6" NPL
112XCLNP CI	1½"xClose NPL
112X2NP CI	1½"x2" NPL
112X3NP CI	1½"x3" NPL
112X4NP CI	1½"x4" NPL
112X6NP CI	1½"x6" NPL
200XCLNP CI	2"xClose NPL
200X3NP CI	2"x3" NPL
200X4NP CI	2"x4" NPL
200X6NP CI	2"x6" NPL
300XCLNP CI	3"xClose NPL
300X3NP CI	3"x3" NPL
300X4NP CI	3"x4" NPL
300X6NP CI	3"x6" NPL
400XCLNP CI	4"xClose NPL

SCHEDULE 80 NIPPLES

PART NO.	DESCRIPTION	LIST
14XCLNP XHI	¼"xClose NPL	$ 5.40
14X2NP XHI	¼"x2" NPL	$ 6.35
14X3NP XHI	¼"x3" NPL	$ 4.96
14X4NP XHI	¼"x4" NPL	$ 5.15
14X6NP XHI	¼"x6" NPL	$ 7.30
38XCLNP XHI	⅜"xClose NPL	$ 4.60
38X2NP XHI	⅜"x2" NPL	$ 4.10
38X3NP XHI	⅜"x3" NPL	$ 3.99
38X4NP XHI	⅜"x4" NPL	$ 4.15
38X6NP XHI	⅜"x6" NPL	$ 6.28
12XCLNP XHI	½"xClose NPL	$ 4.70
12X2NP XHI	½"x2" NPL	$ 3.45
12X3NP XHI	½"x3" NPL	$ 3.27
12X4NP XHI	½"x4" NPL	$ 7.35
12X6NP XHI	½"x6" NPL	$ 4.53
34XCLNP XHI	¾"xClose NPL	$ 5.85
34X2NP XHI	¾"x2" NPL	$ 4.10
34X3NP XHI	¾"x3" NPL	$ 5.35
34X4NP XHI	¾"x4" NPL	$ 4.77
34X6NP XHI	¾x"6" NPL	$ 13.50
100XCLNP XHI	1"xClose NPL	$ 9.05
100X2NP XHI	1"x2" NPL	$ 10.30
100X3NP XHI	1"x3" NPL	$ 10.70
100X4NP XHI	1"x4" NPL	$ 12.40
100X6NP XHI	1"x6" NPL	$ 17.55
114XCLNP XHI	1¼"xClose NPL	$ 11.10
114X2NP XHI	1¼"x2" NPL	$ 11.90
114X3NP XHI	1¼"x3" NPL	$ 13.05
114X4NP XHI	1¼"x4" NPL	$ 16.20
114X6NP XHI	1¼"x6" NPL	$ 22.40
112XCLNP XHI	1½"xClose NPL	$ 13.80
112X2NP XHI	1½"x2" NPL	$ 13.95
112X3NP XHI	1½"x3" NPL	$ 21.45
112X4NP XHI	1½"x4" NPL	$ 18.20
112X6NP XHI	1½"x6" NPL	$ 25.25
200XCLNP XHI	2"xClose NPL	$ 17.90
200X3NP XHI	2"x3" NPL	$ 19.00
200X4NP XHI	2"x4" NPL	$ 24.50
200X6NP XHI	2"x6" NPL	$ 22.22
300XCLNP XHI	3"xClose NPL	$ 64.00

STAINLESS STEEL NIPPLES

PART NO.	DESCRIPTION	LIST
14XCLNP SS	¼"xClose NPL	$ 2.20
14X2NP SS	¼"x2" NPL	$ 3.30
14X3NP SS	¼"x3" NPL	$ 4.65
14X4NP SS	¼"x4" NPL	$ 5.80
14X6NP SS	¼"x6" NPL	$ 8.10
14X12NP SS	¼"x12" NPL	$ 16.20
38XCLNP SS	⅜"xClose NPL	$ 2.75
38X2NP SS	⅜"x2" NPL	$ 4.00
38X3NP SS	⅜"x3" NPL	$ 5.60
38X4NP SS	⅜"x4" NPL	$ 7.15
38X6NP SS	⅜"x6" NPL	$ 9.95
12XCLNP SS	½"xClose NPL	$ 3.40
12X2NP SS	½"x2" NPL	$ 4.95
12X3NP SS	½"x3" NPL	$ 6.80
12X4NP SS	½"x4" NPL	$ 8.80
12X6NP SS	½"x6" NPL	$ 7.61
34XCLNP SS	¾"xClose NPL	$ 4.65
34X2NP SS	¾"x2" NPL	$ 5.80
34X3NP SS	¾"x3" NPL	$ 8.15
34X4NP SS	¾"x4" NPL	$ 10.50
34X6NP SS	¾"x6" NPL	$ 15.30
100XCLNP SS	1"xClose NPL	$ 6.00
100X2NP SS	1"x2" NPL	$ 7.70
100X3NP SS	1"x3" NPL	$ 10.45
100X4NP SS	1"x4" NPL	$ 13.40
100X6NP SS	1"x6" NPL	$ 19.45
114XCLNP SS	1¼"xClose NPL	$ 8.30
114X2NP SS	1¼"x2" NPL	$ 9.85
114X3NP SS	1¼"x3" NPL	$ 13.70
114X4NP SS	1¼"x4" NPL	$ 17.40
114X6NP SS	1¼"x6" NPL	$ 24.60
112XCLNP SS	1½"xClose NPL	$ 10.10
112X2NP SS	1½"x2" NPL	$ 11.25
112X3NP SS	1½"x3" NPL	$ 15.65
112X4NP SS	1½"x4" NPL	$ 19.95
112X6NP SS	1½"x6" NPL	$ 29.20
200XCLNP SS	2"xClose NPL	$ 15.70
200X3NP SS	2"x3" NPL	$ 20.20
200X4NP SS	2"x4" NPL	$ 25.60
200X6NP SS	2"x6" NPL	$ 37.35
300XCLNP SS	3"xClose NPL	$ 43.75
300X3NP SS	3"x3" NPL	$ 48.20
300X4NP SS	3"x4" NPL	$ 60.45
300X6NP SS	3"x6" NPL	$ 81.30
300X12NP SS	3"x12" NPL	$158.00
400XCLNP SS	4"xClose NPL	$ 58.55
400X4NP SS	4"x4" NPL	$ 73.50

Rectorseal

PART NO.		DESCRIPTION	LIST
25631	¼ Pint	RECTORSEAL #5 Yellow	$ 37.55
25431	1 Pint	RECTORSEAL #5 Yellow	$ 54.55
28651	½ Pint	RECTORSEAL #21 Black	$ 43.85
28541	1 Pint	RECTORSEAL #21 Black	$ 62.20
RSTB	½ Pint	RECTORSEAL Tru-Blue	$ 47.19
L567		Stainless Sealant, Large Tube	$203.00
L567T		Stainless Sealant, Small Tube	$ 67.00





JOMAR TUFFY SEAL

PART NO.	DESCRIPTION	LIST
400 001	2 oz. Tube TEF/SEAL	$ 12.42
400 003	½ Pint TEF/SEAL	$ 34.35
400 004	1 Pint TEF/SEAL	$ 49.25

TEFLON TAPE



PART NO.	DESCRIPTION	LIST
1226	½" x 260"	$ 1.55
1252	½" x 520"	$ 2.21
3452	¾" x 260"	$ 3.40

PIPE FITTINGS



CAST IRON 90° STREET ELBOW

PART NO.	DESCRIPTION	
014SE CI	¼"	St. Elbow
038SE CI	⅜"	St. Elbow
012SE CI	½"	St. Elbow
034SE CI	¾"	St. Elbow
100SE CI	1"	St. Elbow
114SE CI	1¼"	St. Elbow
112SE CI	1½"	St. Elbow
200SE CI	2"	St. Elbow
300SE CI	3"	St. Elbow
400SE CI	4"	St. Elbow

SCHEDULE 80 STREET ELBOW

PART NO.	DESCRIPTION		LIST
014SE XHI	¼"	St. Elbow	$ 28.30
038SE XHI	⅜"	St. Elbow	$ 14.70
012SE XHI	½"	St. Elbow	$ 26.10
034SE XHI	¾"	St. Elbow	$ 18.50
100SE XHI	1"	St. Elbow	$ 54.00
114SE XHI	1¼"	St. Elbow	$ 74.10
112SE XHI	1½"	St. Elbow	$ 91.20

STAINLESS STEEL 90° STREET ELBOW

PART NO.	DESCRIPTION		LIST
014SE SS	¼"	St. Elbow	$ 5.90
038SE SS	⅜"	St. Elbow	$ 7.00
012SE SS	½"	St. Elbow	$ 7.00
034SE SS	¾"	St. Elbow	$ 11.50
100SE SS	1"	St. Elbow	$ 19.80
114SE SS	1¼"	St. Elbow	$ 28.80
112SE SS	1½"	St. Elbow	$ 34.25
200SE SS	2"	St. Elbow	$ 46.10
300SE SS	3"	St. Elbow	$131.10
400SE SS	4"	St. Elbow	$251.60



CAST IRON REDUCER BUSHING

PART NO.	DESCRIPTION	
1418RB CI	¼"x⅛"	Reducer Bshg.
3818RB CI	⅜"x⅛"	Reducer Bshg
3814RB CI	⅜"x¼"	Reducer Bshg.
1218RB CI	½"x⅛"	Reducer Bshg.
1214RB CI	½"x¼"	Reducer Bshg.
1238RB CI	½"x⅜"	Reducer Bshg.
3418RB CI	¾"x⅛"	Reducer Bshg.
3414RB CI	¾"x¼"	Reducer Bshg.
3438RB CI	¾"x⅜"	Reducer Bshg.
3412RB CI	¾"x½"	Reducer Bshg.
10014RB CI	1"x¼"	Reducer Bshg.
10038RB CI	1"x⅜"	Reducer Bshg.
10012RB CI	1"x½"	Reducer Bshg.
10034RB CI	1"x¾"	Reducer Bshg.
11434RB CI	1¼"x¾"	Reducer Bshg.
114100RB CI	1¼"x1"	Reducer Bshg.
11234RB CI	1½"x¾"	Reducer Bshg.
112100RB CI	1½"x1"	Reducer Bshg.
112114RB CI	1½"X1¼"	Reducer Bshg.
200114RB CI	2"x1¼"	Reducer Bshg.
200112RB CI	2"x1½"	Reducer Bshg.
212200RB CI	2½"x2"	Reducer Bshg.
300200RB CI	3"x2"	Reducer Bshg.
400300RB CI	4"x3"	Reducer Bshg.

SCH 80 REDUCER BUSHING

PART NO.	DESCRIPTION		LIST
1418RB XHI	¼"x⅛"	Reducer Bshg.	$ 2.89
3818RB XHI	⅜"x⅛"	Reducer Bshg.	$ 3.08
3814RB XHI	⅜"x¼"	Reducer Bshg.	$ 3.08
1218RB XHI	½"x⅛"	Reducer Bshg.	$ 4.72
1214RB XHI	½"x¼"	Reducer Bshg.	$ 4.72
1238RB XHI	½"x⅜"	Reducer Bshg.	$ 4.72
3418RB XHI	¾"x⅛"	Reducer Bshg.	$ 4.47
3414RB XHI	¾"x¼"	Reducer Bshg.	$ 4.10
3438RB XHI	¾"x⅜"	Reducer Bshg.	$ 3.90
3412RB XHI	¾"x½"	Reducer Bshg.	$ 4.10
10014RB XHI	1"x¼"	Reducer Bshg.	$ 8.25
10038RB XHI	1"x⅜"	Reducer Bshg.	$ 8.25
10012RB XHI	1"x½"	Reducer Bshg.	$ 8.25
10034RB XHI	1"x¾"	Reducer Bshg.	$ 8.25
11434RB XHI	1¼"x¾"	Reducer Bshg.	$ 10.55
114100RB XHI	1¼"x1"	Reducer Bshg.	$ 10.30
11234RB XHI	1½"x¾"	Reducer Bshg.	$ 14.92
112100RB XHI	1½"x1"	Reducer Bshg.	$ 12.05
112114RB XHI	1½"x1¼"	Reducer Bshg.	$ 12.05
200114RB XHI	2"x1¼"	Reducer Bshg.	$ 20.65
200112RB XHI	2"x1½"	Reducer Bshg.	$ 20.65

STAINLESS STEEL REDUCER BUSHING

PART NO.	DESCRIPTION		LIST
1418RB SS	¼"x⅛"	Reducer Bshg.	$ 2.70
3818RB SS	⅜"x⅛"	Reducer Bshg.	$ 2.45
3814RB SS	⅜"x¼"	Reducer Bshg.	$ 2.90
1218RB SS	½"x⅛"	Reducer Bshg.	$ 3.75
1214RB SS	½"x¼"	Reducer Bshg.	$ 3.75
1238RB SS	½"x⅜"	Reducer Bshg.	$ 3.75
3418RB SS	¾"x⅛"	Reducer Bshg.	$ 3.86
3414RB SS	¾"x¼"	Reducer Bshg.	$ 6.85
3438RB SS	¾"x⅜"	Reducer Bshg.	$ 6.85
3412RB SS	¾"x½"	Reducer Bshg.	$ 5.45
10014RB SS	1"x¼"	Reducer Bshg.	$ 7.65
10038RB SS	1"x⅜"	Reducer Bshg.	$ 7.65
10012RB SS	1"x½"	Reducer Bshg.	$ 7.65
10034RB SS	1"x¾"	Reducer Bshg.	$ 7.65
11434RB SS	1¼"x¾"	Reducer Bshg.	$ 13.50
114100RB SS	1¼"x1"	Reducer Bshg.	$ 13.50
11234RB SS	1½"x¾"	Reducer Bshg.	$ 16.15
112100RB SS	1½"x1"	Reducer Bshg.	$ 16.15
112114RB SS	1½"x1¼"	Reducer Bshg.	$ 16.15
200114RB SS	2"x1¼"	Reducer Bshg.	$ 24.75
200112RB SS	2"x1½"	Reducer Bshg.	$ 24.75
212200RB SS	2½"x2"	Reducer Bshg.	$ 39.25
300200RB SS	3"x2"	Reducer Bshg.	$ 64.70
400300RB SS	4"x3"	Reducer Bshg.	$118.00



CAST IRON REDUCER COUPLING

PART NO.	DESCRIPTION	
1418RC CI	¼"x⅛"	Reducer Cplg.
3814RC CI	⅜"x¼"	Reducer Cplg.
1214RC CI	½"x¼"	Reducer Cplg.
3414RC CI	¾"x¼"	Reducer Cplg.
3438RC CI	¾"x⅜"	Reducer Cplg.
3412RC CI	¾"x½"	Reducer Cplg.
10012RC CI	1"x½"	Reducer Cplg.
10034RC CI	1"x¾"	Reducer Cplg.
11434RC CI	1¼"x¾"	Reducer Cplg.
114100RC CI	1¼"x1"	Reducer Cplg.
112100RC CI	1½"x1"	Reducer Cplg.
200114RC CI	2"x1¼"	Reducer Cplg.
200112RC CI	2"x1½"	Reducer Cplg.
212112RC CI	2½"x1½"	Reducer Cplg.
212200RC CI	2½"x2"	Reducer Cplg.
300200RC CI	3"x2"	Reducer Cplg.
400300RC CI	4"x3"	Reducer Cplg.

SCH 80 REDUCER COUPLING

PART NO.	DESCRIPTION		LIST
3814RC XHI	⅜"X¼"	Reducer Cplg.	$ 18.40
1214RC XHI	½"X¼"	Reducer Cplg.	$ 9.90
3414RC XHI	¾"x¼"	Reducer Cplg.	$ 14.55
3438RC XHI	¾"x⅜"	Reducer Cplg.	$ 31.76
3412RC XHI	¾"x½"	Reducer Cplg.	$ 23.13
10012RC XHI	1"x½"	Reducer Cplg.	$ 14.95
10034RC XHI	1"x¾"	Reducer Cplg.	$ 24.80
11434RC XHI	1¼"x¾"	Reducer Cplg.	$ 23.24
114100RC XHI	1¼"x1"	Reducer Cplg.	$ 48.00
112100RC XHI	1½"x1"	Reducer Cplg.	$ 26.14

STAINLESS STEEL REDUCER COUPLING

PART NO.	DESCRIPTION		LIST
1418RC SS	¼"x⅛"	Reducer Cplg.	$ 3.45
1214RC SS	½"x¼"	Reducer Cplg.	$ 4.60
3814RC SS	⅜"x¼"	Reducer Cplg	$ 5.45
3414RC SS	¾"x¼"	Reducer Cplg.	$ 8.10
3438RC SS	¾"x⅜"	Reducer Cplg.	$ 5.01
3412RC SS	¾"x½"	Reducer Cplg.	$ 6.85
10012RC SS	1"x½"	Reducer Cplg.	$ 9.50
10034RC SS	1"x¾"	Reducer Cplg.	$ 9.50
11434RC SS	1¼"x¾"	Reducer Cplg.	$ 13.90
114100RC SS	1¼"x1"	Reducer Cplg.	$ 13.85
112100RC SS	1½"x1"	Reducer Cplg.	$ 20.40
200114RC SS	2"x1¼"	Reducer Cplg.	$ 33.10
200112RC SS	2"x1½"	Reducer Cplg.	$ 33.10
212112RC SS	2½"x1½"	Reducer Cplg.	$ 50.72
212200RC SS	2½"x2"	Reducer Cplg.	$ 68.50
300200RC SS	3"x2"	Reducer Cplg.	$101.00
400300RC SS	4"x3"	Reducer Cplg.	$167.00



CAST IRON CROSS

PART NO.	DESCRIPTION	
014CR CI	¼"	Cross
038CR CI	⅜"	Cross
012CR CI	½"	Cross
034CR CI	¾"	Cross
100CR CI	1"	Cross

SCH 80 CROSS

PART NO.	DESCRIPTION		LIST
038CR XHI	¾"	Cross	$ 23.48
034CR XHI	¾"	Cross	$ 89.72
100CR XHI	1"	Cross	$112.00
114CR XHI	1¼"	Cross	$ 86.03

STAINLESS STEEL CROSS

PART NO.	DESCRIPTION		LIST
014CR SS	¼"	Cross	$ 9.60
038CR SS	⅜"	Cross	$ 12.05
012CR SS	½"	Cross	$ 16.40
034CR SS	¾"	Cross	$ 24.10
100CR SS	1"	Cross	$ 35.70
114CR SS	1¼"	Cross	$ 42.40
112CR SS	1½"	Cross	$ 52.10
200CR SS	2"	Cross	$ 76.20
300CR SS	3"	Cross	$233.50



CAST IRON COUPLING

PART NO.	DESCRIPTION	
014CG CI	¼"	Cplg.
038CG CI	⅜"	Cplg.
012CG CI	½"	Cplg.
034CG CI	¾"	Cplg.
100CG CI	1"	Cplg.
114CG CI	1¼"	Cplg.
112CG CI	1½"	Cplg.
200CG CI	2"	Cplg.
300CG CI	3"	Cplg.
400CG CI	4"	Cplg.

SCHEDULE 80 COUPLING

PART NO.	DESCRIPTION		LIST
014CG XHI	¼"	Cplg.	$ 6.00
038CG XHI	⅜"	Cplg.	$ 6.90
012CG XHI	½"	Cplg.	$ 7.79
034CG XHI	¾"	Cplg.	$ 6.90
100CG XHI	1"	Cplg.	$ 9.70
114CG XHI	1¼"	Cplg.	$ 16.20
112CG XHI	1½"	Cplg.	$ 20.70

STAINLESS STEEL COUPLING

PART NO.	DESCRIPTION		LIST
014CG SS	¼"	Cplg.	$ 2.90
038CG SS	⅜"	Cplg.	$ 3.35
012CG SS	½"	Cplg.	$ 4.75
034CG SS	¾"	Cplg.	$ 6.85
100CG SS	1"	Cplg.	$ 10.45
114CG SS	1¼"	Cplg.	$ 16.55
112CG SS	1½"	Cplg.	$ 19.70
200CG SS	2"	Cplg.	$ 27.70
300CG SS	3"	Cplg.	$ 78.70

PIPE FITTINGS

CAST IRON 90° ELBOW



PART NO.	DESCRIPTION
014EL CI	¼" 90° Elbow
038EL CI	⅜" 90° Elbow
012EL CI	½" 90° Elbow
034EL CI	¾" 90° Elbow
100EL CI	1" 90° Elbow
114EL CI	1¼" 90° Elbow
112EL CI	1½" 90° Elbow
200EL CI	2" 90° Elbow
300EL CI	3" 90° Elbow

SCHEDULE 80 90° ELBOW

PART NO.	DESCRIPTION	LIST
014EL XHI	¼" 90° Elbow	$ 9.20
038EL XHI	⅜" 90° Elbow	$ 7.97
012EL XHI	½" 90° Elbow	$ 9.10
034EL XHI	¾" 90° Elbow	$ 27.00
100EL XHI	1" 90° Elbow	$ 34.80
114EL XHI	1¼" 90° Elbow	$ 51.10
112EL XHI	1½" 90° Elbow	$ 64.00
200EL XHI	2" 90° Elbow	$ 64.12

STAINLESS STEEL 90° ELBOW

PART NO.	DESCRIPTION	LIST
014EL SS	¼" 90° Elbow	$ 4.10
038EL SS	⅜" 90° Elbow	$ 5.10
012EL SS	½" 90° Elbow	$ 5.40
034EL SS	¾" 90° Elbow	$ 7.70
100EL SS	1" 90° Elbow	$ 11.10
114EL SS	1¼" 90° Elbow	$ 19.30
112EL SS	1½" 90° Elbow	$ 25.95
200EL SS	2" 90° Elbow	$ 32.80
300EL SS	3" 90° Elbow	$ 95.20
400EL SS	4" 90° Elbow	$ 184.00

CAST IRON PLUG



PART NO.	DESCRIPTION
014PL CI	¼" Plug
038PL CI	⅜" Plug
012PL CI	½" Plug
034PL CI	¾" Plug
100PL CI	1" Plug
114PL CI	1¼" Plug
112PL CI	1½" Plug
200PL CI	2" Plug
300PL CI	3" Plug
400PL CI	4" Plug

SCHEDULE 80 PLUG

PART NO.	DESCRIPTION	LIST
014PL XHI	¼" Plug	$ 1.50
038PL XHI	⅜" Plug	$ 2.90
012PL XHI	½" Plug	$ 2.40
034PL XHI	¾" Plug	$ 3.65
100PL XHI	1" Plug	$ 5.95
114PL XHI	1¼" Plug	$ 10.65
112PL XHI	1½" Plug	$ 11.40
200PL XHI	2" Plug	$ 19.14

STAINLESS STEEL PLUG

PART NO.	DESCRIPTION	LIST
014PL SS	¼" Plug	$ 2.10
038PL SS	⅜" Plug	$ 2.85
012PL SS	½" Plug	$ 4.10
034PL SS	¾" Plug	$ 4.95
100PL SS	1" Plug	$ 8.25
114PL SS	1¼" Plug	$ 12.35
112PL SS	1½" Plug	$ 14.60
200PL SS	2" Plug	$ 17.45
300PL SS	3" Plug	$ 41.70
400PL SS	4" Plug	$ 90.50

CAST IRON CAP



PART NO.	DESCRIPTION
014CP CI	¼" Cap
038CP CI	⅜" Cap
012CP CI	½" Cap
034CP CI	¾" Cap
100CP CI	1" Cap
114CP CI	1¼" Cap
112CP CI	1½" Cap
200CP CI	2" Cap
300CP CI	3" Cap

SCHEDULE 80 CAP

PART NO.	DESCRIPTION	LIST
014CP XHI	¼" Cap	$ 6.43
038CP XHI	⅜" Cap	$ 7.37
012CP XHI	½" Cap	$ 8.64
100CP XHI	1" Cap	$ 31.85
114CP XHI	1¼" Cap	$ 17.80
200CP XHI	2" Cap	$ 34.80

STAINLESS STEEL CAP

PART NO.	DESCRIPTION	LIST
014CP SS	¼" Cap	$ 3.40
038CP SS	⅜" Cap	$ 3.50
012CP SS	½" Cap	$ 3.70
034CP SS	¾" Cap	$ 4.60
100CP SS	1" Cap	$ 6.90
114CP SS	1¼" Cap	$ 12.54
112CP SS	1½" Cap	$ 16.20
200CP SS	2" Cap	$ 20.95
300CP SS	3" Cap	$ 52.20

CAST IRON TEE



PART NO.	DESCRIPTION
014TT CI	¼" Tee
038TT CI	⅜" Tee
012TT CI	½" Tee
034TT CI	¾" Tee
100TT CI	1" Tee
114TT CI	1¼" Tee
112TT CI	1½" Tee
200TT CI	2" Tee
300TT CI	3" Tee

SCHEDULE 80 TEE

PART NO.	DESCRIPTION	LIST
014TT XHI	¼" Tee	$ 22.30
038TT XHI	⅜" Tee	$ 11.48
012TT XHI	½" Tee	$ 23.10
034TT XHI	¾" Tee	$ 23.00
100TT XHI	1" Tee	$ 46.10
114TT XHI	1¼" Tee	$ 65.95
112TT XHI	1½" Tee	$ 79.60
200TT XHI	2" Tee	$ 96.00

STAINLESS STEEL TEE

PART NO.	DESCRIPTION	LIST
014TT SS	¼" Tee	$ 5.55
038TT SS	⅜" Tee	$ 7.00
012TT SS	½" Tee	$ 7.45
034TT SS	¾" Tee	$ 11.70
100TT SS	1" Tee	$ 15.20
114TT SS	1¼" Tee	$ 29.75
112TT SS	1½" Tee	$ 37.00
200TT SS	2" Tee	$ 48.15
300TT SS	3" Tee	$ 156.56
400TT SS	4" Tee	$ 267.00

SCH 80 UNION



PART NO.	DESCRIPTION	LIST
100UN XHI	1" Union	$ 40.70
114UN XHI	1¼" Union	$ 64.55
112UN XHI	1½" Union	$ 76.90

STAINLESS STEEL 45° ELBOW



PART NO.	DESCRIPTION	LIST
100EL45SS	1" Elbow	$ 12.00
114EL45SS	1¼" Elbow	$ 19.00
112EL45SS	1½" Elbow	$ 22.80
200EL45SS	2" Elbow	$ 32.10
300EL45SS	3" Elbow	$127.00

"AMMONIA" GAUGES



Series ASG



Series ASG-4"

SERIES ASG AMMONIA GAUGE

MODEL NO.	PRESSURE RANGE	CASE SIZE
ASG-60	0-60 PSI	2½"
ASG-160	0-160 PSI	2½"
ASG-400	0-400 PSI	2½"
ASG-60-4	0-60 PSI	4"
ASG-160-4	0-160 PSI	4"
ASG-400-4	0-400 PSI	4"

WARNING: **Damage or injury may be caused by improper use or installation. Consult factory for product specifications and use.**

PART NO.	DESCRIPTION	LIST
ASG 60 to ASG 400	2½" Ammonia Gauge	$ 27.82
ASG 60 4 to ASG 400 4	4" Ammonia Gauge	$ 54.00



Series WGGSS

ALL STAINLESS LIQUID FILLED GAUGES

GAUGE CONSTRUCTION

316 stainless steel case, 316 stainless steel tube, stainless steel movement, white enameled aluminum dial face, aluminum pointer, acrylic window, liquid filled.

MODEL NO.	PRESSURE RANGE	CASE SIZE	LIST
WGG-SS-60	0-60 PSI	2½"	$ 71.00
WGG-SS-100	0-100 PSI	2½"	$ 71.00
WGG-SS-160	0-160 PSI	2½"	$ 71.00
WGG-SS-400	0-400 PSI	2½"	$ 71.00
WGG-SS-1604	0-160 PSI	4"	$ 110.00
WGG-SS-4004	0-400 PSI	4"	$ 110.00

GAUGE ISOLATOR

Designed to protect pressure gauges from corrosive chemicals. Available with ¼" female NPT connections. Materials exposed to fluid system are Viton and Acetal. Gauge side of dampener requires Glycerin or ATF fill. Overall diameter: $1\frac{7}{16}$".
Overall height 1¾". Mounts through a $\frac{13}{16}$" diameter hole in up to 14 gauge material.



PART NO. **22470A 1/4** LIST **$ 138.63**

DRY (STANDARD) GAUGES



Series SG



Series SG - 4"

SERIES SG: Black enameled steel case, bronze tube, brass stem and internals, coated aluminum dial face, black enameled steel pointer, acrylic window, restrictor.

MODEL NO.	PRESSURE RANGE	CASE SIZE	LIST
SG 30	0-30 PSI	2½"	**$ 16.00**
SG 60	0-60 PSI	2½"	**$ 16.00**
SG 100	0-100 PSI	2½"	**$ 16.00**
SG 160	0-160 PSI	2½"	**$ 16.00**
SG 200	0-200 PSI	2½"	**$ 16.00**
SG 300	0-300 PSI	2½"	**$ 16.00**
SG 600	0-600 PSI	2½"	**$ 16.00**
SG 1000	0-1000 PSI	2½"	**$ 16.00**
SG 2000	0-2000 PSI	2½"	**$ 16.00**
SG 3000	0-3000 PSI	2½"	**$ 16.00**
SG 5000	0-5000 PSI	2½"	**$ 16.00**
SG 60 4	0-60 PSI	4"	**$ 40.15**
SG 100 4	0-100 PSI	4"	**$ 40.15**

AF2.5FACE ... Replacement Lens ... $ 3.94

LIQUID FILLED GAUGES

A RELIABLE GAUGE IS AN IMPORTANT PART OF YOUR EQUIPMENT. Our quality glycerin filled gauges assure accurate steady response to pressure changes. Gauges filled with glycerin provide effective damping of most pulsation and vibration and provide lubrication of all moving parts: these gauges require no damping device.



Series GG

SERIES GG: 304 stainless steel case, bronze tube, brass stem and internals,white enameled aluminum dial face, black enameled aluminum pointer, acrylic window, liquid filled, built-in restrictor.

MODEL NO.	PRESSURE RANGE	CASE SIZE	LIST
GG 30	0-30 PSI	2½"	**$ 26.89**
GG 60	0-60 PSI	2½"	**$ 26.89**
GG 100	0-100 PSI	2½"	**$ 26.89**
GG 160	0-160 PSI	2½"	**$ 26.89**
GG 200	0-200 PSI	2½"	**$ 26.89**
GG 300	0-300 PSI	2½"	**$ 26.89**
GG 400	0-400 PSI	2½"	**$ 26.89**
GG 600	0-600 PSI	2½"	**$ 26.89**
GG 1000	0-1000 PSI	2½"	**$ 26.89**
GG 2000	0-2000 PSI	2½"	**$ 26.89**
GG 3000	0-3000 PSI	2½"	**$ 26.89**
GG 5000	0-5000 PSI	2½"	**$ 26.89**
GG 60 4	0-60 PSI	4"	**$ 56.10**
GG 100 4	0-100 PSI	4"	**$ 56.10**

NH_3 HOSE, HYDRAULIC HOSE, BELTING

EVA APPLICATOR HOSE

This hose is weather resistant and has a chemical resistance to most chemicals. Most commonly used in application of liquid fertilizer and discharge of anhydrous ammonia. **DO NOT** use this tubing for anhydrous ammonia under pressure.

PART NO.	SIZE	FT. PER REEL	PSI AT 100°F	PSI AT 74°F	LIST
V1180 3/8	⅜"	500	50	120	$ 1.03
V1180 1/2	½"	500	50	120	$ 1.30
V1180 5/8	⅝"	250	45	100	$ 1.58
V1180 3/4	¾"	250	45	100	$ 2.12
V1180 1	1"	250	35	80	$ 2.20

BRAIDED EVA

Reinforced EVA has a higher working pressure and is more kink resistant than non-reinforced EVA. **DO NOT** use this tubing for anhydrous ammonia under pressure.

PART NO.	SIZE	FT. PER REEL	PSI AT 74°F	LIST
V3020 3/4	¾"	200	150	$ 4.55
V3020 1	1"	200	150	$ 7.09

HYDRAULIC HOSE



Parker FluidConnectors

Agro-Chem custom made Hydraulic/ Hi Pressure Hose Assemblies. We use XP2 Single Braid Hi Tensile Reinforced Synthetic Rubber Abrasion Resistant Hose.

Pioneer XP2 - 6 **⅜" Hose**
Pioneer XP2 - 8 **½" Hose**

For Complete Couplings add $2.00 per Coupling or $1.00 per End. Agro-Chem may repair hoses; however, we reserve the right to reject any hose deemed unsafe for use.

N-SERVE HOSE

Part No. ...**414081/2x20**

½" Hose w/ ½" Male Pipe Threads, 20' Long

NET ... $ 195.00



NYLON REINFORCED ANHYDROUS AMMONIA HOSE

***** 6 YEAR WARRANTY *****

PART NO.	DESCRIPTION	NET
N 3000 1 BULK	Anhydrous Ammonia Hose	$ 11.60
N 3000 1 1/4 BULK	Anhydrous Ammonia Hose	$ 20.50
N 3000 1 3 CPLD	1" x 3'	$ 74.00
N 3000 1 12 CPLD	1" x 12'	$ 173.00
N 3000 1 15 CPLD	1" x 15'	$ 207.00
N 3000 1 1/4 3 CPLD	1¼" x 3'	$ 140.00
N 3000 1 1/4 6 CPLD	1¼" x 6'	$ 192.00
N 3000 1 1/4 8 CPLD	1¼" x 8'	$ 227.00
N 3000 1 1/4 10 CPLD	1¼" x 10'	$ 263.00
N 3000 1 1/4 12 CPLD	1¼" x 12'	$ 295.00
N 3000 1 1/4 15 CPLD	1¼" x 15'	$ 348.00

CONVEYOR Z TOP BELTING



Lacer Hooks & Pins

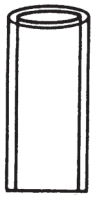
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SUCTION & DISCHARGE HOSE

PVC SIGHT GAUGE TUBING

A clear, flexible tubing that handles most chemicals used on farm equipment. Noncontaminating PVC with smooth bore prevents interior buildup, provides easy cleaning. Temperature range -40° F to 180° F. Also good for low pressure air and water service.

V-3500



PART NO.	ID	OD	LIST
V3500 1/4	¼"	⅛"	$ 1.40
V3500 3/8	⅜"	⅛"	$ 1.10
V3500 1/2	½"	⅛"	$ 1.60
V3500 5/8	⅝"	⅛"	$ 1.90
V3500 3/4	¾"	⅛"	$ 2.15
V3500 1	1"	⅛"	$ 2.80
V3500 1 1/4	1¼"	⅛"	$ 7.40
V3500 1 1/2	1½"	¼"	$ 11.40

BRAIDED SIGHT GAUGE HOSE

PART NO.	SIZE	PSI	REEL	LIST
V3010 3/8	⅜"	275	300'	$ 1.20
V3010 1/2	½"	275	300'	$ 1.55
V3010 5/8	⅝"	275	200'	$ 2.20
V3010 3/4	¾"	250	200'	$ 2.20
V3010 1	1"	140	200'	$ 3.60



BLACK DISCHARGE SOLUTION HOSE — L-81

For application from 150 to 250 psi of pesticides, insecticides and fertilizers with a water base.

PART NO.	SIZE	BRAID	PSI	REEL	LIST
L81 1/4	¼"	1	150	500'	$ 1.15
L81 3/8	⅜"	1	150	500'	$ 1.41
L81 1/2	½"	1	150	500'	$ 2.10
L81 5/8	⅝"	2	250	500'	$ 2.66
L81 3/4	¾"	2	250	500'	$ 2.90
L81 1	1"	2	250	500'	$ 3.93
L81 1 1/4	1¼"	2	150	350'	$ 8.60
L81 1 1/2	1½"	2	150	350'	$ 9.60
L81 2	2"	2	150	350'	$ 16.40

HIGH PRESSURE SPRAY HOSE - LAWN CARE



This "Poly-Ag" Spray Hose with a HYTREL TUBE is resistant to Xylene, N-Serve and Lasso. It is suitable for many other insecticides and fertilizer. Ideal for lawn spray service. The outside cover is a yellow PVC, reinforced with synthetic braid for 600 psi working pressure at 70° F.

PART NO.	SIZE	PSI	REEL	LIST
V137 3/8	⅜"	600	300'	$ 2.20
V137 1/2	½"	600	300'	$ 2.60



SUCTION HOSE - WIRE BRAID AND COVER

N-645

PART NO.	SIZE	PSI	CLAMP	LIST
N645 1 1/4	1¼ "	150	162	$ 12.50
N645 1 1/2	1½"	150	218	$ 12.50
N645 2	2"	150	231	$ 14.10
N645 3	3"	100	331	$ 20.50
N645 4	4"	100	438	$ 28.15



Perfect replacement for EPDM hose (black hose) when dealing with cross contamination of chemicals. Each hose is used for suction and discharge A4086 has a nylon braid while the N2546 contains a wire braid.

PART NO.	SIZE	PSI	LIST
A4086 3/4	¾"	800	$ 16.45
A4086 1	1"	400	$ 18.50
N2546 1	1"	250	$ 27.45
N2546 1 1/4	1¼"	250	$ 37.15
N2546 1 1/2	1½"	250	$ 30.10
N2546 2	2"	250	$ 33.25
N2546 3	3"	200	$ 58.25



390 SD

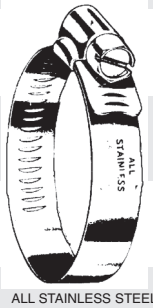
Formulated for suction and discharge of agricultural chemicals, liquid fertilizers and dewatering. EPDM rubber, polyethylene helix, synthetic braiding, smooth bore, corrugated O.D. Lightweight.

PART NO.	SIZE	PSI	CLAMP	LIST
390-125	1¼" EPDM Hose	100	162	$ 7.45
390-150	1½" EPDM Hose	100	181	$ 7.70
390-200	2" EPDM Hose	100	218	$ 9.25
390-300	3" EPDM Hose	100	331	$ 16.10
390-400	4" EPDM Hose	70	456	$ 35.75

SUCTION & DISCHARGE HOSE/ HOSE CLAMPS

STAINLESS STEEL CLAMPS

PART NO.	HOSE SIZE	LIST
4JM	¼"	$ 2.18
5JM	⅜"	$ 2.28
6JM	⅜"	$ 2.34
8JM	½"	$ 2.39
10JM	⅝"	$ 2.52
12JM	¾"	$ 2.54
16JM	1"	$ 2.98
6J	⅜"	$ 2.89
8J	½"	$ 2.96
10J	⅝"	$ 3.05
12J	¾"	$ 3.13
16J	1"	$ 3.23
20J	1¼"	$ 3.41
24J	1½"	$ 3.51
28J	1¾"	$ 3.65
32J	2"	$ 3.90
36J	2¼"	$ 3.90
40J	2½"	$ 4.09
44J	2¾"	$ 4.33
48J	3"	$ 4.53
52J	3¼"	$ 4.83
56J	3½"	$ 4.83
64J	4"	$ 4.93
12JHD (HD Pressure Seal)	¾"	$ 5.50
14JHD (HD Pressure Seal)	¾"	$ 7.88
16JHD (HD Pressure Seal)	1"	$ 8.01
24JHD (HD Pressure Seal)	1½"	$11.98
36JHD (HD Pressure Seal)	2"	$12.76
48JHD (HD Pressure Seal)	3"	$13.52



ALL STAINLESS STEEL

BANJO SUPER T-BOLT CLAMPS
(All Stainless Steel)

PART NO.	HOSE I.D.	O.D. RANGE	LIST
TC 120	1"	1.20" - 1.34"	$ 12.70
TC 130	1¼"	1.30" - 1.70"	$ 13.97
TC 150	1¼"	1.50" - 1.75"	$ 14.13
TC 162	1¼"	1.62" - 1.87"	$ 13.96
TC 181	1¼"	1.81" - 2.06"	$ 12.83
TC 193	1½"	1.93" - 2.18"	$ 14.13
TC 206	1½"	2.06" - 2.40"	$ 14.79
TC 218	2"	2.18" - 2.50"	$ 13.19
TC 224	2"	2.24" - 2.55"	$ 14.79
TC 231	2"	2.31" - 2.62"	$ 13.78
TC 250	2"	2.50" - 2.81"	$ 14.79
TC 287	2"	2.87" - 3.18"	$ 14.79
TC 312	3"	3.12" - 3.49"	$ 15.12
TC 331	3"	3.31" - 3.62"	$ 14.36
TC 343	3"	3.43" - 3.75"	$ 14.36
TC 425	4"	4.25" - 4.56"	$ 17.11
TC 438	4"	4.38" - 4.75"	$ 28.51
TC 456	4"	4.56" - 4.94"	$ 28.51

BANDIT CLAMPS

PART NO.	CLAMP ID	WIDTH	LIST
FS3	13/16"	⅜"	$ 2.70
FS4	1"	⅜"	$ 3.55
FS5	1¼"	½"	$ 3.70
FS6	1½"	⅝"	$ 4.02
FS7	1¾"	⅝"	$ 4.27
FS8	2"	⅝"	$ 4.59
FS10	2½"	⅝"	$ 5.21
FS12	3"	⅝"	$ 5.65
FS14	3½"	⅝"	$ 6.35
FS16	4"	⅝"	$ 7.09
FS18	4½"	⅝"	$ 7.65
FS20	5"	⅝"	$ 8.37

CLEAR PVC REINFORCED MULTI-PURPOSE SUCTION HOSE V-130

A heavy duty suction/discharge agricultural hose

PART NO.	SIZE	PSI	CLAMP	LIST
V 130 1	1"	50		$ 2.50
V 130 1 1/4	1¼"	50	162	$ 2.95
V 130 1 1/2	1½"	50	181	$ 3.40
V 130 2	2"	50	218	$ 5.10
V 130 3	3"	43	331	$ 9.15
V 130 4	4"	38	438	$ 11.67
V 130 6	6"	23		$ 24.77



SUCTION HOSE WITH POLYETHYLENE HELIX REINFORCEMENT D-0300

EPDM tube with smooth ID for fast, efflcient flow rates. A reliable hose for limited chemical service.

PART NO.	SIZE	PSI	CLAMP	LIST
D 0300 1	1"	50		$ 3.65
D 0300 1 1/4	1¼"	50	162	$ 4.00
D 0300 1 1/2	1½"	50	181	$ 4.55
D 0300 2	2"	50	218	$ 6.45
D 0300 3	3"	43	331	$ 11.90
D 0300 4	4"	38	456	$ 29.50
D 0300 6	6"	23		$ 63.10

"FIRE HOSE"

PVC DISCHARGE HOSE-BLUE COVER LAY FLAT

PART NO.	WORKING PRESSURE	LENGTH	LIST
V136 1 1/2"	70	300'	$ 1.54
V136 2"	65	300'	$ 1.65
V136 3"	55	300'	$ 2.90
V136 4"	50	399'	$ 4.20

HOSE CUTTER

505 Large Hose Cutter (1½" and larger) **NET ... $ 29.75**

503 Replacement Blade for Large Hose Cutter **NET ... $ 10.50**



SUPER REEL, OVERRUST, FLUID FILM

SUPER REEL HOSE REELS



PART NO.	DESCRIPTION	LIST
HRE200	2" Electric Hose Reel Holds up to 75' of 2" Hose 2" L x 31" W x 27" H *Includes Stainless Steel Swivel*	$ 2525.77
HRE300	3" Electric Hose Reel Holds up to 75' of 3" Hose 41" L x 31" W x 39" H *Includes Stainless Steel Swivel*	$ 3912.37

SUPER REEL

OVER RUST

OVER RUST is a unique 2-step chemical process that stops rust dead in its tracks! It is the most cost effective way to eliminate rust. There are no primers, paints, or rust treatments that can stop rust action once it has started as effectively, as easily, and as inexpensively as OVER RUST! OVER RUST is applied directly onto rust. Steel surfaces need only be clean of loose rust scales and simply power washed clean of oil and debris. Paint should be sanded back to ensure that OVER RUST comes in contact with the rust.

PART NO.	DESCRIPTION	LIST
2160 0016	1 GALLON JUG	$ 143.00



PROTECT YOUR MOST IMPORTANT PUMPS AND PARTS



PART NO.	DESCRIPTION	LIST
2160 0010	11.75 OZ. AEROSOL	$ 12.00
2160 0011	1 GALLON CAN	$ 46.70
2160 0012	5 GALLON FLUID AR	$ 210.00
2160 0014	5 GALLON FLUID GEL BW	$ 248.00

Use environmentally safe **FLUID FILM®** to stop rust caused by such corrosive agents as fertilizers, pesticide solutions and nature's elements.

ACE CENTRIFUGAL PUMPS

HYDRAULIC DRIVEN PUMPS

PART NO.	DESCRIPTION	LIST
FMC 75 HYD 204	1" X ¾" Poly Pump with 4 GPM Hydraulic Motor **Max. Flow:** 25 GPM **Max Pressure:** 100 PSI	$ 1352.00
FMC HYD 204	1¼" X 1" Cast Iron Pump with 4 GPM Hydraulic Motor **Max. Flow:** 85 GPM **Max. Pressure:** 100 PSI	$ 1656.00
FMC HYD 210	1¼" X 1" Cast Iron Pump with 10 GPM Hydraulic Motor **Max. Flow:** 100 GPM **Max. Pressure:** 120 PSI	$ 1656.00
FMC HYD 310	1¼" X 1" Cast Iron Pump with 25 GPM Hydraulic Motor **Max. Flow:** 100 GPM **Max. Pressure:** 120 PSI	$ 1706.00
FMC 150 HYD 206	1½" X 1¼" Cast Iron Pump with 7 GPM Hydraulic Motor **Max. Flow:** 135 GPM **Max. Pressure:** 120 PSI	$ 1698.00
FMC 150F HYD 206	M220 X M200 Cast Iron Pump with 7 GPM Hydraulic Motor **Max. Flow:** 145 GPM **Max. Pressure:** 120 PSI	$ 1768.00
FMC 200 HYD 210	2" X 1½" Cast Iron Pump with 10 GPM Hydraulic Motor **Max. Flow:** 180 GPM **Max. Pressure:** 80 PSI	$ 1993.00
FMC 200 HYD 304	2" X 1½" Cast Iron Pump with 11 GPM Hydraulic Motor **Max. Flow:** 200 GPM **Max. Pressure:** 120 PSI	$ 2012.00
FMC 200F HYD 304	M300 X M220 Cast Iron Pump with 13 GPM Hydraulic Motor **Max. Flow:** 240 GPM **Max. Pressure:** 120 PSI	$ 2174.00
FMC 200 HYD 310	2" X 1½" Cast Iron Pump with 25 GPM Hydraulic Motor **Max. Flow:** 200 GPM **Max. Pressure:** 120 PSI	$ 2133.00


FMC HYD 204


FMC 75 HYD 204


FMC 150F HYD 206


FMC 150 HYD 206


FMC 200 HYD 304


FMC 200F HYD 304


FMC 150F HYD 206 PWM

PWM CONTROLLED HYDRAULIC PUMP

- Same capacity and inlet/outlet size but with an integrated 12 volt PWM proportional valve
- Integrated pressure relief valve prevents over speeding of the motor
- Silicon Carbide seal for longevity

PART NO.	DESCRIPTION	LIST
FMCSC 150F HYD 206 PWM	M220 X M200 PWM Controlled Pump	$ 3199.00
FMCSC 205F HYD 304 PWM	M300 X M220 PWM Controlled Pump	$ 3440.00

HYDRAULIC MOTORS FOR PUMPS

PART NO.	DESCRIPTION	LIST
BAC 75 HYD 204	4 GPM Hydraulic Motor	$ 803.00
BAC 75 HYD 206	7 GPM Hydraulic Motor	$ 803.00
BAC 75 HYD 210	10 GPM Hydraulic Motor	$ 849.00
BAC 75 HYD 310	25 GPM Hydraulic Motor	$ 1265.00
RKBAC 75 HYD L	Repair Kit for 200 Series Motors	$ 80.50
RKBAC 75 HYD 300L	Repair Kit for 300 Series Motors	$ 139.50

FLOW LIMITERS

PART NO.	DESCRIPTION	LIST
LS204N	Flow Limiter for 204 Motors	$115.00
LS206N	Flow Limiter for 206 Motors	$115.00
LS210N	Flow Limiter for 210 Motors	$115.00
LS304N	Flow Limiter for 304 Motors	$115.00

1 1/2" X 1 1/4" PTO BELT DRIVE PUMP

PART NO.	DESCRIPTION	LIST
PTOC 150 600 6SP	Mount to 6 Spline 1⅜" 540 PTO Shaft	$ 2203.00
PTOC 150 600 6SPQC	Quick Coupler to 6 Spline 1⅜" 540 PTO Shaft	$ 2224.00
PTOC 150 600 B	1" Stub Shaft for 540 RPM Drive Shaft	$ 2224.00
PTOC 150 1000 21SP	Mount to 21 Spline 1⅜" 1000 PTO Shaft	$ 2230.00
PTOC 150 1000 20SP	Mount to 20 Spline 1¾" 1000 PTO Shaft	$ 2290.00
PTOC 150 1000 B	1" Stub Shaft for 1000 RPM Drive Shaft	$ 2224.00




-6SP


-6SPQC


-B


-21SP


-20SP

GAS ENGINE PUMPS

PART NO.	DESCRIPTION	LIST
GE 85 LE	1" X ¾" Poly Pump for ¾" Keyed Engine **Max. Flow:** 24 GPM **Max. Pressure:** 65 PSI	$ 410.00
GE 660 LE	1½" X 1¼" Cast Iron Pump for ¾" Keyed Engine **Max. Flow:** 110 GPM **Max. Pressure:** 120 PSI	$ 858.00
GE 660 HONDA	GE 660 LE w/ 5 HP Honda Motor	$ 2961.00

*-LE Models **DO NOT** Include the Engine*


GE 85


GE 660

Breakdowns for Ace Pumps on Pages 147-153

12 VOLT ELECTRIC PUMPS

FLOJET

PART NO.	DESCRIPTION	LIST
4300 504	Demand, **Inlet/Outlet:** ¾" Hose Barb **Max. Draw:** 13 Amps **Max Pressure:** 45 PSI **Max. Flow:** 4.9 GPM	$ 255.08



Breakdown for FloJet Pumps on Page 164

SHURFLO

PART NO.	DESCRIPTION	LIST
8000-543-250	Bypass, **Inlet/Outlet:** ⅜" Female NPT **Max. Draw:** 5.5 Amps **Max Pressure:** 50 PSI **Max. Flow:** 1.8 GPM	$ 219.24
8000-543-238	Demand, **Inlet/Outlet:** ⅜" Female NPT **Max. Draw:** 8.7 Amps **Max. Pressure:** 100 PSI **Max. Flow:** 1.8 GPM	$ 234.24
2088-514-144	Demand, **Inlet/Outlet:** ½" Male NPT **Max. Draw:** 12 Amps **Max. Pressure:** 45 PSI **Max. Flow:** 4.0 GPM	$ 390.32



Breakdown for Shurflo Pumps on Page 177

JOHN BLUE

PART NO.	DESCRIPTION	LIST
AP0819W	Demand, **Inlet/Outlet:** ½" Male NPT **Max. Draw:** 7 Amps **Max Pressure:** 45 PSI **Max. Flow:** 2.2 GPM	$ 269.10
AP1819W	Demand, **Inlet/Outlet:** ½" Male NPT **Max. Draw:** 13 Amps **Max Pressure:** 45 PSI **Max. Flow:** 4.8 GPM	$ 352.26



Only 12 Volt Pump on the Market to be Totally Protected Against Weather, Dust, and Other Spray!!

REMCO

PART NO.	DESCRIPTION	LIST
3323-1E1-82B	Demand, **Inlet/Outlet:** ⅜" Female NPT **Max. Draw:** 8 Amps **Max Pressure:** 60 PSI **Max. Flow:** 2.2 GPM	$ 100.75
3323-2E1-82B	Bypass, **Inlet/Outlet:** ⅜" Female NPT **Max. Draw:** 8 Amps **Max. Pressure:** 100 PSI **Max. Flow:** 2.2 GPM	$ 119.00
5517-1E1-82B	Demand, **Inlet/Outlet:** Quick Attach **Max. Draw:** 16 Amps **Max. Pressure:** 60 PSI **Max. Flow:** 5.3 GPM	$ 216.00
5517-2E1-63B	Bypass, **Inlet/Outlet:** Quick Attach **Max. Draw:** 16 Amps **Max. Pressure:** 60 PSI **Max. Flow:** 5.3 GPM	$ 237.63
5518-2E1-94A	Bypass, **Inlet/Outlet:** Quick Attach **Max. Draw:** 24 Amps **Max. Pressure:** 60 PSI **Max. Flow:** 7.0 GPM	$ 371.81



JOHN BLUE 12 VOLT CONTROLLER

PART NO.	DESCRIPTION	LIST
AKSC 15-200	15 Amp Control with Wiring Kit, No Gauge	$ 467.00
AKSC 35-200	35 Amp Control with Wiring Kit, No Gauge	$ 537.36
AKSC 35-202	35 Amp Control With Wiring Kit, Digital Gauge	$ 789.09

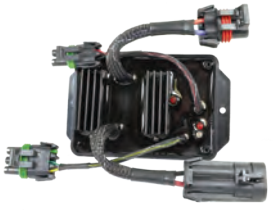


AKSC 35-202

MICRO TRAK MOTOR DRIVER

- Uses PWM signal to regulate speed of 12 volt pump
- Can be used with any controller capable of PWM control
- Replaces the need of electric servo valve
- Works on pumps up to 40 amps

PART NO.	DESCRIPTION	LIST
1758	40 Amp PWM Electric Motor Driver	$ 895.00



HYPRO CENTRIFUGAL PUMPS

HYDRAULIC DRIVEN PUMPS

PART NO.	DESCRIPTION	LIST
9303C HM1C	1½" X 1¼" Cast Iron Pump with 13 GPM Hydraulic Motor **Max. Flow:** 114 GPM **Max. Pressure:** 130 PSI	$ 1925.16
9303C HM2C	1½" X 1¼" Cast Iron Pump with 6 GPM Hydraulic Motor **Max. Flow:** 97 GPM **Max. Pressure:** 95 PSI	$ 1925.16
9303C HM3C	1½" X 1¼" Cast Iron Pump with 24 GPM Hydraulic Motor **Max. Flow:** 125 GPM **Max. Pressure:** 98 PSI	$ 2047.47
9303C HM4C	1½" X 1¼" Cast Iron Pump with 7 GPM Hydraulic Motor **Max. Flow:** 115 GPM **Max. Pressure:** 93 PSI	$ 2008.21
9305C HM3C	2" X 1½" Cast Iron Pump with 19 GPM Hydraulic Motor **Max. Flow:** 182 GPM **Max. Pressure:** 156 PSI	$ 3201.07
9306C HM1C	2" X 1½" Cast Iron Pump with 13 GPM Hydraulic Motor **Max. Flow:** 207 GPM **Max. Pressure:** 127 PSI	$ 2233.21
9306C HM3C	2" X 1½" Cast Iron Pump with 24 GPM Hydraulic Motor **Max. Flow:** 214 GPM **Max. Pressure:** 128 PSI	$ 2355.49
9306C HM5C	2" X 1½" Cast Iron Pump with 17 GPM Hydraulic Motor **Max. Flow:** 212 GPM **Max. Pressure:** 140 PSI	$ 2233.21

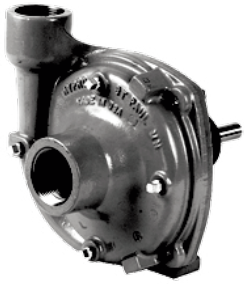


HYDRAULIC MOTORS FOR PUMPS

PART NO.	DESCRIPTION	LIST
2540 0806C	HM1C Hydraulic Motor	$ 1603.52
2500 0083C	HM3C Hydraulic Motor	$ 1715.04
2500 0084C	HM4C Hydraulic Motor	$ 1464.72
2500 0085C	HM5C Hydraulic Motor	$ 1581.90

PEDESTAL MOUNT PUMPS

PART NO.	DESCRIPTION	LIST
9202C	1¼" X 1" Cast Iron Pump with ⅝" Shaft **Max. Flow:** 103 GPM **Max. Pressure:** 170 PSI	$ 852.77
9203C	1½" X 1¼" Cast Iron Pump with ⅝" Shaft **Max. Flow:** 140 GPM **Max. Pressure:** 170 PSI	$ 863.29
9203CR	1½" X 1¼" Cast Iron Pump with ⅝" Shaft **Max. Flow:** 140 GPM **Max. Pressure:** 170 PSI ***Clockwise Rotation**- when looking at shaft end*	$ 884.30
9203C SP	1½" X 1¼" Cast Iron Pump with ⅝" Shaft **Max. Flow:** 120 GPM **Max. Pressure:** 157 PSI ***Self-Priming***	$ 1393.05





Self-Priming

GEAR DRIVEN PUMPS

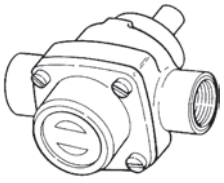
PART NO.	DESCRIPTION	LIST
9006C O	1½" X 1¼" Cast Iron Pump **Max. Flow:** 117 GPM **Max. Pressure:** 78 PSI 1 ⅜" 6 Spline 540 PTO Female Mount	$ 2079.39
9008C O	1½" X 1¼" Cast Iron Pump **Max. Flow:** 110 GPM **Max. Pressure:** 75 PSI 1⅜" 21 Spline 1000 PTO Female Mount	$ 2210.01
9016C O	1½" X 1¼" Cast Iron Pump **Max. Flow:** 117 GPM **Max. Pressure:** 78 PSI 1" Solid Shaft	$ 2053.85
9018C O	1½" X 1¼" Cast Iron Pump **Max. Flow:** 110 GPM **Max. Pressure:** 75 PSI 1" Solid Shaft	$ 2173.96
9028C O	1½" X 1¼" Cast Iron Pump **Max. Flow:** 110 GPM **Max. Pressure:** 75 PSI 1¾" 20 Spline 1000 RPM Female Mount	$ 2564.32



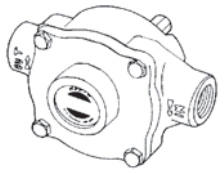
Breakdowns for Hypro Centrifugal Pumps on Pages 166-169

ROLLER PUMPS

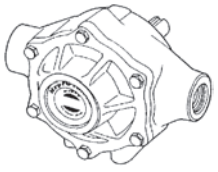
PART NO.	DESCRIPTION	LIST
4101C	Hypro Cast Iron 4 Roller Pump, ¾" Female NPT Ports, ⅝" Shaft **Max. Flow:** 7.2 GPM **Max. Pressure:** 150 PSI	$ 329.62
4101N	Hypro Ni-Resist 4 Roller Pump, ¾" Female NPT Ports, ⅝" Shaft **Max. Flow:** 7.2 GPM **Max. Pressure:** 150 PSI	$ 597.36
1700C	Hypro Cast Iron 5 Roller Pump, 1" Female NPT Ports, 15/16" Shaft **Max. Flow:** 45 GPM **Max. Pressure:** 200 PSI	$ 736.56
1700N	Hypro Ni-Resist 5 Roller Pump, 1" Female NPT Ports, 15/16" Shaft **Max. Flow:** 45 GPM **Max. Pressure:** 200 PSI	$ 1339.22
6500C	Hypro Cast Iron 6 Roller Pump, ¾" Female NPT Ports, ⅝" Shaft **Max. Flow:** 22 GPM **Max. Pressure:** 300 PSI	$ 354.46
7560C	Hypro Cast Iron 8 Roller Pump, ¾" Female NPT Ports, 15/16" Shaft **Max. Flow:** 22.5 GPM **Max. Pressure:** 300 PSI	$ 463.04
7560N	Hypro Ni-Resist 8 Roller Pump, ¾" Female NPT Ports, 15/16" Shaft **Max. Flow:** 22.5 GPM **Max. Pressure:** 300 PSI	$ 934.26
7700C	Hypro Cast Iron 7 Roller Pump, ¾" Female NPT Ports, 15/16" Shaft **Max. Flow:** 22 GPM **Max. Pressure:** 200 PSI	$ 472.86
7700N	Hypro Cast Iron 7 Roller Pump, ¾" Female NPT Ports, 15/16" Shaft **Max. Flow:** 22 GPM **Max. Pressure:** 200 PSI	$ 807.03
RP-600C	Ace Cast Iron 6 Roller Pump, ¾" Female NPT Ports, ⅝" Shaft **Max. Flow:** 21.8 GPM **Max. Pressure:** 300 PSI	$ 311.00
RP-800C	Ace Cast Iron 8 Roller Pump, ¾" Female NPT Ports, 15/16" Shaft **Max. Flow:** 22.5 GPM **Max. Pressure:** 300 PSI	$ 408.00



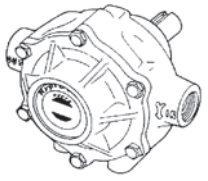
Series 4101 Roller Pump



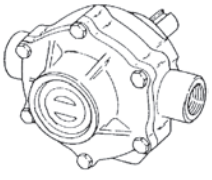
Series 6500 Roller Pump



Series 1700 Roller Pump



Series 7700 Roller Pump



Series 7560 Roller Pump

ROLLER PUMP PTO ADAPTERS

PART NO.	DESCRIPTION	LIST
1321-0012	1⅜" 540/1000 PTO Quick Coupler for ⅝" Shaft Pumps	$ 90.94
1321-0013	1⅜" 540/1000 PTO Quick Coupler for 15/16" Shaft Pumps	$ 96.91

Breakdown for Hypro Roller Pumps on Pages 176-177

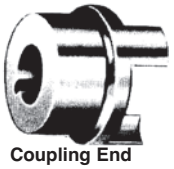
SHAFT COUPLINGS

2 HP LIMIT

PART NO.	DESCRIPTION	LIST
2738-1001	½" Bore, ⅛" Key Coupler	$ 23.41
2738-1002	⅝" Bore, 3/16" Key Coupler	$ 23.41
2738-1003	¾" Bore, 3/16" Key Coupler	$ 23.41
2738-1004	⅞" Bore, 3/16" Key Coupler	$ 23.41
2728-1001	Center Disc for 2738 Couplers	$ 21.42

7 1/2 HP LIMIT

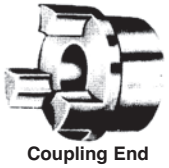
PART NO.	DESCRIPTION	LIST
L 099 075	¾" Bore, 3/16" Key Coupler	$ 44.50
L 099 100	1" Bore, ¼" Key Coupler	$ 44.50
L 099 1.125	1⅛" Bore, ¼" Key Coupler	$ 44.50
L 099 1.250	1¼" Bore, ¼" Key Coupler	$ 44.50
L 099 CD	Center Disc for L 099	$ 37.00



Coupling End



Center Disc



Coupling End

5 HP LIMIT

PART NO.	DESCRIPTION	LIST
2739-1001	⅝" Bore, 3/16" Key Coupler	$ 48.35
2739-1002	¾" Bore, 3/16" Key Coupler	$ 48.35
2739-1003	⅞" Bore, 3/16" Key Coupler	$ 48.35
2739-1004	15/16" Bore, ¼" Key Coupler	$ 48.35
2739-1005	1" Bore, ¼" Key Coupler	$ 48.35
2739-1006	1⅛" Bore, ¼" Key Coupler	$ 48.35
2729-1001	Center Disc for 2739 Couplers	$ 27.48

11 HP LIMIT

PART NO.	DESCRIPTION	LIST
L 100 075	¾" Bore, 3/16" Key Coupler	$ 66.00
L 100 100	1" Bore, ¼" Key Coupler	$ 66.00
L 100 1.125	1⅛" Bore, ¼" Key Coupler	$ 66.00
L 100 1.250	1¼" Bore, ¼" Key Coupler	$ 66.00
L 099 CD	Center Disc for L 100	$ 37.00

BANJO TRANSFER PUMPS



BRIGGS & STRATTON ENGINE



GAS ENGINE POLY PUMPS

PART NO.	DESCRIPTION	INLET & OUTLET
200P 6PRO	Complete Pump & Briggs Engine	2" X 2"
200PH5	Complete Pump & Honda Engine	2" X 2"
300PH6	Complete Pump & Honda Engine	3" x 3"

POLY PEDESTAL PUMPS

PART NO.	DESCRIPTION
200PB	2" Pump/Bearing Pedestal ¾" Shaft
200PO	2" Pump Only
300PB	3" Pump/Bearing Pedestal ¾" Shaft
300PO	3" Pump Only
12882A	¾" Bearing Pedestal

CAST IRON ELECTRIC PUMPS

- Cast iron construction for rugged dependable service.
- Stainless steel shaft sleeve to protect engine shaft.
- Carbon ceramic seal with stainless steel cup and spring with FKM (viton type) rubber.
- Replaceable inlet and outlet flanges.
- Dynamically balanced impeller.



2" CI CLOSE COUPLED ELECTRIC DRIVEN PUMPS

PART NO.	DESCRIPTION	SIZE	HP
234PIE5	2" CI Pump, 5 HP, 3450 RPM Motor, 3 Phase	2" x 2"	5
234PIE51	2" CI Pump, 5 HP, 3450 RPM Motor, Single Phase	2" x 2"	5

PERFORMANCE CHART @ 3450 RPM - 2" PUMPS									
Head (FT)	0	11	23	34	46	57	69	80	92
Pressure (PSI)	0	5	10	15	20	25	30	35	40
Flow (GPM)	170	150	130	105	85	60	35	10	0

Breakdown for Banjo Pumps on Pages 156-159

BANJO TRANSFER PUMPS



GAS ENGINE DRIVEN CAST IRON PUMPS

PART NO.	DESCRIPTION
200PI 6PRO	Banjo 2" x 2" Cast Iron Pump x 6.5HP Briggs
200PI H 5	Banjo 2" x 2" Cast Iron Pump x 5HP Honda
300PI H 11	Banjo 3" x 3" Cast Iron Pump x 11HP Honda Electric Start

DIRECT MOUNTED PUMPS

PART NO.	DESCRIPTION
200 POI	2" X 2" Cast Pump Only
300 POI	3" X 3" Cast Pump Only





PEDESTAL MOUNTED PUMPS

PART NO.	DESCRIPTION
200PBI	2" X 2" Cast Iron Pump w/ Pedestal
300PBI	3" X 3" Cast Iron Pump w/ Pedestal

2" AND 3" BANJO WET SEAL CAST IRON PUMPS

PART NO.	DESCRIPTION
201PIH5W	2" Cast Iron Wet Seal Pump w/ 5.5 HP Honda Engine
201PBIW	2" Cast Iron Wet Seal Pump w/ Bearing Pedestal
201POIW	2" Cast Iron Wet Seal Pump Only
301PIH13W	3" Cast Iron Wet Seal Pump w/ 13 HP Honda w/ Electric Start
301PBIW	3" Cast Iron Wet Seal Pump w/ Bearing Pedestal
301POIW	3" Cast Iron Wet Seal Pump Only





HYDRAULIC DRIVEN PUMPS

AVAILABLE IN 2" & 3" **Pumps complete with Hydraulic Motor**

PART NO.	DESCRIPTION
200PHY	Banjo Poly 2" Hydraulic Pump
300PHY	Banjo Poly 3" Hydraulic Pump
200 PI HY	Banjo 2" Hydraulic Driven Cast Iron Pump
300 PI HY	Banjo 3" Hydraulic Driven Cast Iron Pump
HY1012	Tyrone Motor for 3" Banjo Pumps
HY1013	Hydraulic Motor for 2" Banjo Pumps
HSV1000	Hydraulic Motor Spool Valve

Breakdown for Banjo Pumps on Pages 156-159

SCOT PUMPS

GAS ENGINE DRIVEN CAST IRON PUMPS

PART NO.	DESCRIPTION	LIST
FG 413 V5	1¼" X 1" Cast Iron Pump w/ 5 HP Briggs Engine **Max. Flow:** 25 GPM	$ 2254.98
FG 460 V5	1½" X 1¼" Cast Iron Pump w/ 5 HP Briggs Engine **Max. Flow:** 50 GPM	$ 2062.75
FG 460 V5H	1½" X 1¼" Cast Iron Pump w/ 5 HP Honda Engine **Max. Flow:** 50 GPM	$ 2732.03
FG 420 V8	1½" X 1¼" Cast Iron Pump w/ 8 HP Briggs Engine **Max. Flow:** 75 GPM	$ 4125.54
FG 421 V8	2" X 2" Cast Iron Pump w/ 8 HP Briggs Engine **Max. Flow:** 150 GPM	$ 4258.68
FKG 74A V5	2" X 2" Cast Iron Pump w/ 5 HP Briggs Engine **Max. Flow:** 125 GPM	$ 2210.00
FKG 74A V5H	2" X 2" Cast Iron Pump w/ 5 HP Honda Engine **Max. Flow:** 125 GPM	$ 3035.00
FG 413 LE	Pump Less Engine	$ 1100.93
FG 460 LE	Pump Less Engine	$ 904.10
FG 421 LE	Pump Less Engine	$ 1338.44
FKG 74A LE	Pump Less Engine	$ 975.00



FKG 74A

ELECTRIC TRANSFER PUMPS

PART NO.	DESCRIPTION	LIST
LFE 213 3/4HP 1PH	1¼" X 1" Cast Iron Pump w/ ¾ HP 1 Phase Electric Motor **Max. Flow:** 40 GPM	$ 1810.00
LFE 213 1HP 1PH	1¼" X 1" Cast Iron Pump w/ 1 HP 1 Phase Electric Motor **Max. Flow:** 50 GPM	$ 1719.00
LFE 213 1HP 3PH	1¼" X 1" Cast Iron Pump w/ 1 HP 3 Phase Electric Motor **Max. Flow:** 50 GPM	$ 1782.00
LFE 213 11/2HP 1PH	1¼" X 1" Cast Iron Pump w/ 1½ HP 1 Phase Electric Motor **Max. Flow:** 55 GPM	$ 1845.00
LFE 213 11/2HP 3PH	1¼" X 1" Cast Iron Pump w/ 1½ HP 3 Phase Electric Motor **Max. Flow:** 55 GPM	$ 1859.00
LFE 213 2HP 1PH	1¼" X 1" Cast Iron Pump w/ 2 HP 1 Phase Electric Motor **Max. Flow:** 60 GPM	$ 1842.44
LFE 213 2HP 3PH	1¼" X 1" Cast Iron Pump w/ 2 HP 3 Phase Electric Motor **Max. Flow:** 60 GPM	$ 1818.08
LFE 251 2HP 1PH	1½" X 1½" Cast Iron Pump w/ 2 HP 1 Phase Electric Motor **Max. Flow:** 110 GPM	$ 1974.00
LFE 251 2HP 3PH	1½" X 1½" Cast Iron Pump w/ 2 HP 3 Phase Electric Motor **Max. Flow:** 110 GPM	$ 1997.00
LFE 251 3HP 3PH	1½" X 1½" Cast Iron Pump w/ 3 HP 3 Phase Electric Motor **Max. Flow:** 130 GPM	$ 2055.00
LFE 215 10HP 3PH	3" X 3" Cast Iron Pump w/ 3 HP 3 Phase Electric Motor **Max. Flow:** 370 GPM	$ 4805.02



LFE 213



LFE 215

Breakdown for Scot Pumps on Pages 195-196

BRIGGS & STRATTON - Replacement Engines

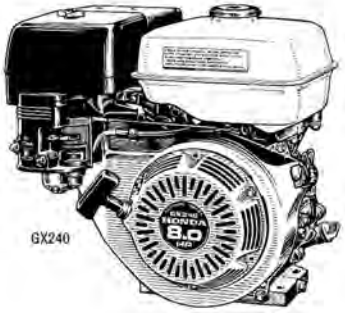
Universal Horizontal Shaft - Aluminum Alloy



INTEK Replacement Pump Engines

HP	MODEL	TYPE	START	SHAFT
5.5	110432	0035-E1	ROPE	⅝" THREAD
5.5	110432	0036-E1	ROPE	¾" KEYED

HONDA - Replacement Power You Can Trust



PART NO.	HP	SHAFT SIZE	SHAFT	WT
GX120K1QA	4	¾"	KEYED	30
GX160K1QA	5.5	¾"	KEYED	33
GX240K1QA	8	1"	KEYED	50
GX340K1QA	11	1"	KEYED	73
GX160K1TX	5.5	⅝"	THREADED	33
GX240K1PA	8	1"	THREADED	50
ELECTRIC START				
GX160K1QXE	5.5	¾"	KEYED SHAFT ELECTRIC START	
GX240K1QAE	8	1"	KEYED SHAFT ELECTRIC START	
GX340K1QAE	11	1"	KEYED SHAFT ELECTRIC START	



TCS METERS

Inlet/Outlet: 1½" Flow: .5-50 GPM

682-15AF2AT Meter and Register

JOHN BLUE WET SEAL TRANSFER PUMPS

JOHN BLUE GAS ENGINE DRIVEN PUMPS

PART NO.	DESCRIPTION	LIST
PSP3240G5H	2" Poly Transfer Pump w/ 5 HP Honda Motor **Max. Flow:** 200 GPM	$ 1552.55
PSP3340G13H	3" Poly Transfer Pump w/ 10 HP Honda Motor **Max. Flow:** 375 GPM	$ 3325.80
SP3240G5H	2" Cast Iron Transfer Pump w/ 5 HP Honda Motor **Max. Flow:** 200 GPM	$ 2126.90
SP3350GH	3" Cast Iron Transfer Pump w/ 13 HP Honda Motor **Max. Flow:** 400 GPM	$ 4031.70
SP3350G13H-FLG	3" FLANGED Cast Iron Transfer Pump w/ 13 HP Honda Motor **Max. Flow:** 400 GPM	$ 4139.75
PSP3240	2" Poly Transfer Pump Less Motor	$ 525.32
PSP3340	3" Poly Transfer Pump Less Motor	$ 1235.00
SP3240	2" Cast Iron Transfer Pump Less Motor	$ 983.85
SP3350 BS	3" Cast Iron Transfer Pump Less Motor	$ 1902.85
CS155RG-5H	1½"/M220 x 1¼"/M200 Centrifugal Pump w/ 5 HP Honda Motor **Max. Flow:** 142 GPM **Max Press:** 105 PSI	$ 2010.59

Note: John Blue pumps contain a wet seal therefore can be ran dry without hurting the mechanical seal



Cast Iron Centrifugal



Poly Transfer



Cast Iron Transfer

JOHN BLUE ELECTRIC MOTOR DRIVEN PUMPS

PART NO.	DESCRIPTION	LIST
SP3240 E5T1B	2" Cast Iron Pump w/ 5 HP, 1 Phase Electric Motor **Max. Flow:** 200 GPM	$ 3910.74
SP3240 E5T3B	2" Cast Iron Pump w/ 5 HP, 3 Phase Electric Motor **Max. Flow:** 200 GPM	$ 2914.42
SP3340 E10TB1	3" Cast Iron Pump w/ 10 HP, 1 Phase Electric Motor **Max. Flow:** 340 GPM	$ 5867.98
SP3340 E10TB	3" Cast Iron Pump w/ 10 HP, 3 Phase Electric Motor **Max. Flow:** 340 GPM	$ 4238.68
SP3350 E15TB	3" Cast Iron Pump w/ 15 HP, 3 Phase Electric Motor **Max. Flow:** 400 GPM	$ 5000.11
SP3450-E20TB	4"x 3" Cast Iron Pump w/ 20 HP, 3 Phase Electric Motor **Max. Flow:** 560	$ 6172.74

Note: John Blue pumps contain a wet seal therefore can be ran dry without hurting the mechanical seal



Breakdown for John Blue Transfer Pumps on Pages 179-181

JOHN BLUE PISTON PUMPS

Equivalent LM-1250



NGP 4050

- Single Piston- Variable Stroke
- Rated Flow: 10.2 GPM
- Maximum Pressure: 120 PSI
- Maximum Speed: 450 RPM
- Inlet/Outlet: 1" NPT/ M200 Flange

PART NO.	DESCRIPTION	LIST
NGP 4055F	W/O Clutch	$ 2447.26

Equivalent LM-2450



NGP 6050

- Single Piston- Variable Stroke
- Rated Flow: 21.0 GPM
- Maximum Pressure: 120 PSI
- Maximum Speed: 450 RPM
- Inlet/Outlet: 1½" NPT

PART NO.	DESCRIPTION	LIST
NGP 6055	W/O Clutch	$2267.54
NGP 6055S	W/O Clutch Stainless Head	$2952.46

Equivalent LM-4450



NGP 7050

- Single Piston- Variable Stroke
- Rated Flow: 34.2 GPM
- Maximum Pressure: 120 PSI
- Maximum Speed: 450 RPM
- Inlet/Outlet: 1½" NPT

PART NO.	DESCRIPTION	LIST
NGP 7055	W/O Clutch	$ 2704.81
NGP 7055S	W/O Clutch Stainless Head	$ 3540.69



NGP 8050

- Double Piston- Variable Stroke
- Rated Flow: 42.0 GPM
- Maximum Pressure: 120 PSI
- Maximum Speed: 450 RPM
- Inlet/Outlet: 1½" NPT

PART NO.	DESCRIPTION	LIST
NGP 8055	W/O Clutch	$ 3733.44
NGP 8055S	W/O Clutch Stainless Head	$ 5324.34

Equivalent LM-4950



NGP 9055

- Double Piston- Variable Stroke
- Rated Flow: 68.4 GPM
- Maximum Pressure: 120 PSI
- Maximum Speed: 450 RPM
- Inlet/Outlet: 1½" NPT

PART NO.	DESCRIPTION	LIST
NGP 9055	W/O Clutch	$ 4153.26
NGP 9055S	W/O Clutch Stainless Head	$ 5092.45



NGP 5655ARF

- Apply 2 Products at 2 Rates
- Small Cylinder Rated Flow: 10.2 GPM
- Large Cylinder Rated Flow: 21.0 GPM
- Inlet/Outlet Small Cylinder: 1"/ M200
- Inlet/Outlet Large Cylinder: 1½"/ M220
- Max. Ratio 10:1, Min. Ratio: 2:1

PART NO.	DESCRIPTION	LIST
NGP 5655ARF	W/O Clutch	$ 3556.59



NGP 8055AR

- Apply 2 Products at 2 Rates
- Rated Flow: 21 GPM per Side
- Maximum Pressure: 120 PSI
- Max. Ratio 5:1
- Inlet/Outlet: 1½" FPT

PART NO.	DESCRIPTION	LIST
NGP 8055AR	W/O Clutch	$ 3513.74

Breakdown for John Blue Piston Pumps on Pages 182-192

REPAIR KITS

PART NO.	DESCRIPTION	LIST
116134	Repair Kit NGP 4050	$ 218.00
115788	Repair Kit NGP 6050	$ 103.85
115688	Repair Kit NGP 7050	$ 116.10
115789	Repair Kit NGP 8050	$ 293.52
115689	Repair Kit NGP 9050	$ 315.03
116135-AR56	Repair Kit NGP 5655ARF	$ 290.28
115789-AR	Repair Kit NGP 8055AR	$ 173.59
115036	Repair Kit LM-1255	$ 107.53
113717	Repair Kit LM-2450	$ 104.21
111953	Repair Kit LM-4450	$ 116.18
111947	Repair Kit LM-4950	$ 202.14

JOHN BLUE SQUEEZE PUMP & VISAGAGE II



SQUEEZE PUMP MODEL NO.	METERING HOSE SIZE	OUTPUT HOSE SIZE	SUCTION HOSE SIZE	LIST PRICE
L 6 C	½"	½"	1"	$ 997.37
L 8 C	5/16"	⅜"	1"	$1113.88
L 8 LC	½"	½"	1¼"	$1389.91
L 12 C	½"	½"	1¼"	$1606.33

JOHN BLUE SQUEEZE PUMP HOSES & CHECK VALVES



PART NO.	DESCRIPTION	LIST
87250	5/16" Squeeze Pump Hose	$ 9.36
87249	½" Squeeze Pump Hose	$ 8.30
CV1101P14	¼" Airline Check Valve	$ 19.11
CV1101B14	¼" Hose Barb Check Valve	$ 17.27
CV1101B38	⅜" Hose Barb Check Valve	$ 17.75
CV1101B12	½" Hose Barb Check Valve	$ 16.96

JOHN BLUE VISAGAGE

VISUAL FLOW MONITOR SYSTEM



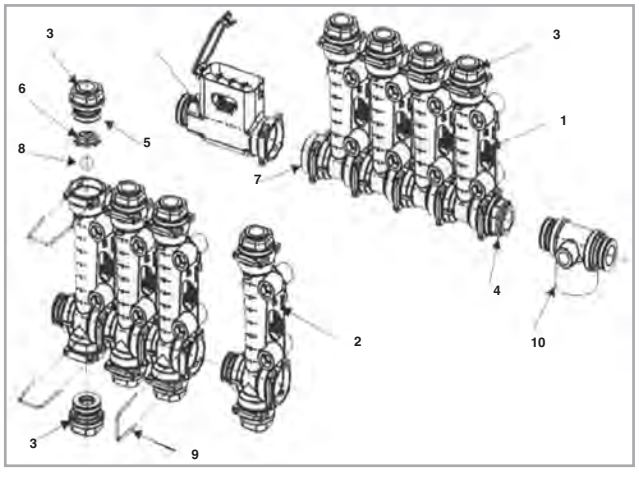
Four Column Assembly- Flow Divider

PART NO.	DESCRIPTION	LIST
SMSS1	Single Column Assembly- Spray Type	$ 32.58
SMSS4	Four Column Assembly- Spray Type	$108.32
SMFD1	Single Column Assembly- Flow Divider	$ 29.27
SMFD4	Four Column Assembly- Flow Divider	$115.29



Four Column Assembly- Spray Type

VISAGAGE COMPONENTS



ITEM	PART NO.	DESCRIPTION	LIST
1	SMPT-0001	Spray Type Column	$ 5.23
2	SMPT-0002	Flow Divider Type Column	$ 5.68
3	SMPT-0003	⅜" Female NPT Adapter	$ 1.87
3	SMPT-0051	¼" Airline, 90°	$ 7.23
3	SMPT-0052	5/16" Airline, 90°	$ 7.68
3	SMPT-0053	⅜" Airline, 90°	$ 7.86
4	SMPT-0004	½" Female NPT- Inlet	$ 1.90
5	SMPT-0007	#212 Viton O-Ring	$ 2.92
6	SMPT-0005	Upper Ball Screen	$ 1.52
7	SMPT-0008	End Cap	$ 1.29
8	SMPT-0016	Ball, Green Plastic	$ 1.58
8	SMPT-0017	Ball, Black Plastic	$ 1.45
8	SMPT-0018	Ball, Blue Plastic	$ 1.52
8	SMPT-0019	Ball, Blue Glass	$ 2.76
8	SMPT-0020	Ball, ½" Stainless Steel	$ 3.12
9	SMPT-0006	Retainer Clip	$ 1.58
10	SMPT-0014	Manifold Tee	$ 10.14

VISAGAGE ORIFICE SELECTOR



- Self contained orifice changing system
- Select from 1 of 4 orifice settings on each disc
- Comes with 4 discs to provide wide flow range

PART NO... SMPT-0SA4 **LIST...** $ 127.39

JOHN BLUE BLOCKAGE MONITOR & FLOW DIVIDERS

JOHN BLUE LIQUID BLOCKAGE MONITOR SYSTEM



- Magnetic sensing technology identifies where magnetic balls are floating in each row during application
- Shows low and no-flow, plus premium show high flow for broken lines
- Can be used with cloudy or dark liquids and NH_3
- Each problem will be highlighted by flashing LED
- Available in a standard wired control panel or wireless version when used with an existing tablet

LBMS COMPONENTS

PART NO.	DESCRIPTION	LIST
BM-08PL	8-Row Standard Kit	$1937.92
BMi-08	8-Row Premium Kit	$1965.02
BMPT-001	4-Row Expansion Kit	$ 632.73
BMPT-012	28' Extension Harness	$ 132.14
BMPT-013	15' Extension Harness	$ 152.09
BMPT-014	7' Extension Harness	$ 71.63
SMPT-0057	Magnet Ball, Orange	$ 5.66
SMPT-0058	Magnet Ball, Yellow	$ 5.66
SMPT-0068	Magnet Ball, Green	$ 7.82
SMPT-0079	Magnet Ball, Blue	$ 7.82
SMPT-0085	Magnet Ball, Grey	$ 5.90
SMPT-0090	Magnet Ball, White	$ 5.73
SMPT-0095	Magnet Ball, Black	$ 6.91

JOHN BLUE NH_3 VISAGAGE II



- Monitor NH3 flow rates from the tractor cab
- Polymethylpentene resistant bodies with UV protection, poly balls and ball screen, Buna-N o-rings, and aluminum manifolds
- ⅜" female NPT inlet/outlet
- Comes in 2 or 4 row units

PART NO.	DESCRIPTION	LIST
SMFD2-NH3	2 Row Assembly	$ 147.52
SMFD4-NH3	4 Row Assembly	$ 242.42
SMPT-0071	Column Only	$ 15.92
SMPT-0074	O-Ring, Bottom of Column	$ 0.77
SMPT-0075	O-Ring, Top of Column	$ 0.82

JOHN BLUE FLOW DIVIDERS

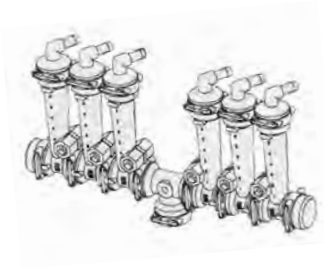


PART NO.	DESCRIPTION	LIST
FD-1210	12 Outlet Stainless Steel Divider, **Inlet:** ¾" FPT **Outlet:** ¼" FPT **Max. Flow per Outlet:** 2.25 GPM	$ 955.26
FD-2010	20 Outlet Stainless Steel Divider, **Inlet:** 1" FPT **Outlet:** ¼" FPT **Max. Flow per Outlet:** 2.25 GPM	$ 1759.34
115406A	Needle and Seal Kit for FD-1210	$ 173.15
115407A	Seal Kit for FD-1210	$ 59.16
115433A	Needle and Seal Kit for FD-2010	$ 380.72
115434	Seal Kit for FD-2010	$ 84.73

Breakdown for the John Blue Flow Dividers on Page 178

WILGER FLOW INDICATORS

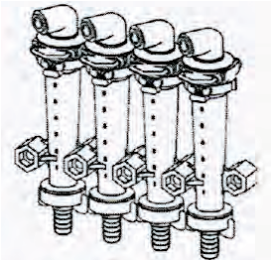
FLOW INDICATORS ASSEMBLED INTO COLUMNS



(please specify inlet & outlet sizes & straight or 90°)

PART NO.	DESCRIPTION	LIST
20460 1 VO	1 Column Assembly w/Inlet, Outlet & End Cap, Viton O-Rings	$ 54.00
20460 2 VO	2 Column Assembly w/Inlet, Outlet & End Cap, Viton O-Rings	$ 107.00
20460 3 VO	3 Column Assembly w/Inlet, Outlet & End Cap, Viton O-Rings	$ 168.00
20460 4 VO	4 Column Assembly w/Inlet, Outlet & End Cap, Viton O-Rings	$ 220.00
20460 5 VO	5 Column Assembly w/Inlet, Outlet & End Cap, Viton O-Rings	$ 275.00
20460 6 VO	6 Column Assembly w/Inlet, Outlet & End Cap, Viton O-Rings	$ 330.00
20460 6 TVO	6 Column Assembly w/ Tee Inlet, Outlet & End Cap, Viton O-Rings	$ 337.00
20460 8 TVO	8 Column Assembly w/ Tee Inlet, Outlet & End Cap, Viton O-Rings	$ 447.00

ISOLATED FLOW INDICATORS

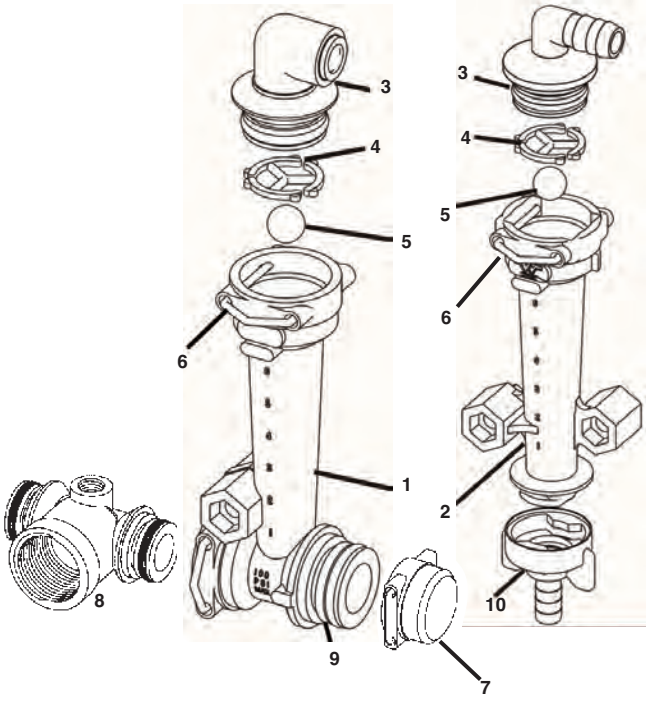


(please specify inlet & outlet sizes & straight or 90°)

PART NO.	DESCRIPTION	LIST
20480 1 VO	1 Row Assembly	$ 66.20
20480 4 VO	4 Row Assembly	$ 257.00
20480 6 VO	6 Row Assembly	$ 385.00

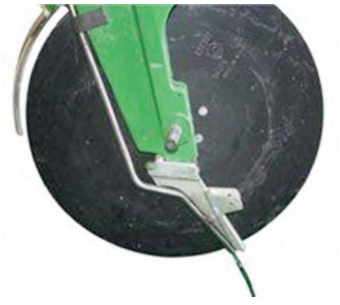
FLOW INDICATOR COMPONENTS

ITEM	PART NO.	DESCRIPTION	LIST
N/S	20470 01	Spray Type Column, Low Flow	$ 19.84
1	20460 01	Spray Type Column, No O-Ring	$ 19.83
2	20480 01	Flow Divider Type Column	$ 15.86
3	20501 VO	⅜" Straight Hose Barb	$ 6.36
3	20502 VO	½" Straight Hose Barb	$ 6.36
3	20503 VO	¾" Straight Hose Barb	$ 6.36
3	20511VO	⅜" Hose Barb 90°	$ 6.36
3	20512 VO	½" Hose Barb 90°	$ 6.36
3	20513 VO	¾" Hose Barb 90°	$ 6.36
3	20516 VO	¼" Airline 90°	$ 13.57
3	20528 VO	5/16" Airline 90°	$ 14.34
3	20517 VO	⅜" Airline 90°	$ 14.34
3	20518 VO	¼" Female NPT 90°	$ 6.36
3	20519 VO	¼" Female NPT Straight	$ 6.36
4	20460 02	Ball Retainer	$ 0.88
5	20460 05	Ball, ½" Stainless Steel	$ 2.17
5	20460 06	Ball, Maroon Glass	$ 1.04
5	20460 07	Ball, Red Plastic	$ 1.04
5	20460 08	Ball, Green Plastic	$ 1.04
6	20460 04	Lock U-Clip	$ 2.15
7	20521	End Cap	$ 4.80
8	20525 VO	Tee, 1" Female NPT Inlet	$ 15.46
9	20460 15	Viton O-Ring	$ 2.69
10	40273 05	¼" Female NPT, Isolated Flow Indicator	$ 1.64
10	40422 05	¼" Hose Barb, Isolated Flow Indicator	$ 1.63
10	40424 05	⅜" Hose Barb, Isolated Flow Indicator	$ 1.63
10	40426 05	½" Hose Barb, Isolated Flow Indicator	$ 1.63



TOTALLY TUBULAR/ NH_3 METERS

TOTALLY TUBULAR STARTER FERTILIZER TUBES



- Starter fertilizer application deeper in the soil profile
- Instant root uptake for early plant health
- Maintenance free
- Protected by disc blades
- Available for many makes & models of planters

Call For Pricing

CONTINENTAL METER MATICS

C-4100



- 2000- 4200 lbs of nitrogen per hour at 100 lbs tank pressure
- **Inlet:** 1" male NPT **Outlet:** 14-⅛" female NPT

PART NO.	DESCRIPTION	LIST
C-4100-RPR	C-4100 w/ Rope Pull Shutoff Assembly	$ 1561.10
C-4100-6572	C-4100 w/ Hydraulic Actuator Shutoff Assembly	$ 1852.63
A-4125-RS	Repair Kit for C-4100 (Meter Only)	$ 108.21
R-9590-RK	Repair Kit for Hydraulic Actuator	$ 66.05

B-9500



- 3000- 6200 lbs of nitrogen per hour at 100 lbs of tank pressure
- Includes an in-line hydraulic actuator shutoff assembly

PART NO.	DESCRIPTION	LIST
B-9500	**Inlet:** 1" Male NPT **Outlet:** 1" Female NPT	$ 1980.03
B-9500-B	**Inlet:** 1¼" Male NPT **Outlet:** 1¼" Female NPT	$ 1980.03
B-9500-RS	Repair Kit for B-9500 (Meter Only)	$ 101.57
R-9590-RK	Repair Kit for Hydraulic Actuator	$ 66.05

Meter Setting Formula:

Toolbar Width in Feet x Speed x Lbs Nitrogen per Acre x 0.1212= Dial Setting

Breakdown for the B-9500 Turn to Page 160

NH_3 MANIFOLDS & SPLITTERS

MANIFOLDS & SPLITTERS



NH_3 MANIFOLD

PART NO.	DESCRIPTION	LIST
A-6006-B	**Continental 14 Port Manifold** **Inlet:** 1" Female NPT **Outlet:** 14-¼" Female NPT	$ 146.91



VERTICAL DAM MANIFOLDS

PART NO.	DESCRIPTION	LIST
AMVD-CORN	**Continental 13 Port Manifold,** ¼" Female NPT **Inlet:** 1" Female NPT **Outlet:** ⅜" or ½" Hose Barb	$ 413.00
AMVD-CORN-16A201	**Continental 16 Port Manifold,** ⅛" Female NPT **Inlet:** 1" Female NPT **Outlet:** ⅜" Hose Barb	$ 413.00
111665	**Squibb Taylor Sweet 16 Manifold** **Inlet:** 1" Male NPT **Outlet:** 16-¼" Female NPT	$ 538.62



A-360 SPLITTER

PART NO.	DESCRIPTION	LIST
A-360SP-3	3 Outlet, 3200 lb N per Outlet **Inlet:** 1¼" Female NPT **Outlet:** ¾" Female NPT	$ 866.16

JOHN BLUE MANIFOLDS & SPLITTERS



STAINLESS STEEL MANIFOLD

PART NO.	DESCRIPTION	LIST
113983	**Inlet:** 1" Female NPT **Outlet:** 12-¼" Female NPT	$ 289.59



IMPELLICONE™

PART NO.	DESCRIPTION	LIST
IP1300	**Inlet:** 1" Female NPT **Outlet:** 13-¼" Female NPT	$ 502.03
IP1800	**Inlet:** 1" Female NPT **Outlet:** 18-¼" Female NPT	$ 645.37

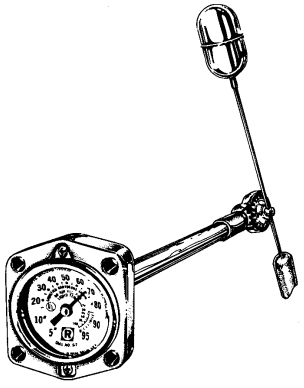


JOHN BLUE SPLITTER

PART NO.	DESCRIPTION	LIST
IPS2-4	4 Outlet **Inlet:** 1¼" Female NPT **Outlet:** 1" Female NPT	$ 512.23

Breakdown on John Blue Impellicone™ on Page 193

FLOAT GAUGES, DISC SEALERS, SHANKS



NH_3 FLOAT GAUGES

PART NO.	DESCRIPTION	LIST
A6280 41	Top Mount, For 41" Diameter Tanks	$ 69.65
A6280 46	Top Mount, For 46" Diameter Tanks	$ 69.65
A6280 41SS	Top Mount, 41" Diameter Tanks Stainless Steel	$ 424.85
A6280 46SS	Top Mount, 46" Diameter Tanks Stainless Steel	$ 405.00

FLOAT GAUGE COMPONENTS

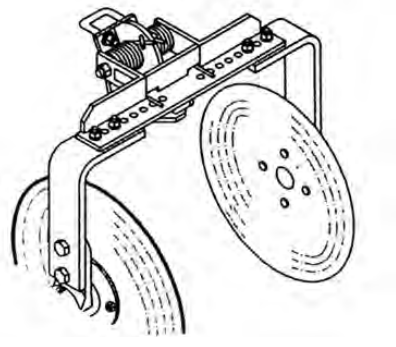


PART NO.	DESCRIPTION	LIST
5002S 00002	Dial Chamber	$ 32.55
0015 00004	Flat Gasket	$ 5.15
0040 00415	Screws, Head	$ 1.50
0040 00478	Stainless Screws, Head	$ 3.18
0040 00438	Stainless Screw, Long (For Older Style Gauge)	$ 3.18

AG SYSTEMS DISC SEALER

PART NO.	DESCRIPTION
AS40034004	13" Single Blade
AS40034002	13" Double Blade
AS40034000	18" Double Smooth Blade
AS40034001	18" Double Notched Blade
AS40034010	18" Double Smooth Blade, Floating Arms
AS40034011	18" Double Notched Blade, Floating Arms

Breakdown for Disc Sealers Turn to Page 155



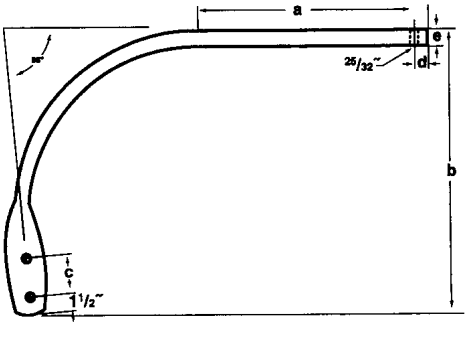
SHANKS

KSC-1295

1" x 2" Shank- BlueJet

Dimensions:

a. 15"
b. 19⅜"
c. 2¾"
d. 1"
e. 1"

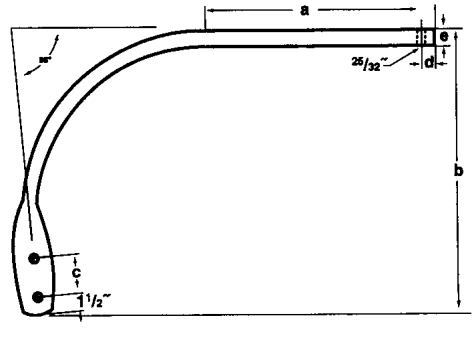


KSC-1298

1" x 2" Shank- DMI, Ag Systems

Dimensions:

a. 16"
b. 20⅞"
c. 2¾"
d. 2"
e. 1"



FERTILIZER KNIVES

B33 MOLE KNIFE

PART NO.	DESCRIPTION
B33AMOLE 3/8	Knife w/ Single ⅜" Tube
B33AMOLE 1/2	Knife w/ Single ½" Tube
B33AMOLE 3/8 X 3/8	Knife w/ Double ⅜" Tubes
B33AMOLE 3/8 X 1/2	Knife w/ ⅜" & ½" Tubes
B33AMOLE 3/8 X 3/4	Knife w/ ⅜" & ¾" Tubes
B33AMOLE 1/2 X 1/2	Knife w/ Double ½" Tubes
B33AMOLE 1/2 X 3/4	Knife w/ ½" & ¾" Tubes





B33 SIDE DRESS MOLE KNIFE

PART NO.	DESCRIPTION
B33SD 3/8	Knife w/ Single ⅜" Tube
B33SD 1/2	Knife w/ Single ½" Tube
B33SD 3/8 X 3/8	Knife w/ Double ⅜" Tubes
B33SD 3/8 X 1/2	Knife w/ ⅜" & ½" Tubes
B3SD 3/8 X 3/4	Knife w/ ⅜" & ¾" Tubes
B33SD 1/2 X 1/2	Knife w/ Double ½" Tubes
B33SD 1/2 X 3/4	Knife w/ ½" & ¾" Tubes

MAG50 KNIFE

PART NO.	DESCRIPTION
MAG50 3/8	Knife w/ Single ⅜" Tube
MAG50 1/2	Knife w/ Single ½" Tube
MAG50 3/8S	Knife w/ Sealer Wing & Single ⅜" Tube
MAG50 1/2S	Knife w/ Sealer Wing & Single ½" Tube
MAG50 3/8 X 3/8S	Knife w/ Sealer Wing & Double ⅜" Tubes
MAG50 3/8 X 3/4S	Knife w/ Sealer Wing & ⅜" & ¾" Tubes
MAG50 1/2 X 3/8S	Knife w/ Sealer Wing & ½" & ⅜" Tubes
MAG50 1/2 X 1/2S	Knife w/ Sealer Wing & Double ½" Tubes
MAG50 1/2 X 3/4S	Knife w/ Sealer Wing & ½" & ¾" Tubes





KNIFE COMPONENTS

PART NO.	DESCRIPTION
AC 1004	⅜" Tube Only
AC 1008	½" Tube Only
TK 1009	¾" Tube Only
AC 23	Sealer Wing for MAG50 Knives

FERTILIZER KNIVES



JOHN BLUE KNIFE

PART NO	DESCRIPTION
A7203SP	Knife w/ Sealer Wing & Single ⅜" Tube
A7204SP	Knife w/ Sealer Wing & Single ½" Tube

B33 MINI MOLE KNIFE

PART NO.	DESCRIPTION
B33MINI 3/8	Knife w/ Single ⅜" Tube
B33MINI 1/2	Knife w/ Single ½" Tube
B33MINI 3/8 X 3/8	Knife w/ Double ⅜" Tubes
B33MINI 3/8 X 3/4	Knife w/ ⅜" & ¾" Tubes
B33MINI 1/2 X 1/2	Knife w/ Double ½" Tubes
B33MINI 1/2 X 3/4	Knife w/ ½" & ¾" Tubes





DEEP FURROW KNIFE

PART NO.	DESCRIPTION
DF1	Knife w/ Single ⅜" Tube
DF11/2A	Knife w/ Single ½" Tube



AC14

28% APPLICATOR KNIVES

PART NO.	DESCRIPTION
AC14 3/8	Thin Knife w/ Single ⅜" Tube
AC14 1/2	Thin Knife w/ Single ½" Tube
AC15 3/8	DMI Knife w/ Single ⅜" Tube



AC15

COULTER BLADES

PART NO.	DESCRIPTION
2571-076B	20" Fluted Blade
2571-279	20" Unverferth Blade



SAFETY COUPLERS & HYDRAULIC SHUT-OFF

PIONEER COUPLERS

PART NO.	DESCRIPTION
4500 6	1" NPT Breakaway
4500 7	1¼" NPT Breakaway



PIONEER COMPONENTS

PART NO.	DESCRIPTION
4510 6	1" Female NPT Male Tip for Breakaway
4510 7B	1¼" Female NPT Male Tip for Breakaway
45037	Breakaway Clamp
458016	O-Ring (2 Required for 1¼")
456006A	Clamp Retainer Ring
4158001	Back-Up Ring for 1" Coupler



CONTINENTAL BREAKAWAY

PART NO.	DESCRIPTION	LIST
AHFC 114	1¼" Stainless Breakaway	$ 775.00
AHFC 112G	1½" Stainless Breakaway	$ 1325.00
AHFC-RK	Repair Kit for AHFC 114	$ 13.40
AHFC-112RK	Repair Kit for AHFC 112G	$ 19.80

**Continental Breakaways are NOT dated*



Flo-Max with EZ Bracket

SQUIBB TAYLOR BREAKAWAY

PART NO.	DESCRIPTION	LIST
113026	1¼" Flo-Max Coupler (Less Bracket)	$1134.55
113027	1¼" Flo-Max Coupler (w/ RB Bracket)	$1241.00
113028	1¼" Flo-Max Coupler (w/ EZ Bracket)	$1342.28
113041	Plunger Repair Kit	$ 78.14
113046	O-Ring Repair Kit	$ 23.51

**Squibb Taylor Breakaways are NOT dated*

CONTINENTAL HYDRAULIC SHUT-OFF

PART NO.	DESCRIPTION	LIST
R-9590	1" Hydraulic Shut-Off	$ 442.03
R-9590-B	1¼" Hydraulic Shut-Off	$ 442.03
R-9590-RK	Actuator Repair Kit	$ 66.05



NH3 ANGLE & GLOBE VALVES

CONTINENTAL VALVES



Angle Valve



Globe Valve, 90° Hand Wheel



Globe Valve, 45° Hand Wheel

PART NO.	DESCRIPTION	LIST
A-1350	1" Female NPT Globe Valve, 45° Hand Wheel	$ 172.19
A-1650	1" Female NPT Globe Valve, 90° Hand Wheel	$ 180.82
A-2525	1¼" Female NPT Globe Valve, 45° Hand Wheel	$ 299.48
A-1625	1¼" Female NPT Globe Valve, 90° Hand Wheel	$ 308.47
A-2550	1½" Female NPT Globe Valve, 45° Hand Wheel	$ 374.78
A-1250	1" Female NPT Angle Valve	$ 180.82
A-2425	1¼" Female NPT Angle Valve	$ 358.86
A-2450	1½" Female NPT Angle Valve	$ 363.90
A-2212-RK	Repair Kit for A-1350, A-1650, A-1250	$ 35.41
A-25H-RK	Repair Kit for A-2525, A-1625	$ 40.42
A-2550H-RK	Repair Kit for A-2550, A-2425, A-2450	$ 49.62

REGO VALVES

PART NO.	DESCRIPTION	LIST
A-7507AP	1" Female NPT Globe Valve	$ 346.70
A-7509BP	1¼" Female NPT Globe Valve	$ 575.00



QUICK ACTING HOSE VALVES



A-7707L

PART NO.	DESCRIPTION	LIST
A-7707L	Rego 1" Female NPT Globe Valve	$ 658.00
A-7797A	Rego 1" Female NPT x 1¾" Acme Angle Valve	$ 923.75
AQOVM-125	Continental 1¼" Female NPT x 1¾" Acme Angle Valve	$ 598.56
AQOVM-125FF	Continental 1¼" Female NPT x 1¾" Acme Fast Flow Angle Valve	$ 704.16
AL361	Squibb Taylor 1¼" Female NPT Angle Valve	$ 676.90
AL362A	Squibb Taylor 1¼" Female NPT x 1¾" Acme Angle Valve	$ 741.86



AL361



AQOVM-125



AL362A

APPLICATOR & NURSE TANK VALVES

CONTINENTAL VALVES

PART NO.	DESCRIPTION	LIST
A-1201	**Fill Valve** **Tank Connection:** 1¼" NPT **Outlet:** 1¾" Acme	$ 232.99
A-1206E	**Withdrawal Valve**, 42 GPM **Tank Connection:** 1¼" NPT **Outlet:** 1" Female NPT	$ 220.21
A-1206F	**Withdrawal Valve**, 42 GPM **Tank Connection:** 1¼" NPT **Outlet:** 1¼" Female NPT	$ 241.93
A-1406F	**Withdrawal Valve**, 45 GPM **Tank Connection:** 1¼" NPT **Outlet:** 1¼" Female NPT	$ 371.06
A-1507F	**Withdrawal Valve**, 60 GPM **Tank Connection:** 1½" NPT **Outlet:** 1¼" Female NPT	$ 523.22
22H-786	Bonnet Assembly for A-1201, A-1206E, A-1206F	$ 105.99
A-25H-RK	Repair Kit for A-1406F, A-1507F	$ 40.42



A-1201 Fill Valve

A-1206E Withdrawal Valve

REGO VALVES

PART NO.	DESCRIPTION	LIST
A-8016DP	**Fill Valve** **Tank Connection:** 1¼" NPT **Outlet:** 1¾" Acme	$ 381.00
A-8017DP	**Withdrawal Valve**, 50 GPM **Tank Connection:** 1¼" NPT **Outlet:** 1" Female NPT	$ 353.00
A-8016B50	Repair Kit for A-8016DP, A-8017DP	$ 34.15



A-8016DP Fill Valve

A-8017DP Withdrawal Valve

SQUIBB TAYLOR VALVES

PART NO.	DESCRIPTION	LIST
111155	**Fill Valve** **Tank Connection:** 1¼" NPT **Outlet:** 1¾" Acme	$ 282.86
A-484N45	**Withdrawal Valve**, 45 GPM **Tank Connection:** 1¼" NPT **Outlet:** 1¼" Female NPT	$ 468.05
A-480N60	**Withdrawal Valve**, 60 GPM **Tank Connection:** 1½" NPT **Outlet:** 1¼" Female NPT	$ 646.85
310-22	Repair Kit for A-525P	$ 34.71
119306	Repair Kit for A-484N45, A-480N60	$ 68.99



111155 Fill Valve

A-480N60 Withdrawal Valve

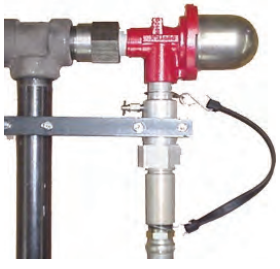
RISER VALVES & NH_3 SAFETY

RISER VALVES



PART NO.	DESCRIPTION	LIST
AR492NP-70	Squibb Taylor 70 GPM, 2" Male NPT x 1¼" Female NPT	$ 455.00
AR493NR-95	Squibb Taylor 95 GPM, 2" Male NPT x 1¼" Female NPT	$ 699.97
A-1508FR	Continental 95 GPM, 1½" Male NPT x 1¼" Female NPT	$ 523.22
310-22	Repair Kit for AL-478EP	$ 34.71
119306	Repair Kit for A-490NR95, AR492, AR493	$ 68.99
A-25H-RK	Repair Kit for A-1508FR	$ 40.42

RISER PULL AWAY SAFETY



Continental Riser Safety Shear



Squibb Taylor Pull Away Coupler

PART NO.	DESCRIPTION	LIST
A53RSS	Continental 53 GPM, 1" Male NPT x 1" Female NPT	$ 651.69
A72RSS	Continental 72 GPM, 1¼" Male NPT x 1¼" Female NPT	$ 749.43
A98RSS	Continental 98 GPM, 1¼" Male NPT x 1¼" Female NPT	$ 899.82
113-059	Squibb Taylor 126 GPM, 1¼" Male NPT x 1¼" Male NPT	$ 2943.67
53RSS	1" Continental Riser Shear Only	$ 114.00
98RSS	1¼" Continental Riser Shear Only	$ 147.75

EMERGENCY SHUTOFF VALVE

PART NO.	DESCRIPTION	LIST
122586	47 GPM Fisher Emergency Shutoff Valve, 1¼" Female NPT	$ 1235.00
122589	70 GPM Fisher Emergency Shutoff Valve, 2" Female NPT	$ 2592.29
122596	178 GPM Fisher Emergency Shutoff Valve, 3" Female NPT	$ 3576.13
122939	12 Volt Electronic Actuator	$ 837.38



SAFETY WATER CONTAINER



Side Mount w/Metal Mounting Kit
76411



Top Mount w/Metal Mounting Kit
76410

PART NO.	DESCRIPTION
55945	Screw Type Lid
55565	Hose/Side Mount
55621	Spring
75851	Strap Kit/Side Mount

TOP MOUNT WATER CONTAINER

AG40



- Accessible from both sides
- Lip prevents straps from sliding
- Exceeds OSHA requirements

SAFETY KIT



75650

- Waterproof protection
- May be mounted with access opening to front or rear
- Mounts securely to any size tank
- Large screw type lid for easy access

NH_3 PRODUCTS

HOSE END VALVES

PART NO.	DESCRIPTION	LIST
A214L	1" Female NPT x 1¾" Acme	$ 339.00
A215L	1¼" Female NPT x 1¾" Acme	$ 474.83
A216L	1¼" Female NPT x 2¼" Acme	$ 489.07
A217L	1½" Female NPT x 2¼" Acme	$ 629.73



COUPLING ONLY



6" Long Coupler

PART NO.	DESCRIPTION	LIST
A571	¾" Male NPT x 1¾" Acme, 6" Long	$ 113.23
A577B	1" Male NPT x 1¾" Acme, 6" Long	$ 94.65
A577C	1¼" Male NPT x 1¾" Acme, 6" Long	$ 166.88
A577D	1¼" Male NPT x 2¼" Acme, 6" Long	$ 190.10
A577G	1½" Male NPT x 2¼" Acme, 6" Long	$ 234.09
B523	½" Male NPT x 1¾" Acme, 3⅛" Long	$ 63.68
B521B	1" Male NPT x 1¾" Acme, 3⅛" Long	$ 53.43
A527	1¼" Male NPT x 2¼" Acme, 3¾" Long	$ 113.31



3 1/8" Long Coupler

RELIEF VALVES

PART NO.	DESCRIPTION	LIST
A-402VA	¾" Male NPT Relief Valve, 250 PSI	$ 70.77
A-417A	1¼" Male NPT Relief Valve, 250 PSI	$ 286.04
A-400A	¼" Male NPT Hydrostatic Relief Valve, 312 PSI	$ 38.11
CNA-400	¼" Male NPT Hydrostatic Relief Valve, 375 PSI	$ 38.48
A-402NDCC	Dust Cap for A-402VA	$ 6.10
A-417DCC	Dust Cap for A-417A	$ 10.93



A-402VA



A-400A

RELIEF VALVE MANIFOLD



PART NO.	DESCRIPTION	LIST
A-462	250 PSI Relief Valve Pressure **Tank Connection:** 2" NPT **Valve Connections:** 1¼" NPT	$ 1219.18

EXCESS FLOW & CHECK VALVES

PART NO.	DESCRIPTION	LIST
A-EFV-45	1¼" Female NPT Excess Flow Valve, 45 GPM	$ 206.48
A-EFV-45G	1½" Female NPT Excess Flow Valve, 45 GPM	$ 321.11
A-EFV-60G	1½" Female NPT Excess Flow Valve, 60 GPM	$ 321.11
A-14BC	1¼" Female NPT Full Port Check Valve	$ 238.11
A-15BC	1½" Female NPT Full Port Check Valve	$ 475.24



A-EFV-45



A-14BC

NH_3 PRODUCTS

HOSE SWIVELS

Rota Seal Swivels

- Unique TFE Pressure Core seals are field servicable
- Full bore opening offers no flow restrictions
- 400 PSI max working pressure

PART NO.	DESCRIPTION	LIST
108-1000	1" Rota Seal Swivel	$ 340.87
110-1000	1¼" Rota Seal Swivel	$ 565.08
112057	Repair Kit for 108-1000	$ 125.63
112065	Repair Kit for 110-1000	$ 147.83



Rota Seal Swivel

PART NO.	DESCRIPTION	LIST
230153	1" Steel Swivel	$ 17.92
230157	1¼" Steel Swivel	$ 29.07
230263	1½" Steel Swivel	$ 39.75



Steel Swivel

ACME ADAPTERS

PART NO.	DESCRIPTION	LIST
A-524A	½" Male NPT x 1¾" Male Acme	$ 38.97
A-524	¾" Male NPT x 1¾" Male Acme	$ 38.97
A-524B	1" Male NPT x 1¾" Male Acme	$ 29.74
A-524C	1¼" Male NPT x 1¾" Male Acme	$ 37.52
A-532	1¼" Male NPT x 2¼" Male Acme	$ 100.22
A-533G	1½" Male NPT x 2¼" Male Acme	$ 107.10
A-534	2" Male NPT x 2¼" Male Acme	$ 115.25
A-540	2" Male NPT x 3¼" Male Acme	$ 173.66
ST-2004S	1¾" Female Acme x 2¼" Male Acme	$ 173.76



A-524B Adapter



ST-2004S Adapter

REUSABLE HOSE CLAMPS

PART NO.	DESCRIPTION	LIST
16CL	1" NPT x 1" I.D. Hose	$ 40.75
20CL	1¼" NPT x 1¼" I.D. Hose	$ 60.85
24CL	1½" NPT x 1½" I.D. Hose	$ 77.99
2016CL	1" NPT x 1¼" I.D. Hose	$ 82.20



DUST CAPS

PART NO.	DESCRIPTION	LIST
22-63F	1¾" Acme, Nylon Cap Only	$ 5.73
22-63FC	1¾" Acme, Nylon Cap w/ Chain	$ 6.43
A-2080C	1¾" Acme, Nylon Cap w/ Strap	$ 19.67
111586	2¼" Acme, Nylon Cap w/ Chain	$ 19.18
A-529C	1¾" Acme, Steel Cap w/ Chain	$ 46.22
A-535C	2¼" Acme, Steel Cap w/ Chain	$ 119.51
A-545C	3¼" Acme, Steel Cap w/ Chain	$ 128.35



Nylon Cap w/ Chain



Steel Cap w/ Chain

GASKETS

PART NO.	DESCRIPTION	LIST
A2697-20R	1¾" Acme Rego Gasket	$ 0.95
22-71F	1¾" Acme Hycar Gasket	$ 0.71
A-532-2	2¼" Acme Gasket	$ 2.56
A-540-2	3¼" Acme Gasket	$ 2.93

PARKING ADAPTER



A-524WB

LIST... **$ 19.81**

¼" BLEED VALVE

PART NO.	LIST
A411	$ 20.84
A411-S	$ 20.84



A411



A411S

DECALS



1005 Green Diamond Decal
11581 NET **$ 1.85**



Slow Moving Decal
11591 NET **$ 5.50**

SMV Decal, Aluminium Back, New DOT
11583 NET **$ 15.80**

Blade Mounting - SMV
11580 NET **$ 3.30**

Socket - SMV
11589 NET **$ 2.20**



FRESH WATER DECAL
11597 NET **$ 1.10**

INHALATION HAZARD

Inhalation Hazard Decal

Green on White 2" Letters
115922 NET **$ 2.35**

Green on White 3" Letters
11592 NET **$ 1.90**

Green on White 4" Letters
115924 NET **$ 4.45**



Valve Identification Decals - Set
11588 NET **$ 1.25**

CAUTION AMMONIA

Caution Ammonia Decal
13381 NET **$ 3.75**



3-Part Caution, First Aid Decal
11587 NET **$ 2.50**

ANHYDROUS AMMONIA

Anhydrous Ammonia Decal

2" Green Letters
11590 NET **$1.15**

3" Green Letters
11593 NET **$2.30**

4" Green Letters
11594 NET **$3.20**



Anhydrous Ammonia Decal Circular 24"x26" w/4" Letters
11299 NET **$ 2.30**



Anhydrous Ammonia Transfer Instruction Decal
11585 NET **$ 3.75**

SAFETY EQUIPMENT

AGRO-CHEM SAFETY SATCHEL



Includes: Satchel, Coveralls, Goggles, NH_3 Gloves, Eyewash Bottle, and Bottle of Soap ...

SAFKIT 1

RESPIRATORS

PART NO.	DESCRIPTION
WS2211	Respirator
91501	Pesticide Respirator Filter
91502	Ammonia Respirator Filter
RR91004	Full Face Respirator
6400	NH_3 Canisters for Full Face Respirator



WS2211 Respirator w/ Ammonia Filter



21318



11319

PART NO.	DESCRIPTION		
WSF300	Headgear Only for Face Shield	LIST	**$ 43.00**
WS4168CL	Face Shield	LIST	**$ 14.90**
COVERALLS	Disposable Coveralls	LIST	**$ 15.77**
PVC45G	Chemical Apron	LIST	**$ 27.40**
21318	NH3 Gloves	NET	**$ 2.70**
21319	Chemical Gloves	NET	**$ 2.30**
5401S	Chemical Gloves, XXXL Size 11, Blue	NET	**$ 3.80**
11319	Safety Goggles, Indirect Vent	NET	**$ 4.90**
G931V	Non-Vented Safety Goggles	NET	**$ 4.95**

IMPLEMENT JACKS



PART NO.	DESCRIPTION	LBS	HEIGHT	LIST
158451	Top Crank	2000	10" Travel	$ 113.40
158452	Top Crank	2000	15" Travel	$ 150.12
178101	Top Crank	5000	10" Travel	$ 167.40
178151	Top Crank	5000	15" Travel	$ 172.80
158109	Side Crank	2000	10" Travel	$ 155.52
158151	Side Crank	2000	15" Travel	$ 180.36
178203	Side Crank	5000	15" Travel	$ 205.20

HITCH PINS- *Hairpin Included*

PART NO.	DIA.	LENGTH	LIST	
510	¾"	6"	$ 8.10	
520	⅞"	6"	$ 9.40	
525P	1"	6"	$ 12.80	
15048	¾"	6½"	$ 8.10	
700HPBLU	¾"	6½"	$ 15.27	*Grade 8*
15062	⅞"	6½"	$ 9.40	
701HPBLU	⅞"	6½"	$ 18.62	*Grade 8*



ADDITIONAL HAIRPIN CLIPS

PART NO.	FOR HITCHPIN	WIRE DIA	LIST
8E	520, 525P	3/16"	$ 0.50
9E	510	5/32"	$ 0.45
11E		⅛"	$ 0.76

CALIBRATION EQUIPMENT

GREENLEAF
WM20 WEATHERMETER

Wind speed, Temperature, Windchill



• Dual display of wind speed and temperature or wind chill
• MPH, KPH, Knots, M/Sec., Ft/Min., Beaufort • Auto power off
• Records maximum readings
• Folding protective cover extends meter length to 9" for better reach • water resistant
• Floats • Shockproof
• Lithium battery • Tripod mountable

WM20 Wind Meter **NET** ... **$117.00**

WM10 WEATHERMETER

• Display of wind speed • MPH • Auto power off
• Water resistant

WM10 Wind Meter **NET** ... **$108.05**

SOIL PROBES

- Heavy tube construction
- Fast ... open end for ease of soil removal
- Hand plunger to completely remove soil core
- Foot stand for ease of soil penetration
- Nickel plated



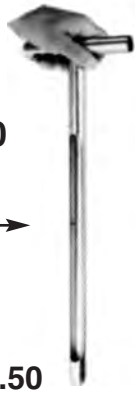
AS40250000 **NET** ... **$ 208.40**



STAINLESS STEEL HEAVY DUTY SOIL PROBE

- All Stainless
- Easy Inspection
- Easy Removal

KHS **NET** ... **$189.00**



ONE PIECE "EASY PULL" SOIL PROBE

HA52 **NET** ... **$ 69.25**

S2 Replacement Tip **NET** ... **$ 12.50**

SPOT ON SPRAYER CALIBRATOR



- Quickly find worn spray nozzle tips
- Accurately measure true tip flow rate
- Fast and simple operation- readings in 10 seconds or less
- Displays in GPM, Liters/min, or Oz/min

CALIBRATION CONTAINER



ACJUG

100 oz. Container

LIST ... **$ 18.20**



Density Meter with Level

MCN 1155 LIST ... **$ 90.00**

FIELD FLAGS

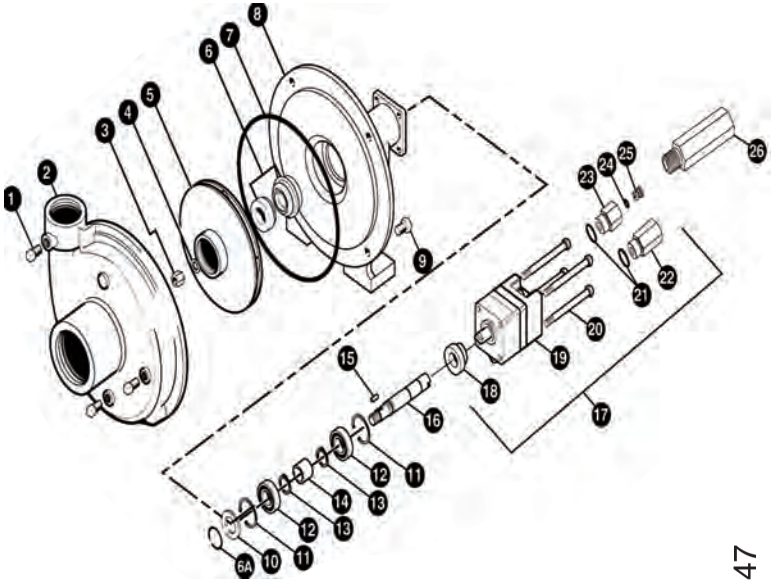
FL196 Flags List ... **$ 0.23**

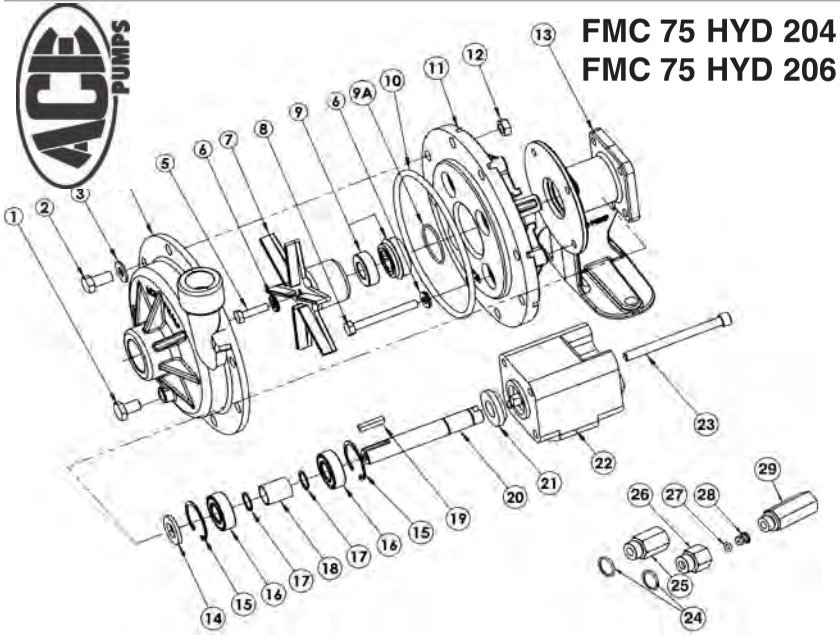
PARTS BREAKDOWN

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Ag Systems AG 37 Coulters Disc Sealers	 Page 154 Page 155
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REF #	PART NUMBER	REQ	DESCRIPTION	REF #	PART NUMBER	REQ	DESCRIPTION
1	BAC-53	4	Pipe plug	17	BAC-75-HYD-204	1	Hyd motor, 4 GPM (Parts 18 - 25)
1	41120	4	Pipe plug, stainless steel (opt)	17	BAC-75-HYD-210	1	Hyd motor, 10 GPM (Parts 18 - 25)
2	BAC-12	1	Volute, 1-1/4" x 1", cast iron	18	S200	1	Seal support spacer (200 motor)
3	BAC-23-A	1	Nut, 3/8" NF, cad plated	18	S300	1	Seal support spacer (300 motor)
3	BAC-23-A-SS	1	Nut, 3/8" NF, stainless steel (opt)	19	BAC-75-HYD-204N	1	Hydraulic motor, 4 GPM (motor only)
4 j k	BAC-24-HYD-SS	1	Washer, 3/8" star, stainless steel	19	BAC-75-HYD-210N	1	Hydraulic motor, 10GPM (motor only)
5	BAC-26-HYD-VALOX	1	Impeller,Valox, keyway	19	BAC-75-HYD-310	1	Hydraulic motor, 16 GPM
5	BAC-26-HYD-CI	1	Impeller, cast iron, keyway (opt)	20	41253	4	Cap screw (204N motor)
6 j	BAC-7V	1	Seal (includes 6A)	20	41254	4	Cap screw (210N motor)
6 k	BAC-7SC	1	Seal, silicon carbide (includes 6A) (opt)	20	41330	4	Cap screw (310 motor)
6A j k	40160	1	O-ring, shaft seal	21	41875	2	O-ring, #8 SAE fitting
7 j k	BAC-4A	1	O-ring, body seal	22	BAC-78-8SAE	1	Reverse check valve, #8 SAE male
8	BAC-14-HYD	1	Mounting frame (for 200 hyd motor)	23	BAC-80-8SAE	1	Adapter, restrictor body, #8 SAE male
8	BAC-14-HYD-300A	1	Mounting frame (for 300A hyd motor)	24	41448	1	O-ring, orifice insert
9	40950	4	Cap screw, 3/8" NC x 3/4" hex head	25	BAC-79-5	1	Orifice, restrictor insert, .078 (204N)
9	40930	4	Cap screw, stainless steel (opt)	25	BAC-79-7	1	Orifice, restrictor insert, .109 (210N)
10	BAC-54	1	Slinger	26	LS-204N	1	Flow limiting valve (204N), #8 SAE
11	BAC-33	2	Snap ring, internal	26	LS-210N	1	Flow limiting valve (210N), #8 SAE
12	BAC-37	2	Ball Bearing, sealed	j	RK-FMC	-	Repair kit for FMC pump
13	BAC-32	2	Snap ring, external	k	RK-FMCSC	-	Repair kit for w/ silicon carbide seal
14	BAC-32-S	1	Spacer for BAC-6 shaft	#	RK-BAC-75-HYD-L	-	Repair kit for 200 hyd motor
15	BACH-25	1	Key, 1/8" x 1/8" x 1/2"	#	RK-BAC-75-HYD-300-L	-	Repair kit for 310 motor
16	BAC-6-HYD-SS	1	Shaft, 5/8" diameter, stainless steel				

FMC HYD 204
FMC HYD 210
FMC HYD 310

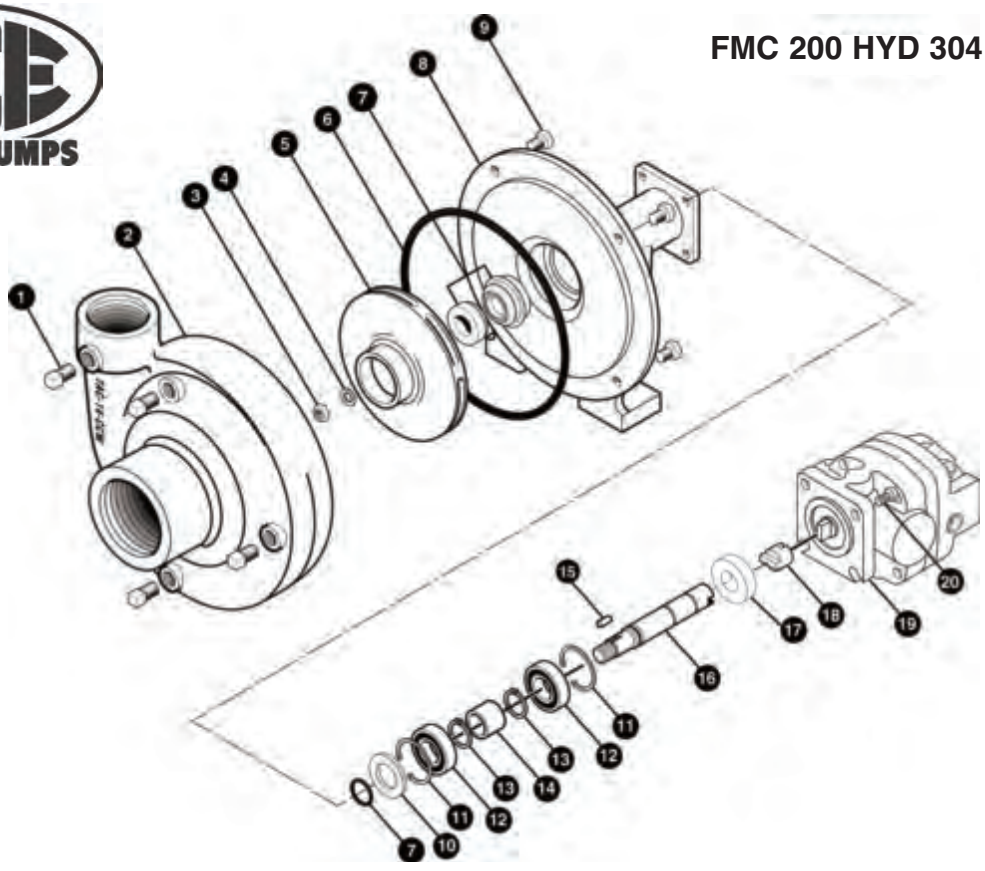




FMC 75 HYD 204
FMC 75 HYD 206

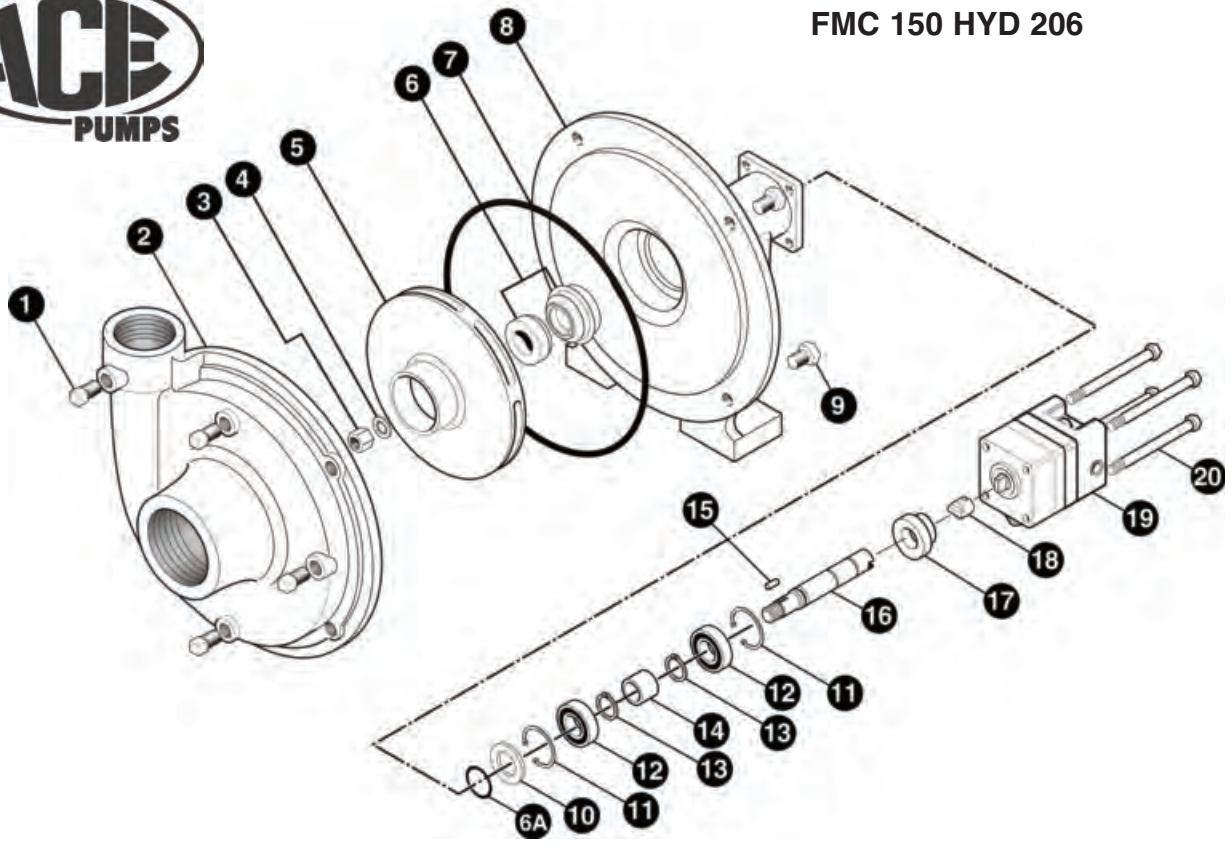
REF. #	PART NO.	REQ	DESCRIPTION	REF. #	PART NO.	REQ	DESCRIPTION
1	BAC-53-P	1	Pipe plug, 1/8" NPT, plastic	18	BAC-32-S	1	Spacer for BAC-6 shaft
2	80250	8	Cap screw, 3/8"-16 x 7/8", hex head	19	41082	1	Key, 3/16" x 3/16" x 15/16"
3	42701	8	Washer, 3/8" flat	20	BAC-6-75-HYD-SS	1	Shaft, 5/8", SS
4	GE-12-75	1	Volute, 3/4" x 1", polypropylene	21	S200	1	Lip seal support spacer
5	42240	1	Cap screw, 1/4"-28 x 1" SS	22	BAC-75-HYD-204R	1	Hydraulic motor, 4 GPM
6 j k	30028	5	Washer, sealing	22	BAC-75-HYD-206R	1	Hydraulic motor, 7 GPM
7	GE-26-75	1	Impeller, polypropylene	23	41253	4	Cap screw, (for 204 motor)
8	42238	4	Cap screw, 5/16"NF x 2-1/4"	23	41255	4	Cap screw, (for 206 motor)
9 j	BAC-7-75V	1	Seal, 5/8" , Viton®/carbon/ceramic	24	41875	2	O-ring, #8 SAE fitting
9 k	BAC-7SC-75V	1	Seal, 5/8", silicon carbide (optional)	25	BAC-78-8SAE	1	Reverse check assembly, #8 SAE male
9A j k	40159	1	"O" Ring, seal seat	26	BAC-80-8SAE	1	Body, restrictor orifice, #8 SAE male
10 j k	40017	1	"O" Ring, volute seal	27	41448	1	O-ring, orifice insert
11	GE-14-75	1	Bracket, polypropylene	28	BAC-79-5	1	Orifice, restrictor insert, .078 (204)
12	BAC-45	8	Nut, hex, 3/8"	28	BAC-79-7	1	Orifice, restrictor insert, .109 (206)
13	BAC-14-75-HYD	1	Hyd Motor Mounting frame	29	LS-204N	1	Flow limiting valve (204), #8 SAE male
14	BAC-54	1	Slinger	29	LS-206N	1	Flow limiting valve (206), #8 SAE male
15	BAC-33	2	Snap ring, internal,	j	RK-GE-75	-	Repair kit for pump
16	BAC-37	2	Bearing	k	RK-GESC-75	-	Repair kit for w/ silicon carbide seal
17	BAC-32	2	Snap ring, external	*	RK-BAC-75-HYD-L	-	Repair kit for 200 series motor

FMC 200 HYD 304



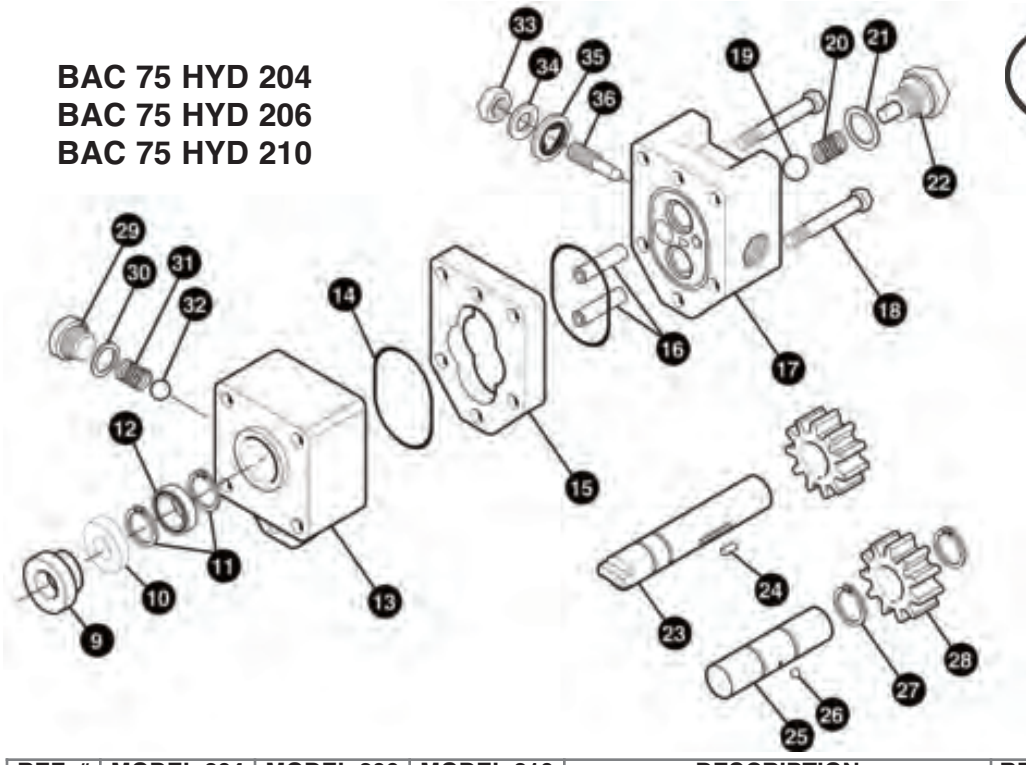
REF. #	PART NUMBER	DESCRIPTION	REQ.
1	BAC-53	Pipe plug	4
1	41120	Pipe plug, stainless steel (optional)	4
2	7AC-14-CCW	Volute, 2" x 1-1/2", cast iron	1
2	7AC-14-FLG	Volute, 300 flange x 220 full port flange, cast iron	1
3	BAC-23-A	Nut, 3/8" NF, cad plated	1
4	BAC-24-HYD-SS	Washer, 3/8" star, stainless steel	1
5	BAC-26-200-CI	Impeller,with extended keyway, cast iron (date code E-9 and up)(optional)	1
5	BAC-26-200-P	Impeller, with extended keyway, thermoplastic (available Dec. '99)	1
5	BAC-26-HYD-200-CI	Impeller, cast iron, keyway (obsolete 6/99)	1
*6	BAC-4	Gasket, 4 hole	1
*6	BAC-4A	O-ring, body seal, effective April 1996	1
*7	BAC-7V	Seal, mechanical, Viton (includes 40160 “O” Ring)	1
7	BAC-7SC	Seal, mechanical, silicon carbide (includes 40160 “O” Ring) (optional)	1
7A	40160	O-ring, shaft seal	1
8	BAC-14-HYD-300	Mounting frame (for -300 series hydraulic motor)	1
9	40950	Cap screw, 3/8" NC x 3/4" hex head	4
9	40930	Cap screw, 3/8" NC x 3/4" hex head, stainless steel (optional)	4
10	BAC-54	Slinger	1
11	BAC-33	Snap ring, internal, BAC-14 mounting frame	2
12	BAC-37	Ball Bearing, sealed, BAC-6 shaft	2
13	BAC-32	Snap ring, external, BAC-6 shaft	2
14	BAC-32-S	Spacer for BAC-6 shaft	1
15	BAC-25	Key, 1/8" x 1/8" x 13/16", extended keyway (date code E-9 and up)	1
15	BACH-25	Key, 1/8" x 1/8" x 1/2" (obsolete 6/99)	1
16	BAC-6-HYD-200-SS	Shaft, extended keyway, tang, stainless steel(date code E-9 and up)	1
16	BAC-6-HYD-SS	Shaft, 5/8" diameter, keyway and tang slot, stainless steel (optional)	1
17	S300	Seal support spacer for 300 Series HYD motor, effective 6/00	1
18	BAC-76-HYD	Coupling for hydraulic motor	1
19	BAC-75-HYD-304	Hydraulic motor, 11 GPM	1
20	41330	Cap screw, 5/16" N. C. x 3/4" hex head, motor to pump	4
*	RK-FMC	Repair kit for FMC series pump	-
#	RK-BAC-75-HYD-304	Repair kit for 304 motor	-
#	RK-BAC-75-HYD-300-L	Repair kit for 300 Series -L motor	-

FMC 150 HYD 206



REF. #	PART NUMBER	DESCRIPTION	REQ.
1	BAC-53	Pipe plug	4
1	41120	Pipe plug, stainless steel (optional)	4
2	BAC-12-150	Volute, 1-1/2" x 1-1/4"	1
2	BAC-12-150-FLG	Volute, 220 full port flange x 200 standard port flange	1
3	BAC-23-A	Nut, 3/8" NF, cad plated	1
3	BAC-23-B-SS	Nut, 3/8" NF, stainless steel (standard on -SS models)	1
4①②	BAC-24-HYD-SS	Washer, 3/8" star, stainless steel	1
4	BAC-24-B-SS	Washer, 3/8", stainless steel, vibration proof (standard on -SS models)	1
5	BAC-26-150-P	Impeller,Valox, keyway	1
5	BAC-26-150-CI	Impeller, cast iron, keyway (optional)	1
6①	BAC-7V	Seal, mechanical, Viton (includes 40160 O-ring)	1
6②	BAC-7SC	Seal, mechanical, silicon carbide (includes 40160 O-ring) (optional)	1
6A①②	40160	O-ring, shaft seal	1
7①②	BAC-4-150	O-ring, body seal	1
8	BAC-14-150-HYD	Mounting frame (for 200 Series hydraulic motor)	1
9	40950	Cap screw, 3/8" NC x 3/4" hex head	4
9	40930	Cap screw, 3/8" NC x 3/8" hex head, stainless steel (optional)	4
10	BAC-54	Slinger	1
11	BAC-33	Snap ring, internal, BAC-14 mounting frame	2
12	BAC-37	Ball Bearing, sealed, BAC-6 shaft	2
13	BAC-32	Snap ring, external, BAC-6 shaft	2
14	BAC-32-S	Spacer for BAC-6 shaft	1
15	BACH-25	Key, 1/8" x 1/8" x 1/2"	1
16	BAC-6-HYD-SS	Shaft, 5/8” diameter, keyway and tang slot, stainless steel	1
17	S200	Seal support spacer for 200 Series HYD motor, effective 6/00	1
18	BAC-76-HYD	Coupling for hydraulic motor	1
19	BAC-75-HYD-206	Hydraulic motor, 7 GPM	1
20	41258	Cap screw, 5/16" N. C. x 3-3/4" Hex head (for 206 motor)	4
①	RK-FMC-150	Repair kit for FMC-150 series pump	-
②	RK-FMCSC-150	Repair kit for FMC-150 series with silicon carbide shaft seal	-
#	RK-BAC-75-HYD-L	Repair kit for 200-L Series motor	-

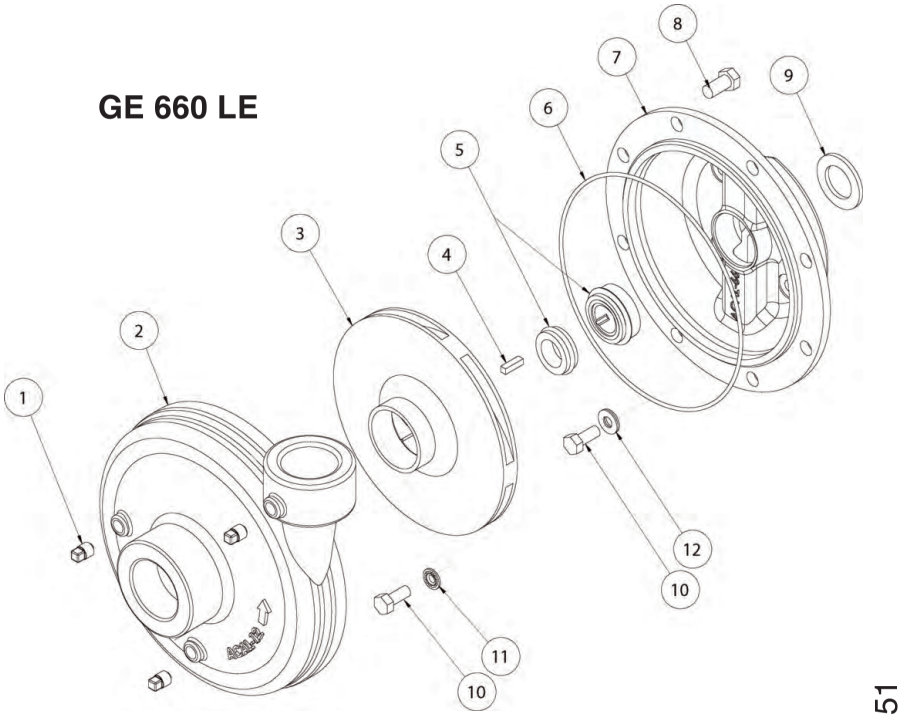
BAC 75 HYD 204
BAC 75 HYD 206
BAC 75 HYD 210



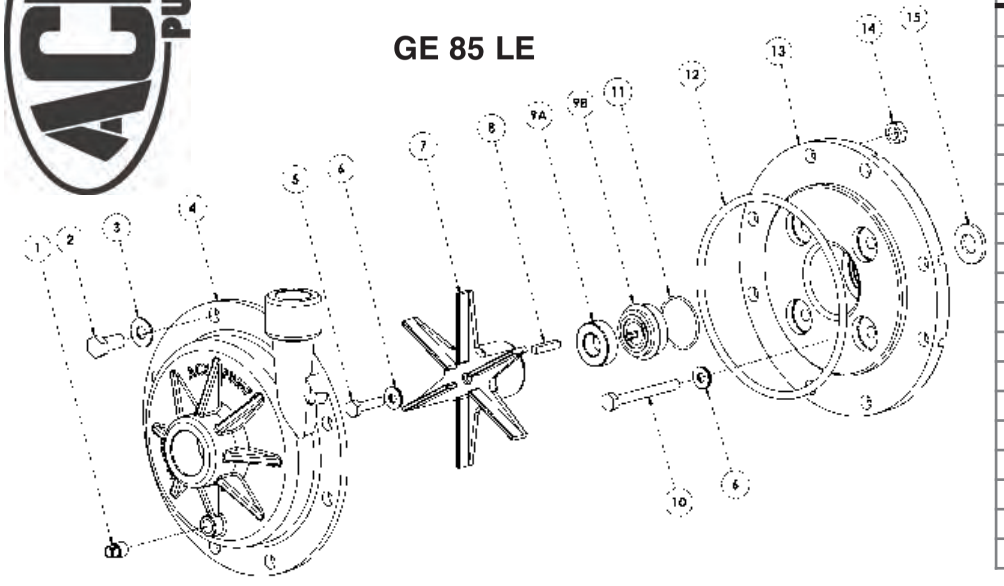
REF. #	MODEL 204	MODEL 206	MODEL 210	DESCRIPTION	REQUIRED
1	41890	41890	41890	Retaining ring, shaft seal	1
2	41770	41770	41770	Seal retainer, steel	1
3j	41880	41880	41880	Quad ring shaft seal	1
4	41840	41840	41840	Collar, quad ring shaft seal	1
5j	41870	41870	41870	"O" ring, seal collar	1
6j	41860	41860	41860	"O" ring, seal retainer	1
7	41810	41810	41810	Backup washer, steel	1
8	41830	41830	41830	Bearing spacer, wire ring	1
9k	40161	40161	40161	Seal support spacer ("L" models)	1
10k	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
14jk	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	2
28	41750	41751	41755	Gear	2
29	42041	42041	42041	Valve cap, coasting check	1
30jk	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
35jk	42030	42030	42030	Thread seal, 3/8", needle valve	1
36	42010	42010	42010	Adjusting screw, needle valve	1
j	41371	41371	41371	Repair Kit, RK-BAC-75-HYD	--
k	41374	41374	41374	Repair Kit, RK-BAC-75-HYD-L	--

REF. #	PART NUMBER	DESCRIPTION	REQ.
1	BAC-53	Pipe plug, 1/8" NPT	3
1	41120	Pipe plug, 1/8" NPT, stainless steel (optional)	3
2	ACAL-12	Volute, 1 1/2" x 1 1/4", clockwise rotation	1
2	ACAL-12-EC	Volute, 1 1/2" x 1 1/4", clockwise rotation, e-coated (optional)	1
3	ACAL-28-660	Impeller, cast iron, 3/4" keyed shaft	1
3	ACAL-28-660-EC	Impeller, cast iron, 3/4" keyed shaft, e-coated (optional)	1
4	41081	Key, impeller, 3/16" x 3/16" x 3/4",	1
5①	BAC-7-660V	Seal, Type 6A-3/4, carbon/ceramic/Viton	1
5②	BAC-7SC-660V	Seal, Type 6A-3/4, silicon carbide/Viton	1
6①②	BAC-4-150	O-ring, volute seal	1
7	ACAL-66	Bracket, GE-660 keyed shaft	1
7	ACAL-66-EC	Bracket, GE-660 keyed shaft, e-coated (optional)	1
8	40950	Cap screw, 3/8" NC x 3/4" hex head	8
8	40930	Cap screw, 3/8"NC x 3/4", stainless steel (optional)	8
9	GE-54-660	Slinger	1
10	GE-60-SS	Cap screw, 5/16" NF x 3/4", stainless steel	5
11①②	30031	Washer, Stat-O-Seal®, 5/16" ID, impeller attachment	1
12①②	30028	Washer, sealing, 5/16" ID, bracket attachment	4
①	RK-GE-660	Repair kit	-
②	RK-GESC-660	Repair kit with silicon carbide shaft seal	-
*①②	30035	Threadlocker, removable	-

GE 660 LE

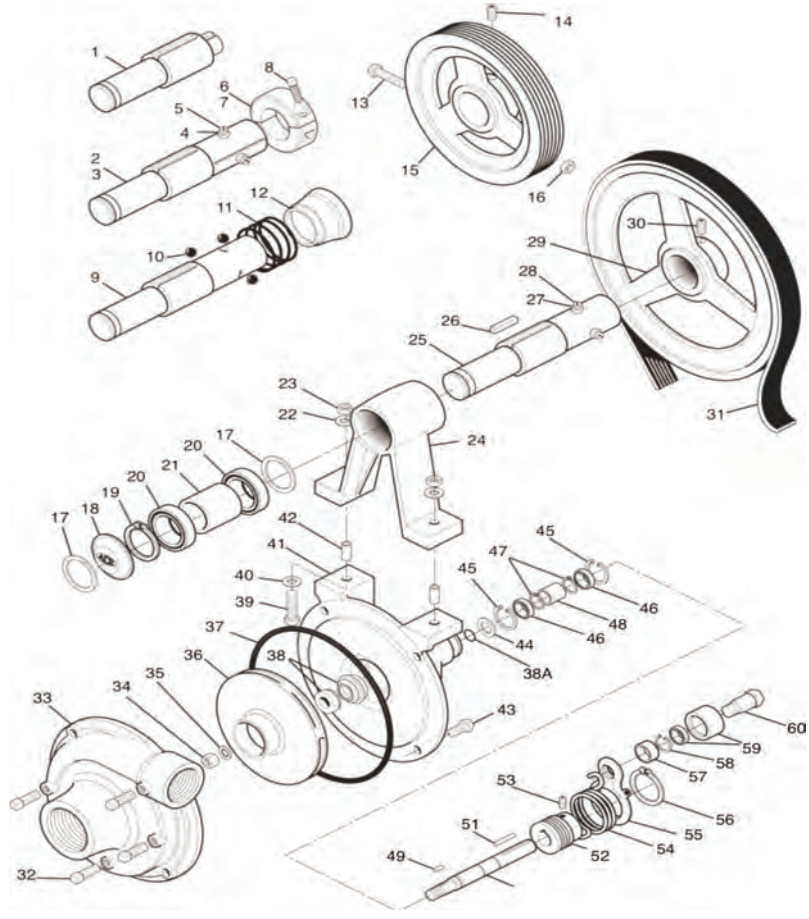


GE 85 LE



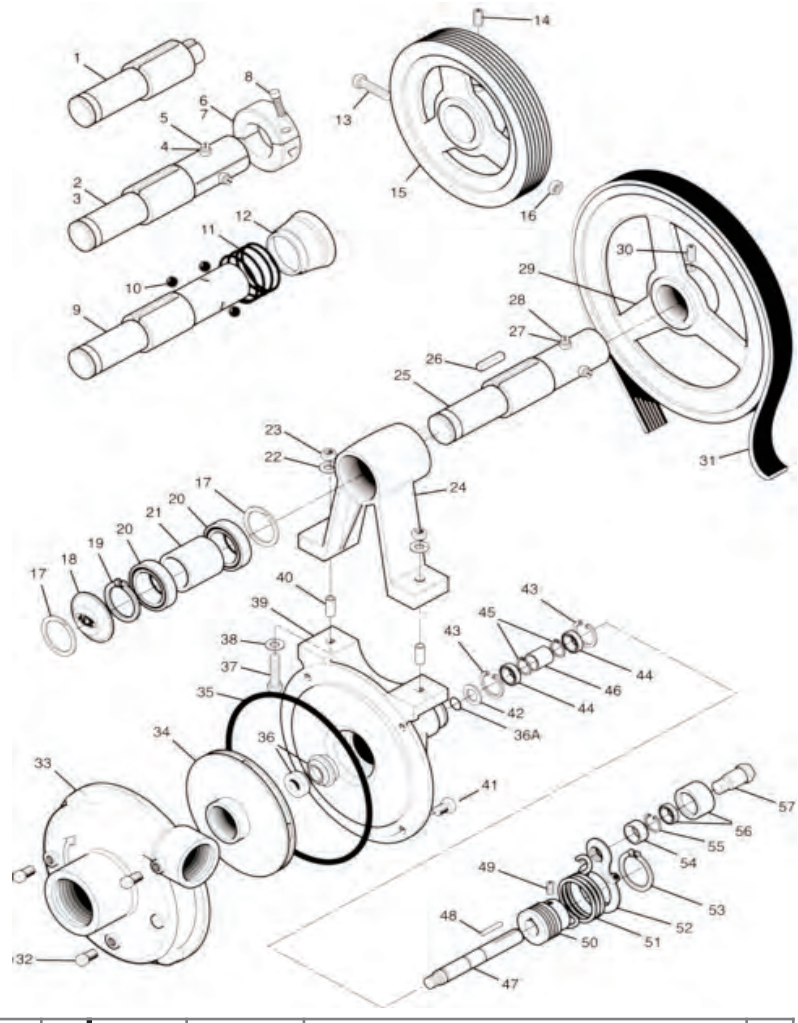
REF. #	PART NUMBER	DESCRIPTION	REQ.
1	BAC-53-P	Pipe plug, 1/8" NPT, plastic	1
2	80250	Cap screw, 3/8"-16 x 7/8", hex head	8
3	42701	Washer, 3/8" flat	8
4	GE-12-75	Volute, 3/4" x 1", polypropylene	1
5	GE-60-SS	Cap screw, 5/16"-NF x 3/4", hex, stainless steel	1
6jk	30028	Washer, sealing	5
7	GE-26-85	Impeller, with keyway, polypropylene	1
8	41082	Key, 3/16" x 3/16" x 15/16"	1
9j	BAC-7-660V	Seal, 3/4" , Viton® type rubber	1
9k	BAC-7SC-660V	Seal, 3/4" , Carbide/Ceramic/Viton® (optional)	1
10	42245	Cap screw, M8 x 60, stainless steel (GC-160)	4
10	42238	Cap screw, 5/16"NF x 2-1/4", (GX-160)	4
11jk	40159	O-ring, shaft seal, GE-85	1
12jk	40017	O-ring, volute seal, GE-85	1
13	GE-14-85	Bracket, GE-85, polypropylene	1
14	BAC-45	Nut, hex, 3/8"	8
15	GE-54-660	Slinger	1
j	RK-GE-85	Repair kit for GE-85	-
k	RK-GESC-85	Repair kit for GE-85, silicon carbide seal	-

PTOC 150-600
PTOC 150-1000



REF. #	PART #	REQ.	DESCRIPTION	REF. #	PART #	REQ.	DESCRIPTION
1	BAC-10-S	1	Shaft, 1" Tumblerod stub	36	BAC-26-150-P	1	Impeller, thermoplastic, with keyway
2	BAC-10-175-20SP	1	Shaft, 1-3/4" 20 Tooth PTO spline, includes #6	36	BAC-26-150-CI	1	Impeller, cast iron, with keyway(optional)
3	BAC-10-21SP	1	Shaft, 1-3/8" 21 Tooth PTO spline, includes #7	36	BAC-26-150-PI	1	Impeller, polypropylene, with keyway(optional)
4	40960	3	Nut, jam, 3/8" NC	37 j k l m	BAC-4-150	1	O-ring volute seal
5	BAC-40	3	Set screw, slotted, 3/8" NC	38 j k l	BAC-7V	1	Seal, Viton (includes 40160 "O" Ring)
6	BAC-11-175	1	Locking collar, split ring (for BAC-10-175-20SP shaft)	38 m	BAC-7SC	1	Seal, silicon carbide (includes 40160) (optional)
7	BAC-11	1	Locking collar, split ring (for BAC-10-21SP shaft)	38A j k l m	40160	1	O-ring for mechanical seal
8	BAC-11-1	1	Set screw (for BAC-11 and BAC-11-175 locking collar)	39	BAC-42	2	Cap screw, hex head, 3/8" NC x 2"
9	BAC-10-6SP-QC	1	Shaft, 1-3/8" 6 Tooth PTO spline, for quick coupler	40	BAC-43	2	Washer, flat, 3/8"
10	BAC-83-QC	3	Ball for quick coupler	41	BAC-14-150-MIA	1	Mounting frame, machined for idler arm
11	BAC-82-QC	1	Spring for quick coupler	42	BAC-15-PIN	2	Alignment pin
12	BAC-81-QC	1	Sleeve, ball retainer, for quick coupler	43	40930	4	Cap screw, hex head, 3/8" NC x 3/4", SS (optional)
13	41250	1	Cap screw, hex head, 5/16" NC x 3-1/4"	43	40950	4	Cap screw, hex head, 3/8" NC x 3/4"
14	41300	2	Set screw, allen head, 3/8" NC x 5/8"	44	BAC-54	1	Slinger
15	BAC-30-10-M-150	1	Pulley (for PTOC-150-1000-21SP)	45	BAC-33	2	Snap ring, internal
15	BAC-30-175-150	1	Pulley (for PTOC-150-1000-20SP)	46	BAC-37	2	Bearing, sealed
16	BAC-63	1	Nut, self locking, 5/16" NC, for tumblerod drive	47	BAC-32	2	Snap ring, externa
17	BAC-34	2	Snap ring, internal, BAC-15 bearing housing	48	BAC-32-S	1	Spacer for pump shaft
18	BAC-27	1	Name plate	49	BACH-25	1	Key, for impeller, 1/8" x 1/8" x 1/2"
19	BAC-35	1	Snap ring, external, BAC-10 drive shaft	50	BAC-6-150/200-SS	1	Shaft, 5/8", with keyway, SS
20	BAC-31-1	2	Bearing, sealed, BAC-10 drive shaft	51	BAC-50	1	Key, 3/16" x 3/16" x 1-1/4"
21	BAC-38-1	1	Spacer, BAC-10 shaft	52	BAC-29-10-1.35	1	Pulley (PTOC-150-600)
22	BAC-44	2	Washer, locking, 3/8"	52	BAC-29-10-1.7	1	Pulley (PTOC-150-1000)
23	BAC-45	2	Nut, hex, 3/8" NC	53	BAC-57	2	Set screw, allen head, 5/16" NC x 5/16"
24	BAC-15	1	Housing, PTO drive shaft bearing	54	BAC-5-150	1	Spring, idler mounted torsion
24	BAC-15-B	1	Housing	55	BAC-13	1	Idler arm
25	BAC-10-6SP	1	Shaft, 1-3/8" 6 Tooth PTO spline	56	BAC-36	1	Snap ring, externa
26	BAC-51	1	Key, 3/8" x 1/2" x 1-1/2", PTO drive shaft	57	BAC-46	1	Spacer, 5/8"
27	40960	3	Nut, jam, 3/8" NC	58	41070	1	Retainer ring
28	BAC-40	3	Set screw, slotted, 3/8" NC	59	BAC-55	1	Idler bearing and outer roller assembly
29	BAC-30-10-150	1	Pulley (for PTOC 150-600 RPM models)	60	BAC-47	1	Cap screw, hex head, 5/8" NC x 2-1/8"
30	41300	2	Set screw, allen head, 3/8" NC x 5/8"	#	BAC-52	1	Chain, 1/4" cold shut, torque chain anchor
31 j	BAC-28-10-150	1	Belt, Poly-V, 10 groove (for PTOC-150-600)	#	BAC-58	1	Zerk fitting, 1/4" NPT, for idler arm
31 k	BAC-28-10M-150	1	Belt, Poly-V, 10 groove (for PTOC-150-1000)	#	BAC-55-A	-	Idler arm assembly (includes 55 through 60 and BAC-58)
32	BAC-53	3	Pipe plug, 1/8" NPT	#	BGKB	-	Belt and shaft guard kit for all PTOC pumps
32	41120	3	Pipe plug, 1/8" NPT, stainless steel (optional)	j	RK-PTOC-150-600	-	Repair kit for 600 models, includes belt, seal, and O-ring
33	BAC-12-150	1	Volute, 1-1/2" x 1-1/4", cast iron	k	RK-PTOC-150-1000	-	Repair kit for 1000 RPM, includes belt, seal, and O-ring
34	BAC-23-A	1	Nut, lock, 3/8" NF hex, cad plated	l	RK-FMC-150	-	Repair kit for pump only, includes seal, and O-ring
34	BAC-23-B-SS	1	Nut, 3/8" NF, stainless steel (standard on -SS models)	m	RK-FMCSC-150	-	Repair kit for pump, includes silicon carbide seal, and O-ring
35 j k l m	BAC-24-HYD-SS	1	Washer, 3/8", stainless steel	#	FMC-150-MIA	-	Pump end only, machined to accept idler arm
35	BAC-24-B-SS	1	Washer, 3/8", SS, vibration proof (standard on -SS models)				

PTOC 600
PTOC 1000

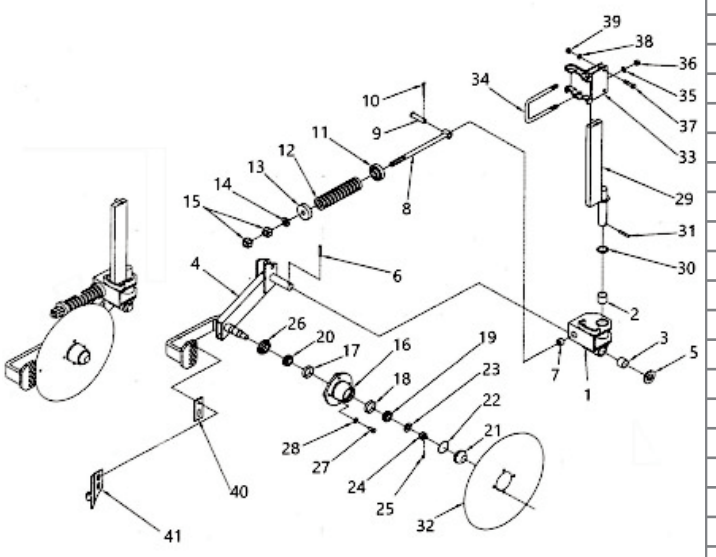


REF. #	PART #	DESCRIPTION	REQ.	REF. #	PART #	DESCRIPTION	REQ.
1	BAC-10-S	Shaft, 1" Tumblerod stub	1	34	BAC-26-CI	Impeller, cast Iron, left hand thread (optional)	1
2	BAC-10-175-20SP	Shaft, 1-3/4" 20 Tooth PTO spline, includes BAC-11-175	1	34	BAC-26-VALOX	Impeller, Valox, left hand thread	1
3	BAC-10-21SP	Shaft, 1 3/8" 21 Tooth PTO spline, includes BAC-11	1	35①②③④	BAC-4-A	O-ring, volute seal	1
4	40960	Nut, 3/8" NC, jam	3	36④	BAC-7SC	Seal, silicon carbide mechanical (includes 40160) (optional)	1
5	BAC-40	Set screw, 3/8" NC slotted	3	36①②③	BAC-7V	Seal, Viton, mechanical (includes 40160 O-ring)	1
6	BAC-11-175	Locking collar, split ring (for BAC-10-175-20SP shaft)	1	36A①②③④	40160	O-ring for mechanical seal	1
7	BAC-11	Locking collar, split ring (for BAC-10-21SP shaft)	1	37	BAC-42	Cap screw, 3/8" NC x 2" hex head	2
8	BAC-11-1	Set screw (for BAC-11 and BAC-11-175 locking collar)	1	38	BAC-43	Washer, 3/8" flat	2
9	BAC-10-6SP-QC	Shaft, 1-3/8" 6 Tooth PTO spline, for quick coupler	1	39	BAC-14-MIA	Mounting frame, machined for idler arm	1
10	BAC-83-QC	Ball for quick coupler	3	40	BAC-15-PIN	Alignment pin	2
11	BAC-82-QC	Spring for quick coupler	1	41	40950	Cap screw, 3/8" NC x 3/4" hex head	4
12	BAC-81-QC	Ball retainer sleeve for quick coupler	1	41	40930	Cap screw, 3/8" NC x 3/4" hex head, stainless steel (optional)	4
13	41250	Cap screw, 5/16" NC x 3-1/4", hex head	1	42	BAC-54	Slinger	1
14	41300	Set screw, 3/8" NC x 5/8", allen head	2	43	BAC-33	Snap ring, internal, for mounting frame	2
15	BAC-30-10-M	Pulley, 6.375" P.D. x 2" Bore, Poly-V (for PTOC-1000-21SP & -B)	1	44	BAC-37	Bearing, sealed, for pump shaft	2
15	BAC-30-175	Pulley, 6.375" P.D x 2-3/8" Bore, Poly-V (for PTOC-1000-20SP)	1	45	BAC-32	Snap ring, external, for driven pump shaft	2
16	BAC-63	Nut, 5/16" NC, self locking, for tumblerod drive	1	46	BAC-32-S	Spacer for pump shaft	1
17	BAC-34	Snap ring, internal, BAC-15 bearing housing	2	47	BAC-6-SS	Shaft, 5/8", left hand course thread, stainless steel	1
18	BAC-27	Name plate	1	48	BAC-50	Key, 3/16" x 3/16" x 1-1/4"	1
19	BAC-35	Snap ring, external, BAC-10 drive shaft	1	49	BAC-57	Cap screw, 5/16" NC x 5/16" allen head, for BAC-29-10 pulley	2
20	BAC-31-1	Bearing, sealed, BAC-10 drive shaft	2	50	BAC-29-10-1.50	Pulley, 1.5" P.D. x 5/8" bore, Poly-V, 10 groove	1
21	BAC-38-1	Spacer, bearing, BAC-10 shaft	1	51	BAC-5	Spring, idler mounted torsion	1
22	BAC-44	Washer, 3/8" locking	2	52	BAC-13	Idler arm	1
23	BAC-45	Nut, hex, 3/8" NC	2	53	BAC-36	Snap ring, external, BAC-13 idler arm	1
24	BAC-15	Housing, PTO drive shaft bearing housing	1	54	BAC-46	Spacer, 5/8"	1
24	BAC-15-B	Housing, tumblerod drive shaft bearing housing with mounting base	1	55	41070	Retainer ring	1
25	BAC-10-6SP	Shaft, 1-3/8" 6 Tooth PTO spline drive	1	56	BAC-55	Idler bearing and outer roller assembly	1
26	BAC-51	Shaft, 3/8" x 1/2" x 1-1/2" key, PTO drive shaft	1	57	BAC-47	Cap screw, 5/8" NC x 2 1/8" hex head idler	1
27	40960	Nut, jam, 3/8" NC	3	#	BAC-52	Chain, 1/4" cold shut, torque anchor	1
28	BAC-40	Set screw, 3/8" NC, slotted	3	#	BAC-58	Zerk fitting, 1/4" NPT, for idler arm	1
29	BAC-30-10	Pulley, 10.6" P.D. x 2" bore Poly-V pulley, 10 groove (for PTOC-600)	1	#	BAC-55-A	Idler arm assembly (includes 52 through 57 and BAC-58)	-
30	41300	Set screw, 3/8" NC x 5/8", allen head	2	#	BGKB	Belt and shaft guard kit for all PTOC pumps	-
31①	BAC-28-10	Belt, Poly-V, 10 groove (for PTOC-600)	1	①	RK-PTOC-600	Repair kit for 600 RPM models, includes belt, seal, and O-ring	-
31②	BAC-28-10-M	Belt, Poly-V, 10 groove (for PTOC-1000)	1	②	RK-PTOC-1000	Repair kit for 1000 RPM, includes belt, seal, and O-ring	-
32	BAC-53	Pipe plug, 1/8" NPT	3	③	RK-FMC	Repair kit for pump only, includes seal, and O-ring	-
32	41120	Pipe plug, 1/8" NPT, stainless steel (optional)	3	④	RK-FMCSC	Repair kit for pump only, includes silicon carbide seal, and O-ring	-
33	BAC-12	Volute 1-1/4" x 1", cast iron	1	#	FMC-MIA	Pump end only, machined to accept idler arm	-

AG 37 GEN II Coulter

ITEM	QTY	PART NO	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
N/S	-	AS47109570	MAIN BRACKET & HUB W/O BLADE (ITEMS 1-21)	20	4	AS18891400	LOCK WASHER, 1/2 ID
1	1	AS47309570	MAIN BRACKET	21	4	AS18057522	WHEEL BOLT, 1/2-20NF X 1
2	2	AS18901805	GREASE ZERK	22	1	2571076B	20" RIPPLED COULTER BLADE
3	4	AS18407900	HEX NUT 5/8-11NC	23	1	AS47303811	COULTER SWIVEL BAR, 18"
4	2	AS47301530	SPRING CAP	24	1	AS18511032	ROLL PIN, 1/4 X 2-1/4
5	2	AS47301524	COMPRESSION SPRING	25	1	AS47309893	MOUNTING BRACKET
6	2	AS47301547	EYE BOLT, SPRING	26	1	AS47006951	U-BOLT, 5/8-11NC (4 X 6 BAR)
7	2	AS18541428	CLEVIS PIN, 1/2 X 1-3/4			AS47001616	U-BOLT, 5/8-11NC (4 X 4 BAR)
8	2	AS18560722	COTTER PIN, 5/32 X 1	27	2	AS18891600	LOCK WASHER, 5/8
9	1	AS47300351	HUB W/ RACES (ITEM 9-11)	28	2	AS18417900	HEX NUT, 5/8-11NC
		AS47300350	COMPLETE HUB W/O SEAL & BOLTS (ITEMS 9-15)	29	2	AS18057434	BOLT, 1/2-13NC X 2-1/2
10	1	AS47005510	INNER RACE	30	2	AS18891400	LOCK WASHER, 1/2
11	1	AS47005010	OUTER RACE	31	2	AS18417400	HEX NUT, 1/2-13NC
12	1	AS47005048	OUTER BEARING	32	1	AS47306661	SHIM, 1/4
13	1	AS47005548	INNER BEARING			AS47306662	SHIM, 1/8
14	1	AS47005513	DUST CAP			AS47306663	SHIM, 1/16
15	1	AS47990351	DUST CAP O-RING	33	2	AS18057432	BOLT, 1/2-13NC X 2-1/4
16	1	AS47300352	SPINDLE WASHER	34	2	AS18811400	FLATWASHER, 1/2
17	1	AS47300353	SLOTTED NUT, 7/8-14UNF	35	2	AS18891400	LOCK WASHER, 1/2
18	1	AS18560726	COTTER PIN, 5/32 X 1-1/2	36	2	AS18417400	HEX NUT, 1/2-13NC
19	1	AS40030326	GREASE SEAL	37	1	AS47309038	NOZZLE BRACKET

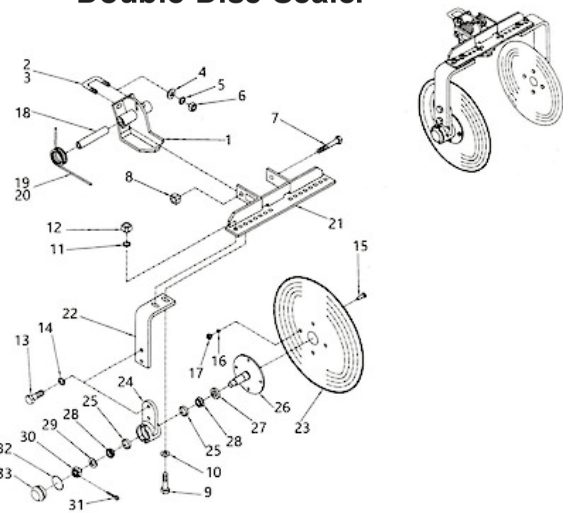
AG 37 GEN III Coulter



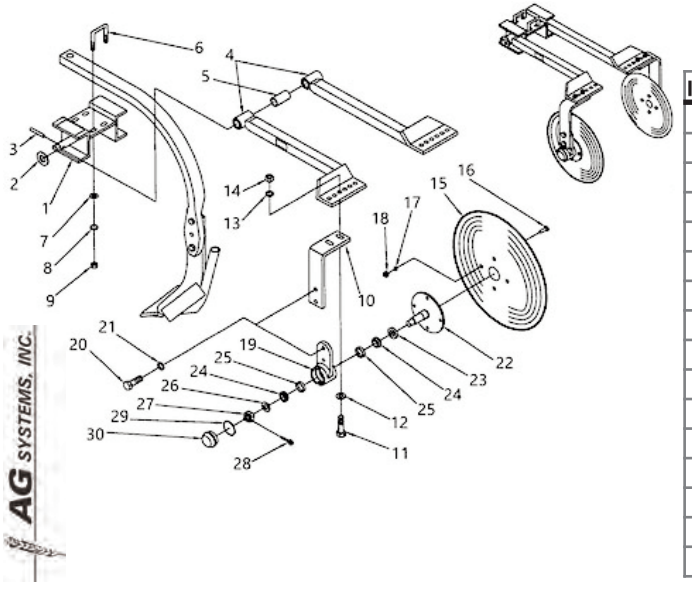
ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
N/S	1	AS40350000	MAIN BRACKET & HUB W/O BLADE (ITEMS 1-31)	22	1	AS47990351	DUST CAP O-RING
1	1	AS47004500	HOUSING W/ BUSHINGS	23	1	AS47300352	SPINDLE WASHER
2	2	AS47009954	SWIVEL BUSHING, 1-1/2 ID	24	1	AS47300353	SLOTTED NUT, 7/8-14UNF
3	2	AS47009953	PIVOT BUSHING, 1-3/8 ID	25	1	AS18540726	COTTER PIN, 5/32 X 1-1/2
4	1	AS47004507	PIVOT ARM	26	1	AS40030326	GREASE SEAL
5	1	AS18300326	RETAINING WASHER, 1-3/8 ID	27	4	AS18057522	WHEEL BOLT, 1/2-20NF X 1
6	1	AS18511035	EXPANSION PIN, 3/8 X 2	28	4	AS18891400	LOCK WASHER, 1/2 ID
7	1	AS26668	EYE BOLT GUIDE	29	1	AS47304522	COULTER SWIVEL BAR, 18"
8	1	AS47004518	SPRING EYE BOLT	30	1	AS18300323	RETAINING WASHER, 1-1/2 ID
9	1	AS18541835	CLEVIS PIN, 3/4 X 2-1/2	31	1	AS18511036	EXPANSION PIN, 3/8 X 2-1/4
10	1	AS18560726	COTTER PIN, 5/32 X 1-1/2	32	1	2571076B	20" RIPPLED COULTER BLADE
11	1	AS47004521	SPRING CAP W/ COUNTER BORE	33	1	AS47309893	MOUNTING BRACKET
12	1	AS47007565	COMPRESSION SPRING	34	1	AS47006951	U-BOLT, 5/8-11NC (4 X 6 BAR)
13	1	AS47007085	SPRING CAP			AS47001616	U-BOLT, 5/8-11NC (4 X 4 BAR)
14	1	AS18851800	FLAT WASHER, 3/4	35	1	AS18891600	LOCK WASHER, 5/8
15	5	AS18446890	HEX NUT, 3/4-10NC	36	1	AS18417900	HEX NUT, 5/8-11NC
16	1	AS47300351	HUB W/ RACES (ITEMS 16-18)	37	1	AS18057434	BOLT, 1/2-13 X 2-1/2
		AS47300350	COMPLETE HUB W/O SEAL & BOLTS (ITEMS 16-22)	38	1	AS18891400	LOCK WASHER, 1/2 ID
17	1	AS47005510	INNER RACE	39	1	AS18417400	HEX NUT, 1/2-13NC
18	1	AS47005010	OUTER RACE	40	1	AS47306661	SHIM, 1/4
19	1	AS47005048	OUTER BEARING			AS47306662	SHIM, 1/8
20	1	AS47005548	INNER BEARING			AS47306663	SHIM, 1/16
21	1	AS47005513	DUST CAP	41	1	AS47309038	NOZZLE BRACKET

ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
1	1	AS47019325	MOUNTING BRACKET (18" BLADES)	20	1	AS47009327	TORSION SPRING, R.H. (18" BLADE)
		AS47008367	MOUNTING BRACKET (13" BLADES)			AS47008376	TORSION SPRING, L.H. (13" BLADE)
2	2	AS47008396	U-BOLT, 1/2-13NC FOR 2" SHANK	21	1	AS47009317	DISK ARM FRAME (18" BLADE)
3	2	AS47008397	U-BOLT, 1/2-13NC FOR 1-1/4" SHANK			AS47019309	DISK ARM FRAME (13" BLADE)
4	4	AS18811400	FLAT WASHER, 1/2	22	2	AS47009621	DISK ARM (18" BLADE)
5	4	AS18891400	LOCK WASHER, 1/2			AS47019620	DISK ARM (13" BLADE)
6	4	AS18417400	HEX NUT, 1/2-13NC	23	2	AS44501810	18" SMOOTH DISC BLADE
7	1	AS18057956	BOLT, 5/8-11NC X 5-1/2			AS44501310	13" SMOOTH DISC BLADE
8	1	AS18457900	HEX LOCKNUT, 5/8-11NC	24	2	AS47009558	HUB W/ RACES (ITEMS 24-25)
9	4	AS18057430	BOLT, 1/2-13NC X 2			AS47109558	COMPLETE HUB ASSEMBLY (ITEMS 24-33)
10	4	AS18811400	FLAT WASHER, 1/2	25	4	ASBN10658	RACE
11	4	AS18891400	LOCK WASHER, 1/2	26	2	AS47009328	SPINDLE W/ FLANGE
12	4	AS18417400	HEX NUT, 1/2-13NC	27	2	AS40030325	GREASE SEAL
13	4	AS18057523	BOLT, 1/2-20NF X 1-1/4	28	4	ASBN10659	BEARING
14	4	AS18891400	LOCK WASHER, 1/2	29	2	AS18841800	FLAT WASHER, 3/4SAE (1-1/2 OD)
15	8	AS18176450	CARRIAGE BOLT, 3/8-16NC X 1	30	2	AS18488600	SLOTTED NUT, 3/4-16NF
16	8	AS18891200	LOCK WASHER, 3/8	31	2	AS18560722	COTTER PIN, 5/32 X 1
17	8	AS18436800	HEX NUT, 3/8-16NC	32	2	AS47999558	DUST CAP O-RING
18	1	AS47009320	INNER BUSHING (18" BLADE)	33	2	AS47005911	DUST CAP
		AS47009340	INNER BUSHING (13" BLADE)				
19	1	AS47009326	TORSION SPRING, L.H. (18" BLADE)				
		AS47008375	TORSION SPRING, L.H. (13" BLADE)				

13” & 18” Spring Loaded Double Disc Sealer



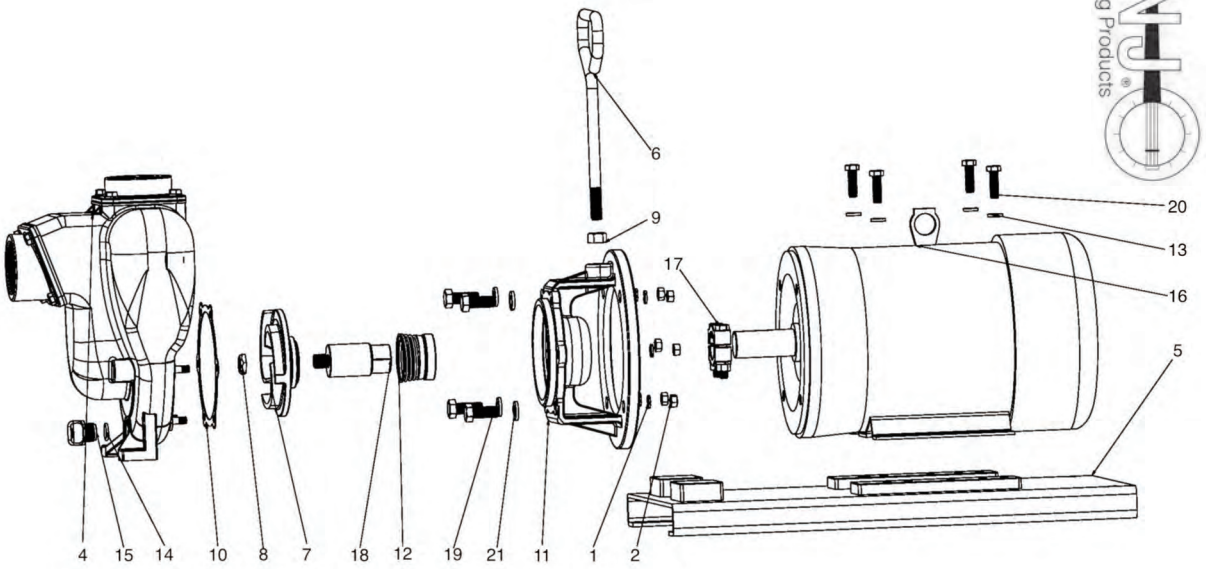
18”Floating Arm Double Disc Sealer



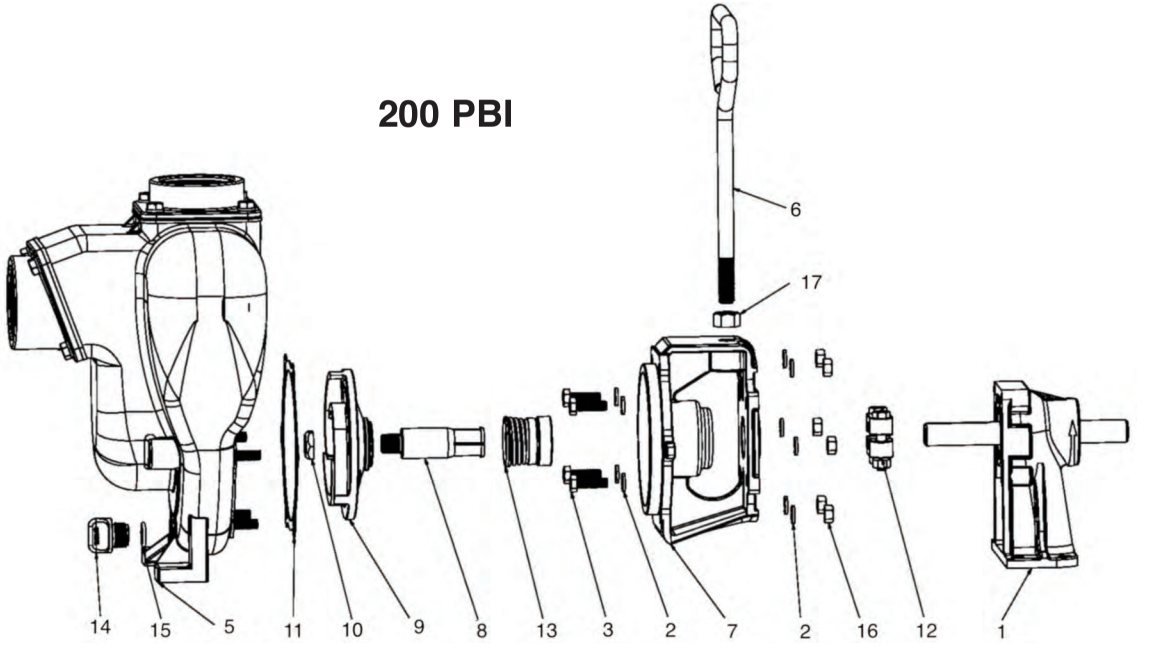
ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
1	1	AS47004693	MOUNTING BRACKET	16	8	AS18176450	CARRIAGE BOLT, 3/8-16NC X 1
2	2	AS18852200	FLAT WASHER, 1 SAE	17	8	AS18891200	LOCK WASHER, 3/8
3	2	AS18511036	EXPANSION PIN, 3/8 X 2-1/4	18	8	AS18436800	HEX NUT, 3/8-16NC
4	1	AS47004697	PIVOT ARM, L.H. (INCLUDES ITEM 5)	19	2	AS47009558	HUB W/ RACES (ITEMS 19 & 25)
		AS47004698	PIVOT ARM, R.H. (INCLUDES ITEM 5)			AS47109558	COMPLETE HUB (ITEMS 19-30)
5	2	AS47009952	FIBER BUSHING, 1 X 2-1/2	20	4	AS18057523	BOLT, 1/2-20NF X 1-1/4
6	2	AS47008396	U-BOLT, 1/2-13NC (2" SHANK)	21	4	AS18891400	LOCK WASHER, 1/2
7	4	AS18811400	FLAT WASHER, 1/2	22	2	AS47009328	SPINDLE WITH FLANGE
8	4	AS18891400	LOCK WASHER, 1/2	23	2	AS40030325	GREASE SEAL
9	4	AS18417400	HEX NUT, 1/2-13NC	24	4	ASBN10659	BEARING
10	2	AS47009621	DISC ARM	25	4	ASBN10658	RACE
11	4	AS18057430	BOLT, 1/2-13NC	26	2	AS18841800	FLAT WASHER, 3/4 SAE (1-/2 OD)
12	4	AS18811400	FLAT WASHER, 1/2	27	2	AS18488600	SLOTTED NUT, 3/4-16NF
13	4	AS18891400	LOCK WASHER, 1/2	28	2	AS18560722	COTTER PIN, 5/32 X 1
14	4	AS18417400	HEX NUT, 1/2-13NC	29	2	AS47999558	DUST CAP O-RING
15	2	AS44501810	SMOOTH DISC BLADE	30	2	AS47005911	DUST CAP

ITEM	QTY	PART NUMBER	DESCRIPTION
1	6	V10118	5/16" LOCKWASHER
2	6	V10119	5/16" HEX NUT
3	1	12910	DECAL (NOT SHOWN)
4	1	17026	2" PUMP HOUSING ASSY
5	1	17701	BASE PLATE
6	1	15022	2" PUMP HANDLE
7	1	17408	PUMP IMPELLER
8	1	17009B	5/8-18 IMPELLER NUT
9	1	17010	1/2-13 HEX NUT
10	1	17018	PUMP ADAPTER GASKET
11	1	17446	ELEC. MTR ADAPTER
12	1	18025	MECH. SEAL ASSY
13	4	V20018	3/8" LOCKWASHER
14	1	UV15163	2-114 O-RING
15	1	12777	1/2" DRAIN PLUG
16	1	BEM5	5 HP MOTOR, 3 PHASE
17	1	18129	KEYED CLAMP ASSY
18	1	17406	ADAPTER SHAFT
19	4	17449	1/2-13 X 1-1/4" HHCS
20	4	17704	3/8-16 X 1-1/4" HHCS
21	4	18058	1/2" LOCKWASHER

234 PIE 5

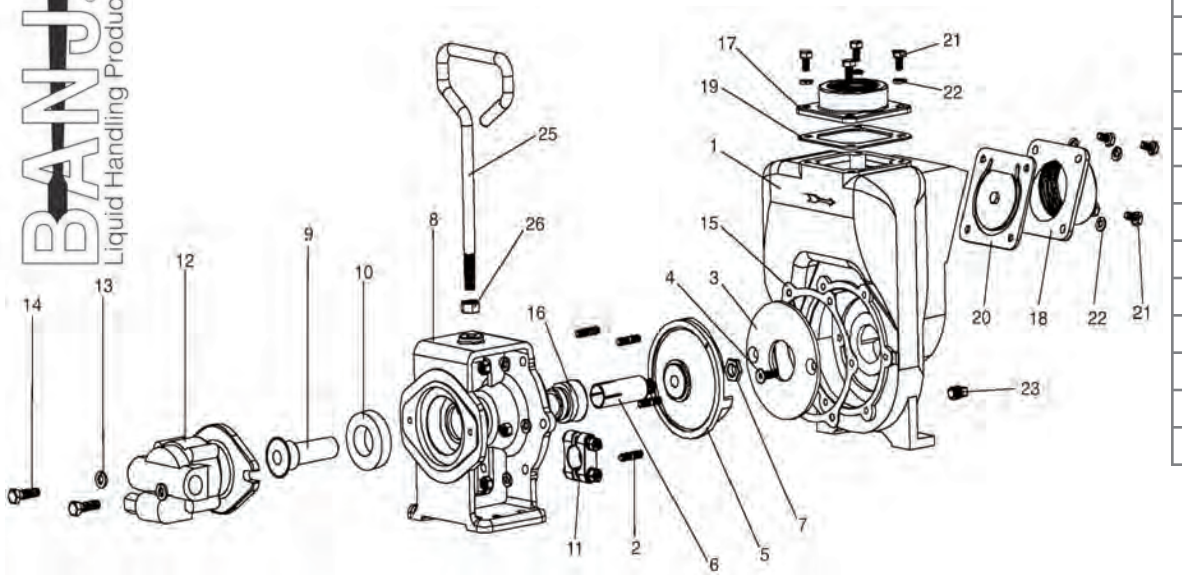


200 PBI



ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	12882A	BEARING PEDESTAL
2	10	V10118	5/16" LOCKWASHER
3	4	17040	5/16-24 X 1" HHSS
4	1	12910	DECAL (NOT SHOWN)
5	1	17026	2" PUMP HOUSING ASSY
6	1	15022	2" PUMP HANDLE
7	1	17004	GAS ENGINE ADAPTER
8	1	17006	ADAPTER SHAFT
9	1	17008	PUMP IMPELLER
10	1	17009B	5/8-18 IMPELLER NUT
11	1	17018	PUMP ADAPTER GASKET
12	1	17123	CI PUMP KEYED CLAMP
13	1	17035	MECH. SEAL ASSY
14	1	12777	1/2" DRAIN PLUG
15	1	UV15163	2-114 O-RING
16	6	V10119	5/16" HEX NUT
17	1	17010	1/2-13 HEX NUT

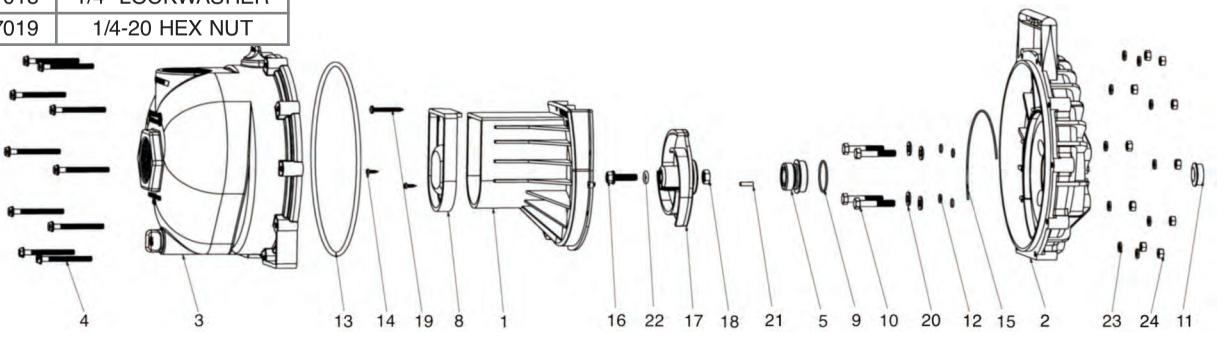
200 PI HY



ITEM	QTY	PART NO	DESCRIPTION	ITEM	QTY	PART NO	DESCRIPTION
1	1	17026	PUMP HOUSING	14	2	18010SS	3/8-16 X 1-1/4" HHCS
2	6	17042	PUMP HOUSING STUD	15	1	17018	ADAPTER GASKET
3	1	17011	WEAR PLATE	16	1	17035	MECH SEAL ASSY
4	2	17130	5/16-18 X 1" CAP-SCREW	17	1	17000	OUTLET FLANGE, 2"
5	1	17008	IMPELLER	18	1	17002	INLET FLANGE, 2"
6	1	17007	7/8" SLEEVE	19	1	17013	GASKET, EPDM
7	1	17009B	IMPELLER NUT	20	1	17016	CHECKVALVE GASKET
8	1	17049A	2" HYD ADAPTER	21	8	17019	5/16-18 X 3/4" CAP-SCREW
9	1	17055A	2" HYD ADAPTER SHAFT	22	14	V10118	5/16" LOCKWASHER
10	1	17056	BEARING	23	1	17032	1/4" DRAINPLUG
11	1	17024	7/8" CLAMP ASSY	24	6	V10119	5/16-18 HEX NUT
12	1	HY1013	HYD MOTOR ASSY	25	1	15022	HANDLE
13	2	V20118	3/8" LOCKWASHER	26	1	17010	1/2-13UNF-RH HEX NUT

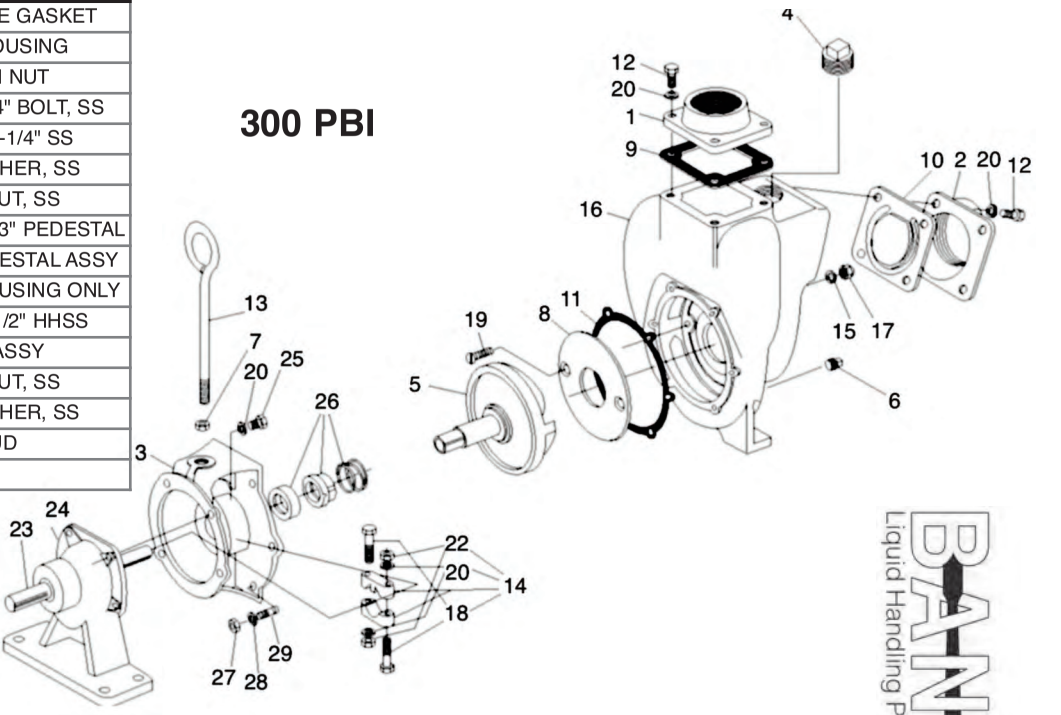
ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
1	1	12702A	2" POLY PUMP VOLUTE	14	2	12725	#6 X 1/2" PPH SMS
2	1	12703A	POLY PUMP REAR BRACKET	15	1	12754	O-RING SEGMENT
3	1	12712AP	2" POLY PUMP BODY	16	1	12765A	5/16-24 X 1-1/8" HFS
4	2	12720	1/4-20 V 2-1/2" HWHS	17	1	12771A	IMPELLER
5	1	12733	MECH SEAL ASSY	18	1	12775A	7/16-14 HEX NUT
8	1	12705	PUMP CHECK VALVE, EPDM	19	1	12900	#10 X 1-1/2" PPH SMS
9	1	12710	#029 O-RING	20	4	12901	5/16" FLAT WASHER
10	4	12715A	5/16-24 X 1-3/4" HHCS	21	1	12902A	3/16" SQ. X 5/8" KEY
11	1	12716	PUMP SLINGER	22	1	A204	#204 O-RING, EPDM
12	4	12717	#11 O-RING, EPDM	23	2	V07018	1/4" LOCKWASHER
13	1	12719A	#375 O-RING, EPDM	24	2	V07019	1/4-20 HEX NUT

200 PO

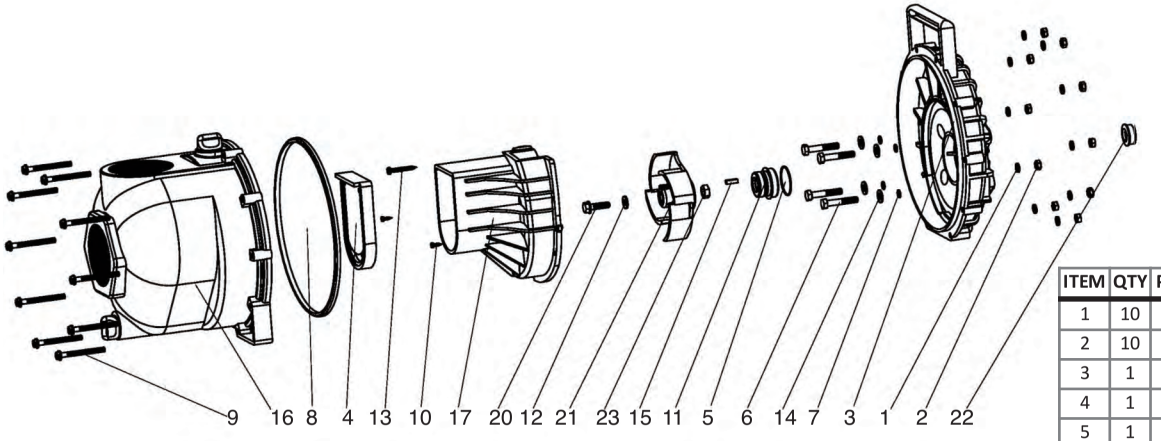


ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	18008	OUTLET FLANGE, 3"	15	18005	WEAR PLATE GASKET
2	18012	INLET FLANGE, 3"	16	18001	PUMP HOUSING
3	18026	ADAPTER, GAS ENGINE	17	18007	ACORN NUT
3	18048	3" C-FLANGE ADAPTER	18	18030	3/8-24 X 2-1/4" BOLT, SS
4	18002	PLUG 1"	19	18006	3/8-16 X 1-1/4" SS
5	18023	IMP. DRIVE SLEEVE ASSY, 1" SHAFT	20	V20018	LOCKWASHER, SS
5	18023-1.125	IMP. DRIVE SLEEVE ASSY, 1-1/8" SHAFT	22	18032	3/8-24 NUT, SS
6	18003	DRAIN PLUG 1/4" NPT	23	18504	1" SHAFT FOR 3" PEDESTAL
7	18034	NUT, 5/8-11 SS	24	18500	BEARING PEDESTAL ASSY
8	18004	WEAR PLATE	24	18501	PEDESTAL HOUSING ONLY
9	18009	OUTLET GASKET, EPDM	25	18027	3/8-16 X 1-1/2" HHSS
10	18013	CHECK VALVE GASKET, EPDM	26	18025	SEAL ASSY
11	18021	ADAPTER GASKET	27	18032	3/8-24 NUT, SS
12	18010	3/8-16 X 1-1/8" HHSS	28	V20018	LOCKWASHER, SS
13	18033	HANDLE	29	18018	STUD
14	18029	CLAMP ASSY			

300 PBI



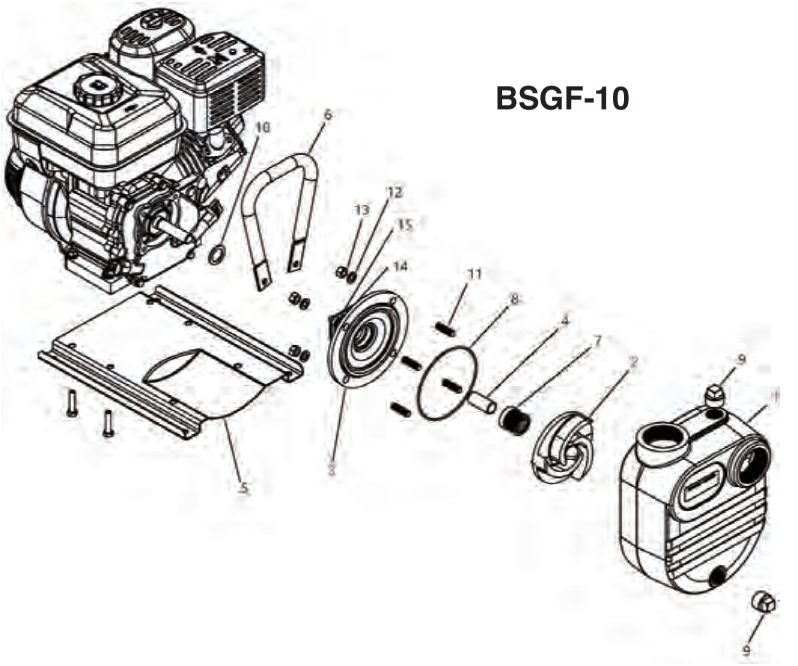
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ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
1	10	V07018	1/4" LOCKWASHER	12	1	12774VA	IMPELLER BOLT GASKET
2	10	V07019	1/4" HEX NUT	13	1	12900	#10 X 1 1/2" PPH SMS
3	1	12703A	POLY PUMP REAR BRKT	14	4	12901	5/16" FLAT WASHER
4	1	12705	CHECK VALVE	15	1	12902A	KEY
5	1	12710	O-RING	16	1	13712	3" POLY VOLUTE
6	4	12715A	5/16 X 1 3/4 HHCS	17	1	13702	3" PUMP BODY ASSY
7	4	12717	O-RING FOR SCREW	18	1	12754	O-RING SEGMENT (NOT SHOWN)
8	1	12719A	PUMP BODY O-RING	20	1	12765A	5/16 X 1 1/8 HFS
9	10	12720	BODY SCREW	21	1	13771	3" POLY SLINGER
10	2	12725	#6 X 1/2 PPH SMS	22	1	12716	SLINGER
11	1	12733	SEAL ASSY	23	1	12775A	7/16-14 HEX NUT

MONARCH INDUSTRIES

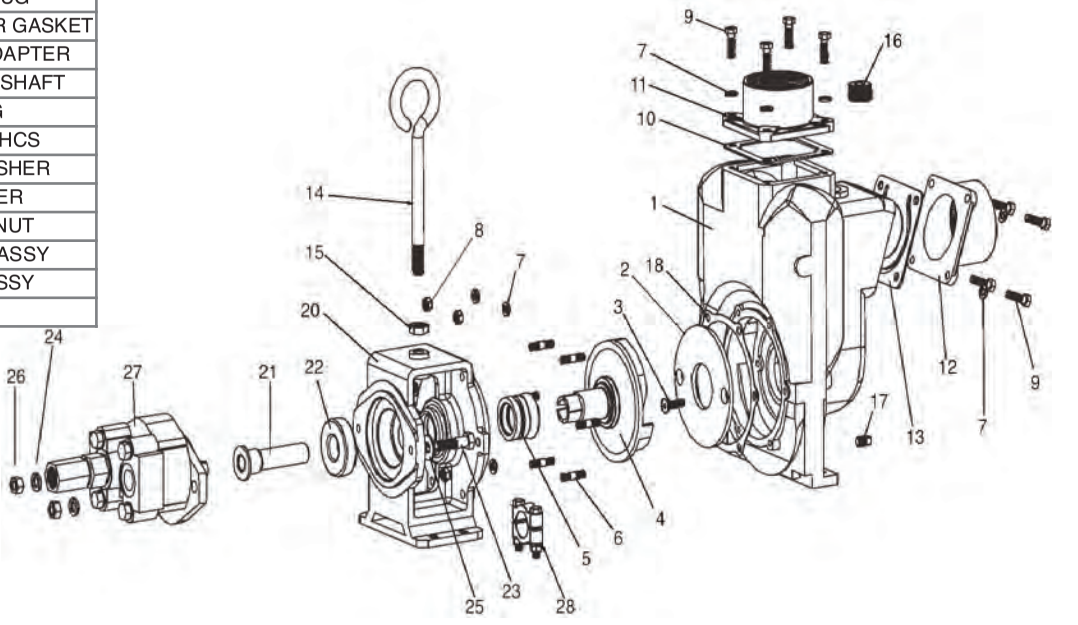
BSGF-10



ITEM	PART NO.	DESCRIPTION
1	305460001	PUMP CASE
2	305460004	IMPELLER
3	305460007	MOTOR ADAPTER
4	305458010	SHAFT SEAL SLEEVE
5	305459015	ENGINE FRAME BASE
6	305460010	PUMP HANDLE (BRIGGS)
	305460009	PUMP HANDLE (HONDA)
7	305463116	MECHANICAL SHAFT SEAL
8	305463125	CASE O-RING
9	305463050	PIPE PLUG
10	305458022	WATER
11	305463129	VOLUTE STUD
12	305463032	VOLUTE LOCKWASHER
13	305463033	VOLUTE HEX NUT
14	305463128	BRACKET HEX BOLT
15	305463127	BRACKET LOCKWASHER

ITEM	QTY	PART NO	DESCRIPTION	ITEM	QTY	PART NO	DESCRIPTION
1	1	18001	PUMP HOUSING	15	1	18034	5/8-11 HEX NUT
2	1	18004	WEAR PLATE	16	1	18002	1" NPT PLUG
3	2	18106	3/8-16 X 1-1/4" HHCS	17	1	18003	1/2" NPT PLUG
4	1	18023	IMPELLER	18	1	18021	3" PUMP ADAPTER GASKET
5	1	18025	MECH SEAL ASSY	20	1	18049	HYD MOTOR ADAPTER
6	6	18018	PUMP HOUSING STUD	21	1	18055	HYD ADAPTER SHAFT
7	14	V20018	3/8" LOCKWASHER	22	1	18502	BEARING
8	6	18032	3/8-24 HEX NUT	23	2	18056	1/2-13 X 2" HHCS
9	8	18010SS	3/8-16 X 1-1/4" HHCS	24	2	18058	1/2" LOCKWASHER
10	1	18009	OUTLET GASKET, EPDM	25	2	18059	1/2" WASHER
11	1	18008	OUTLET FLANGE	26	2	17010	1/2-13 HEX NUT
12	1	18012	3" INLET FLANGE	27	1	HY1012	HYD MOTOR ASSY
13	1	18013	INLET CHECK VALVE, EPDM	28	1	18029	3" CLAMP ASSY
14	1	18033	PUMP HANDLE				

300 PI HY

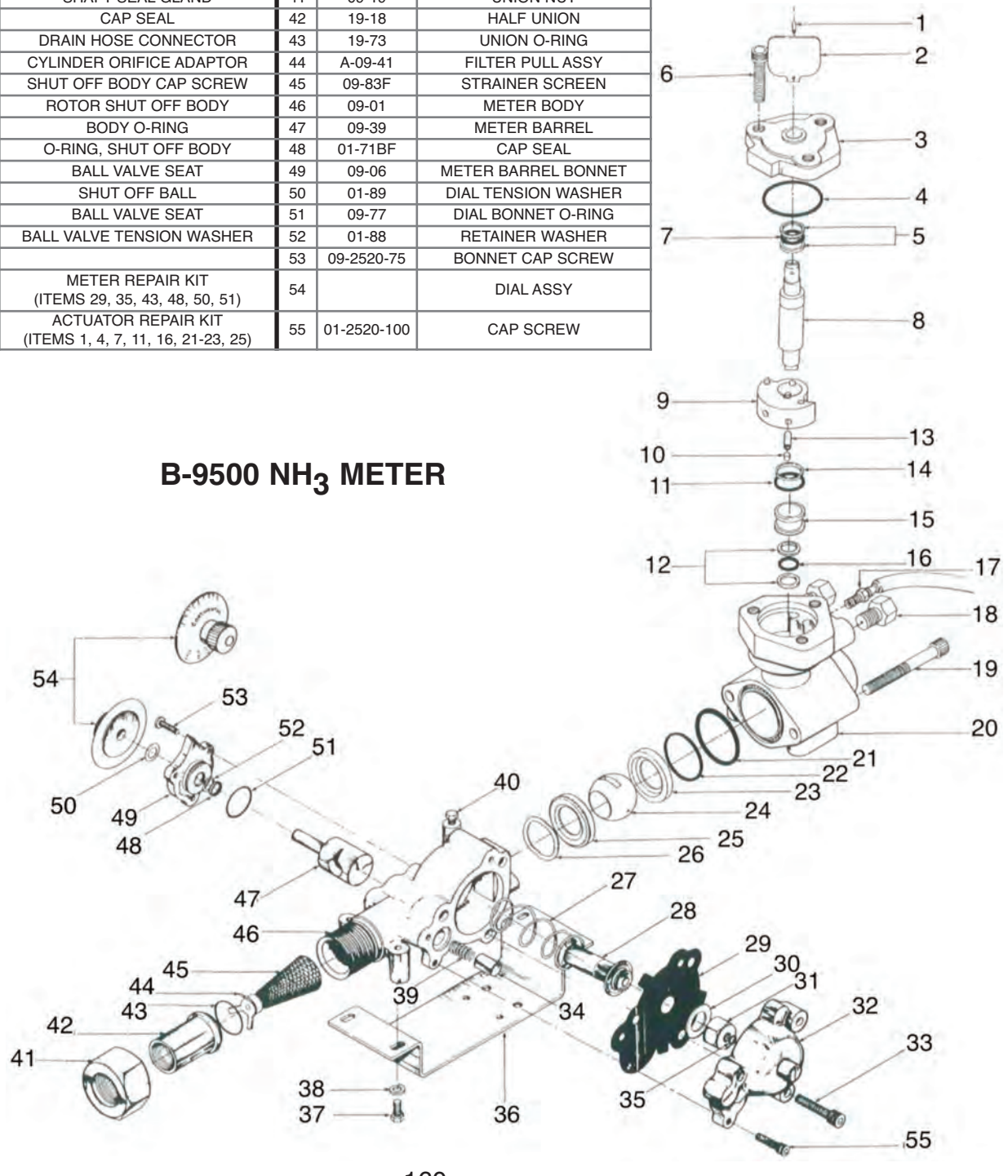


BANJO Liquid Handling Products

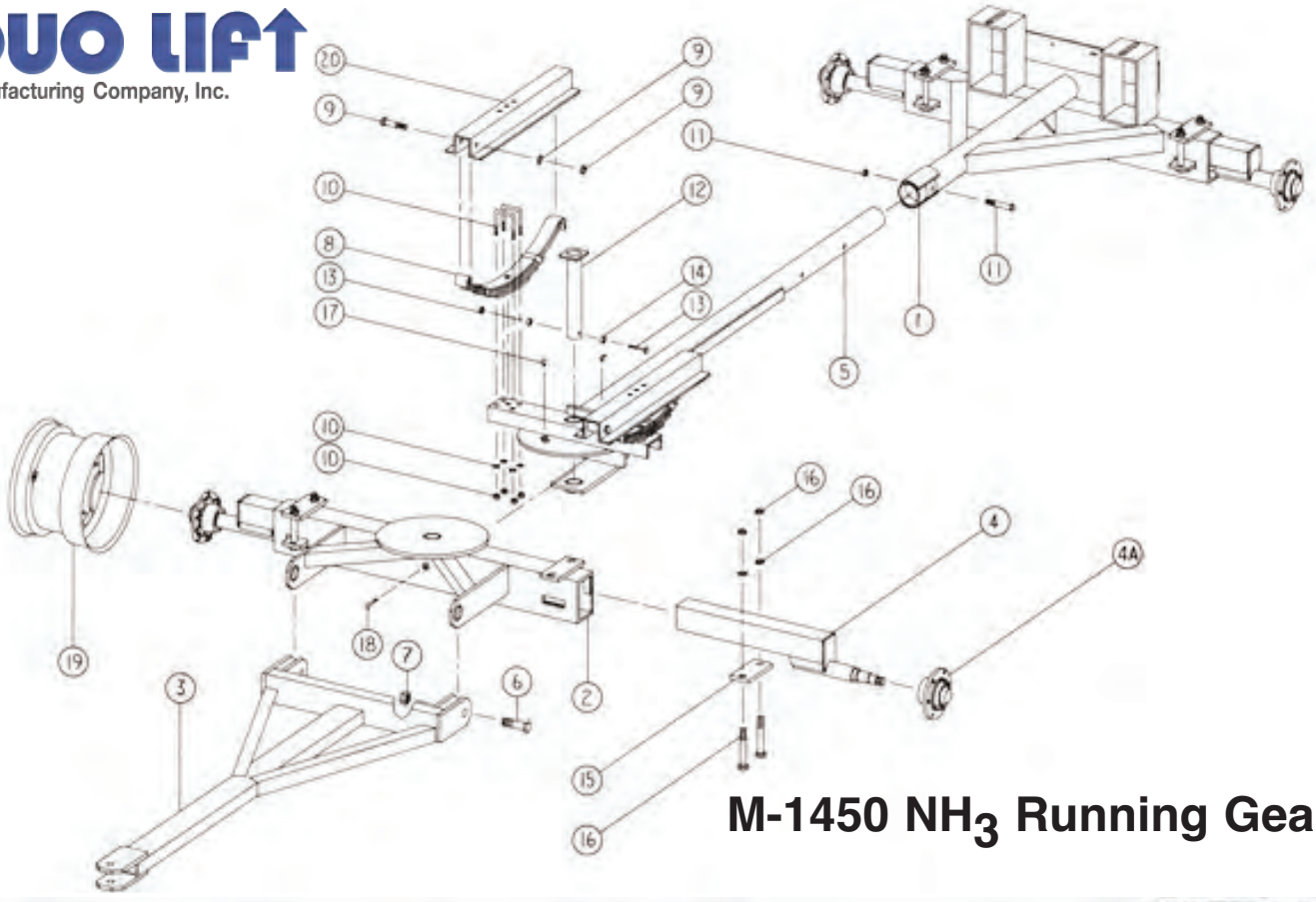
ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	01-94F	FLAG LOCK PIN	27	09-90	METER SPRING
2	01-85F	INDICATOR FLAG	28	09-32	THROTTLE STEM
3		ROTOR SHUT OFF BONNET	29	09-72	DIAPHRAGM
4	197-Q4139	BONNET QUAD RING	30	09-34	DIAPHRAGM PLATE
5		SEAL BACK UP WASHER (9/16" ID)	31	09-33	THROTTLE LOCK NUT
6	197-3816-150	BONNET SCREW	32	09-02	METER BONNET
7	09-Q4113	UPPER SHAFT SEAL	33	09-375-150	METER BONNET CAP SCREW
8	09-441	SHUT OFF PINION	34	09-13	SLAVE VALVE
9	09-440	ROTOR	35	09-63F	THROTTLE STEM GUIDE
10	09-540	WEAR PAD (FOR ROTOR PIN)	36	09-50	METER BRACKET
11	09-Q4116	LOWER SHAFT SEAL	37	09-375-75	BRACKET BOLT
12	197-700	SEAL BACK UP WASHER	38	09-87	3/8" LOCKWASHER
13	09-140	ROTOR SHAFT PIN	39	09-91	SLAVE VALVE SPRING
14	09-740	LOWER SHAFT SEAL BACK UP RING	40	A-6135	PLUG
15	09-240	SHAFT SEAL GLAND	41	09-19	UNION NUT
16		CAP SEAL	42	19-18	HALF UNION
17		DRAIN HOSE CONNECTOR	43	19-73	UNION O-RING
18	657-2	CYLINDER ORIFICE ADAPTOR	44	A-09-41	FILTER PULL ASSY
19		SHUT OFF BODY CAP SCREW	45	09-83F	STRAINER SCREEN
20	09-04R	ROTOR SHUT OFF BODY	46	09-01	METER BODY
21	09-74	BODY O-RING	47	09-39	METER BARREL
22	09-76	O-RING, SHUT OFF BODY	48	01-71BF	CAP SEAL
23	09-60	BALL VALVE SEAT	49	09-06	METER BARREL BONNET
24	09-80	SHUT OFF BALL	50	01-89	DIAL TENSION WASHER
25	09-60	BALL VALVE SEAT	51	09-77	DIAL BONNET O-RING
26	09-92	BALL VALVE TENSION WASHER	52	01-88	RETAINER WASHER
			53	09-2520-75	BONNET CAP SCREW
	B-9500 RS	METER REPAIR KIT (ITEMS 29, 35, 43, 48, 50, 51)	54		DIAL ASSY
	R-9590 RK	ACTUATOR REPAIR KIT (ITEMS 1, 4, 7, 11, 16, 21-23, 25)	55	01-2520-100	CAP SCREW

CONTINENTAL
NH3 PRODUCTS

B-9500 NH_3 METER



DUO LIFT
Manufacturing Company, Inc.

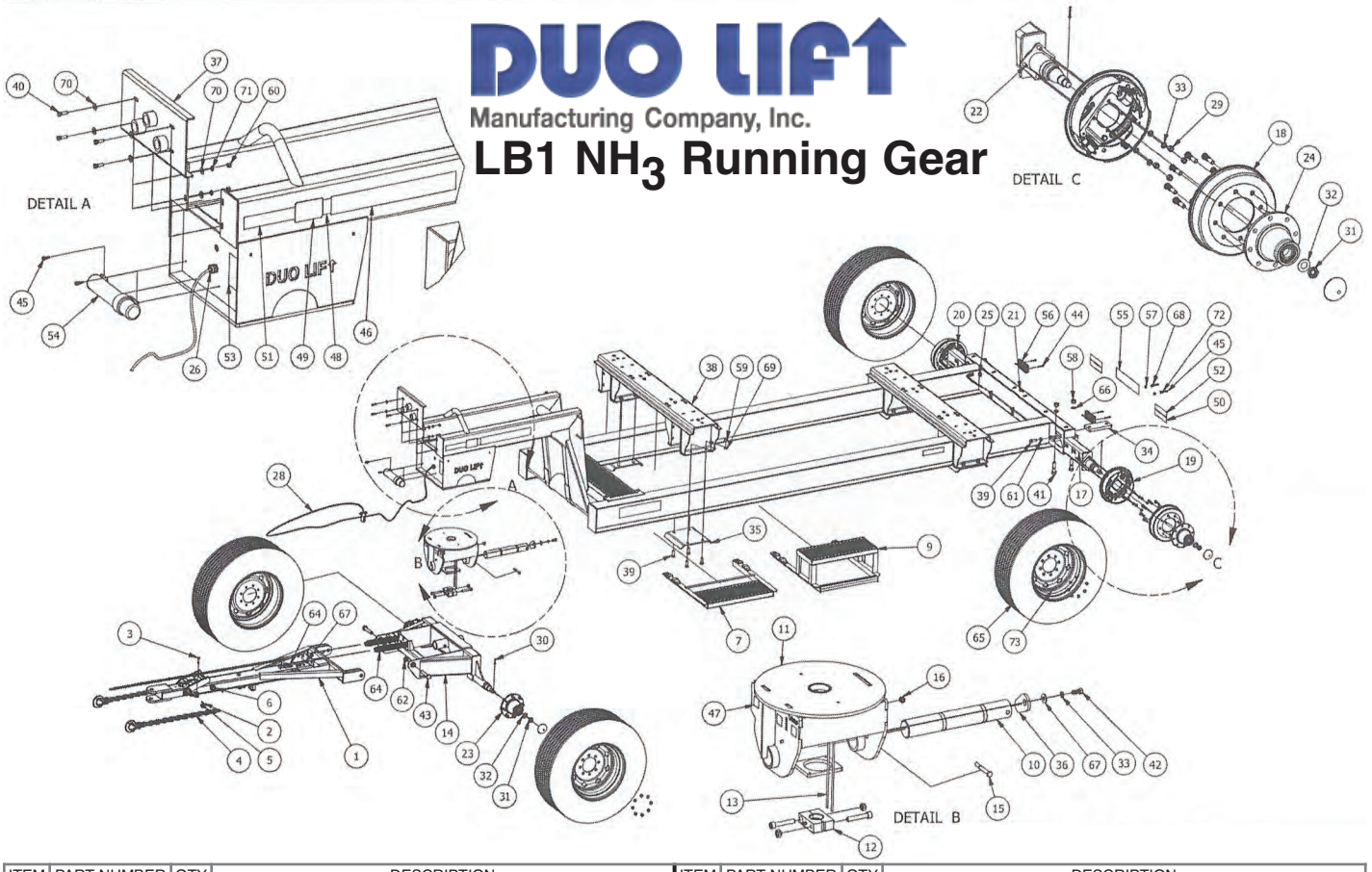


M-1450 NH_3 Running Gear

KEY	PART NO.	REF. NO.	DESCRIPTION	NUMBER PER TRAILER
1	464645	800001	Back Axle, Adjustable Track	1
1	467245	800028	Back Axle, Non Adjustable Track	1
2	464684	800002	Front Axle, Adjustable Track	1
2	467284	800029	Front Axle, Non Adjustable Track	1
3	246428	800004	Tongue with Two Safety Chains	1
4	353524-16	800003	Adjustable Strut with Spindle (less hub), 16" Ground Clearance	4
4	353525-20	800009	Adjustable Strut with Spindle (less hub), 20" Ground Clearance	4
4A	611WP	HB000002	Hub, 6-Bolt with Bearings, Seal, Dust Cap and Wheel Bolts	4
--	--	--	(For Complete Parts, See 6-Bolt Ag Hubs Parts Sheet)	
5	16484	800005	5th Wheel and Pole	1
6	1835	BT000001	1" Tongue Bolt	2
7	1864	WT000002	1" Lock Nut	2
8	E5115	SG000003	6-Leaf x 2" Wide Slipper Spring	2
9	91635	800195	9/16" x 5" Spring Bolt, Nut and Lock Washer	2
10	245	800294	2" ID x 4 1/2" Long U-Bolt with Nuts & Lock Washers	4
11	5845	800276	5/8" x 4 1/2" Long Reach Pole Bolt with Lock Nut	1
12	2121045	800006	King Pin	1
13	38163	800277	King Pin Keeper Bolt and Lock Nut	1
14	3825	O7100001	Spacer, 3/8" DOM x 1/4"	2
15	538	O1090006	Strut Clamp Plate, 4" x 8" x 1/2"	4
16	7560	800278	3/4" x 6" Long Strut Bolt, Nut and Star Lock Washer	8
17	5410	ZK000005	Grease Fitting, 5th Wheel	2
18	5010	ZK000002	Grease Fitting, King Pin	1
19	151066	WH000006	15" x 10" x 6 - 6" Wheel	4
20	516323	800026	Tank Support Member	2
--	8605452	800242	Safety Chain 3/8 x 40" w/ Slip Hook, Latch & Mounting Bracket	2
--	TW-101-WC	800274	Safety Sign Set (Warning Decals)	1

DUO LIFT
Manufacturing Company, Inc.

LB1 NH_3 Running Gear



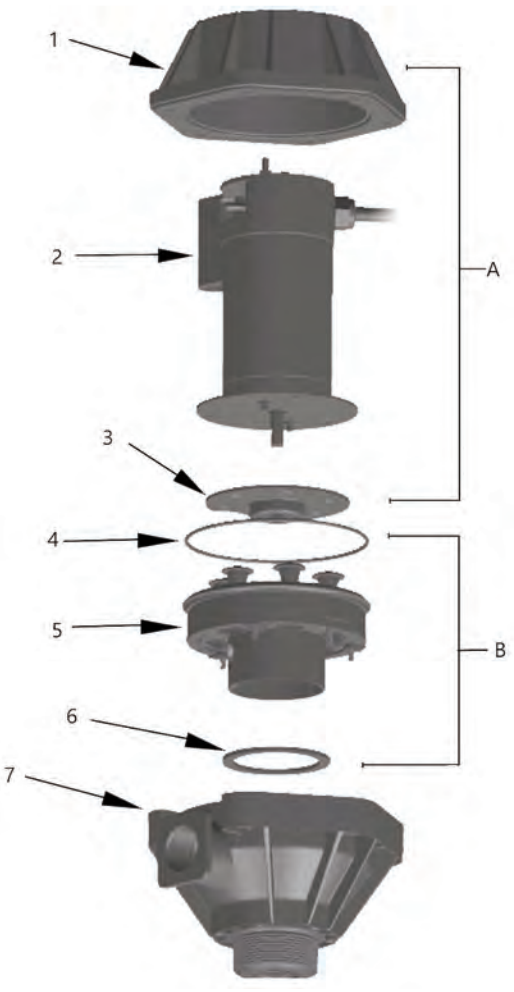
ITEM	PART NUMBER	QTY	DESCRIPTION	ITEM	PART NUMBER	QTY	DESCRIPTION
1	800435	1	TONGUE EXT DEMCO BRAKED	38	78000852	2	UNIVERSAL ADJ TANK MOUNT HAT CHANNEL WELDMENT
2	BT000027	2	COTTER OIN, 1/8 X 1-1/4	39	BT000031	18	BOLT, 3/4-10 X 2, ZP, GR 5
3	BT000306	5	PIN, 9/16 X 2, ZP, CLEVIS	40	BT000037	4	BOLT, 3/8-16 X 1-1/4, ZP, GR 5
4	CH000029	2	SAFETY CHAIN, 1/2 X 40, GR 70	41	BT000076	4	BOLT, 1-8 X 4, YZ, GR 8
5	CH000030	2	SAFETY CHAIN, ID TAG, 25,000 LBS	42	BT000105	1	BOLT, 1/2-13 X 1-1/4, ZP, GR 5
6	MI000285	1	CLAMP, 1/4, WELD PLATE	43	BT000185	2	BOLT, 1-8 X 5, YZ, GR 8
7	800636	1	LOW BOY SIDE PLATFORM, 15" X 36" W/ EXPANDED METAL	44	BT000219	4	SCREW, 12-24 X 2, HEX SELF TAP, #5
8	800781	1	LOWBOY BOLT ON CATWALK	45	BT000223	4	SCREW, 1/4"-14 X 1" HEX SELF TAP
9	801322	1	PLATFORM SIDE STEP BOLT ON LB1	46	DE000010	1	DECAL DANGER/WARN/CAUT SS-104
10	70000287	1	ROCKER BOX PIN	47	DE000012	3	DECAL GREASE W-103-M
11	800434	1	ROCKER BOX LB2200/2900/N200- N2900 W/GREASE BANK	48	DE000025	1	DECAL FARM EQUIPMENT MFG ASSOCIATION 1.5" X 2.5"
12	800536	1	KINGPIN LOCK ASSY	49	DE000026	1	DECAL DE&MAN BY DL 2.25" X 4.75" DUO LIFT SMALL SILVER
13	HY000187	7FT	GREASE LINE	50	DE000045	2	DECAL AG CONSP TAPE, RED, 9 X 2
14	800442	1	LB 2200 FRONT AXLE	51	DE000046	4	DECAL YELLOW REFLECTIVE TAPE, 9 X 2
15	BT000234	1	BOLT, 1/2-13 X4, YZ, GR 8	52	DE000047	2	DECAL AG CONSP TAPE, ORANGE, 9 X 2
16	NT000004	1	NUT, 1/2"-13, ZP, GR A, REVERSE LOCK	53	DE000050	1	DECAL, DANGER CHEMICAL BURN HAZZARD, LB-104
17	801819	2	LB1, LB1XL, LB1XLB 4X6 STRUT LESS HUB	54	DE000053	1	MANUAL CANISTER, SMALL
18	BR000007	2	DEMCO, 13" BRAKE DRUM, 8 HOLE, 8" B.C., 5.75" P.H.	55	DE000057	3	DUO-LIFT MFG 4" X 18" DECAL
19	BR000008	1	DEMCO, 13" HYDRAULIC BRAKE CLUSTER LEFT	56	LT000359	2	LIGHT, RED LED STOP/TURN/TAIL LAMP
20	BR000009	1	DEMCO, 13" HYDRAULC BRAKE CLUSTER RIGHT	57	LT000395	2	RETAINER, LICENSE PLATE, 1/4" (#14), PLASTIC
21	BR000530	1	BRAKE LINE KIT	58	NT000001	4	NUT, 1"-8, ZP, GR 5
22	BT000017	8	BOLT, 1/2-20 X 1, YZP, GR 8	59	NT000012	16	NUT, 3/4-10, ZP, GR A
23	HB000008	2	HUB, 819, COMPLETE	60	NT000015	4	NUT, 3/8-16, ZP, GR 5
24	HB000010	2	HUB, 886, COMPLETE	61	NT000058	2	NUT, 3/4-10, ZP, GR 5, JAM
25	LT000335	2	CONDUIT, 2 SCREW CLAMP	62	NT000065	2	NUT, 1"-8, YZ, GR 8, LOCK, NYLON
26	LT000387	1	CORD LOCK, .375-.437 X 1/2 NPT	63	SG000043	2	2" EXT SPRING W/ 1/2-13 NUT INSERT, 1/2-13 X 6" GR 8 BOLT
27	LT000410	1	CONDUIT LOCK NUT	64	BT000288	2	1/2"-13 X 6" SAE J429 GR8 YELLOW ZINC FINISH, FULL THREAD
28	LT000415-LB1	1	LIGHT HARNESS	65	UT000020	4	385-66R 22.5 USED SUPER SINGLE TIRE
29	NT000028	8	NUT, 1/2-20, ZP, GR A	66	WA000001	4	WASHER, 1", ZP, EXTERNAL TOOTH, LOCK
30	SL000014	4	PIN, 3/16 X 1-1/2, ZP, COTTER	67	WA000003	3	WASHER, 1/2, ZP, FLAT
31	SL000016	4	NUT, 1-14, PLAIN, SLOTTED	68	WA000005	4	WASHER, 1/4", ZP, USS FLAT
32	SL000019	4	WASHER, 1", BLACK OXIDE, FLAT	69	WA000006	16	WASHER, 3/4, ZP, EXTERNAL TOOTH, LOCK
33	WA000004	9	WASHER, 1/2, ZP, SPLIT, LOCK	70	WA000008	8	WASHER, 3/8, ZP, FLAT
34	70002614	2	LB1 TIE PLATE	71	WA000009	4	WASHER, 3/8, ZP, LOCK
35	70005626	4	LB1 CROSS MEMBER CLAMP PLATE	72	WA000014	2	WASHER LOCK, 1/4", ZP, MEDIUM SPLIT
36	70008990	1	ROCKER BOX PIN RETAINING FLAG	73	WH000071	4	FIRA INDUSTRIALE, 11.75 X 22.5, 8 BOLT, 8" BC, 6" PILOT
37	78000148	1	LOW BOY BULKHEAD W/ 1-1/4 PIPE COUPLINGS				

DURA PRODUCTS
Technology with Lasting Value

DURA PUMP

ITEM	PART NO.	DESCRIPTION
1	DP-P4002A	UPPER HOUSING
2	-	MOTOR
3	DP-P6013D	DRIVE PLATE
4	DP-P4004AO-*	O-RING
5	-	CARTRIDGE
6	DP-P4001AG-*	BOTTOM GASKET
7	DP-H4001A-*	BOTTOM HOUSING
A	DP-P4012M	12V MOTOR ASSY (#1-3)
	DP-P4015M	110V MOTOR ASSY (#1-3)
B	DP-P6017AE	CARTRIDGE KIT, EPDM (#4-6)
	DP-P6017AV	CARTRIDGE KIT, VITON (#4-6)
	DP-P6017AD	CARTRIDGE KIT, DEF (#4-6)

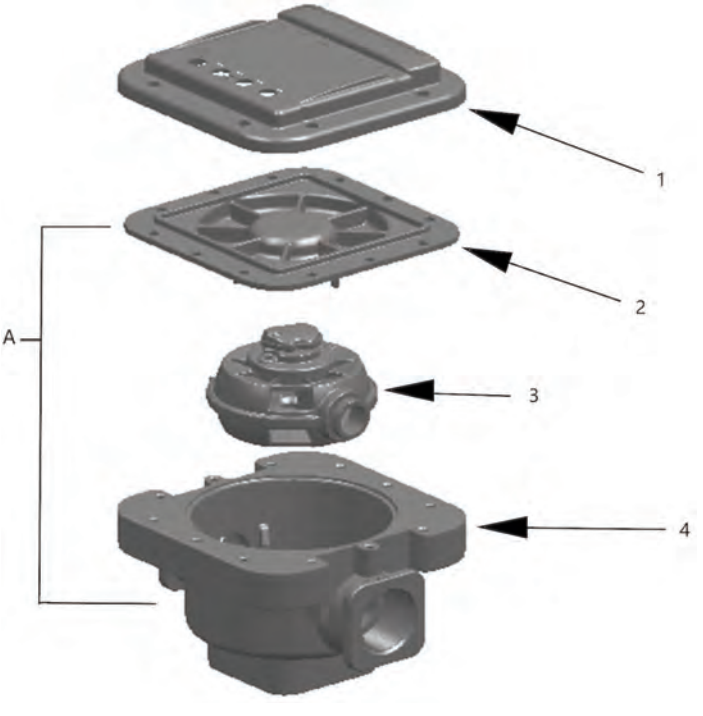
**Specify material: -E (EPDM) or -V (Viton)*

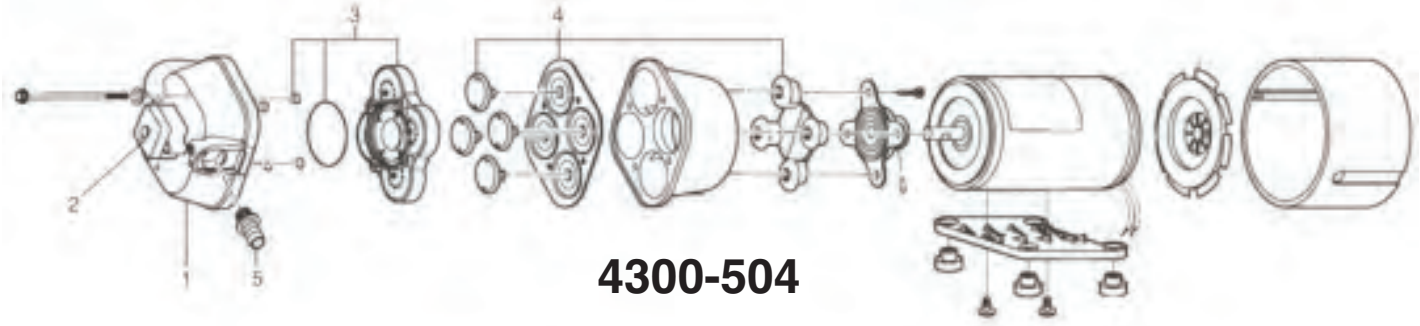


DURA METER

ITEM	PART NO.	DESCRIPTION
1	DP-MFP01	METER FACEPLATE
2	-	HOUSING COVER PLATE
3	-	NUTATING CHAMBER
4	-	METER HOUSING
A	DP-PMB3000-*	METER BODY (#2-4)

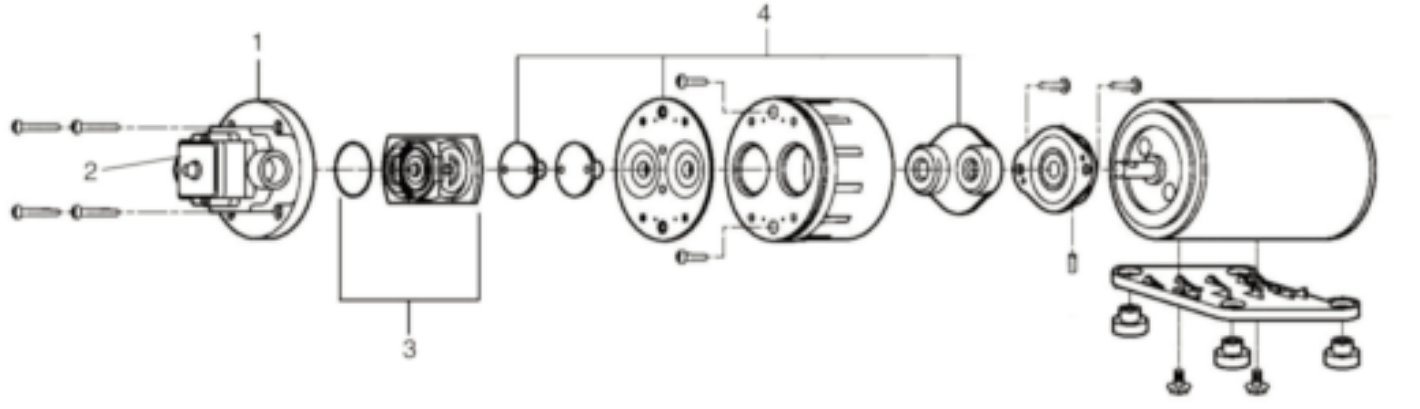
**Specify material: -E (EPDM), -V (Viton), -S (Silicone)*





4300-504

ITEM	PART NO.	DESCRIPTION
1	20404-007	UPPER HOUSING/ SWITCH ASSY
2	2090-103	PRESSURE SWITCH
3	20407-020	CHECK VALVE KIT, VITON
	20407-030	CHECK VALVE KIT, EPDM
4	20403-040	DIAPHRAGM KIT, VITON
5	20381-014	3/4" STRAIGHT HOSE BARB
	20381-015	1/2" STRAIGHT HOSE BARB
	20381-017	1/2" 90° HOSE BARB
	20381-018	3/4" 90° HOSE BARB



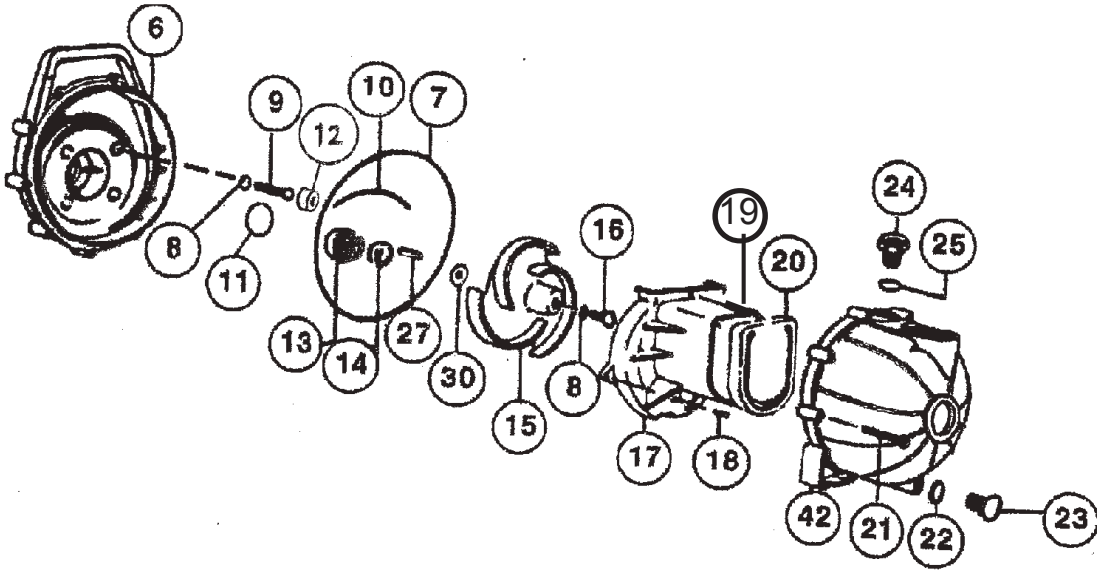
2130-132

ITEM	PART NO	DESCRIPTION
1	20316-003	UPPER HOUSING/ SWITCH ASSY
2	2090-115	PRESSURE SWITCH
3	20028-035	CHECK VALVE KIT, VITON
	20028-053	CHECK VALVE KIT, EPDM
	20028-082	CHECK VALVE KIT, BUNA
	20028-057	CHECK VALVE KIT, SANTO
4	21010-001	DIAPHRAGM KIT, VITON
	21010-004	DIAPHRAGM KIT, SANTOPRENE
	21010-002	DIAPHRAGM KIT, BUNA
	21010-003	DIAPHRAGM KIT, EPDM

2135-561

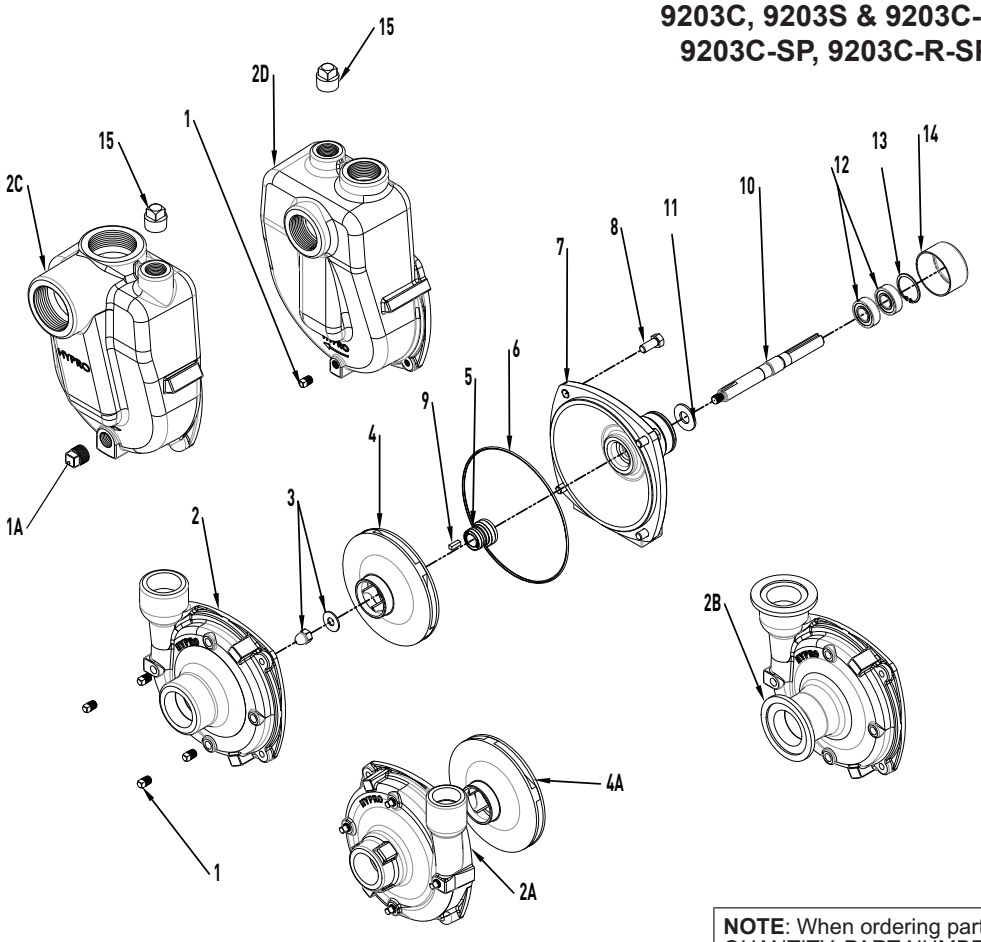
ITEM	PART NO	DESCRIPTION
1	20316-011	UPPER HOUSING/ SWITCH ASSY
2	2090-119	PRESSURE SWITCH
3	20028-051	CHECK VALVE KIT, VITON
	20028-053	CHECK VALVE KIT, EPDM
	20028-082	CHECK VALVE KIT, BUNA
	20028-057	CHECK VALVE KIT, SANTO
4	21010-001	DIAPHRAGM KIT, VITON
	21010-004	DIAPHRAGM KIT, SANTOPRENE
	21010-002	DIAPHRAGM KIT, BUNA
	21010-003	DIAPHRAGM KIT, EPDM

"S" SERIES CENTRIFUGAL PUMP



ITEM	PART NO	DESCRIPTION		ITEM	PART NO	DESCRIPTION
6		BRACKET		19		SCREW, TOP VOLUTE
7*		O-RING, BODY		20*		CHECK VALVE
8*		O-RING, SCREW		21		SCREW, BODY
9		SCREW, BRACKET		22*		O-RING, DRAIN PLUG
10*		O-RING, SEGMENT		23		PLUG, PLUG
11*		O-RING, SHAFT SEAL		24		PLUG, FILLER
12		PLUG, BRACKET SCREW		25*		O-RING, FILLER PLUG
13,14*	RS601ESS	SEAL, SHAFT		27*		KEY
15*		IMPELLER		30		SHIM
16		SCREW, IMPELLER		42	58-100230B	BODY
17*		VOLUTE		*	58-702EPU	REPAIR KIT
18		SCREW, SIDE VOLUTE				

9203C, 9203S & 9203C-R & 9203S-R, 9203C-SP, 9203C-R-SP & 9203S-SP



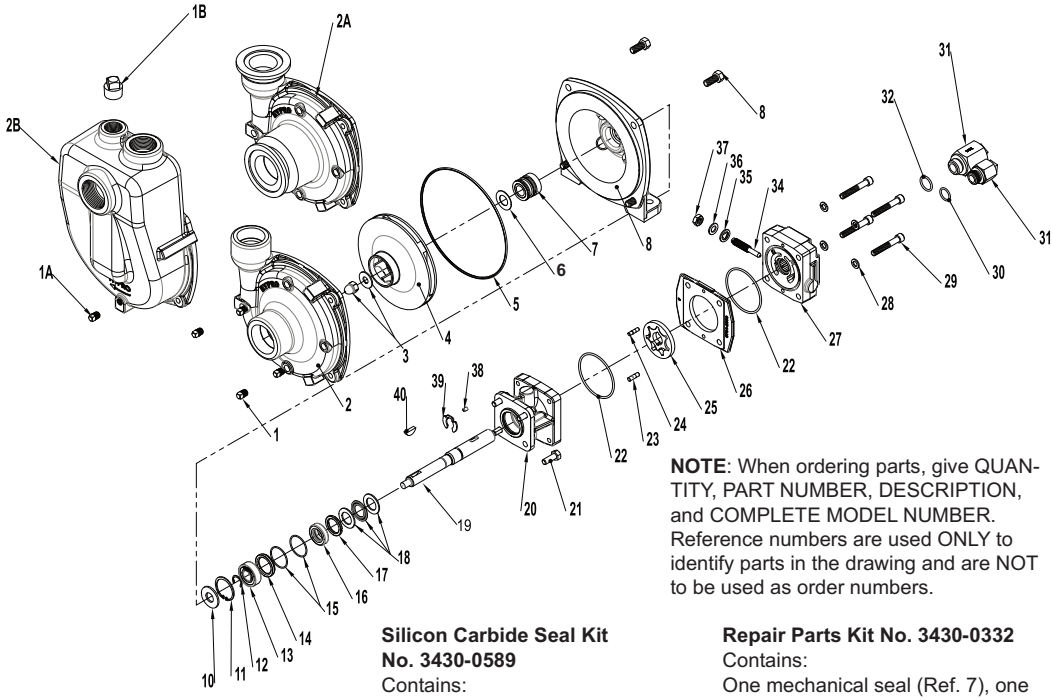
Silicon Carbide Seal Kit No. 3430-0589 consists of:
(1) Ref. 5 Mechanical Seal
(1) Ref. 6 O-Ring

Standard Seal Kit No. 3430-0332 consists of:
(1) Gasket (not shown)
(1) Ref. 5 Mech. Seal (Viton)
(1) Ref. 6 O-Ring

NOTE: When ordering parts, give QUANTITY, PART NUMBER, DESCRIPTION, and COMPLETE MODEL NUMBER. Reference number are used ONLY to identify part in the drawing and are NOT to be used as order numbers.

Ref. No.	Qty. Req'd.	Part No.	Description
1	4	2406-0007	Drain Plug (Cast Series)
1A	4	2406-0016	Drain Plug (Stainless Steel)
1B	1	2406-0002	Drain Plug
2	1	0150-9000C	Pump Casting (Cast Series)
2	1	0150-9000S	Pump Casting (Stainless Series)
2A	1	0152-9000C	Pump Casting (Reverse)(Cast Series)
2A	1	0152-9000S	Pump Casting (Reverse)(Stainless)
2B	1	0153-9000C	Pump Casting (Flanged)(Stainless)
2B	1	0153-9000S	Pump Casting (Flanged)(Stainless)
2C	1	0152-9070C	Self Priming Chamber
2C	1	0150-9070S	Self Priming Chamber (Stainless)
2D	1	0150-9070C	Self Priming Chamber
3	1	3430-0825	Impeller Nut/Washer
3A	1	2253-0002	Impeller Nut/Washer
4	1	0401-9100P	Impeller (Cast Series)
4	1	0402-9100P	Impeller (Stainless Series)
4	1	0407-9303P	Impeller (GTX)

Ref. No.	Qty. Req'd.	Part No.	Description
4A	1	0403-9100P	Impeller (Reverse)(Cast Series)
4A	1	0404-9100P	Impeller (Reverse)(Stainless)
5	1	3430-0332	Mechanical Seal
5	1	3430-0589	Mechanical Seal (Stainless Steel)
6	1	1720-0083	O-Ring
7	1	0750-9200C3	Mounting Flange (Cast Series)
7	1	0756-9200S	Mounting Flange (Stainless Series)
8	4	2210-0020	Bolt (Cast Series)
8	4	2210-0125	Bolt (Stainless Series)
9	1	1610-0015	Key (Cast Series)
9	1	1610-0044	Key (Stainless Series)
10	1	3430-0844	Shaft
11	1	1410-0056	Slinger Ring
12	2	2000-0010	Ball Bearing
13	1	1820-0013	Bearing Retainer
14	1	2300-0025	Protective Cover
15	1	2406-0001	Pipe Plug



9303C(S)-HM1C, 2, 3, 4, 5 & -U and 9303C(S)-SP-HM1, 2, 3, 4, 5

Adapter Kit No. 3430-0187 (HM2 and HM4 Modes Only) Contains one each:
No. 3373-0020 (Size #1)
No. 3373-0021 (Size #2)
No. 3373-0022 (Size #3)
No. 1720-0108 Adapter O-ring and
No. 1720-0105 Orifice O-ring

SP Chamber Kit No. 3430-0480SP
Contains: One chamber with wear ring. (Ref. 2) one o-ring (Ref. 5), one drain vent plug (Ref. 1) and one vent plug (Ref. 1A).

Parts Kit No. 3430-0748
Contains: One each ball bearing (Ref. 13), motor shaft seal (Ref. 16), thread seal gasket (Ref. 35), two cartridge o-rings (Ref.15), and washer (Ref 36); two each motor housing o-rings (Ref. 22), and port adapter o-rings (Ref. 30 & 32).

Hydraulic Motor Part Nos.
2500-0081C (HM1C Models)
2500-0082C (HM2C Models)
2500-0083C (HM3C Models)
2500-0084C (HM4C Models)
2500-0085C (HM5C Models)

NOTE: When ordering parts, give QUANTITY, PART NUMBER, DESCRIPTION, and COMPLETE MODEL NUMBER. Reference numbers are used ONLY to identify parts in the drawing and are NOT to be used as order numbers.

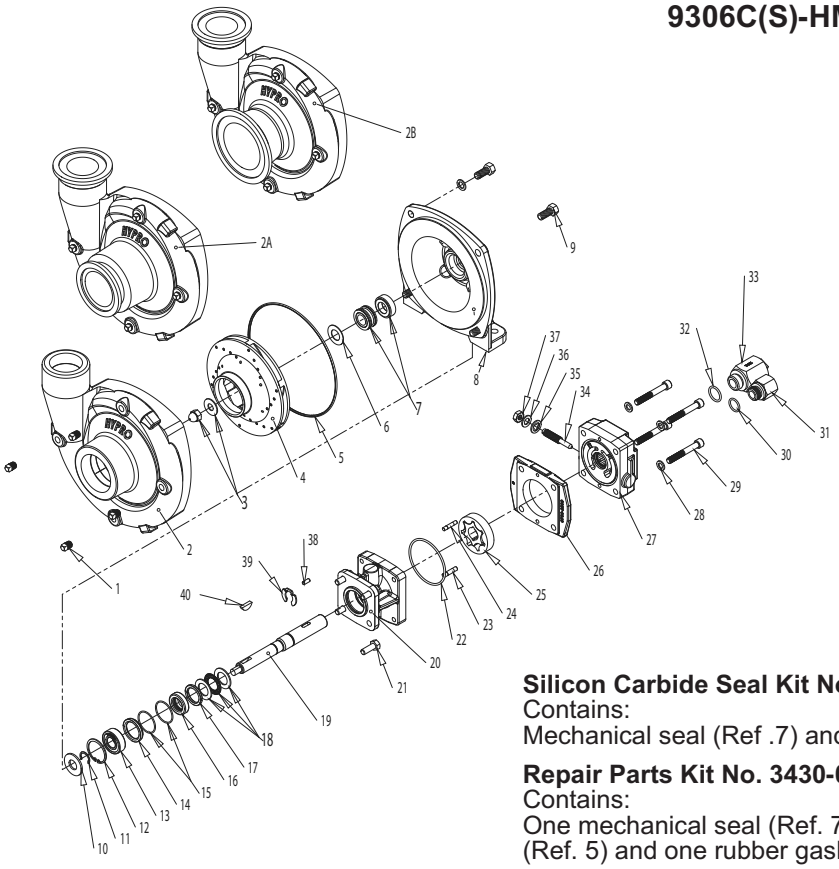
Silicon Carbide Seal Kit No. 3430-0589
Contains:
Mechanical seal (Ref .7) and o-ring (Ref. 5).

Repair Parts Kit No. 3430-0332
Contains:
One mechanical seal (Ref. 7), one o-ring (Ref. 5) and one rubber gasket (Ref. 6).

Ref. No.	Qty. Req'd.	Part No.	Description
1	4	2406-0007	Drain/Vent Plug (9303C)
1	4	2406-0016	Drain/Vent Plug (9303S)
1A	4	2406-0007	Drain/Vent Plug
1B	4	2406-0001	Vent Plug
2	1	0150-9000C	Pump Casing (Model 9303C)
2	1	0150-9000S	Pump Casing (Model 9303S)
2A	1	0153-9000C	Pump Casing (Universal Flange Model C-U)
2A	1	0153-9000S	Pump Casing (Universal Flange Model S-U)
2B	1	0150-9070CM	Pump Casing
3	1	3430-0825	Impeller Nut (9303C)
3	1	3430-0825	Impeller Nut (9303S)
4	1	0401-9100P	Impeller (Nylon Std. 9303C)
4	1	0402-9100P	Impeller (Polypropylene Optional) (Std 9303S)
5	1	1720-0083	O-ring
6	1	1700-0100	Gasket
7	1	2120-0009	Mechanical Seal (Viton/Ceramic) (Std 9303C)
7	1	3430-0589	Mechanical Seal (Silicon Carbide) (Std 9303S)
8	1	0750-9300C	Mounting Flange (9303C)
8	1	0756-9300S	Mounting Flange (9303S)
9	4	2210-0020	Hex Head Cap Screw (9303C)
9	4	2210-0125	Hex Head Cap Screw (9303S)
10	1	1410-0056	Slinger Ring
11	1	1820-0013	Snap Ring
12	1	1810-0014	Retaining Ring
13	1	2000-0010	Ball Bearing
14	1	1410-0131	Cartridge, Front
15	2	1720-0268	O-ring
16	1	3430-0748	Lip Seal
17	1	1410-0130	Seal Spacer
18	1	2029-0014	Thrust Bearing Assembly
19	1	3430-0850	Shaft (HM2C/HM4C)
19	1	3430-0852	Shaft (HM1C/HM5C)
19	1	3430-0855	Shaft (HM3C)
20	1	0150-2500C	Motor Body (includes needle bearing)
21	4	2210-0005	Hex Head Cap Screw
22	2	1720-0110	O-ring

Ref. No.	Qty. Req'd.	Part No.	Description
23	1	1600-0045	Dowel Pin (HM2C / HM4C)
23	1	1600-0044	Dowel Pin (HM1C/HM5C)
23	1	1600-0052	Dowel Pin (HM3C)
24	1	1600-0042	Dowel Pin (HM2C / HM4C)
24	1	1600-0037	Dowel Pin (HM1C/HM5C)
24	1	1600-0068	Dowel Pin (HM3C)
25	1	3900-0022	Gerotor (HM1C)
25	1	3900-0023	Gerotor (HM2C)
25	1	3900-0024	Gerotor (HM3C)
25	1	3900-0025	Gerotor (HM4C)
25	1	3900-0048	Gerotor (HM5C)
26	1	0701-2500C1	Gerotor Housing (HM2C Models) 1/4" wide
26	1	0700-2500C1	Gerotor Housing (HM1C Models) 1/2" wide
26	1	0703-2500C1	Gerotor Housing (HM4C Models) 5/16" wide
26	1	0702-2500C1	Gerotor Housing (HM3C Models) 1" wide
26	1	0704-2500C1	Gerotor Housing (HM5C Models) 5/8" wide
27	1	0254-2500C2	Motor End Plate (includes needle bearing)
28	4	2270-0039	Washer
29	4	2220-0045	Cap Screw (HM2C / HM4C Models)
29	4	2220-0021	Cap Screw (HM1C Models)
29	4	2220-0044	Cap Screw (HM3C Models)
29	4	2220-0032	Cap Screw (HM5C Models)
30	1	1720-0108	O-ring
31	1	3360-0021A	Pressure Port Adapter (includes o-ring)
32	1	1720-0262	O-ring
33	1	3320-0051A	Tank Port Adapter (includes o-ring)
34	1	3220-0029	Bypass Adjusting Screw
35	1	1700-0047	Gasket
36	1	2270-0027	Washer
37	1	2250-0038	Lock Nut
38	1	1610-0032	Roll Pin (HM2C / HM4C)
38	1	1610-0031	Roll Pin (HM1C / HM5C)
38	1	1610-0055	Roll Pin (HM3C)
39	1	1810-0026	Snap Ring
40	1	1610-0012	Woodruff Key (9303C)
40	1	04432	Woodruff Key (9303S)

9306C(S)-HM1, 3, 5C and 9306C(S)-HM1, 3, 5C-3U



NOTE: When ordering parts, give QUANTITY, PART NUMBER, DESCRIPTION, and COMPLETE MODEL NUMBER. Reference number are used ONLY to identify part in the drawing and are NOT to be used as order numbers.

Parts Kit No. 3430-0748
Contains: One each ball bearing (Ref. 13), motor shaft seal (Ref. 16), thread seal gasket (Ref. 35), two cartridge o-rings (Ref.15), and washer (Ref 36); two each motor housing o-rings (Ref. 22), and port adapter o-rings (Ref. 30 & 32).

Hydraulic Motor Part Nos.
2500-0081C (HM1C Models)
2500-0083C (HM3C Models)
2500-0085C (HM5C Models)

Silicon Carbide Seal Kit No. 3430-0589
Contains:
Mechanical seal (Ref .7) and o-ring (Ref. 5).

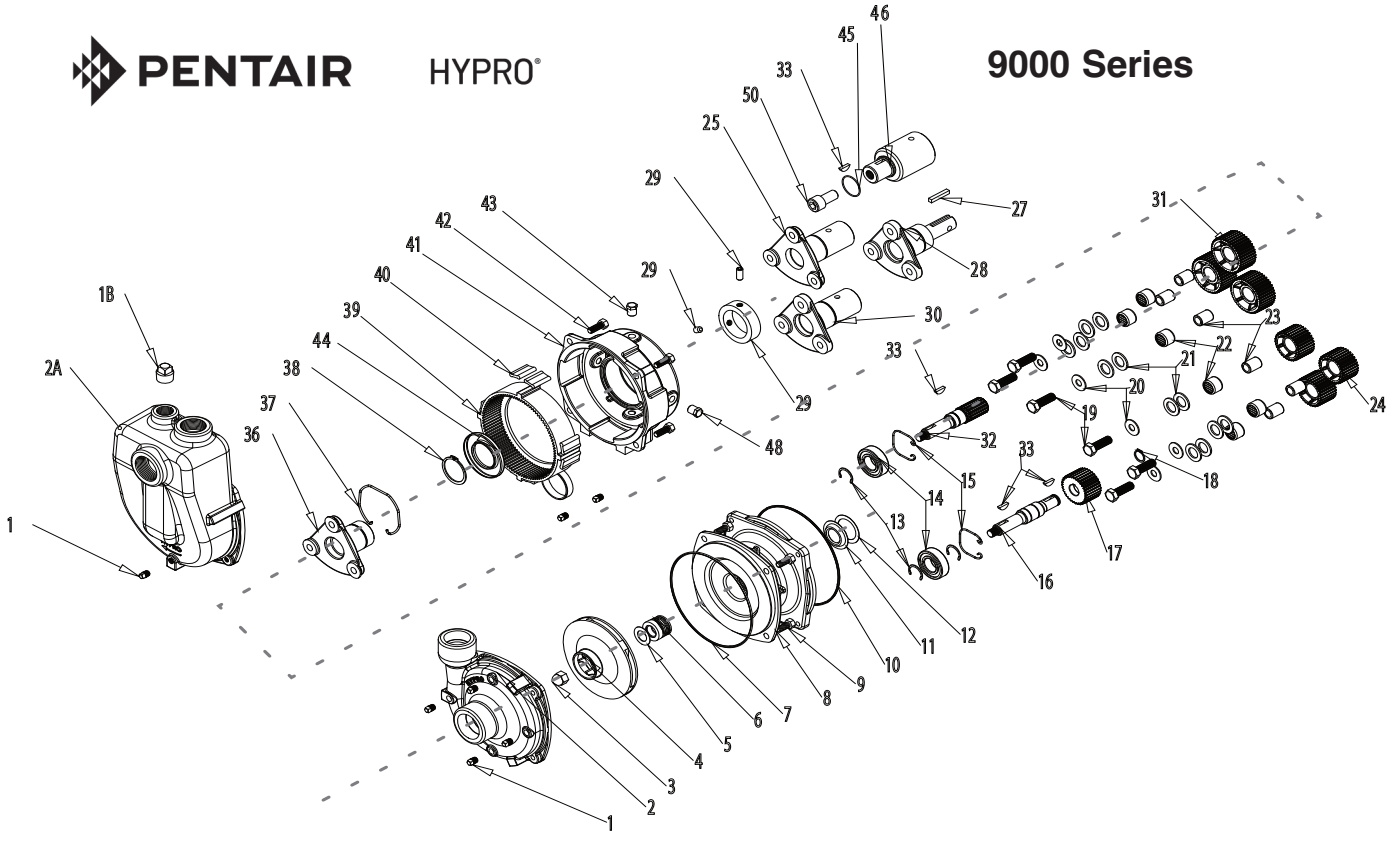
Repair Parts Kit No. 3430-0332
Contains:
One mechanical seal (Ref. 7), one o-ring (Ref. 5) and one rubber gasket (Ref. 6).

Ref. No.	Qty. Req'd.	Part No.	Description
1	4	2406-0016	Drain/Vent Plug
2	1	0154-9200C1	Pump Casing (9306C)
2	1	0154-9200S1	Pump Casing (9306S)
2A	1	0157-9200C	Pump Casing (Universal Flange 220x220)
2B	1	0158-9200C	Pump Casing (Universal Flange 300x220 Cast)
2B	1	0158-9200S	Pump Casing (Universal Flange 300x220 S.S.)
3	1	2253-0002	Impeller Nut (9306C)
3	1	2253-0006	Impeller Nut (9306S)
4	1	0401-9200P2	Impeller (Nylon Std. 9306C)
4	1	0405-9200P2	Impeller (Polypropylene Optional) (Std. 9306S)
4	1	0407-9306P	Impeller (GTX Optional)
5	1	1720-0083	O-ring
6	1	1700-0100	Gasket
7	1	2120-0009	Mechanical Seal (Viton/Cermaic) (Std. 9306C)
7	1	3430-0589	Mechanical Seal (Silicon Carbide) (Std. 9306S)
8	1	0750-9300C2	Mounting Flange (9306C)
8	1	0756-9300S	Mounting Flange (9306S)
9	4	2210-0020	Hex Head Cap Screw (9306C)
9	4	2210-0125	Hex Head Cap Screw (9306S)
10	1	1410-0056	Slinger Ring
11	1	1810-0014	Snap Ring
12	1	1820-0013	Retaining Ring
13	1	2000-0010	Ball Bearing
14	1	1410-0131	Cartridge, Front
15	2	1720-0286	O-ring
16	1	2104-0010	Lip Seal
17	1	1410-0130	Seal Spacer
18	1	2029-0014	Thrust Bearing Assembly
19	1	3430-0852	Shaft (HM1C/HM5C)
19	1	3430-0855	Shaft (HM3C)

Ref. No.	Qty. Req'd.	Part No.	Description
20	1	0150-2500C	Motor Body (includes needle bearing)
21	4	2210-0005	Hex Head Cap Screw
22	2	1720-0110	O-ring
23	1	1600-0044	Dowel Pin (HM1C/HM5C)
23	1	1600-0052	Dowel Pin (HM3C)
24	1	1600-0037	Dowel Pin (HM1C/HM5C)
24	1	1600-0068	Dowel Pin (HM3C)
25	1	3900-0022	Gerotor (HM1C)
25	1	3900-0024	Gerotor (HM3C)
25	1	3900-0048	Gerotor (HM5C)
26	1	0700-2500C1	Gerotor Housing (HM1C Models) 1/2" wide
26	1	0702-2500C1	Gerotor Housing (HM3C Models) 1" wide
26	1	0704-2500C1	Gerotor Housing (HM5C Models) 5/8" wide
27	1	0254-2500C2	Motor End Plate (includes needle bearing)
28	4	2270-0039	Washer
29	4	2220-0021	Cap Screw (HM1C Models)
29	4	2220-0044	Cap Screw (HM3C Models)
29	4	2220-0032	Cap Screw (HM5C Models)
30	1	1720-0108	O-ring
31	1	3360-0021A	Pressure Port Adapter (includes o-ring)
32	1	1720-0262	O-ring
33	1	3320-0051A	Tank Port Adapter (includes o-ring)
34	1	3220-0029	Bypass Adjusting Screw
35	1	3430-0748	Gasket
36	1	2270-0027	Washer
37	1	2250-0038	Lock Nut
38	1	1610-0031	Roll Pin (HM1C/HM5C)
38	1	1610-0055	Roll Pin (HM3C)
39	1	1810-0026	Snap Ring
40	1	1610-0012	Woodruff Key

PENTAIR HYPRO®

9000 Series



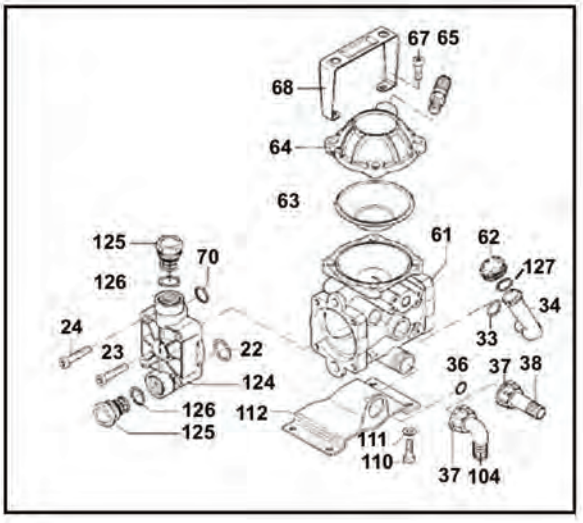
Ref. No.	Qty. Req'd.	Part No.	Description
1	4	2406-0007	Drain Plug
1B	1	2406-0001	Drain Plug
2	1	0150-9000C	Pump Casing (w/ SS wear ring)
2A	1	3430-0480SP	Pump Casing (Self-Priming Units)
3	1	2253-0001	Impeller Nut
4	1	0400-9000P	Impeller (Nylon)
5	1	1700-0101	Gasket
6	1	2120-0010	Mechanical Seal (Optional Buna-N)
6	1	3430-0334	Mechanical Seal (Standard Viton)
7	1	1720-0083	O-Ring
8	1	0752-9000C	Mounting Flange Adapter
9	4	2210-0020	Hex Head Capscrew
10	1	1720-0139	O-Ring
11	1	2130-0018	Bearing Lip Seal
12	1	1700-0098	Gasket
13		1810-0013	Retaining Ring - (1) required for 540 rpm, (2) for 1-3/8" and (3) for 1-3/4" 1000 rpm
14	1	2008-0001	Ball Bearing
15	1	1820-0025	Retaining Ring
15	3	2210-0046	Capscrew

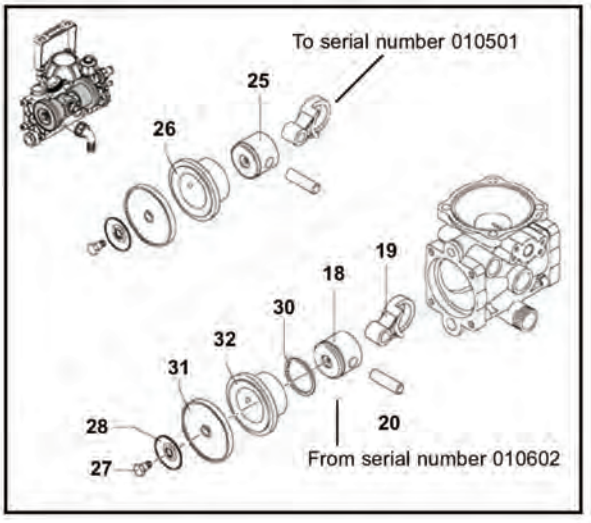
Ref. No.	Qty. Req'd.	Part No.	Description
16	1	0500-9002	Impeller Shaft (1000rpm)
17	1	3900-0013	Sun Gear (1000 rpm)
18	1	1810-0011	Retaining Ring (1000 rpm)
19	3	2210-0046	Hex Head Capscrew
20	3	2270-0003	Washer
21	6	2265-0003	Thrust Washer
22	3	2007-0052	Bearing (included with driver gear)
23	3	2007-0022	Bearing Inner Race
24	3	3900-0040	Driver Gear w/ Bearing (1000 rpm) 32 teeth, Dia.2.13"
25	1	0562-9002D	Driver Hub (Model 9008C-O)
26	1	0501-9018D	Driver Hub (Model 9018C-O)
27	1	1610-0005	Key
28	1	0501-9016D	Driver Hub (Model 9016C-O)
29	1	3435-0058	Locking Collar Kit (hollow shaft)
30	1	0562-9000D	Driver Hub (Model 9006C-O)
31	3	3900-0039	Driver Gear w/ Bearing (540 rpm) 39 teeth, Dia. 2.6"
32	1	3900-0010	Impeller Shaft/Pinion Gear (540rpm)
33		1610-0012	Woodruff Key **(1) req'd for 540rpm, (2) req'd for 1000 rpm models.
34	1	2220-0035	Capscrew (Model 9028C)
35	1	2403-0012	Bushing (Model 9028C)
36	1	0501-9018D1	Driver Hub (Model 9028C)
37	1	1800-0014	Retaining Ring
38	1	1810-0001	Retaining Ring
39	1	3900-0009	Ring Gear
40	8	1450-0004	Cushion Bumper
41	1	0754-9000C	Gear Casing
42	4	2210-0026	Hex Head Capscrew
43	1	2404-0193	Breather Vent
44	1	2102-0025	Oil Seal
45	1	1720-0022	O-Ring
46	1	0550-1322F4	Driver Hub (9028C-0) 1-3/4"Hub 20 Teeth
47	1	3430-0190	Locking Collar Kit (Model 9028C)
48	4	2406-0019	Oil Plug
49	1	1520-0034	Mounting Clip
50	1	2220-0035	Capscrew
	1	2005-0006	Bearing

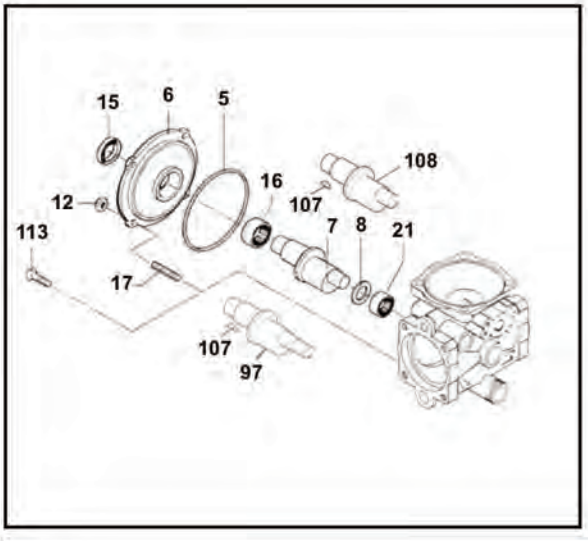
Seal, O-Ring Repair Kit
No. 3430-0334
consists of:
(1) Ref. 5 Gasket, (1) Ref. 6 Mechanical Seal and (1) Ref. 7 O-Ring.

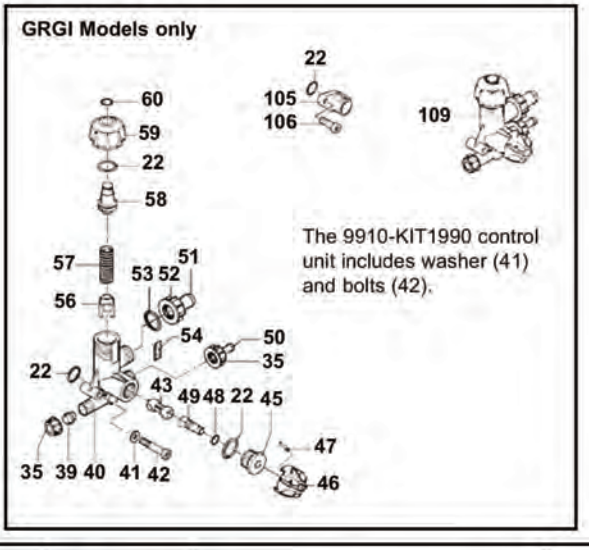
Gear Lube Requirement:
8oz. Phillube SAE 80W90 Oil

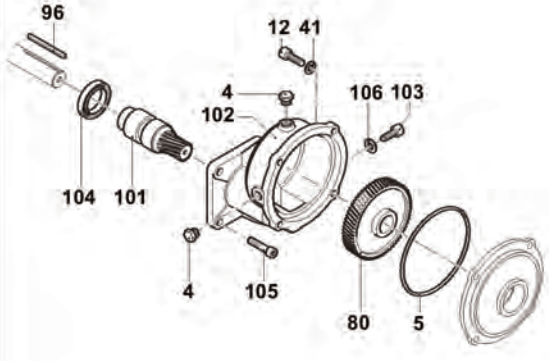
Life Guard Seal Kit
No. 3430-0591
Consists of:
Ref. 6 and Ref. 7.











Ref. No.	Part Number	Description	Qty.
4	9910-620301	Plug	2
5	9910-800380	O-Ring	1
12	9910-850850	M6 x 30 Bolt	4
41	9910-550331	Washer	4
80	9910-800280	Gear	1
96	9910-881090	Key	1
101	9910-800810	Driver Gear, 3/4" shaft only	1
101	9910-801230	Driver Gear, 5/8" shaft only	1
102	9910-800820	3/4" Gearbox	1
102	9910-800821	5/8" Gearbox	1
103	9910-800800	M8 x 16 Locating Bolt	1
104	9910-480820	Seal	1
105	9910-620440	5/16 24 UNF x 7/8 Bolt	4
106	9910-820520	Washer	1

Ref. No.	Description	Tightening Torque	
		In. Lbs.	Nm
4	Plug	87.5	9.8
105	Bolt	175.0	19.6

Figure 27

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

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

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

Ref. No.	Description	Tightening Torque	
		In. Lbs.	Nm
23	Bolt	175.0	19.6
24	Bolt	175.0	19.6
27	Retaining Bolt	175.0	19.6
42	Bolt	87.5	9.8
67	Bolt	200.8	22.5
106	Bolt	87.5	9.8
110	Bolt	175.0	19.6
113	Bolt	87.5	9.8
125	Valve Assembly	131.2	14.7



9910-KIT1723 Diaphragm Kit Desmopan

Ref. No.	Qty.
22	2
31[1]	2
63[1]	1
70	2



9910-KIT2408 Valve Kit

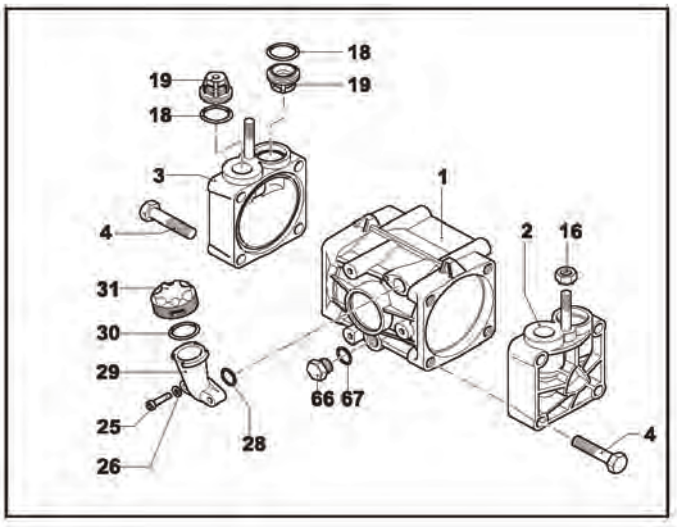
Ref. No.	Qty.
125	4
126	4

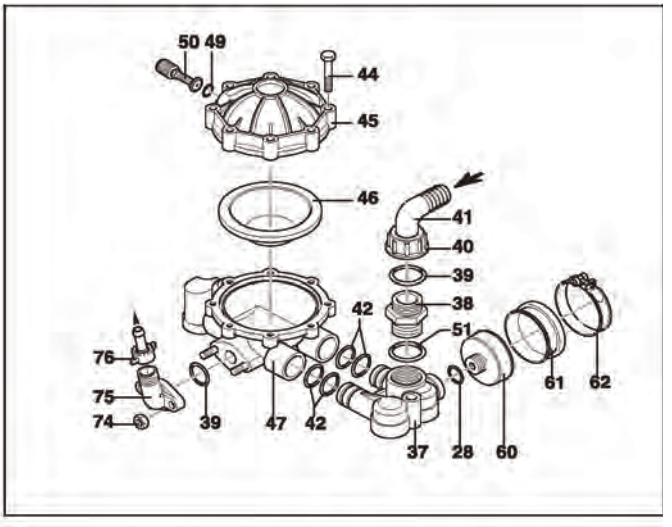


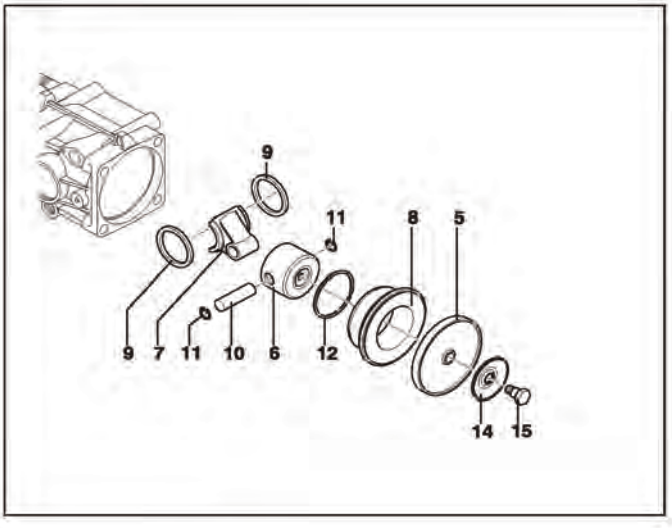
9910-KIT2409 O-Ring Kit

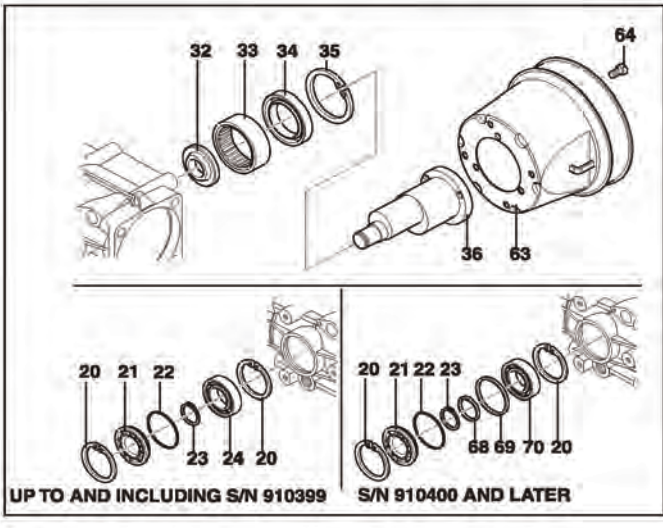
Ref. No.	Qty.
5	1
22	5
33	4
36	1
48	1
53	1
70	1
126	4
127	1

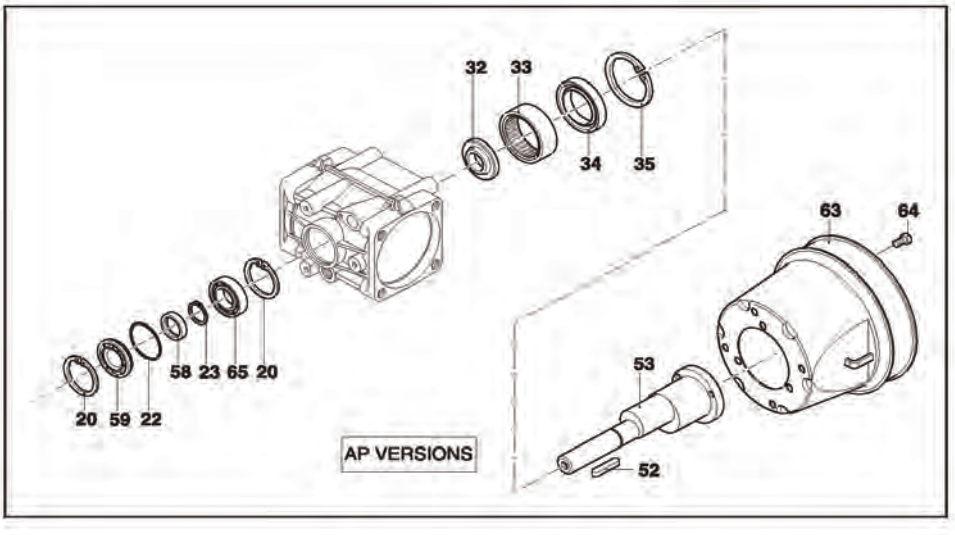
Model 9910-D30, D30AP-A, D30GRGI, & D30-B-GRGI











Model 9910-D30, D30AP-A, D30GRGI, & D30-B-GRGI

PENTAIR HYPRO®

Ref. No.	Part Number	Description	Qty.
1	9910-629011	Pump Body w/bolts	1
2	9910-620101	Right Head Assembly (DX)	1
3	9910-620102	Left Head Assembly (SX)	1
4	9910-621430	M12 x 55 Bolt	8
5[1]	9910-620085	Diaphragm, Desmopan (Std.)	2
5	9910-620080	Diaphragm, Buna-N (Opt.)	2
6	9910-620120	Piston	2
7	9910-620140	Connecting Rod	2
8	9910-620110	Sleeve	2
9	9910-580470	Retainer Ring	2
10	9910-380300	Connecting Rod Pin	2
11	9910-380080	Ring Pin	4
12	9910-160230	Piston Ring	2
14	9910-1040180	Retaining Washer	2
15	9910-580360	Diaphragm Bolt	2
16	9910-180150	Nut	2
18[1,2,3]	9910-620030	O-Ring	4
19[2]	9910-1409050	Complete Valve Assembly	4
20	9910-111120	Retaining Ring	2
21	9910-620020	Cover	1
22[3]	9910-620210	O-Ring	1
23	9910-620291	Retaining Ring	1
24	9910-620190	Bearing	1
25	9910-850850	M6 X 30 Bolt	2
26	9910-550331	Washer	2
28[3]	9910-180101	O-Ring	2
29	9910-550030	Oil Sight Glass	1
30[3]	9910-550040	O-Ring	1
31	9910-550056	Oil Sight Glass Cap	1
32	9910-620160	Spacer	1
33	9910-550060	Roller Bearing	1
34	9910-620130	Seal	1
35	9910-620330	Retaining Ring	1
36	9910-620170	Crankshaft	1
37	9910-620150	Suction Manifold	1
38	9910-550340	Threaded Adapter	1
39[3]	9910-550350	O-Ring	2
40	9910-550242	Ring Nut	1
41	9910-550370	Hose Barb 1"	1
42[3]	9910-390060	O-Ring	4
44	9910-621780	M8 X 40 Bolt	8
45	9910-629211	Upper Air Chamber	1

Ref. No.	Part Number	Description	Qty.
46[1]	9910-550190	Accumulator Diaphragm, Buna-N	1
47	9910-622070	Lower Air Chamber Body	1
49[3]	9910-650542	O-Ring	1
50	9910-180020	Air Valve	1
51[3]	9910-390290	O-Ring	1
52	9910-620680	Key (AP-A Model)	1
53	9910-620172	Thru-Shaft 20 mm Dia. "AP Version"	1
53	9910-620174	Thru-Shaft 3/4" Dia. "AP Version"	1
58	9910-620630	Seal	1
59	9910-620021	Cover	1
60	9910-650660	Diaphragm Holder	1
61	9910-650670	Suction Diaphragm	1
62	9910-650690	Clamp	1
63	9910-1500350	PTO Shield	1
64	9910-820670	M10 X 16 Bolt	4
65	9910-620190	Bearing	1
66	2406-0023	Drain Plug, oil	1
67[3]	9910-740290	O-Ring	1
68	9910-620930	Spacer	1
69	9910-620940	Spacer	1
70	9910-380230	Bearing	1
74	9910-390270	Nut	2
75	9910-450145	Flange	1
76	9910-110130	1/2" Fitting plus Hose Barb	1

[1] Denotes Diaphragm Kit 9910-KIT1724
[2] Denotes Valve Kit 9910-KIT1917
[3] Denotes O-Ring Kit 9910-KIT1916

Ref. No.	Description	Tightening Torque	
		In. Lbs.	Nm
4	Bolt	393.7	44.1
15	Bolt	262.5	29.4
16	Nut	350.0	39.2
25	M6 x 30 Bolt	87.5	9.8
44	M8 x 40 Bolt	175.0	19.6
64	M10 x 16 Bolt	87.5	9.8
74	Nut	175.0	19.6



9910-KIT1724 Diaphragm Kit Desmopan

Ref. No.	Qty.
5	2
18	4
46	1



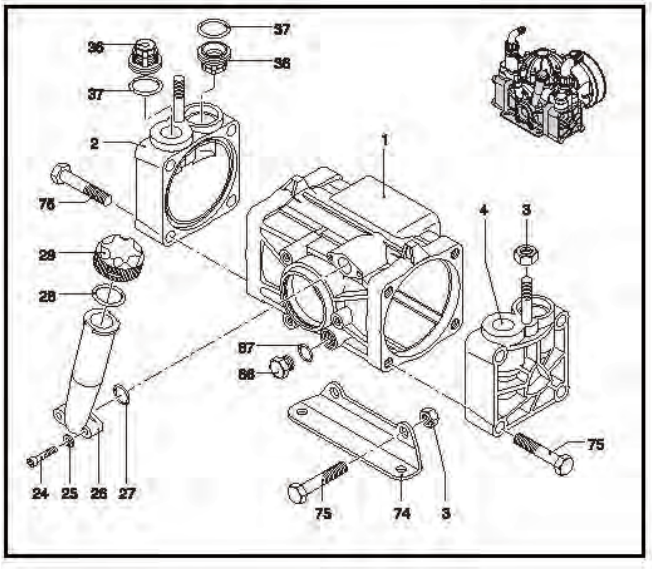
9910-KIT1917 Valve Kit

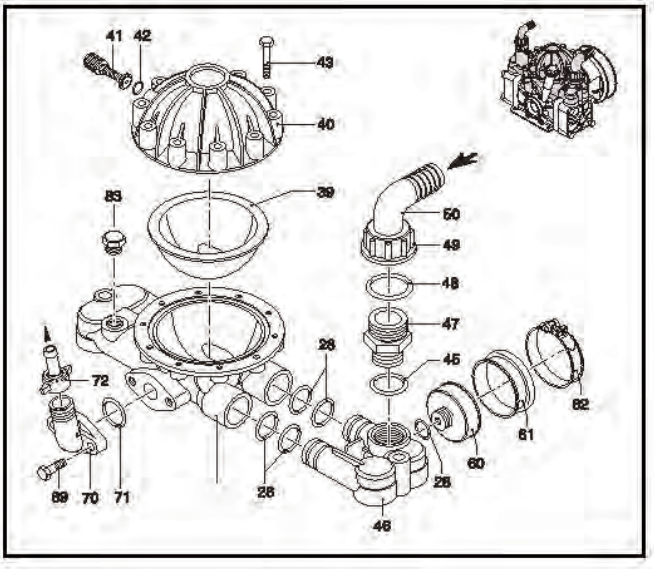
Ref. No.	Qty.
18	4
19	4

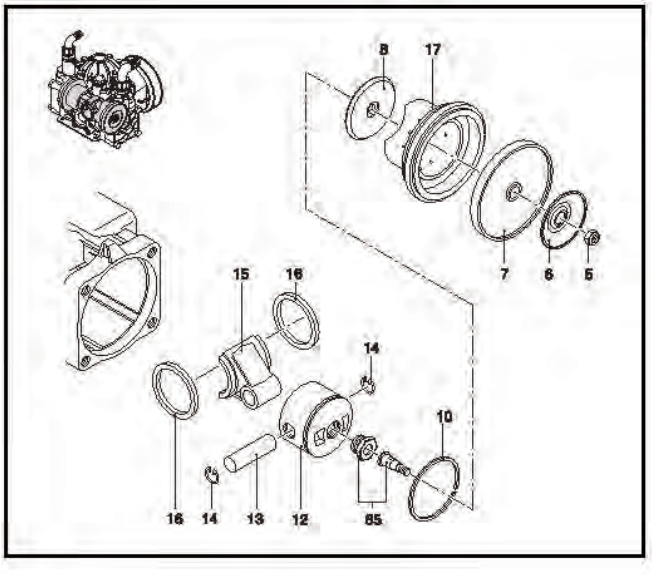


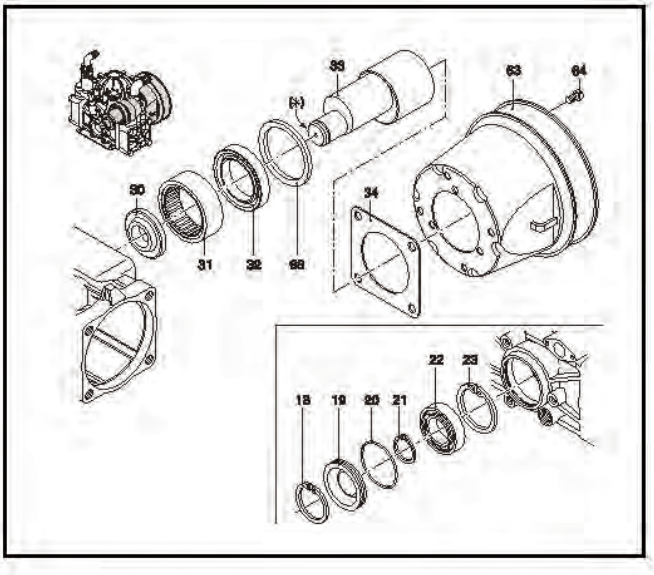
9910-KIT1916 O-Ring Kit

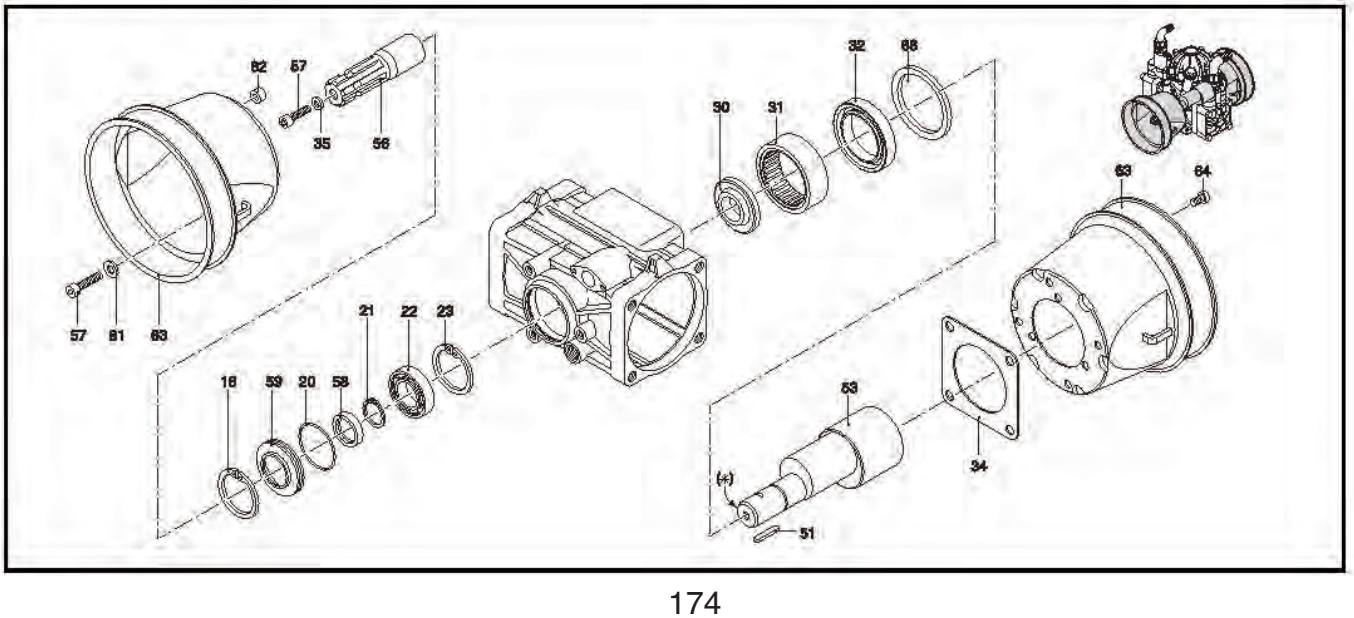
Ref. No.	Qty.
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28	2
30	1
39	2
42	4
49	1
51	1
67	1


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Models 9910-D50, D50AP-A, & D50-B

PENTAIR HYPRO®

Ref. No.	Part Number	Description	Qty.
1	9910-659011	Pump body	1
2	9910-650102	Left head SX	1
3	9910-320130	Nut	4
4	9910-650101	Right head DX	1
5	9910-160311	M 8 H 10 Nut	2
6	9910-650390	Retaining washer	2
7[2]	9910-650085	Diaphragm Desmopan (Std.)	2
7	9910-650082	Diaphragm Buna-N (Opt.)	2
7	9910-65008T	Diaphragm Buna-N with Teflon Coating (Opt.)	2
8	9910-650090	Diaphragm support washer	2
10	9910-650190	Piston ring	2
12	9910-650121	Piston	2
13	9910-650071	Piston pin	2
14	9910-160691	Retainer ring	4
15	9910-650142	Connecting rod	2
16	9910-650130	Con rod rings	2
17	9910-650111	Sleeve	2
18	9910-200390	Retainer ring	1
19	9910-650040	Pump body cover	1
20[1]	9910-650920	O-Ring	1
21	9910-650480	Retainer ring	1
22	9910-230330	Bearing	1
23	9910-161050	Retainer ring	1
24	9910-850850	Bolt	2
25	9910-550331	Washer	2
26	9910-650030	Oil Sight Glass	1
27[1]	9910-180101	O-Ring	2
28[1]	9910-550040	O-Ring	5
29	9910-550056	Sight Glass cap	1
30	9910-650160	Bearing spacer	1
31	9910-650200	Roller bearing	1
32	9910-1400150	Shaft seal	1
33	9910-650170	Shaft	1
34	9910-1400140	Flange	1
35	9910-961340	Washer	1
36[3]	9910-659050	Complete valve	4
37[2,3,1]	9910-320030	O-Ring	4
38	9910-659204	Complete lower air chamber	1

[1] Denotes O-Ring Kit 9910-KIT1919

[2] Denotes Diaphragm Kit (Desmopan) 9910-KIT1725

[3] Denotes Valve Kit 9910-KIT1920

Ref. No.	Description	Tightening Torque	
		In. Lbs.	Nm
3	Nut	271.0	29.4
5	Nut	171.4	19.6
43	Bolt	171.4	19.6
57	Bolt	171.4	19.6
64	Bolt	87.5	9.8
66	Plug	171.4	19.6
69	Plug	171.4	19.6
75	Bolt	435.0	49.0

Ref. No.	Part Number	Description	Qty.
39[2]	9910-650520	Air chamber diaphragm	1
39	9910-65052T	Air chamber diaphragm-Teflon(Opt.)	1
40	9910-659206	Upper air chamber	1
41	9910-180020	Air valve (includes #42)	1
42[1]	9910-650542	Gasket	1
43	9910-621780	M8 x 40 Bolt	10
45[1]	9910-390290	O-Ring	1
46	9910-650150	Suction manifold	1
47	9910-450120	Threaded adapter	1
48	9910-390290	O-Ring	1
49	9910-580060	Ring nut	1
50	9910-580040	Hose barb 1-1/4"	1
51	9910-650250	Key	1
53	9910-650171	Through-shaft (AP-A)	1
56	9910-650300	PTO shaft adapter	1
57	9910-680350	Bolt	4
58	9910-650490	Seal (AP-A model)	1
59	9910-650041	Spacer (AP-A model)	1
60	9910-650660	Diaphragm holder	1
61	9910-650670	Dampener diaphragm	1
62	9910-650690	Clamp	1
63	9910-1500350	Plastic shield	2
64	9910-820670	M10 x 16 Bolt	4
65	9910-659080	Complete bushing	2
66	2406-0023	Drain plug, oil	1
67[1]	9910-740290	O-Ring	1
68	9910-1400110	Flange	1
69	9910-540290	M8 x 25 Bolt	2
70	9910-450145	Discharge flange housing	1
71[1]	9910-550350	O-Ring	1
72	9910-110130	Hose barb and Nut 1/2"	1
74	9910-320392	Base	2
75	9910-750060	M12 x 65 Bolt	10
81	9910-380241	Washer	3
82	9910-1200521	Spacer	3
83	9910-820361	Plug	1



9910-KIT1725 Diaphragm Kit Desmopan

Ref. No.	Qty.
7[2]	2
37	4
39[2]	1



9910-KIT1920 Valve Kit

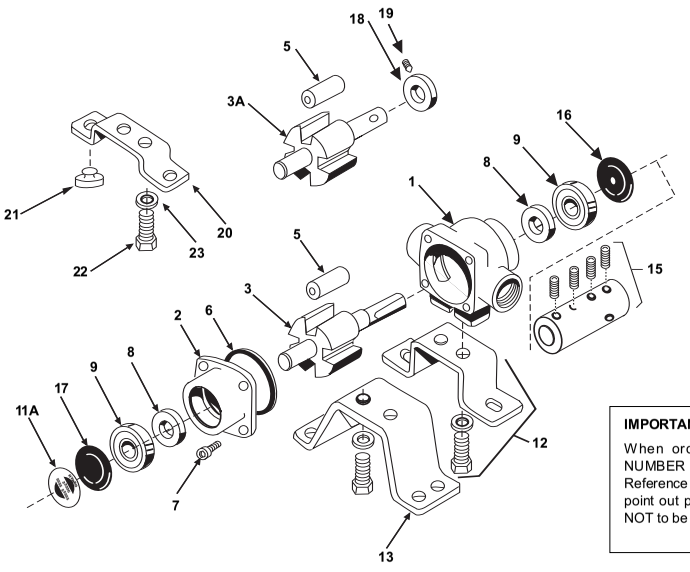
Ref. No.	Qty.
36	4
37	4



9910-KIT1919 O-Ring Kit

Ref. No.	Qty.
20	1
27	2
28	5
37	4
42	1
45	1
67	1
71	1

Series 4000



IMPORTANT:

When ordering parts, give PART NUMBER and PART DESCRIPTION. Reference Numbers are used ONLY to point out parts in the drawing and are NOT to be used as ordering numbers.

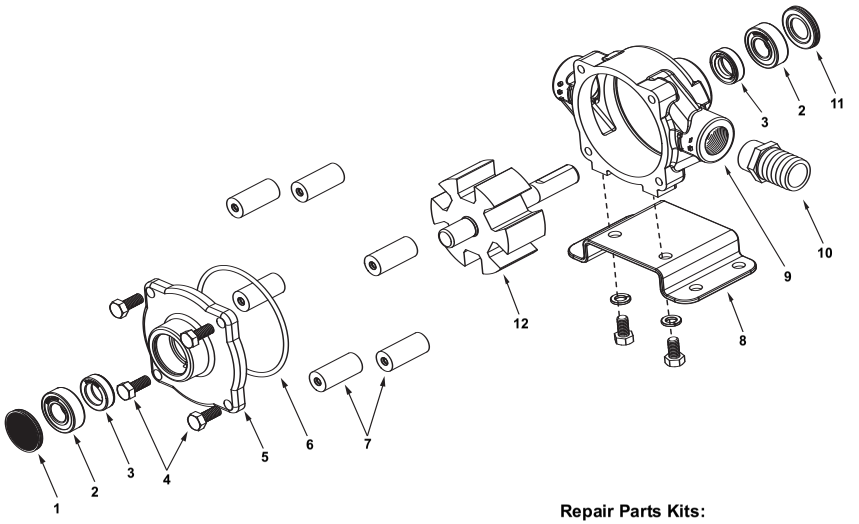
Ref. No.	Qty. Req'd.	Part Number	Description
1	1	0100-4001C	Body (Cast Iron) with Std. Seal (4001)
1	1	0100-4101C	Body (Cast Iron) with Std. Seal (4101)
1	1	0100-4001N	Body (Ni-Resist) with Std. Seal (4001)
1	1	0100-4101N	Body (Ni-Resist) with Std. Seal (4101)
1	1	0100-4001X	Body(SilverCast) with Std. Seal (4001)
1	1	0100-4101X	Body(SilverCast) with Std. Seal (4101)
2	1	0200-4001C	Endplate (Cast Iron) with Std. Seal (4001)
2	1	0200-4101C	Endplate (Cast Iron) with Std. Seal (4101)
2	1	0200-4001N	Endplate (Ni-Resist) with Std. Seal (4001)
2	1	0200-4101N	Endplate (Ni-Resist) with Std. Seal (4101)
2	1	0200-4001X	Endplate (SilverCast) with Std. Seal (4001)
2	1	0200-4101X	Endplate (SilverCast) with Std. Seal (4101)
3	1	0300-4001C	Rotor (Cast Iron) & Shaft Assembly (4001)
3	1	0300-4101C	Rotor (Cast Iron) & Shaft Assembly (4101)
3	1	3430-0765	Rotor Assembly (Std. 4001 Ni-Resist & XL)
3	1	3430-0766	Rotor Assembly (Std. 4101 Ni-Resist & XL)
3A	1	3430-0780	Rotor Assembly (Std. 4001 Ni-Resist & XL)
3A	1	3430-0781	Rotor Assembly (Std. 4101 Ni-Resist & XL)
5	4	1005-0002	Super Rollers (Std.)
5	4	1002-0002	Polypropylene Rollers (Optional)
5	4	1055-0002	Teflon Rollers (Optional)
6	1	1720-0104	O-Ring Gasket for Endplate
7	4	2220-0018	Endplate Screw
8	2	2107-0002	Viton Seal (Std.)
8	2	2102-0001	Buna-N Seal (Optional)
8	2	2102-0001T	Teflon Coated Buna-N Seal (Optional)

Ref. No.	Qty. Req'd.	Part Number	Description
9	2	2000-0010	Ball Bearing (High temp. grease)
11A	1		Name Plate (Specify pump model #)
12	1	3420-0024	Base Kit — **Sold Separately** Includes: 1 Base, 2 Bolts, and 2 Lock washers for mounting pump to electric motors with 3-1/2" shaft centerline
13	1	3420-0025	Base Kit — **Sold Separately** Includes: 1 Base, 2 Bolts, and 2 Lock washers for mounting pump to electric motors/gas engines with 4-3/16" shaft centerlines
15	1 kit	1320-0016	Adapter with 4 set screws for gas engine mount (5/8" x 5/8") — **Sold Separately**
15	1 kit	1320-0015	Adapter (5/8" x 3/4") — **Sold Separately**
16	1	2300-0023	Shaft Bearing Cover
17	1	2300-0021	Bearing Cover
18	1	1420-0001	Locking Collar
19	1	2230-0001	Set Screw
20	1	1510-0054	Base — **Sold Separately**
21	2	1450-0003	Bumper — **Sold Separately**
22	2	2210-0003	Bolt — **Sold Separately**
23	2	2260-0002	Lock Washer — **Sold Separately**

Repair Parts Kit No. 3430-0390 Consists of: (4) Ref. 5 Super Rollers, (1) Ref. 6 O-Ring Gasket, (2) Ref. 8 Viton Seals.

Repair Parts Kit No. 3430-0158 Consists of: (4) Ref. 5 Polypropylene Rollers, (1) Ref. 6 O-Ring Gasket, (2) Ref. 8 Viton Seals.

Series 6500



IMPORTANT:

When ordering parts, give PART NUMBER and PART DESCRIPTION. Reference Numbers are used ONLY to point out parts in the drawing and are NOT to be used as ordering numbers.

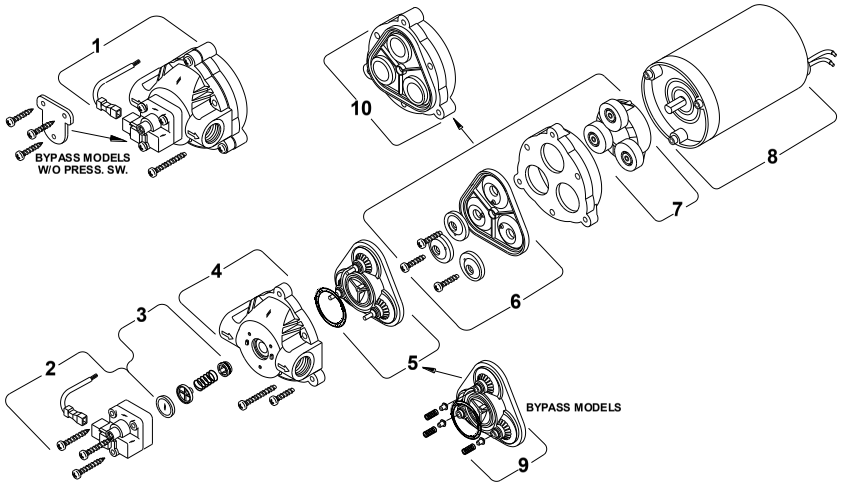
Repair Parts Kits:

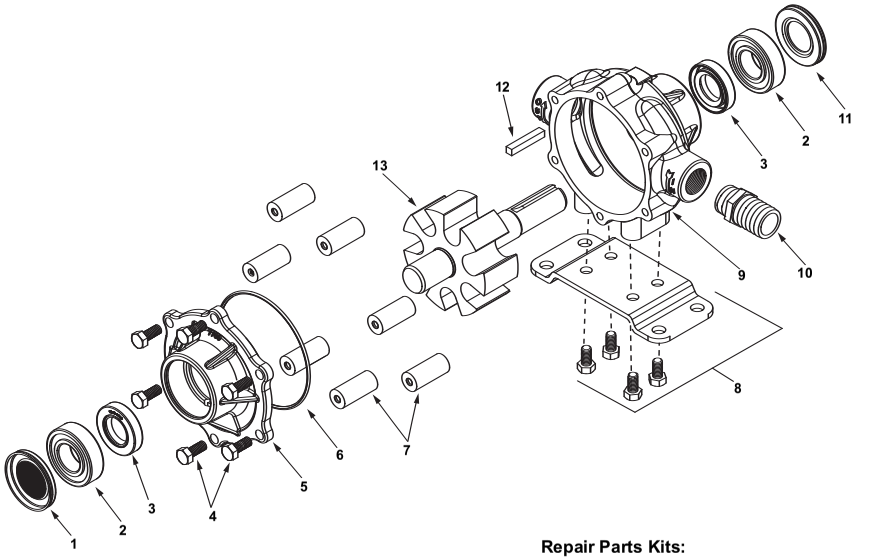
No. 3430-0380 Consists of (6) Ref. 7 Super Rollers, (1) Ref. 6 O-ring, and (2) Ref. 3 Viton seals.

No. 3430-0175 Consists of (6) Ref. 7 Polypropylene Rollers, (1) Ref. 6 O-ring, and (2) Ref. 3 Viton seals.

Ref. No.	Qty. Req'd.	Part Number	Description
1	1	2300-0021	Bearing Cover
2	2	2000-0010	Sealed Ball Bearing
3	2	2107-0002	Viton Seal (Standard)
3	2	2102-0001	Buna-N Seal (Optional)
3	2	2102-0001T	Teflon-coated Buna-N Seal (Optional)
4	4	2210-0004	Bolts
5	1	0200-6600C	Endplate (Cast Iron) with Seal
5	1	0200-6600N	Endplate (Ni-Resist) with Seal
5	1	0200-6600X	Endplate (SilverCast) with Seal
6	1	1720-0008	O-ring Gasket for Endplate
7	6	1005-0004	Super Roller (Standard)
7	6	1002-0004	Polypropylene Roller (Optional)
7	6	1055-0004	Teflon Roller (Optional)

Ref. No.	Qty. Req'd.	Part Number	Description
8	1 kit	3420-0023	Base Kit - **Sold Separately** Includes: (1) Base, (2) Bolts and (2) Washers
9	1	0100-6600C	Body (Cast Iron) with Seal
9	1	0100-6600N	Body (Ni-Resist) with Seal
9	1	0100-6600X	Body (SilverCast) with Seal
10	1	2404-0052	1" Hose Barb
11	1	2300-0023	Shaft Bearing Cover
12	1	0300-6600C	Rotor Assembly (Cast Iron)
12	1	3430-0767	Rotor Assembly (Std. Ni-Resist & XL)





IMPORTANT:

When ordering parts, give PART NUMBER and PART DESCRIPTION. Reference Numbers are used ONLY to point out parts in the drawing and are NOT to be used as ordering numbers.

Repair Parts Kits:

No. 3430-0384 Consists of (8) Ref. 7 Super Rollers, (1) Ref. 6 O-ring, and (2) Ref. 3 Viton seals

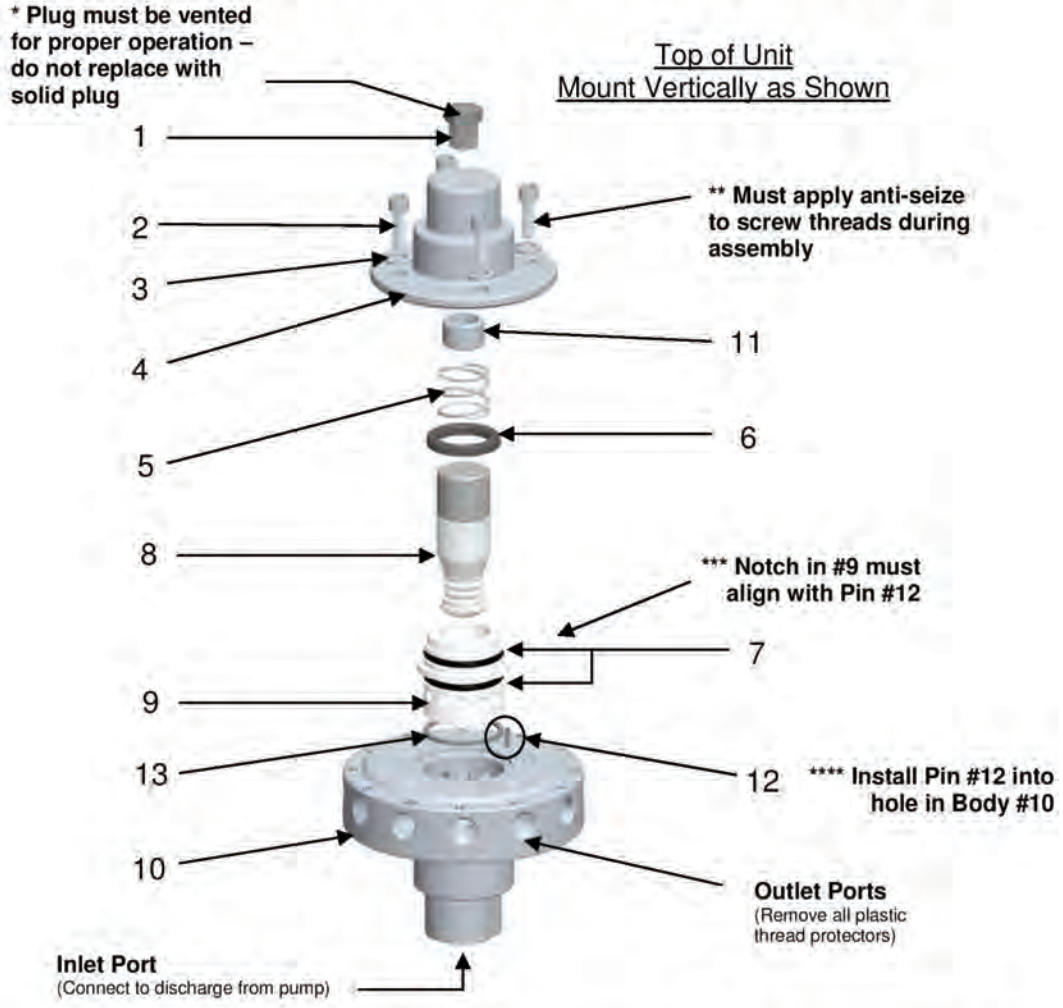
No. 3430-0167 Consists of (8) Ref. 7 Polypropylene Rollers, (1) Ref. 6 O-ring, and (2) Ref. 3 Viton seals

Model Number	1 Complete Pumphead Assembly	2 Switch Assembly	3 Check Valve Assembly	4 Upper Housing	5-9 Bypass/ Non-Bypass Assembly	6 Diaphragm Assembly	7-10 Drive Assembly	8 Motor
8000-543-238	N/A	94-375-18	94-374-08	94-379-00	94-390-05	N/A	94-385-32	11-111-00
8000-543-250	94-382-53	N/A	N/A	94-379-00	94-391-09	94-395-06	94-385-03	11-111-00
8000-514-144	N/A	94-230-35	94-237-00	94-231-30	94-232-00	N/A	94-238-03	N/A

Ref. No.	Qty. Req'd.	Part Number	Description
1	1	2300-0020	Bearing Cover
2	2	2008-0001	Sealed Ball Bearing
3	2	2112-0003	Viton Seal (Standard)
3	2	2112-0001	Buna-N Seal (Optional)
4	6	2210-0004	Bolts
5	1	0200-7700C	Endplate (Cast Iron) with Seal
5	1	0200-7700N	Endplate (Ni-Resist) with Seal
5	1	0200-7700X	Endplate (SilverCast) with Seal
6	1	1720-0014	O-ring Gasket for Endplate
7	8	1005-0004	Super Roller (Standard)
7	8	1002-0004	Polypropylene Roller (Optional)
7	8	1055-0004	Teflon Roller (Optional)
8	1 kit	3420-0010	Base Kit - **Sold Separately** Includes: (1) Base and (4) Bolts

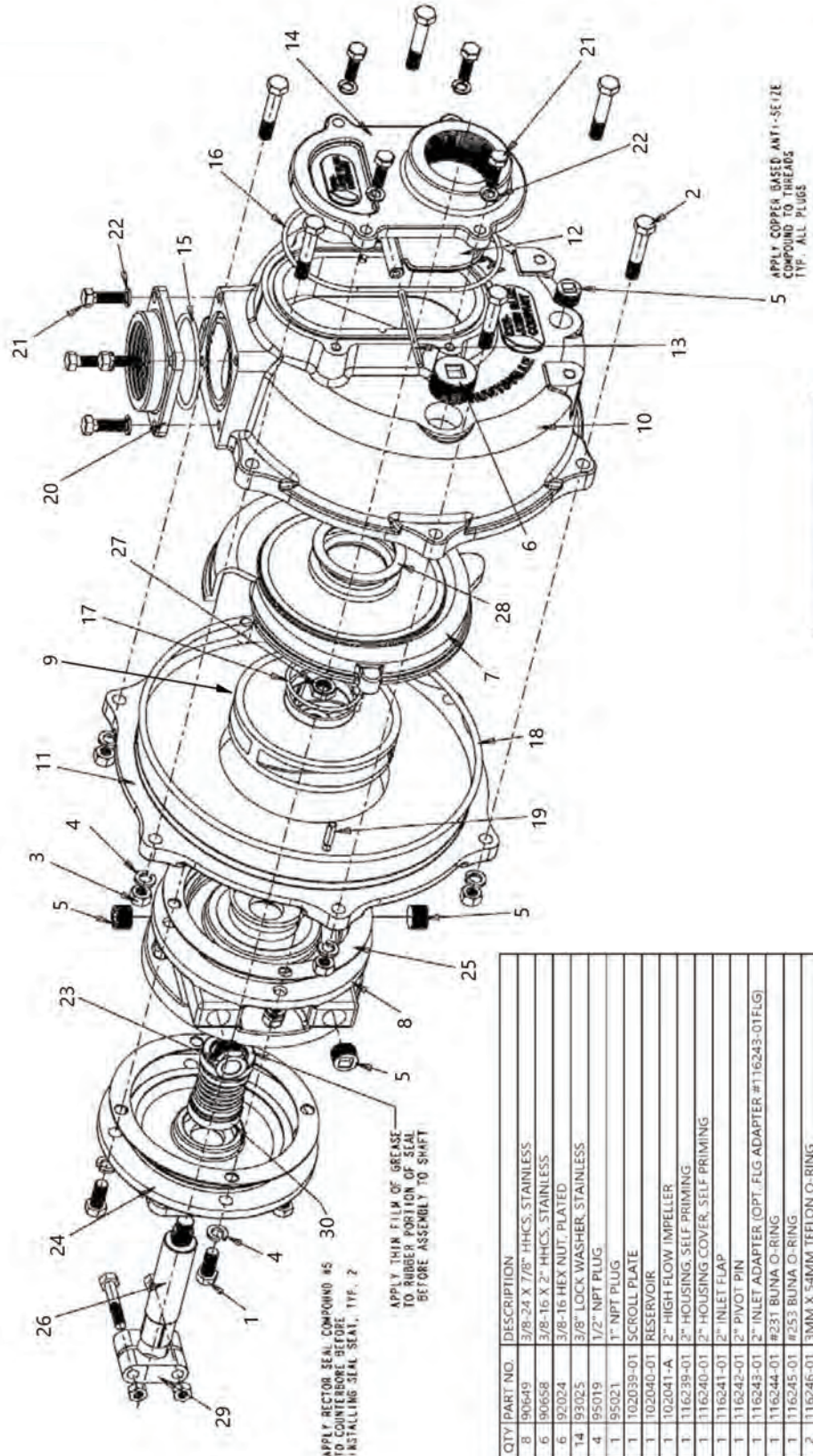
Ref. No.	Qty. Req'd.	Part Number	Description
9	1	0100-7700C	Body (Cast Iron) with Seal
9	1	0100-7700N	Body (Ni-Resist) with Seal
9	1	0100-7700X	Body (SilverCast) with Seal
10	1	2404-0052	1" Hose Barb
11	1	2300-0022	Shaft Bearing Cover
12	1	1610-0005	Key
13	1	0300-7700C	Rotor Assembly (Cast Iron)
13	1	0300-7700N	Rotor Assembly (Ni-Resist)
13	1	0300-7700X	Rotor Assembly (SilverCast)
13	1	0301-7700C	Rotor Assembly (Cast Iron) **Rev. Rot.**
13	1	0301-7700N	Rotor Assembly (Ni-Resist) **Rev. Rot.**
13	1	0301-7700X	Rotor Assembly (SilverCast) **Rev.Rot.**

6, 12, 20 PORT FLOW DIVIDER



		FD-0610 Parts List		FD-1210 Parts List		FD-2010 Parts List	
Item	Description	Part #	Quantity	Part #	Quantity	Part #	Quantity
1	Vented Cap Plug (* see note)	116024-01	1	116024-01	1	116024-01	1
2	Socket Head Screw (** see note)	90514	3	90514	4	90514	4
3	Lock Washer	93022	3	93022	4	93022	4
4	Cap	116028-01	1	115146-01	1	115401-01	1
5	Spring	115152-01	1	115152-01	1	115399-01	1
6	Needle Seal	115151-01	1	115151-01	1	115398-01	1
7	O-ring	115025-01	2	115025-01	2	115403-01	2
8	Needle	115106-91	1	115106-91	1	115109-91	1
9	Sleeve (*** see note)	116082-01	1	115387-A	1	115402-A	1
10	Body	116027-01	1	115102-01	1	115103-01	1
11	Spacer	115435-01	1	115435-01	1	115438-01	1
12	3/32 x 3/8 Roll Pin (**** see note)	115495-01	1	115495-01	1	115495-01	1
13	Sleeve Seal	116019-01	1	116019-01	1	116020-01	1
	115406-A FD-0610, FD-1210 Needle & Seal Kit	Includes 1 each of #5, 6, 8, 13, and two of #7					
	115407-A FD-0610, FD-1210 Seal Kit	Includes 1 each of #5, 6, 13, and two of #7					
	115433-A FD-2010 Needle & Seal Kit	Includes 1 each of #5, 6, 8, 13, and two of #7					
	115434-A FD-2010 Seal Kit	Includes 1 each of #5, 6, 13, and two of #7					

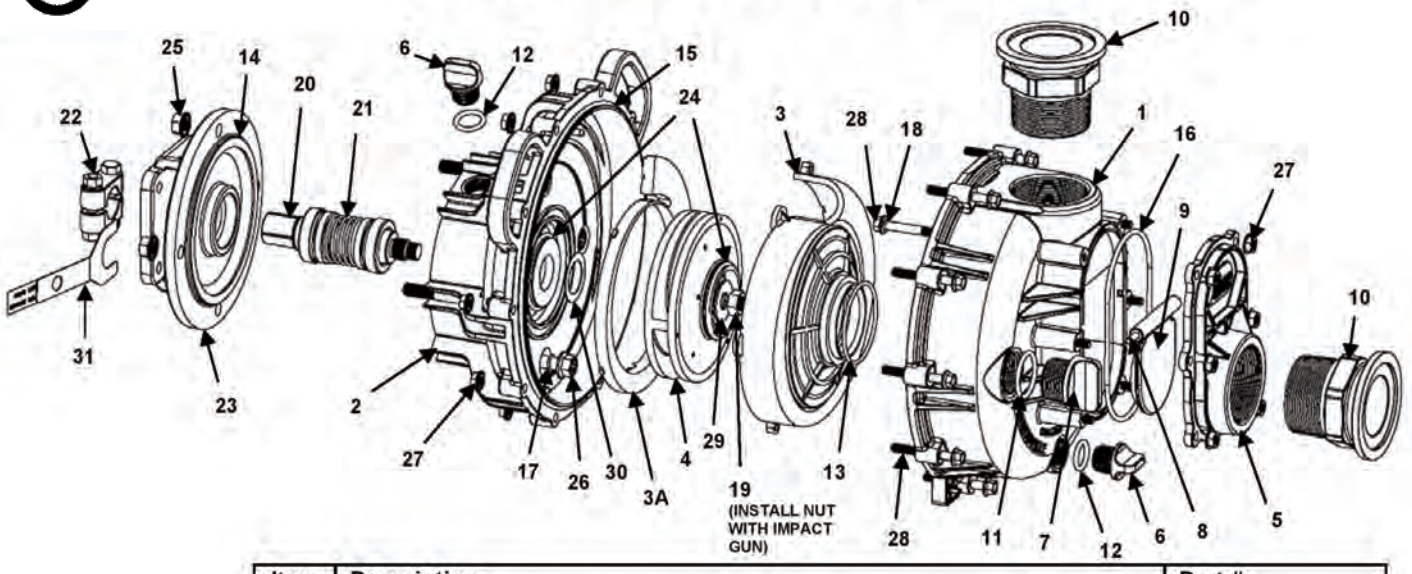
SP-3240 (2" SELF-PRIMING)



GASKET AND SEAL KIT: 116249

ITEM	QTY	PART NO.	DESCRIPTION
1	8	90649	3/8-24 X 7/8" HHCS, STAINLESS
2	6	90658	3/8-16 X 2" HHCS, STAINLESS
3	6	92024	3/8-16 HEX NUT, PLATED
4	14	93025	3/8" LOCK WASHER, STAINLESS
5	4	95019	1/2" NPT PLUG
6	1	95021	1" NPT PLUG
7	1	102039-01	SCROLL PLATE
8	1	102040-01	RESERVOIR
9	1	102041-A	2" HIGH FLOW IMPELLER
10	1	116239-01	2" HOUSING SELF PRIMING
11	1	116240-01	2" HOUSING COVER, SELF PRIMING
12	1	116241-01	2" INLET FLAP
13	1	116242-01	2" PIVOT PIN
14	1	116243-01	2" INLET ADAPTER (OPT. FLG ADAPTER #116243-01FLG)
15	1	116244-01	#231 BUNA O-RING
16	1	116245-01	#253 BUNA O-RING
17	2	116246-01	3MM X 54MM TEFLON O-RING
18	1	116247-01	#377 BUNA O-RING
19	2	L-4135	1/4 X 3/4" ROLL PIN, STAINLESS
20	1	S-3551	2" FPT OUTLET (OPT. 2" FLG ADAPTER #S-3551FLG)
21	8	S-3553	5/16-18 X 1" HHCS, STAINLESS
22	8	S-3554	5/16" LOCK WASHER, STAINLESS
23	1	S-3555	RESERVOIR VIEW WINDOW
24	1	S-3556	ADAPTER- GAS & PEDESTAL
25	2	S-3558	FLANGE ADAPTER GASKET
26	1	S-3568	IMPELLER SHAFT
27	1	S-3572	IMPELLER NUT
28	1	S-3577	SCROLL PLATE GASKET
29	1	S-3607	2" PUMP CLAMP ASSEMBLY
30	1	S-3565V	MECH. DOUBLE SEAL
24-E	-	S-3609	ADAPTER- ELECTRIC MOTOR

PSP-3240 2" POLY SELF-PRIMING



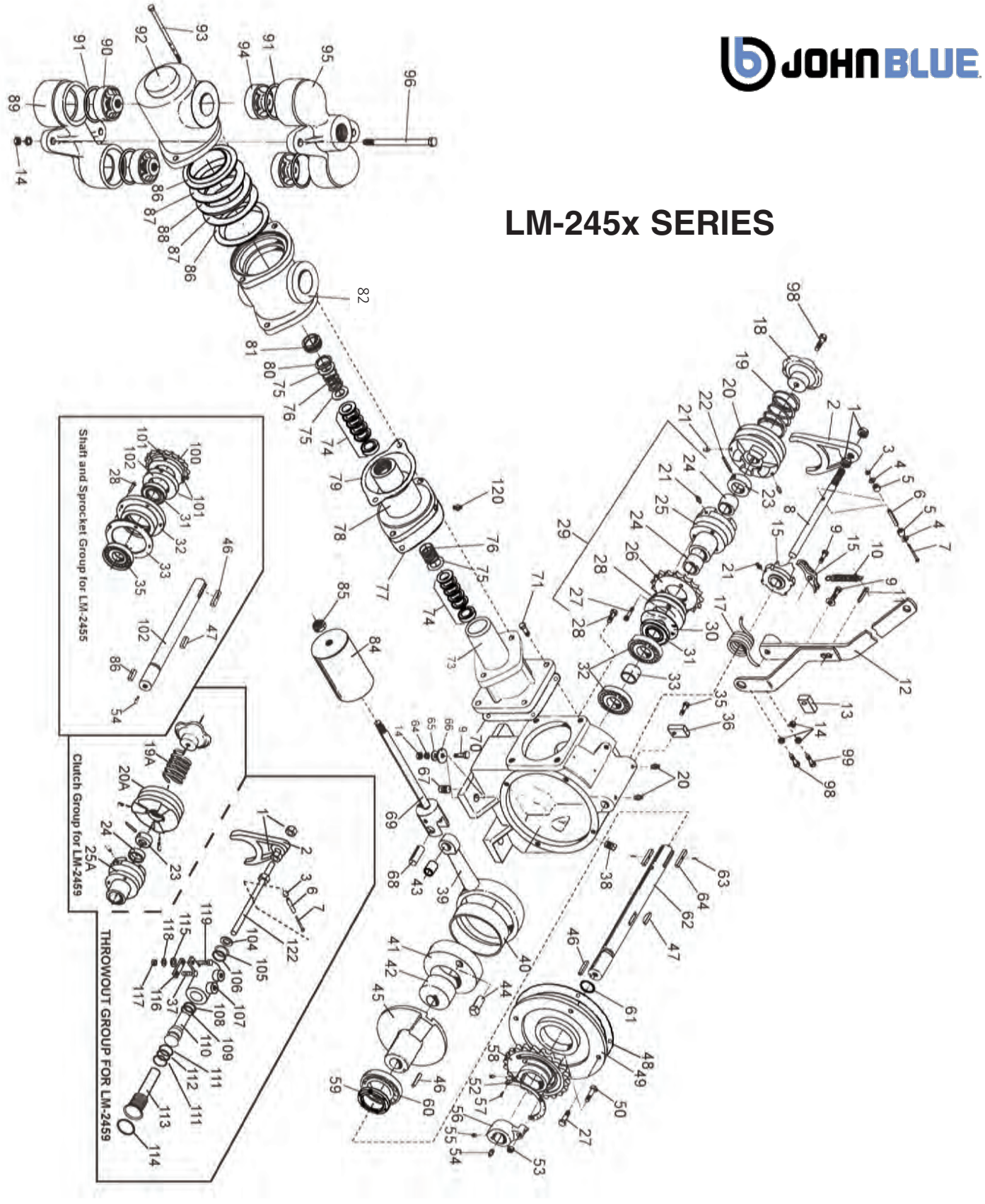
Item	Description	Part #
1	HOUSING	116282-01
2	BACKPLATE	116283-01
3/3A	SCROLL PLATE / SCROLL PLATE INSERT	116284-01A / 02A
4	IMPELLER	116285-91
5	INLET FLANGE – NPT	116286-01
6	½" PLUG	116288-01
7	1" PLUG	116289-01
8	PIVOT PIN – 316SS	116290-01
9	FLAP – EPDM	116241-01
10	M220 FLANGE ADAPTER TO 2" MPT – ***OPTIONAL***	116287-01
11	#123 VITON O-RING – 1" PLUG	116293-01
12	#115 VITON O-RING – ½" PLUG	116294-01
13	#139 VITON O-RING – VOLUTE	116295-01
14	#049 VITON O-RING – ENGINE ADAPTER	116296-01
15	#270 VITON O-RING – HOUSING	116297-01
16	#158 VITON O-RING – INLET FLANGE	116298-01
17	#012 VITON O-RING – 3/8" BOLTS	116300-01
18	#010 VITON O-RING – ¼" BOLTS	SMPT-0067
19	IMPELLER NUT - 316SS (approx. 30 ft-lb – use impact gun)	92033
20	IMPELLER SHAFT – 316SS	116299-01
21	DOUBLE SEAL – 1" VITON, CERAMIC	S-3565-V
22	SHAFT CLAMP	S-3607S
23	ENGINE ADAPTER	S-3556
24	TEFLON RING	116246-01
25	3/8"-16 FLANGED NUT (10 ft-lb max. for re-assembly)	91077
26	3/8"-16 X 3" LG. FLANGED BOLT, 316SS	116291-01
27	1/4"-20 FLANGED NUT (5 ft-lb max. for re-assembly)	92017
28	1/4"-20 X 2" LG. FLANGED BOLT, 316SS	116292-01
29	IMPELLER WASHER - 316SS	93044
30	PTFE REAR IMPELLER SHIM	116441-01
31	SHAFT INSTALLATION TOOL	116301-01

Seal & O-ring kit #116403-91

SP-3340/SP-3350/SP-3450 (3" SELF-PRIMING)

ITEM	QTY	PART NO.	DESCRIPTION
1	1	43005	MECH. DOUBLE SEAL (OPTIONAL CARBIDE SEAL #43017)
2	8	90652	3/8-16 X 1" HHMB- STAINLESS STEEL
3	6	90658	3/8-16 X 2" HHMB- STAINLESS STEEL
4	6	92024	3/8-16 HEX NUT- PLATED
5	18	93025	3/8 LOCKWASHER- STAINLESS STEEL
6	4	95019	1/2" NPT PLUG
7	1	95021	1" NPT PLUG
8	1	102035-01	RESERVOIR
9	1	116211-01	HOUSING- 3" SP
10	1	102036-01A	SCROLL PLATE (SP-3350 & SP-3450 ONLY)
11	1	116213-01	HOUSING COVER- 3"
12	1	116215-01	INLET FLANGE- 3" NPT (OPT. FLGD ADAPTER #116215-01FLG)
13	1	116620-01	INLET FLAP
14	1	116217-01	FLAP PIVOT PIN
15	1	116218-01	O-RING #379 BUNA
16	1	116219-01	O-RING #239 BUNA
17	1	116220-01	SCROLL PLATE GASKET
18	1	116221-01	O-RING #260 BUNA
19	1	116222-01	O-RING #237 TEFLON
20	1	116223-01	O-RING #231 TEFLON
21	1	116227-01	3" HIGH FLOW IMPELLER (SP-3350 & SP-3450 ONLY)
22	2	L-4135	1/4" X 3/4" ROLL PIN- STAINLESS STEEL
23	1	S-3555	RESEVIOR VIEW WINDOW
24	4	S-3557	3/8-24 HEX NUT- STAINLESS STEEL
25	2	S-3638	GASKET SEAL
26	1	S-3646	IMPELLER SHAFT, 1-1/8"
27	1	102189-01	ADAPTER, GAS ENGINE
28	1	S-3649	IMPELLER LOCK NUT
29	1	S-3657	3" FPT DISCHARGE FLANGE (OPT. FLGD ADAPTER #S-3657FLG)
30	4	S-3664	3/8 X 3-1/2" STUD- STAINLESS STEEL
31	1	S-3608S	3" CLAMP ASSEMBLY- STAINLESS STEEL
10-A	-	102036-01A	SCROLL PLATE (SP-3340 ONLY)
21-A	-	102037A	3" IMPELLER (SP-3340 ONLY)
26-B	-	114524-01	BS IMPELLER SHAFT 1"
27-B	-	114523-01	BS ENGINE ADAPTER
27-C	-	102190-01	ELECTRIC MOTOR ADAPTER
31-B	-	S-3608AS	BS ENGINE KEYED CLAMP

LM-245x SERIES



JOHN BLUE PARTS LIST LM-245x SERIES

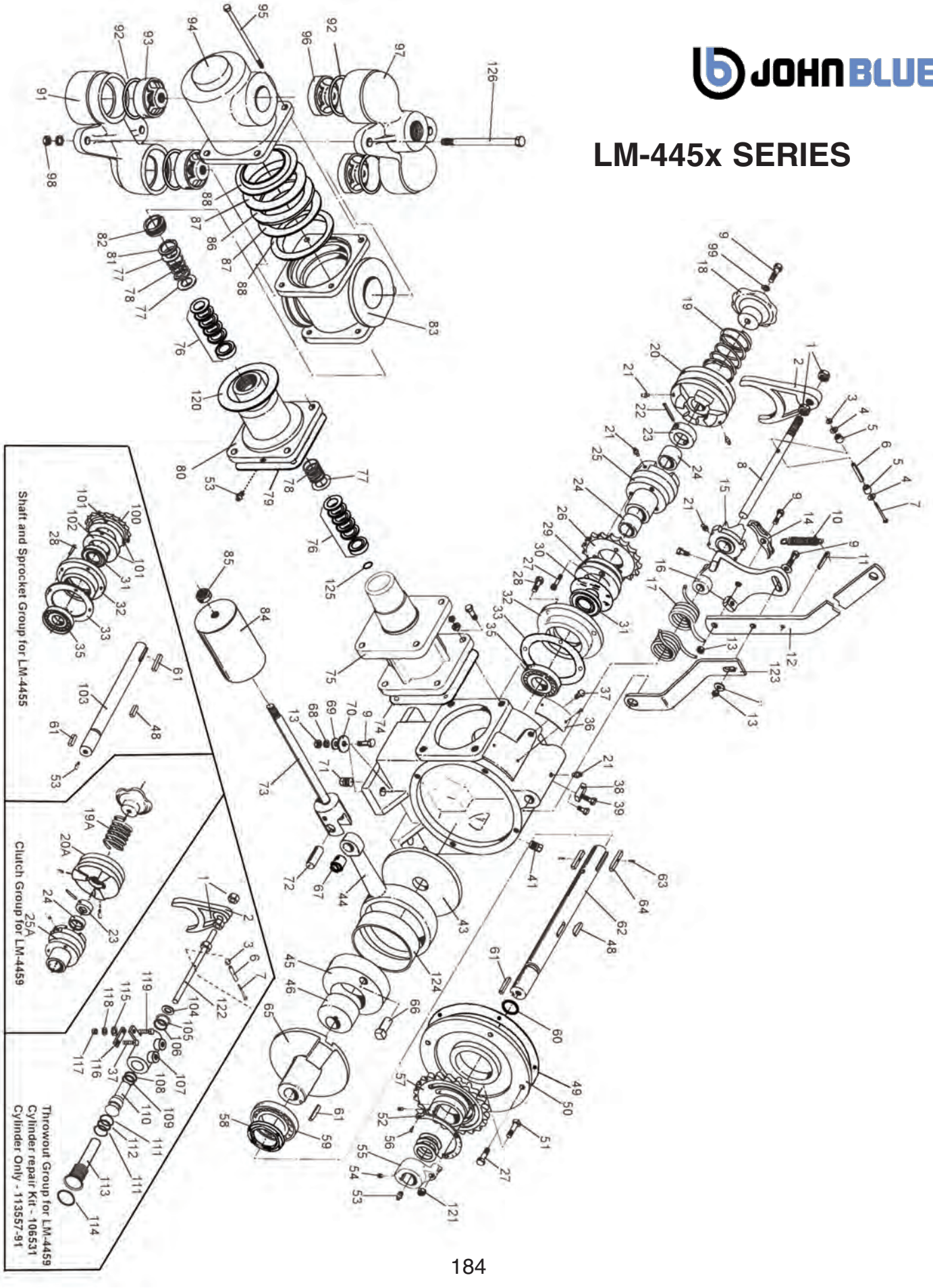
Ref No.	Part No.	Description	2450 Qty.	2455 Qty.	2459 Qty.
1	92037	5/8" Jam Nut	2	0	2
2	A-70	Throw-Out Yoke	1	0	1
3	92014	#10 Square Nut	1	0	0
4	A-697	Washer	2	0	0
5	A-2762	Cam Roller	2	0	0
6	A-2763	Roll Pin	1	0	1
7	90953	2-1/4 RD HD Screw	1	0	0
8	A-2761	Throw-Out Rod	1	0	0
9	90655	3/8 x 1 1/2 Hex Bolt	5	4	4
10	F-48	Throw-Out Lever Spring	1	0	0
11	94010	5/32 x 1 Cotter Pin	1	0	0
12	A-2756	Throw-Out Lever	1	0	0
13	A-2760	Spring Clip	1	0	0
14	92024	3/8 Hex Nut	11	6	6
14**	T-2010	3/8 Hex Nut, SS	2	2	2
15	A-2758-A	Pawl	1	0	0
16	A-2757-A	Throw-Out Cam	1	0	0
17	A-37-R	R H Torsion Spring	1	0	0
18	A-50	Handwheel	1	0	1
19	HA-57	Safety Clutch Spring	1	0	0
19A	108907-01	Safety Clutch Spring	0	0	1
20	A-260	Clutch	1	0	0
20A	108905-91	Clutch	0	0	1
21	H-28	Grease Fitting	5	1	4
22	L-4249	Drive Pin	1	0	1
23	105373-01	Clutch Collar	1	0	1
24	A-116	Oilite Bushing	2	0	2
25	L-4008-A	Carrier	1	0	0
25A	108906-01	Carrier	0	0	1
26	L-4006	16T Sprocket	1	0	1
27	90993	1/4 x 1 1/2 Bolt	3	0	3
27A	90637	5/16 x 1 Hex Bolt	4	4	4
28	L-4009	5/16 x 1 Hex Bolt	1	0	1
29	L-4004	16T Sprocket Assembly	1	0	1
30*	110155-01	Washer	1	0	1
31*	115621-01	Oil Seal	1	1	1
32	L-1017	Crankshaft Bearing	2	2	2
33	L-1016	Bearing Spacer	1	1	1
34	111958-01	Name Plate	1	1	1
35	90634	5/16 x 1/2 Hex Bolt	3	3	3
36	A-2759	Spring Clip (Lower)	1	0	0
37	L-1001-A	Crankcase	1	1	1
38	S-350	Vent Plug	1	1	1
39	L-1008-B	Connecting Rod	1	1	1
40	L-928	Bearing	1	1	1
41	L-1013-A	Large Eccentric	1	1	1
42	L-1015	Small Eccentric	1	1	1
43*	113588-01	Connecting Road Bushing	1	1	1
44	L-3004	Eccentric Pin	1	1	1
45	L-1089	Stroke Locating Sleeve	1	1	1
46	L-1020	Setting Arm Key	2	2	2
47	108093-01	Key, Woodruff	1	1	1
48*	L-1006	Cover Plate Gasket	1	1	1
49	L-1004-A	Cover Plate	1	1	1
50	91017	3/8 x 1 3/4 Sq Head Bolt	1	1	1
51	90636	5/16 x 3/4 Hex Bolt	4	4	4
52	L-1002	Pump Setting Scale	1	1	1
53	A-3097	3/8 Self Locking Nut	1	1	1
54	H-30	Grease Fitting	1	1	1
55	90532	5/16 x 3/8 Set Screw	3	3	3
56	105933-91	Stroke Setting Arm	1	1	1
57	A-368	Setting Scale.Screw	3	3	3
58	105932-91	Stroke Setting.Flange	1	1	1
59*	115622-01	Oil Seal	1	1	1
60	L-1007-A	Crankshaft Bearing	1	1	1
61*	L-1022	Crankshaft O-Ring	1	1	1
62	L-1019	Crankshaft	1	0	1
63	A-261	Square Key	2	0	2
64	93024	3/8 Lock Washer	4	4	4
65	93011	3/8 Flat Washer	4	4	4
66	A-147	Leg Mounting Pad	4	4	4
67	C-431-B	Plug	3	3	3
68	105895-01	Crosshead Pin	1	1	1
69	105926-91	Piston Rod Assembly	1	1	1
70*	L-1038	Crosshead Guide Gasket	1	1	1
71	90637	5/16 x 1 Hex Bolt	4	4	4
72	90692	1/2 x 2 Hex Bolt	2	2	2
72**	90693	1/2 x 2 Hex Bolt, SS	2	2	2
74*	L-1109	Rod Vee Packing Set	2	2	2
73	L-1000	Crosshead Guide	1	1	1
75	L-1041	Washer Packing	3	3	3
76	L-1063	Packing Spring	2	2	2
77*	L-1030	Stuffing Box Gasket	1	1	1
78	L-3031-1	Outboard Stuffing Box	1	1	1
78**	L-1031-1S	Outboard Stuffing Box, SS	1	1	1
79*	L-1023	Gasket	1	1	1
80	L-1042	Retaining Ring	1	1	1
81	L-1031-2	Stuffing Box Insert	1	1	1
82	113650-01	Inboard Cylinder	1	1	1
82**	113650-01	Inboard Cylinder, SS	1	1	1
83	92029 1/2	Hex Nut	4	4	4
83**	92030 1/2	Hex Nut, SS	4	4	4
84	103290-91	Piston Plunger Assembly	1	1	1
85	L-1047	Self Locking Nut	1	2	1
86*	L-1045-V	Flange Plunger Packing	2	2	2
87*	L-1098	Packing Adj. Gasket	2	2	2
88	L-1044-A	Flange Packing Washer	1	1	1
89	113649-01	Suction Manifold	1	1	1
89**	113649-01S	Suction Manifold, SS	1	1	1
90	106489-92	Suction Valve Light Spring	2	2	2
91*	L-3031	Valve O-Ring	4	4	4
92	113651-01	Outboard Cylinder	1	1	1
92**	113651-01S	Outboard Cylinder, SS	1	1	1
93	90689	1/2 x 1 1/2 Hex Bolt	2	2	2
93**	90687	1/2 x 1 1/2 Hex Bolt, SS	2	2	2
94	106490-92	Discharge Valve Heavy Spring	2	2	2
95	113648-01	Discharge Manifold	1	1	1
95**	113648-01S	Discharge Manifold, SS	1	1	1
96	90672	Bolt 3/8 x 7 1/2 HHMB	2	2	2
96**	91071	Bolt 3/8 x 6 Bolt, SS	2	2	2
97	C-3518	Plastic Plug	1	1	1
98	90653	3/8 x 1-1/4 HHMB	2	0	1
99	90657	3/8 x 2 HHMB	1	0	1
100	113685-01	16T Sprocket	0	1	0
101	90986	3/8 x 5/8 Screw	0	4	0
102	L-1019-A	Crankshaft	0	1	0
103	114706-91	Rod Throw-Out Assembly	0	0	1
104	93016	SAE Flat Washer	0	0	1
105	105448-01	Back-Up-Ring	0	0	1
106	A-3776	O-Ring	0	0	1
107	105447-01	Body	0	0	1
108	105452-01	Back-Up-Ring	0	0	2
109	105461-01	O-Ring	0	0	1
110	105449-01	Cylinder	0	0	1
111	105462-01	Body O-Ring	0	0	2
112	A-2849	O-Ring	0	0	1
113	105463-01	Piston	0	0	1
114	105500-01	Body O-Ring	0	0	1
115	93010	5/16 Flat Washer	0	0	2
116	113646-01	Strap	0	0	2
117	92020	5/16 Hex Nut	0	0	2
118	93023	5/16 Lock Washer	0	0	4
119	90636	5/16 x 3/4 Hex Bolt	0	0	2
120	114652-01	Grease Fitting	1	1	1
121	110147-01	Spacer	0	1	0

*** Parts contained in 113717 Repair Kit**

****Parts Unique to the LM-2450-SS Series ONLY**

JOHN BLUE

LM-445x SERIES



PARTS LIST LM-445x SERIES

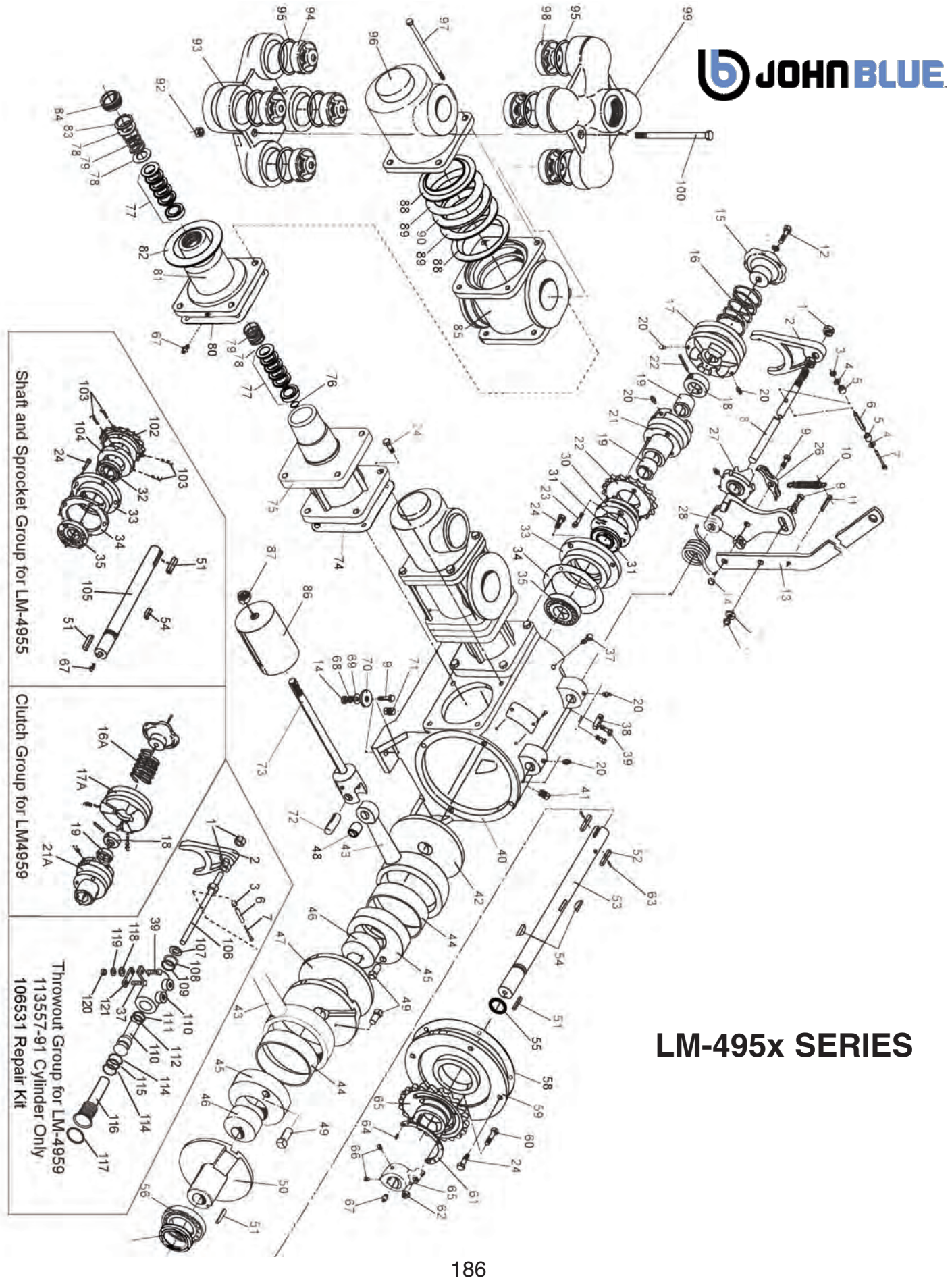
JOHN BLUE

REF. NO.	PART NO.	ITEM DESCRIPTION	4450 QTY.	4455 QTY.	4459 QTY.
1	92037	5/8" Jam Nut	2	0	1
2	113628-01	Throw-Out Yoke	1	0	1
3	92014	#10 Square Nut	1	0	0
4	A-697	Washer	2	0	0
5	A-2762	Cam Roller	2	0	0
6	A-2763	Roll Pin	1	0	0
7	90953	2 1/4 RD HD Screw	1	0	0
8	L-4011	Throw-Out Rod	1	0	1
9	90655	3/8 x 1 1/2 Hex Bolt	6	4	5
10	F-48	Throw-Out Lever Spring	1	0	0
11	94010	5/32 x 1 Cotter Pin	1	0	0
12	L-3064	Throw-Out Lever	1	0	0
13	92024	3/8 Hex Nut	10	8	8
13**	T-2010	3/8 Hex Nut-SS	6	6	6
14	A-2758-A	Pawl	1	0	0
15	A-2757-A	Throw-Out Cam	1	0	0
16	L-3007	Throw-Out Bracket	1	0	0
17	114165-01	R H Torsion Spring	1	0	1
18	A-50	Handwheel	1	0	1
19	HA-57	Safety Clutch Spring	1	0	0
19A	108907-01	Safety Clutch Spring	0	0	1
20	A-260	Clutch	1	0	0
20A	108905-91	Clutch	0	0	1
21	H-28	Grease Fitting	5	2	5
22	L-4249	Drive Pin	1	0	1
23	105373-01	Clutch Collar	1	0	1
24	A-116	Oilite Bushing	2	0	2
25	L-4008-A	Carrier	1	0	0
25A	108906-01	Carrier	0	0	1
26	L-4006 L-4007	16T Sprocket (OR) 18T Sprocket	1	0	1
26A	L-4004 L-4005	16T Sprocket (OPT) 18T Sprocket Assembly	1	0	0
27	90993	1/4 x 1 1/2 Bolt	3	0	3
28	90637	5/16 x 1 Hex Bolt	12	12	12
29	L-4009	Retaining Collar	1	0	1
30*	110155-01	Washer	1	1	1
31*	115621-01	Oil Seal	1	1	1
32	L-3023	Bearing Housing	1	1	1
33*	L-3021	Bearing Housing Gasket	1	1	1
35	L-3019	Crankshaft Bearing	1	1	1
36	111958-01	Name Plate	1	1	1
37	90634	5/16 x 1/2 Hex Bolt	1	2	1
38	L-4014	Spring Achor	1	0	0
39	90636	5/16 x 3/4 Hex Bolt	1	0	1
40	113632-01	Crankcase Assembly	1	1	1
41	S-350	Vent Plug	1	1	1
43	L-3020	Crankshaft Disc	1	1	1
44	113645-91	Connecting Rod	1	1	1
45	113633-01	Large Eccentric	1	1	1
46	L-3017	Small Eccentric	1	1	1
48	A-4333	#808 Woodruff Key	1	1	1
49*	L-3002	Cover Plate Gasket	1	1	1
50	L-3001	Cover Plate	1	1	1
51	91017	3/8 x 1 3/4 Sq Head Bolt	1	1	1
52	114763-01	Pump Setting Scale	1	1	1
53	H-30	Grease Fitting	2	2	2
54	90532	5/16 x 3/8 Set Screw	3	3	3
55	115630-91	Setting Pointer Assy.	1	1	1
56	A-368	Setting Scale Screw	3	3	3
57	105933-91	Stroke Setting Flange	1	1	1
58*	115622-01	Oil Seal	1	1	1
59	L-1007-A	Crankshaft Bearing	1	1	1
60*	L-1022	Crankshaft O-Ring	1	1	1
61	L-1020	Setting Arm Key	2	3	2
62	L-4012	Crankshaft	1	0	1
64	A-261	Square Key	2	0	2

REF. NO.	PART NO.	ITEM DESCRIPTION	4450 QTY.	4455 QTY.	4459 QTY.
65	L-3056	Stroke Locating Sleeve	1	1	1
66	L-3004	Eccentric Pin	1	1	1
67*	113588-01	Connector Rod Bushing	1	1	1
68	93024	3/8 Lock Washer	4	4	4
69	93011	3/8 Flat Washer	4	4	4
70	A-147	Leg Mounting Pad	4	4	4
71	C-431-B	Plug	3	3	3
72	105895-01	Crosshead Pin	1	1	1
73	105900-91	Piston Rod Assembly	2	2	2
74*	L-3052	Crosshead Gde. Gasket	1	1	1
75	111935-01	Crosshead Guide	1	1	1
76*	L-1109	Rod Vee Packing Set	2	2	2
77	L-1041	Washer	3	3	3
78	L-1063	Packing Spring	2	2	2
79*	L-3074	Stuffing Box Gasket	1	1	1
80	111937-01	Outboard Stuffing Box	1	1	1
80**	111937-01S	Outboard Stuffing Box-SS	1	1	1
81	L-1042	Retaining Ring	1	1	1
82	L-1031-2	Stuffing Box Insert	1	1	1
83	111938-01	Inboard Cylinder	1	1	1
83**	111938-01S	Inboard Cylinder-SS	1	1	1
84	112816-91	Piston Plunger Assembly	1	1	1
85	L-1047	Self Locking Nut	1	1	1
86	L-1044-A	Flange Packing Washer	1	1	1
87*	L-1098	Packing Adj. Gasket	2	2	2
88*	L-1045-V	Flange Plunger Packing	2	2	2
90	L-3115	1/2 Plastic Plug	1	1	1
91	111945-01	Suction Manifold	1	1	1
91**	111945-01S	Suction Manifold-SS	1	1	1
92*	A-2848	Valve O-Ring	4	4	4
93	109112-92	Suction Valve Light Spring	2	2	2
94	111940-01	Outboard Cylinder	1	1	1
94**	111940-01S	Outboard Cylinder-SS	1	1	1
95	91051	3/8 x 8 Hex Bolt	4	4	4
95**	91072	3/8 x 5-1/2 Hex Bolt - SS	4	4	4
96	109113-92	Discharge Valve Heavy Spring	2	2	2
97	111944-01	Discharge Manifold	1	1	1
97**	111944-01S	Discharge Manifold-SS	1	1	1
98	C-3517	Plastic Plug	1	1	1
100	106532-01	Sprocket	0	1	0
101	90986	3/8 x 5/8 Screw	0	4	0
102	110147-01	Spacer	0	1	0
103	103453-02	Crankshaft	0	1	0
104	93016	SAE Flat Washer	0	0	1
105	105448-01	Back-Up-Ring	0	0	1
106	A-3776	O-Ring	0	0	1
107	105447-01	Body	0	0	1
108	105452-01	Back-Up-Ring	0	0	1
109	105461-01	O-Ring, Piston Rod	0	0	1
110	105449-01	Cylinder	0	0	1
111	105462-01	Backup Ring	0	0	2
112	A-2849	O-Ring	0	0	1
113	105463-01	Piston	0	0	1
114	105500-01	Body O-Ring	0	0	1
115	93010	5/16 Flat Washer	0	0	2
116	105501-01	Strap	0	0	2
117	92020	5/16 Hex Nut	0	0	2
118	93023	5/16 Lock Washer	0	0	4
119	90635	Hex Head Bolt	0	0	1
120*	L-3035	Gasket	1	1	1
121	A-3097	3/8 Lock Nut	1	1	1
122	114705-91	Rod Throw-Out Assembly	0	0	1
123	L-4025	Support Handle	1	0	0
124	113629-01	Bearing, Crank Pin	1	1	1
125*	111943-01	O-Ring	1	1	1
126	91063	Bolt 3/8 x 7 Hex Bolt	2	2	2
126**	91063	Bolt 3/8 x 7 Hex Bolt	2	2	2

* Parts Contained in 111953 Repair Kit

** Parts Unique to the LM-4450-S Series Only


JOHN BLUE
LM-495x SERIES
Shaft and Sprocket Group for LM-4955
Clutch Group for LM4959
Throwout Group for LM-4959
113557-91 Cylinder Only
106531 Repair Kit

JOHN BLUE PARTS LIST LM-495x SERIES

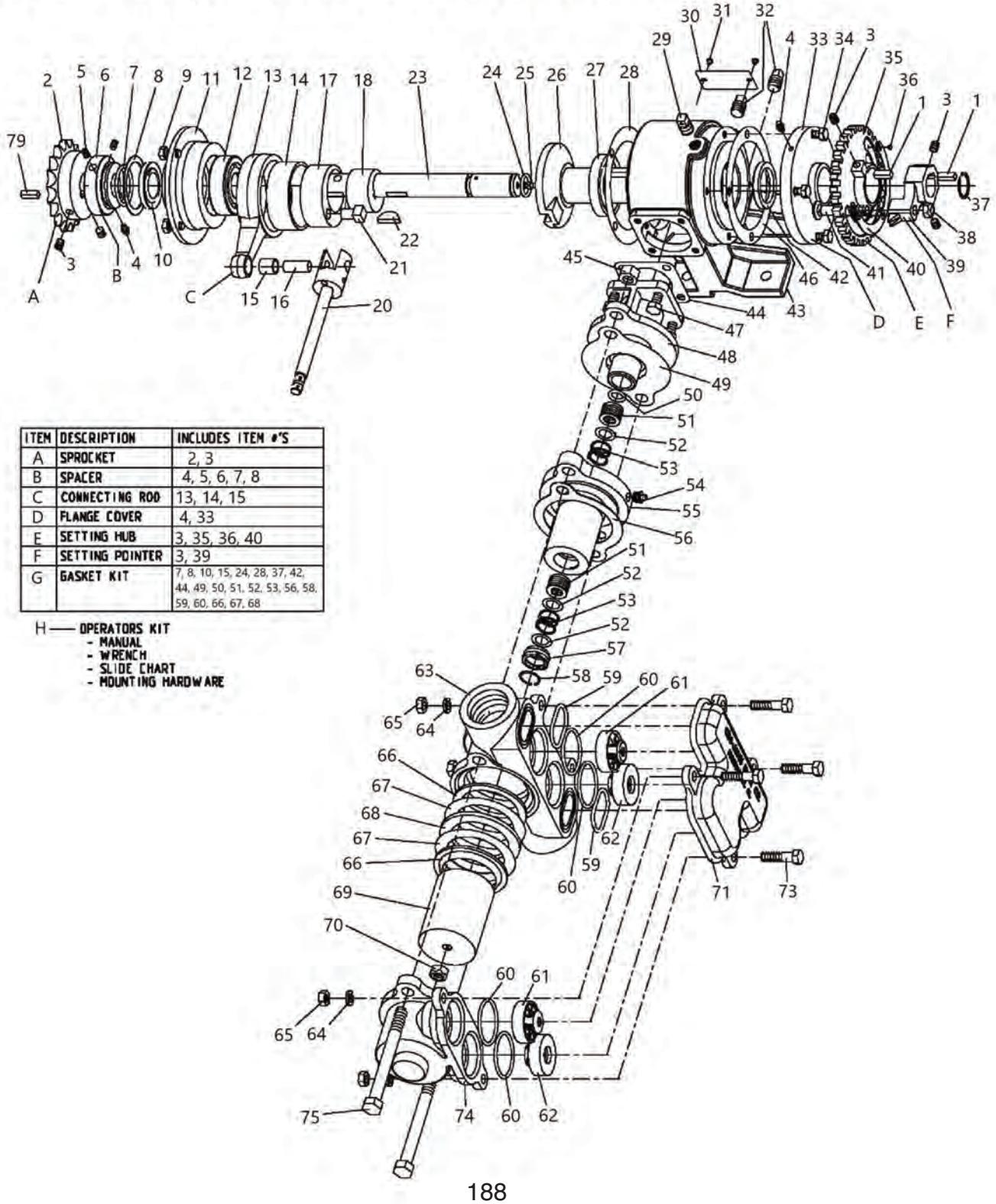
REF. NO.	PART NO.	ITEM DESCRIPTION	4950 QTY.	4955 QTY.	4959 QTY.
1	92037	5/8" Jam Nut	2	0	2
2	113628-01	Throw-Out Yoke	1	0	1
3	92014	#10 Square Nut	1	0	0
4	A-697	Washer	2	0	0
5	A-2762	Cam Roller	2	0	0
6	A-2763	Roll Pin	1	0	0
7	90953	2 1/4 RD HD Screw	1	0	0
8	L-3006	Throw-Out Rod	1	0	0
9	90655	3/8 x 1 1/2 Hex Bolt	5	4	4
10	F-48	Throw-Out Lever Spring	1	0	0
11	94010	5/32 x 1 Cotter Pin	1	0	0
12	90653	3/8 x 1 1/4 Hex Bolt	2	0	1
13	L-3064	Throw-Out Lever	1	0	0
14	92024	3/8 Hex Nut	14	12	12
14**	T-2010	3/8 Hex Nut-SS	14	12	12
15	A-50	Handwheel	1	0	1
16	HA-57	Safety Clutch Spring	1	0	0
16A	108907-01	Safety Clutch Spring	0	0	1
17	A-260	Clutch	1	0	0
17A	108905-91	Clutch	0	0	1
18	105373-01	Clutch Collar	1	0	1
19	A-116	Olite Bushing	2	0	2
20	H-28	Grease Fitting	6	2	5
21	L-4008-A	Sprocket Carrier	1	0	0
21A	108906-01	Sprocket Carrier	0	0	1
22	L-4007	18T Sprocket	1	0	1
23	90993	1/4 x 1 1/2 Bolt	3	0	3
24	90637	5/16 x 1 Hex Bolt	16	16	16
25	L-4249	Drive Pin	1	0	1
26	A-2758-A	Pawl	1	0	0
27	A-2757-A	Throw-Out Cam	1	0	0
28	L-3007	Throw-Out Bracket	1	0	0
29	114165-01	R H Torsion Spring	1	0	1
30	L-4009	Retaining Collar	1	0	1
31*	110155-01	Washer	1	1	1
32*	115621-01	Oil Seal	1	1	1
33	L-3023	Bearing Housing	1	1	1
34*	L-3021	Bearing Housing Gasket	1	1	1
35	L-3019	Cranskshaft Bearing	1	1	1
36	111958-01	Name Plate	1	1	1
37	90634	5/16 x 1/2 Hex Bolt	1	2	2
38	L-4014	Spring Achor	1	0	0
39	90636	5/16 x 3/4 Hex Bolt	1	0	2
40	113634-01	Crankcase Assembly	1	1	1
41	S-350	Vent Plug	1	1	1
42	L-3020	Crankshaft Disc	1	1	1
43	113645-91	Connecting Rod	2	2	2
44	113629-01	Bearing Crank Pin	2	2	2
45	113633-01	Large Eccentric	2	2	2
46	L-3017	Small Eccentric	2	2	2
47	L-3018	Stroke Transfer Sleeve	1	1	1
48*	113588-01	Connecting Rod Bushing	2	2	2
49	L-3004	Eccentric Pin	3	3	3
50	L-3056	Stroke Locating Sleeve	1	1	1
51	L-1020	Setting Arm Key	2	2	2
52	A-261	Clutch Key	2	0	2
53	L-3013	Crankshaft	1	0	1
54	A-4333	Key, Woodruff	2	2	2
55*	L-1022	Crankshaft O-Ring	1	1	1
56	L-1007-A	Crankshaft Bearing	1	1	1
57*	115622-01	Oil Seal	1	1	1
58*	L-3002	Cover Plate Gasket	1	1	1
59	L-3001	Cover Plate	1	1	1
60	91017	3/8 x 1-3/4 Sq Head Bolt	1	1	1
61	114763-01	Pump Setting Scale	1	1	1
62	A-3097	3/8 Self Locking Nut	1	1	1

REF. NO.	PART NO.	ITEM DESCRIPTION	4950 QTY.	4955 QTY.	4959 QTY.
63	105932-91	Stroke Setting Flange	1	1	1
64	A-368	Setting Scale Screw	3	3	3
65	105933-91	Stroke Setting Arm	1	1	1
66	90532	5/16 x 3/8 Set Screw	3	3	3
67	H-30	Grease Fitting	3	3	3
68	93024	3/8 Lock Washer	4	4	4
69	93011	3/8 Flat Washer	4	4	4
70	A-147	Leg Mounting Pad	4	4	4
71	C-431-B	Plug	3	3	3
72	105895-01	Crosshead Pin	2	2	2
73	105900-91	Piston Rod Assembly	2	2	2
74*	L-3052	Crosshead Gde. Gasket	2	2	2
75	111935-01	Crosshead Guide	2	2	2
76	111943-01	O-Ring	2	2	2
77*	L-1109	Rod Vee Packing Set	4	4	4
78	L-1041	Washer	6	6	6
79	L-1063	Packing Spring	4	4	4
80*	L-3074	Stuffing Box Gasket	2	2	2
81	111937-01	Outboard Stuffing Box	2	2	2
81**	111937-01S	Outboard Stuffing Box-SS	2	2	2
82*	L-3035	Gasket	2	2	2
83	L-1042	Retaining Ring	2	2	2
84	L-1031-2	Stuffing Box Insert	2	2	2
85	111938-01	Inboard Cylinder	2	2	2
85**	111938-01S	Inboard Cylinder-SS	2	2	2
86	112816-91	Piston Plunger Assembly	2	2	2
87	L-1047	Self Locking Nut	2	2	2
88*	L-1045-V	Flange Plunger Packing	4	4	4
89*	L-1098	Packing Adj. Gasket	4	4	4
90	L-1044-A	Flange Packing Washer	2	2	2
91	C-3519	2" Thread Protector	1	1	1
92	92029	1/2 Hex Nut	4	4	4
93	111939-01	Suction Manifold	1	1	1
93**	111939-01S	Suction Manifold-SS	1	1	1
94	109112-92	Suction Valve	4	4	4
95*	A-2848	Valve O-Ring	8	8	8
96**	111940-01	Outboard Cylinder	2	2	2
96	111940-01S	Outboard Cylinder-SS	2	2	2
97***	91051	3/8 x 8 Hex Head Bolt	8	8	8
98	109113-92	Discharge Valve	4	4	4
99**	111936-01	Discharge Manifold	1	1	1
99	111936-01S	Discharge Manifold-SS	1	1	1
100	90711	Bolt, 1/2-13 x 9-1/2	2	2	2
100**	90710	Bolt, 1/2-13 x 8-1/2	2	2	2
101	L-3115	1-1/2 Thread Protector	1	1	1
102	106532-01	18T Sprocket	0	1	0
103	90986	3/8 x 5/8 Set Screw	0	4	0
104	110147-01	Spacer	0	1	0
105	115031-01	Crankshaft	0	1	0
106	114708-91	Throw Out Rod Assembly	0	0	1
107	93016	Flat Washer	0	0	1
108	105448-01	Back-Up-Ring	0	0	1
109	A-3776	O-Ring	0	0	1
110	105447-01	Body	0	0	1
111	105452-01	Back-Up Ring	0	0	1
112	105461-01	O-Ring	0	0	1
113	105449-01	Cylinder	0	0	1
114	105465-01	Back-Up Ring	0	0	2
115	A-2849	O-Ring	0	0	1
116	105463-01	Piston	0	0	1
117	105500-01	Body O-Ring	0	0	1
118	93010	5/16 Flat Washer	0	0	4
119	93023	5/16 Lock Washer	0	0	2
120	92020	5/16 Hex Nut	0	0	2
121	105501-01	Strap	0	0	2

* Parts Contained in 111947 Repair Kit

** Parts Unique to the LM-4950-S Series Only

NGP- 405x / 605x / 705x SERIES



ITEM	DESCRIPTION	INCLUDES ITEM #'S
A	SPROCKET	2, 3
B	SPACER	4, 5, 6, 7, 8
C	CONNECTING ROD	13, 14, 15
D	FLANGE COVER	4, 33
E	SETTING HUB	3, 35, 36, 40
F	SETTING POINTER	3, 39
G	GASKET KIT	7, 8, 10, 15, 24, 28, 37, 42, 44, 49, 50, 51, 52, 53, 56, 58, 59, 60, 66, 67, 68

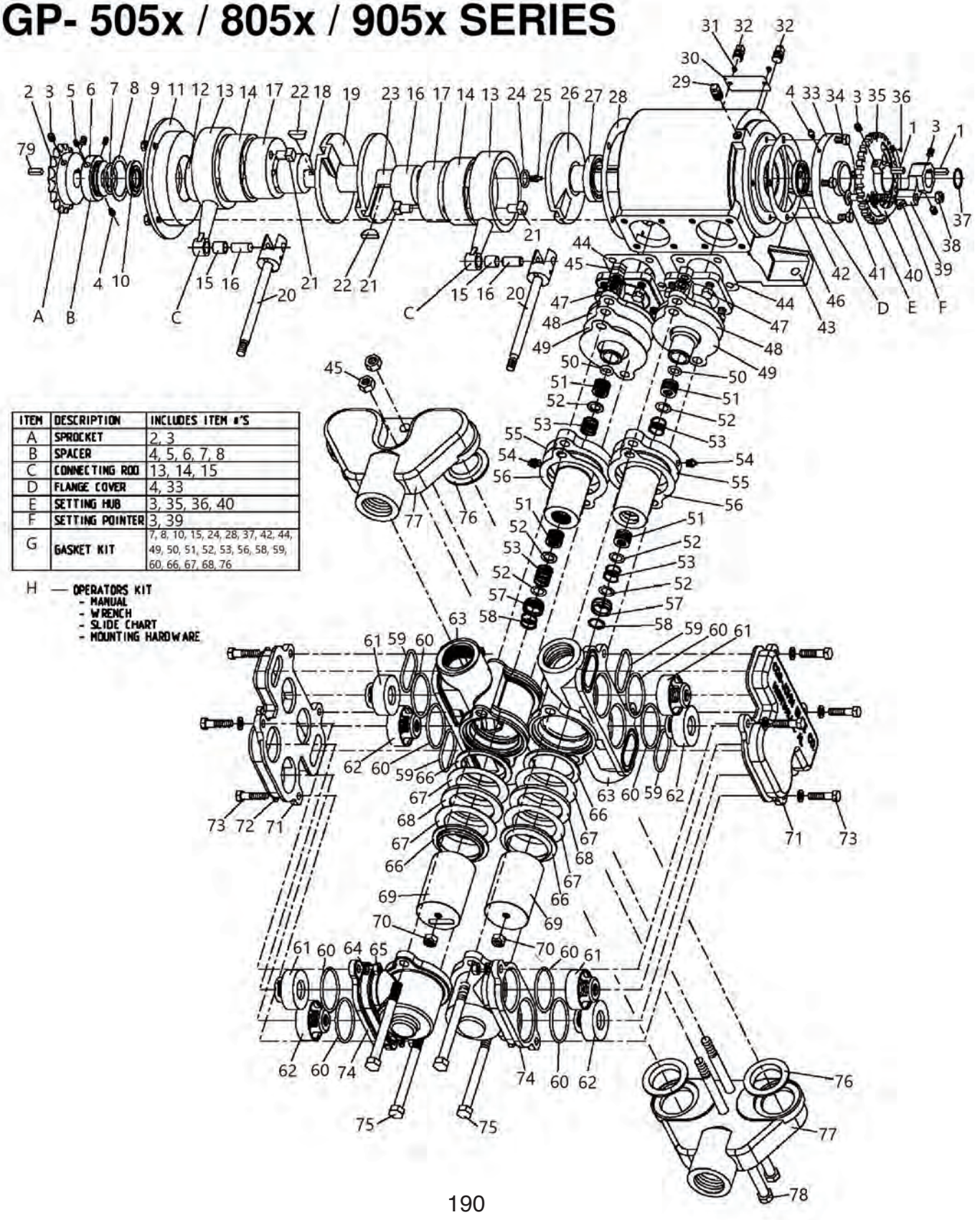
H — OPERATORS KIT
- MANUAL
- WRENCH
- SLIDE CHART
- MOUNTING HARDWARE

PARTS LISTING – NGP- 405x / 605x / 705x Series

ITEM	PART DESCRIPTION	NGP-4050 PART #	NGP-6050 PART #	NGP-7050 PART #
1	KEY	L-1020	L-1020	L-1020
2	SPROCKET RC50-18T	112661-01	112661-01	112661-01
-K	NO SPROCKET	NOT USED	NOT USED	NOT USED
-R	SPROCKET RC40-18T	113905-01	113905-01	113905-01
3	5/16x3/8 SETSCREW	90532	90532	90532
4	GREASE FITTING	H-28	H-28	H-28
5	5/16x3/8 SETSCREW	90532	90532	90532
6	SPROCKET SPACER	115625-01	115625-01	115625-01
7	O-RING	S-316	S-316	S-316
8	THRUST WASHER	115626-01	115626-01	115626-01
9	5/16x1 HEX BOLT	90637	90637	90637
10	OIL SEAL	115621-01	115621-01	115621-01
11	COVER PLATE	115723-01	115723-01	115623-01
12	BEARING	L-3019	L-3019	L-3019
13	CONNECTING ROD	L-1008-A	L-1008-A	113645-91
14	JOURNAL BEARING	L-928	L-928	113629-01
15	ROD BUSHING	113588-01	113588-01	113588-01
16	ROD PIN	105895-01	105895-01	105895-01
17	ECCENTRIC - OUTER	L-1013-A	L-1013-A	113633-01
18	ECCENTRIC - INNER	L-1015	L-1015	L-3017
19	NOT USED			
20	PISTON ROD ASM	116078-91	115712-91	105900-91
21	ECCENTRIC PIN	L-3004	L-3004	L-3004
22	WOODRUFF KEY	108093-01	108093-01	A-4333
23	CRANKSHAFT	115614-01	115614-01	115614-01
24	O-RING	L-1022	L-1022	L-1022
25	GREASE ZERK	115647-01	115647-01	115647-01
26	SETTING SLEEVE	115718-01	115718-01	115618-01
27	BEARING	L-1007-A	L-1007-A	L-1007-A
28	GASKET – DRIVE SIDE	L-1006	L-1006	L-3002
29	VENT PLUG	S-350	S-350	S-350
30	NAME PLATE	111958-01	111958-01	111958-01
31	DRIVE SCREW	A-3557	A-3557	A-3557
32	OIL PLUG	C-431-B	C-431-B	C-431-B
33	FLANGE COVER	115724-01	115724-01	115724-01
34	5/16 X 1 HEX BOLT	90637	90637	90637
35	SETTING HUB	115627-01	115627-01	115627-01
36	SCREW	A-368	A-368	A-368
37	SNAP RING	115791-01	115791-01	115791-01
38	3/8 SELF-LOCK NUT	A-3097	A-3097	A-3097
39	SETTING POINTER	115628-01	115628-01	115628-01
40	SETTING SCALE	115645-01	115645-01	115645-01
41	3/8x2-1/4 CARR.BOLT	115646-01	115646-01	115646-01
42	OIL SEAL	115622-01	115622-01	115622-01
43	CRANKCASE	115720-01	115720-01	115620-01
44	CROSSHEAD GASK.	115711-01	115711-01	115611-01
45	1/2 HEX NUT	92029	92029	92029
46	GASKET– FLG COVER	L-1006	L-1006	L-1006
47	HEX BOLT	90637	90637	90860
48	CROSSHEAD GUIDE	116069-01	115700-01	115600-01
49	STUFF. BOX GASK.	116075-01	115610-01	115610-01
-U	FUMIGANT	N/A	104828-02	104828-02
50	O-RING	116074-01	111943-01	111943-01
51	PACKING 'V' SET	L-1113	L-1109	L-1109
	@ CROSSHD GUIDE	USE 4 "V"s	N/A	N/A
-U	FUMIGANT	N/A	L-1109-U	L-1109-U
52	PACKING WASHER	112694-01	L-1041	L-1041
53	PACKING SPRING	112697-01	L-1063	L-1063
54	GREASE ZERK	H-30	H-30	H-30

ITEM	PART DESCRIPTION	NGP-4050 PART #	NGP-6050 PART #	NGP-7050 PART #
55	STUFFING BOX	116070-01	115790-01	115690-01
-S	STAINLESS	N/A	115790-01S	115690-01S
56	INBOARD CYL. GASK.	116076-01	115710-01	115710-01
-U	FUMIGANT	N/A	104826-02	104826-02
57	STUFF. BOX INSERT	116068-01	L-1031-2	L-1031-2
-S	STAINLESS	NOT USED	NOT USED	NOT USED
58	PACKING - SNAP RING	112698-01	L-1042	L-1042
-S	STAINLESS AND FUM.	N/A	116210-01	116210-01
59	O-RING	S-316	S-316	115604-01
-S	STAINLESS	N/A	104824-01	115612-01
-U	FUMIGANT	N/A	104824-01	115612-01
60	O-RING	S-316	L-3031	A-2848
-S	STAINLESS	N/A	114768-01	114870-01
-U	FUMIGANT	N/A	114768-01	114870-01
61	DISCHARGE VALVE	116127-91	115707-91	115607-91
62	SUCTION VALVE	116126-91	115706-91	115606-91
63	INBOARD CYLINDER	N/A	115701-02	115601-02
-F	FLANGED	116071-01	115701-02FLG	115601-02FLG
-S	STAINLESS	N/A	115701-02S	115601-02S
64	3/8 LOCK WASHER	93024	93024	93024
-S	STAINLESS	N/A	93025	93025
65	3/8 HEX NUT	92024	92024	92024
66	PLUNGER – PACKING	112696-01	L-1045-V	L-1045-V
-B	BUNA PACKING	N/A	L-1045-A	L-1045-A
67	PLUNGER – GASKET	112712-01	L-1098	L-1098
-U	FUMIGANT	N/A	114769-01	114769-01
68	PLUNGER – WASHER	112695-01	L-1044-A	L-1044-A
69	PLUNGER	112700-91	103290-91	112816-91
70	PLUNGER – LOCKNUT	92125	L-1047	L-1047
71	VALVE COVER	116073-01	115703-01	115603-01
-S	STAINLESS	N/A	115703-01S	115603-01S
72	NOT USED			
73	3/8 X 1-1/2 HEX BOLT	90911	90911	90911
-S	STAINLESS	N/A	90654	90654
74	OUTBOARD CYL.	116072-01	115702-01	115602-01
-S	STAINLESS	N/A	115702-01S	115602-01S
75	1/2 HEX BOLT	90704	90704	90705
-S	STAINLESS (2 BOLTS)	N/A	90693/90687	90693/90687
76	NOT USED			
	NOT USED			
77	NOT USED			
	NOT USED			
	NOT USED			
78	NOT USED			
	NOT USED			
79	SPROCKET KEY	106493-01	106493-01	106493-01
A	RC50-18T SPRKT ASM	106532-01	106532-01	106532-01
-K	NO SPROCKET	NOT USED	NOT USED	NOT USED
-R	RC40-18T SPRKT ASM	113907-01	113907-01	113907-01
B	SPRKT. SPACER ASM	115624-91	115624-91	115624-91
C	CONN. ROD ASM	L-1008-B	L-1008-B	113645-91
D	FLANGE COVER ASM	115725-91	115725-91	115725-91
E	SET HUB ASM	115629-91	115629-91	115629-91
F	SET POINTER ASM	115630-91	115630-91	115630-91
G	GASKET KIT	116134	115788	115688
-S	GASKET KIT - SS	N/A	115788-S	115688-S
-U	GASKET KIT - FUM	N/A	115788-U	115688-U
H	OPERATORS KIT	115787	115787	115787
N/S	SLIDE CHART	115698-91	115698-91	115698-91
N/S	SETTING WRENCH	115631-01	115631-01	115631-01

NGP- 505x / 805x / 905x SERIES



ITEM	DESCRIPTION	INCLUDES ITEM #'S
A	SPROCKET	2, 3
B	SPACER	4, 5, 6, 7, 8
C	CONNECTING ROD	13, 14, 15
D	FLANGE COVER	4, 33
E	SETTING HUB	3, 35, 36, 40
F	SETTING POINTER	3, 39
G	GASKET KIT	7, 8, 10, 15, 24, 28, 37, 42, 44, 49, 50, 51, 52, 53, 56, 58, 59, 60, 66, 67, 68, 76

H — OPERATORS KIT
- MANUAL
- WRENCH
- SLIDE CHART
- MOUNTING HARDWARE

PARTS LISTING – NGP- 505x / 805x / 905x SERIES

ITEM	PART DESCRIPTION	NGP-5050 PART #	NGP-8050 PART #	NGP-9050 PART #
1	KEY	L-1020	L-1020	L-1020
2	SPROCKET RC50-18T	112661-01	112661-01	112661-01
-K	NO SPROCKET	NOT USED	NOT USED	NOT USED
-R	SPROCKET RC40-18T	113905-01	113905-01	113905-01
3	5/16x3/8 SETSCREW	90532	90532	90532
4	GREASE FITTING	H-28	H-28	H-28
5	5/16x3/8 SETSCREW	90532	90532	90532
6	SPROCKET SPACER	115625-01	115625-01	115625-01
7	O-RING	S-316	S-316	S-316
8	THRUST WASHER	115626-01	115626-01	115626-01
9	5/16x1 HEX BOLT	90637	90637	90637
10	OIL SEAL	115621-01	115621-01	115621-01
11	COVER PLATE	115723-01	115723-01	115623-01
12	BEARING	L-3019	L-3019	L-3019
13	CONNECTING ROD	L-1008-A	L-1008-A	113630-01
14	JOURNAL BEARING	L-928	L-928	113629-01
15	ROD BUSHING	113588-01	113588-01	113588-01
16	ROD PIN	105895-01	105895-01	105895-01
17	ECCENTRIC - OUTER	L-1013-A	L-1013-A	113633-01
18	ECCENTRIC - INNER	L-1015	L-1015	L-3017
19	TRANSFER SLEEVE	115783-01	115783-01	115683-01
20	PISTON ROD ASM	116078-91	115712-91	105900-91
21	ECCENTRIC PIN	112686-01	112686-01	L-3004
22	WOODRUFF KEY	108093-01	108093-01	A-4333
23	CRANKSHAFT	115681-01	115681-01	115681-01
24	O-RING	L-1022	L-1022	L-1022
25	GREASE ZERK	115647-01	115647-01	115647-01
26	SETTING SLEEVE	115718-01	115718-01	115618-01
27	BEARING	L-1007-A	L-1007-A	L-1007-A
28	GASKET – DRIVE SIDE	L-1006	L-1006	L-3002
29	VENT PLUG	S-350	S-350	S-350
30	NAME PLATE	111958-01	111958-01	111958-01
31	DRIVE SCREW	A-3557	A-3557	A-3557
32	OIL PLUG	C-431-B	C-431-B	C-431-B
33	FLANGE COVER	115724-01	115724-01	115724-01
34	5/16 X 1 HEX BOLT	90637	90637	90637
35	SETTING HUB	115627-01	115627-01	115627-01
36	SCREW	A-368	A-368	A-368
37	SNAP RING	115791-01	115791-01	115791-01
38	3/8 SELF-LOCK NUT	A-3097	A-3097	A-3097
39	SETTING POINTER	115628-01	115628-01	115628-01
40	SETTING SCALE	115645-01	115645-01	115645-01
41	3/8x2-1/4 CARR.BOLT	115646-01	115646-01	115646-01
42	OIL SEAL	115622-01	115622-01	115622-01
43	CRANKCASE	115780-01	115780-01	115680-01
44	CROSSHEAD GASK.	115711-01	115711-01	115611-01
45	1/2 HEX NUT	92029	92029	92029
46	GASKET– FLG COVER	L-1006	L-1006	L-1006
47	HEX BOLT	90637	90637	90860
48	CROSSHEAD GUIDE	116069-01	115700-01	115600-01
49	STUFF. BOX GASK.	116075-01	115610-01	115610-01
-U	FUMIGANT	N/A	104828-02	104828-02
50	O-RING	116074-01	111943-01	111943-01
51	PACKING 'V' SET	L-1113	L-1109	L-1109
	@ CROSSHD GUIDE	USE 4 "V"s	N/A	N/A
-U	FUMIGANT	N/A	L-1109-U	L-1109-U
52	PACKING WASHER	112694-01	L-1041	L-1041
53	PACKING SPRING	112697-01	L-1063	L-1063
54	GREASE ZERK	H-30	H-30	H-30

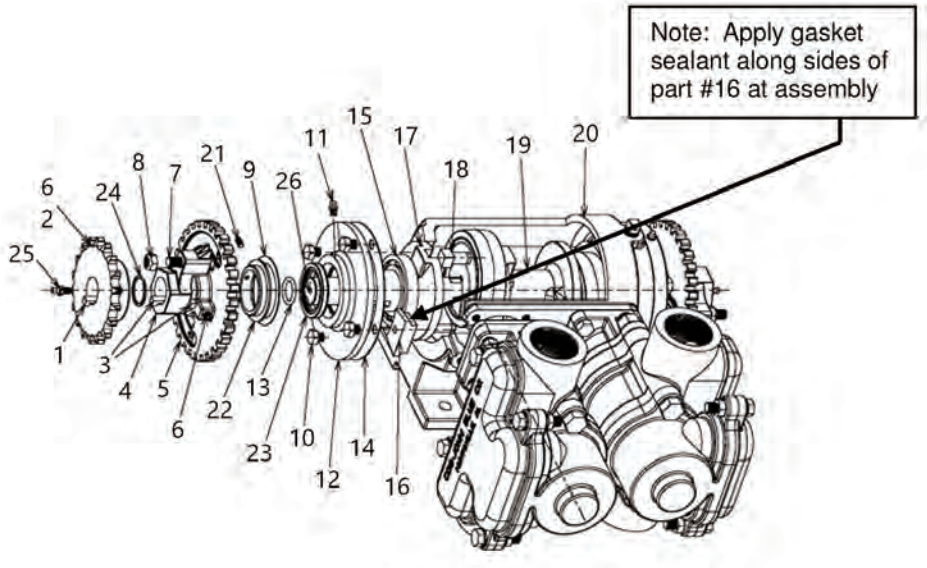
ITEM	PART DESCRIPTION	NGP-5050 PART #	NGP-8050 PART #	NGP-9050 PART #
55	STUFFING BOX	116070-01	115790-01	115690-01
-S	STAINLESS	N/A	115790-01S	115690-01S
56	INBOARD CYL. GASK.	116076-01	115710-01	115710-01
-U	FUMIGANT	N/A	104826-02	104826-02
57	STUFF. BOX INSERT	116068-01	L-1031-2	L-1031-2
-S	STAINLESS	NOT USED	NOT USED	NOT USED
58	PACKING - SNAP RING	112698-01	L-1042	L-1042
-S	STAINLESS AND FUM.	N/A	116210-01	116210-01
59	O-RING	S-316	S-316	115604-01
-S	STAINLESS	N/A	104824-01	115612-01
-U	FUMIGANT	N/A	104824-01	115612-01
60	O-RING	S-316	L-3031	A-2848
-S	STAINLESS	N/A	114768-01	114870-01
-U	FUMIGANT	N/A	114768-01	114870-01
61	DISCHARGE VALVE	116127-91	115707-91	115607-91
62	SUCTION VALVE	116126-91	115706-91	115606-91
63	INBOARD CYLINDER	N/A	115701-02	115601-02
-F	FLANGED	116071-01	115701-02FLG	115601-02FLG
-S	STAINLESS	N/A	115701-02S	115601-02S
64	3/8 LOCK WASHER	93024	93024	93024
-S	STAINLESS	N/A	93025	93025
65	3/8 HEX NUT	92024	92024	92024
66	PLUNGER – PACKING	112696-01	L-1045-V	L-1045-V
-B	BUNA PACKING	N/A	L-1045-A	L-1045-A
67	PLUNGER – GASKET	112712-01	L-1098	L-1098
-U	FUMIGANT	N/A	114769-01	114769-01
68	PLUNGER – WASHER	112695-01	L-1044-A	L-1044-A
69	PLUNGER	112700-91	103290-91	112816-91
70	PLUNGER – LOCKNUT	92125	L-1047	L-1047
71	VALVE COVER	116073-01	115703-01	115603-01
-S	STAINLESS	N/A	115703-01S	115603-01S
72	NOT USED			
73	3/8 X 1-1/2 HEX BOLT	90911	90911	90911
-S	STAINLESS	N/A	90654	90654
74	OUTBOARD CYL.	116072-01	115702-01	115602-01
-S	STAINLESS	N/A	115702-01S	115602-01S
75	1/2 HEX BOLT	90704	90704	90705
-S	STAINLESS (2 BOLTS)	N/A	90693/9068	90693/9068
76	MANIFOLD GASKET	N/A	112696-01	112696-01
-DR	DUAL RATE (CYLS)	N/A	NOT USED	NOT USED
77	MANIFOLD	N/A	115796-01	115696-01
-S	STAINLESS	N/A	115796-01S	115696-01S
-DR	DUAL RATE (CYLS)	N/A	NOT USED	NOT USED
78	½ HEX BOLT	N/A	115793-01	115693-01
-DR	DUAL RATE (CYLS)	N/A	NOT USED	NOT USED
79	SPROCKET KEY	106493-01	106493-01	106493-01
A	RC50-18T SPROCKET	106532-01	106532-01	106532-01
-K	NO SPROCKET	NOT USED	NOT USED	NOT USED
-R	RC40-18T SPROCKET	113907-01	113907-01	113907-01
B	SPRKT. SPACER ASM	115624-91	115624-91	115624-91
C	CONN. ROD ASM	L-1008-B	L-1008-B	113645-91
D	FLANGE COVER ASM	115725-91	115725-91	115725-91
E	SET HUB ASM	115629-91	115629-91	115629-91
F	SET POINTER ASM	115630-91	115630-91	115630-91
G	GASKET KIT	116135	115789	115689
-S	GASKET KIT - SS	N/A	115789-S	115689-S
-U	GASKET KIT - FUM	N/A	115789-U	115689-U
H	OPERATORS KIT	115787	115787	115787
N/S	SLIDE CHART	115698-91	115698-91	115698-91
N/S	SETTING WRENCH	115631-01	115631-01	115631-01

PARTS LISTING – DOUBLE ADJUSTABLE PUMPS

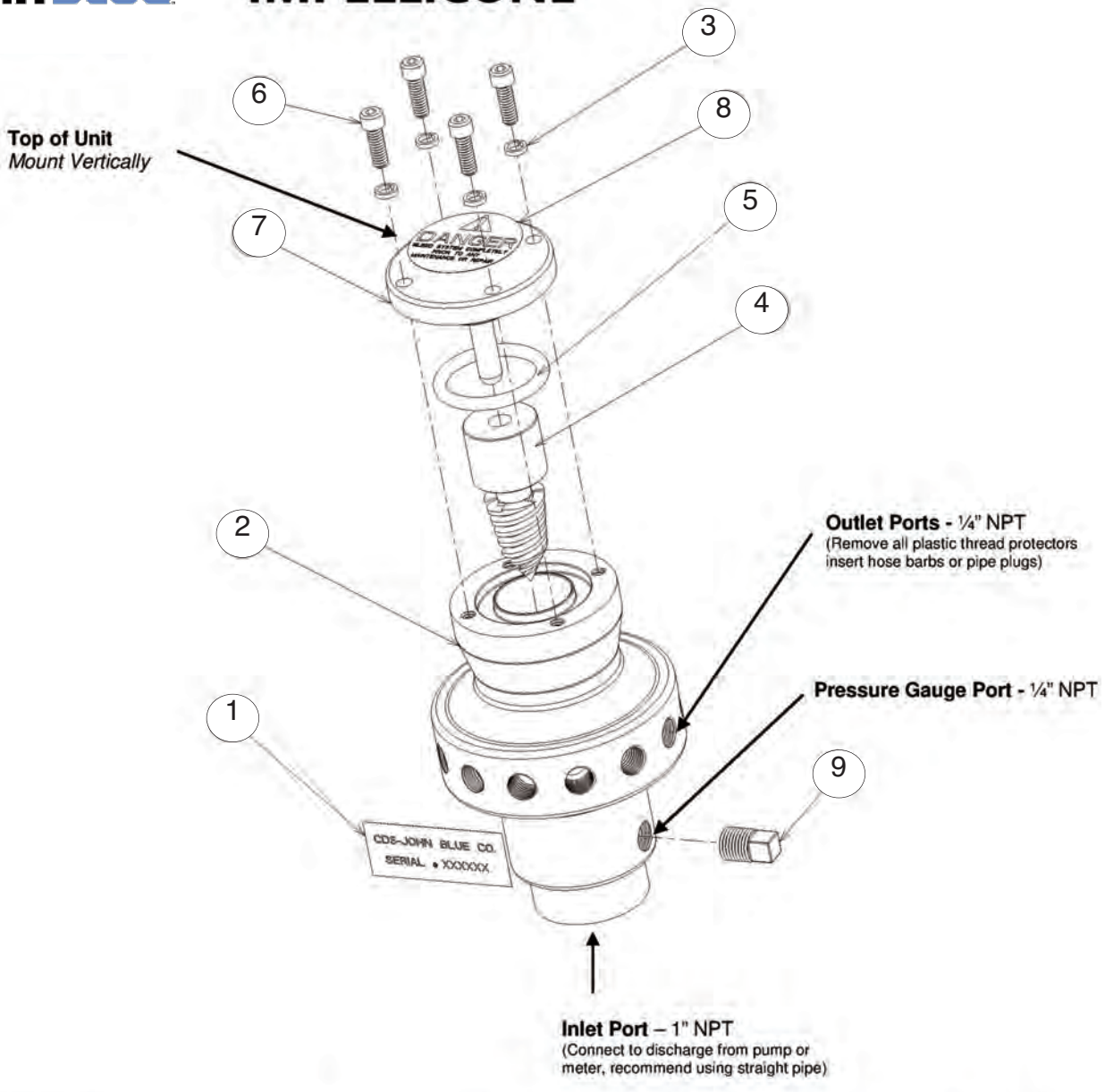
- **Parts unique to the NGP-5655-ARF, NGP-8055-AR, and NGP 9055-AR assemblies**
  (refer to the NGP-505x / 805x / 905x chart for common/shared parts)

ITEM	PART DESCRIPTION	NGP-8050-AR PART #	NGP-9050-AR PART #
1	SPROCKET KEY	106493-01	106493-01
2	SPROCKET	116055-01	116055-01
3	KEY	L-1020	L-1020
4	SETTING POINTER	115628-01	115628-01
5	SETTING SCALE	L-1002	L-1002
6	5/16 X 3/8 SET SCREW	90532	90532
7	3/8 X 2-1/4 CAR BOLT	115646-01	115646-01
8	3/8 SELF LOCKING NUT	A-3097	A-3097
9	THRUST WASHER	115626-01	115626-01
10	5/16" X 1 BOLT	90637	90637
11	GREASE FITTING	H-28	H-28
12	COVER PLATE	116053-01	116153-01
13	O-RING	L-1022	I-1022
14	GASKET	L-1006	L-3002

ITEM	PART DESCRIPTION	NGP-8055-AR PART #	NGP-9050-AR PART #
15	BEARING	L-1007-A	L-1007-A
16	CRANKCASE INSERT BLOCK	116049-01	N/A
17	SHORT SETTING SLEEVE	116052-01	116154-01
18	ECCENTRIC PIN	L-3004	L-3004
19	SPACER SLEEVE	116051-01	116155-01
20	CRANKCASE	116048-01	115680-01
21	#10-32 X 1/4 SET SCREW	90502	90502
22	SEAL COVER	116054-01	116054-01
23	OIL SEAL	115622-01	115622-01
24	SNAP RING	115791-01	115791-01
25	GREASE ZERK	115647-01	115647-01
26	MAIN SHAFT	116050-01	116050-01



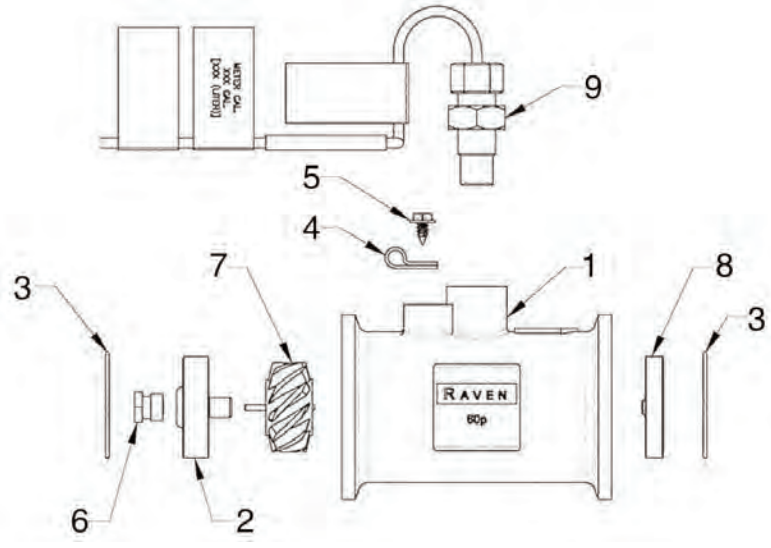
6, 13, 18 PORT NH3 IMPELLICONE



		IP-0600 Parts List		IP-1300 Parts List		IP-1800 Parts List	
Item	**Description**	**Part #**	**Qty**	**Part #**	**Qty**	**Part #**	**Qty**
1	Serial Tag	115496-01	1	115496-01	1	115496-01	1
2	Aluminum Body	116084-01	1	115518-01	1	115532-01	1
3	High Collar Lock Washer SS	115519-01	4	115519-01	4	115519-01	5
4	Impellicone Needle	115520-01	1	115520-01	1	115531-01	1
5	O-ring	115521-01	1	115521-01	1	115530-01	1
6	1/4-20 SHCS Stainless Steel	115525-01	4	115525-01	4	115525-01	5
7	Cap Assembly	115526-91	1	115526-91	1	115529-01	1
8	Danger Tag (Included In Cap Assembly)	115527-01	1	115527-01	1	115527-01	1
9	1/4 NPT Plug SS	115533-01	1	115533-01	1	115533-01	1

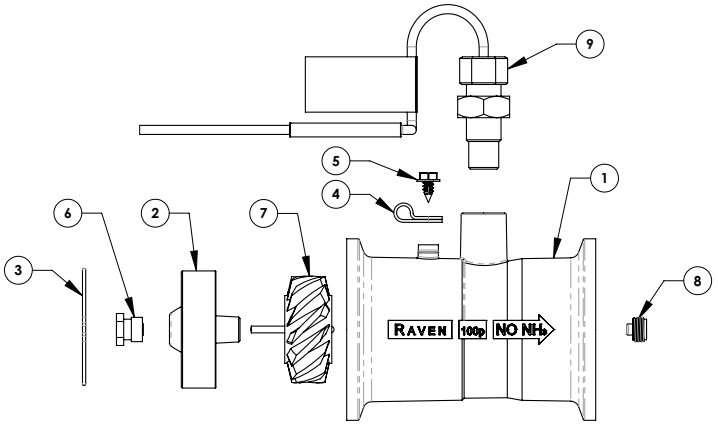
FLOWMETERS

RAVEN



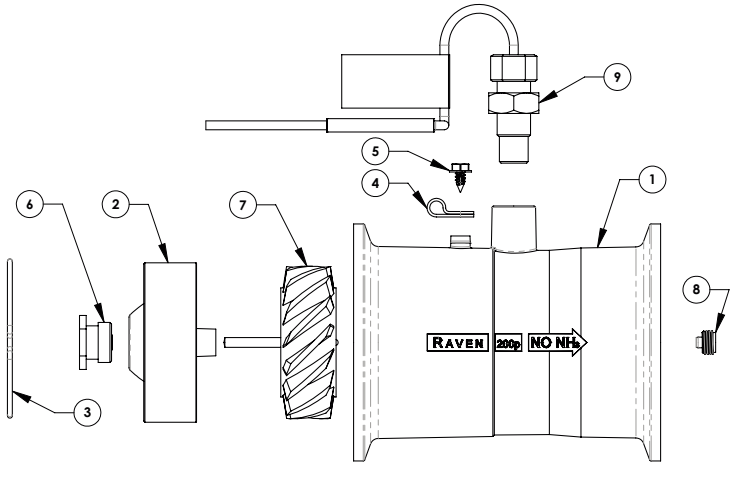
RFM 60P/ RFM 60S
PN: 1-063-0171-793 60P
PN: 1-063-0171-985 60P
PN: 1-063-0171-666 60S

ITEM	PART NUMBER	DESCRIPTION
1	106-0159-514	BODY, POLY ONLY
2	063-0171-674	UPSTREAM HUB/BEARING ASSY
3	335-0003-200	RETAINING RING
4	435-3002-017	CABLE CLAMP
5	310-0002-137	SCREW
6	063-0173-062	STUD/BEARING ASSY
7	063-0171-673	TURBINE
8	063-0171-769	DOWNSTREAM HUB ASSY
9	063-0171-669	SENSOR ASSY
	117-0171-640	REPAIR KIT (ITEMS 2-3, 6-8)



RFM 100
PN: 1-063-0173-578

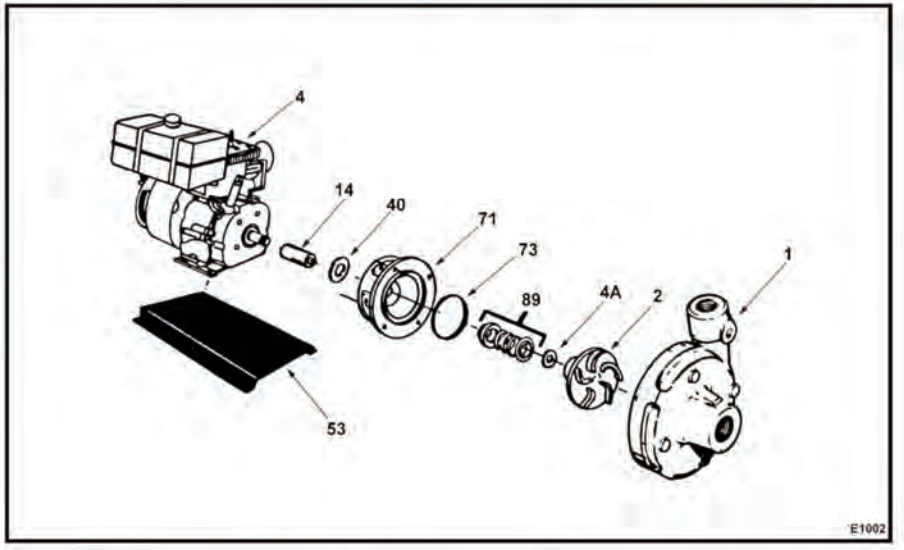
ITEM	PART NUMBER	DESCRIPTION
1	106-0159-710	BODY, POLY
2	063-0173-580	UPSTREAM HUB/BEARING ASSY
3	335-0003-198	RETAINING RING
4	435-3002-017	CABLE CLAMP
5	310-0002-137	SCREW
6	063-0173-057	STUD/BEARING ASSY
7	063-0173-596	TURBINE
8	063-0173-744	DOWNSTREAM STUD
9	063-0172-458	SENSOR ASSY, DTM
	063-0172-447	SENSOR ASSY, DT
	063-0172-004	SENSOR ASSY, CON-X-ALL
	063-0173-855	SENSOR ASSY, METRI-PACK (JD)
*	117-0171-646	REPAIR KIT (ITEMS 3, 6-8)



RFM 200
PN: 1-063-0173-579

ITEM	PART NUMBER	DESCRIPTION
1	106-0159-711	BODY, POLY
2	063-0173-581	UPSTREAM HUB/BEARING ASSY
3	335-0003-199	RETAINING RING
4	435-3002-017	CABLE CLAMP
5	310-0002-137	SCREW
6	063-0159-575	STUD/BEARING ASSY
7	063-0173-597	TURBINE
8	063-0173-744	DOWNSTREAM STUD
9	063-0172-458	SENSOR ASSY, DTM
	063-0172-447	SENSOR ASSY, DT
	063-0172-004	SENSOR ASSY, CON-X-ALL
	063-0173-855	SENSOR ASSY, METRI-PACK (JD)
*	117-0171-646	REPAIR KIT (ITEMS 3, 6-8)

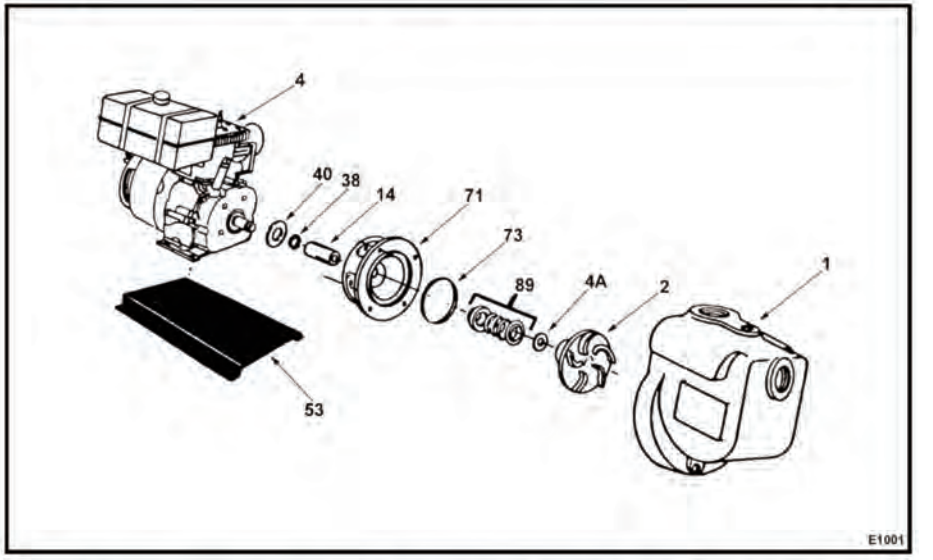
ENGINEPUMP™ - FG 413, 451, 460, 461
STRAIGHT CENTRIFUGAL



KEY NO.	PART NAME	FG 413 1.25 X 1 NPT 3.5, 5, 5.5 HP	* FG 451 1.5 X 1.5 NPT 3.5, 5, 5.5 HP	* FG 461 2 X 2 NPT 5, 5.5 HP	FG 460 1.5 X 1.25 NPT 5, 5.5 HP
1	CASE	130.000.319X	130.000.177X	130.000.211X	130.000.170X
2	IMPELLER	131.000.111	131.000.238	131.000.238	**131.000.526
4 +	ENGINE	5/8" THRD	5/8" THRD	5/8" THRD	5/8" THRD
4A •	SHIM	104.000.142	104.000.142	104.000.142	NONE
14 •	SHAFT SLEEVE	110.000.112	110.000.137	110.000.137	110.000.258
40 •	FLINGER	104.000.179	104.000.179	104.000.179	104.000.179
53	BASE	119.000.151	119.000.151	119.000.151	119.000.151
71	ADAPTER	132.000.185	132.000.155	132.000.155	132.000.185
73 •	GASKET, CASE	116.000.146	116.000.141	116.000.141	116.000.146
89 •	SEAL VN-CM	101.000.115	101.000.115	101.000.115	101.000.115
--	REPAIR KIT	118.000.218	118.000.217	118.000.217	118.000.252

• DENOTES COMPONENTS INCLUDED IN REPAIR KIT
+ SEE CHART FOR REPLACEMENT ENGINES
* GO TO 5.5 HP B&S INTEK AND INTEK PRO
** MODEL NO. FG 460 V5 HAS ENCLOSED IMPELLER

ENGINEPUMP™ - FKG 74A, 75A
SELF PRIMING

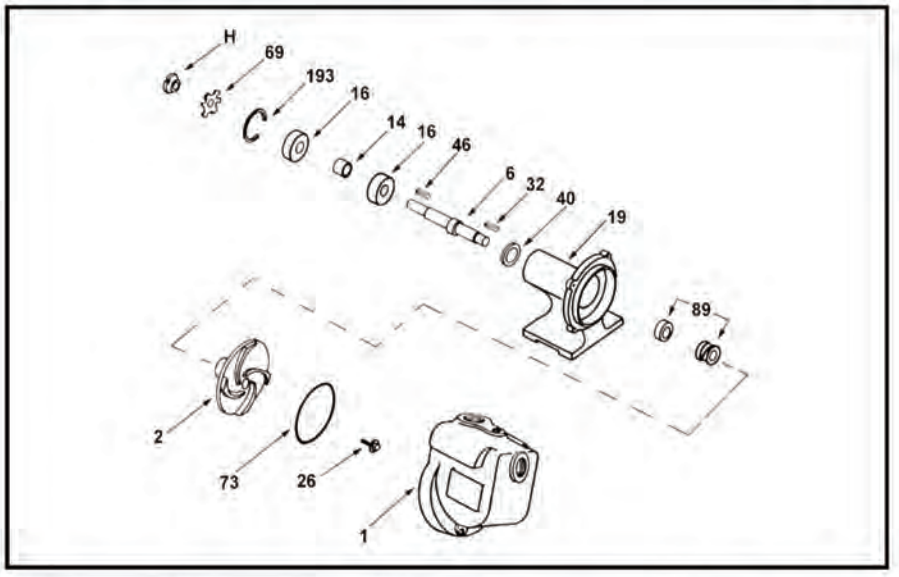


KEY NO.	PART NAME	* FKG 74A 2 X 2 NPT 3.5, 5, 5.5, 6 HP	FKG 74A 2 X 2 NPT 8 HP	FKG 75A 3 X 3 NPT 8 HP	FKG 75A 3 X 3 NPT 9, 10, 11 HP
1	CASE	130.000.239X	130.000.239X	130.000.295X	130.000.295X
2	IMPELLER	131.000.238	131.000.293	131.000.302	131.000.302
4 +	ENGINE	5/8" THRD	1" THRD	1" THRD	1" THRD
4A •	SHIM	104.000.142	104.000.163	104.000.163	104.000.163
14 •	SHAFT SLEEVE	110.000.137	110.000.175	110.000.175	110.000.175
38 •	O-RING, SLEEVE	NONE	116.000.117	116.000.117	116.000.117
40 •	FLINGER	104.000.179	104.000.165	104.000.165	104.000.165
53	BASE	119.000.151	119.000.106	119.000.106	119.000.204
71	ADAPTER	132.000.155	132.000.192	132.000.188	132.000.188
73 •	GASKET, CASE	116.000.141	116.000.141	116.000.146	116.000.146
89 •	SEAL VN-CM	101.000.115	101.000.194	101.000.194	101.000.194
--	REPAIR KIT	118.000.217	118.000.449	118.000.220	118.000.220

• DENOTES COMPONENTS INCLUDED IN REPAIR KIT
+ SEE CHART FOR REPLACEMENT ENGINES
* GO TO 5.5 HP B&S INTEK AND INTEK PRO

Scot Pump
A WILO COMPANY

FRAMEPUMP™ - FPH 51, 61, 73, 74
5/8" STRAIGHT SHAFT



KEY NO.	PART NAME	PART NO.
1	CASE	See Chart
2	IMPELLER, SEMI-OPEN	131.000.266
26 ●	IMPELLER RETAINER	118.000.136
73 ●	GASKET, CASE	116.000.141
89 ●	SEAL VN-CM	101.000.115
	BEARING FRAME ASS'Y CONSISTING OF:	UNIT B 118.000.420
6 ○	SHAFT, ASS'Y	135.000.231X
14 ●	SPACER	110.000.352
16 ●	BEARING (2 REQ'D)	103.000.158
19	FRAME	132.000.295
32 ●○	KEY	102.000.137
46 ○	KEY	102.000.256
69	LOCKWASHER	104.000.242
193	RETAINER	102.000.105
H	LOCKNUT	105.000.460
--	REPAIR KIT	118.000.351

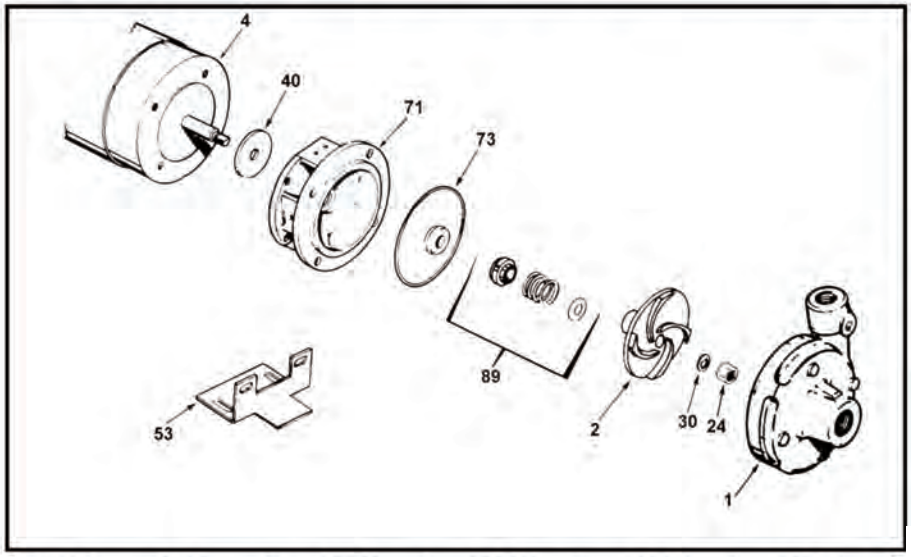
● DENOTES COMPONENTS INCLUDED IN REPAIR KIT
○ DENOTES COMPONENTS INCLUDED WITH SHAFT ASS'Y

CASES

MODEL NO.	SIZE (NPT) SUCT	SIZE (NPT) DISCH	PART NO.
FPH 51	1.5	1.5	130.000.177X
FPH 61	2	2	130.000.211X
FPH 73	1.5	1.5	*130.000.142X
FPH 74	2	2	130.000.239X

* ALSO REQUIRES (NOT SHOWN):
136.000.138 FLANGE
118.000.261 FLAPPER

MOTORPUMP™ - LFE 69, 213, 251, 261
STRAIGHT CENTRIFUGAL



KEY NO.	PART NAME	LFE 69 1 X .75 NPT	LFE 213 1.25 X 1 NPT	LFE 251 1.5 X 1.5 NPT	LFE 261 2 X 2 NPT
1	CASE	130.000.283AX	130.000.319X	130.000.177X	130.000.211X
2	IMPELLER	See Chart	See Chart	See Chart	See Chart
4	MOTOR J56	See Chart	See Chart	See Chart	See Chart
24 ●+	LOCK NUT	105.000.174	105.000.465	105.000.465	105.000.465
30 ●+	D WASHER	104.000.168	104.000.168	104.000.168	104.000.168
40 ●	FLINGER	104.000.171	104.000.171	104.000.171	104.000.171
53	BASE	119.000.287A	119.000.231A	119.000.231A	119.000.231A
71	ADAPTER	132.000.298	132.000.200	132.000.207	132.000.207
73 ●	GASKET, CASE	116.000.153	116.000.146	116.000.141	116.000.141
89 ●	SEAL VN-CM	101.000.103	101.000.103	101.000.103	101.000.103
--	REPAIR KIT:				
	1 PHASE	118.000.389A.1	118.000.340A.1	118.000.341A.1	118.000.341A.1
	3 PHASE	118.000.389A	118.000.340A	118.000.341A	118.000.341A

● DENOTES COMPONENTS INCLUDED IN REPAIR KIT
+ NOT REQUIRED ON 1/3 - 1 1/2 HP, 1 PHASE MOTORS; USE 3 PHASE KIT FOR 2 - 3 HP, 1 PHASE MOTORS.

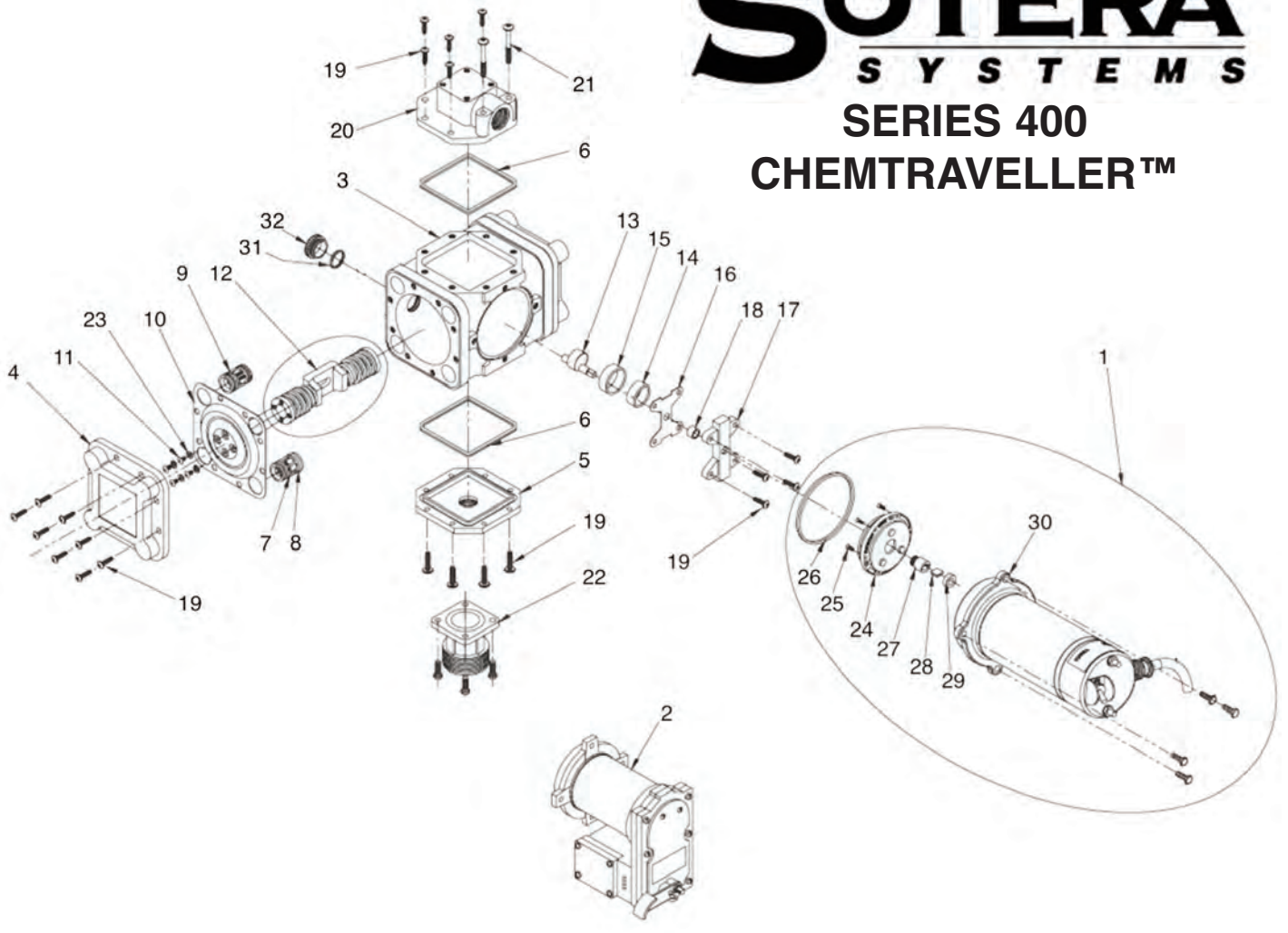
SEMI-OPEN IMPELLERS

MODEL NO.	SIZE	PART NUMBER
LFE 69	2.75	131.000.681D
	3.00	131.000.681F
	3.25	131.000.681B
	3.44	131.000.681
LFE 213	3.13	131.000.266
	3.75	131.000.184
	4.00	131.000.183
	4.50	131.000.107B
	4.75	131.000.107
LFE 251, 261	4.38	131.000.315

Scot Pump
A WILO COMPANY

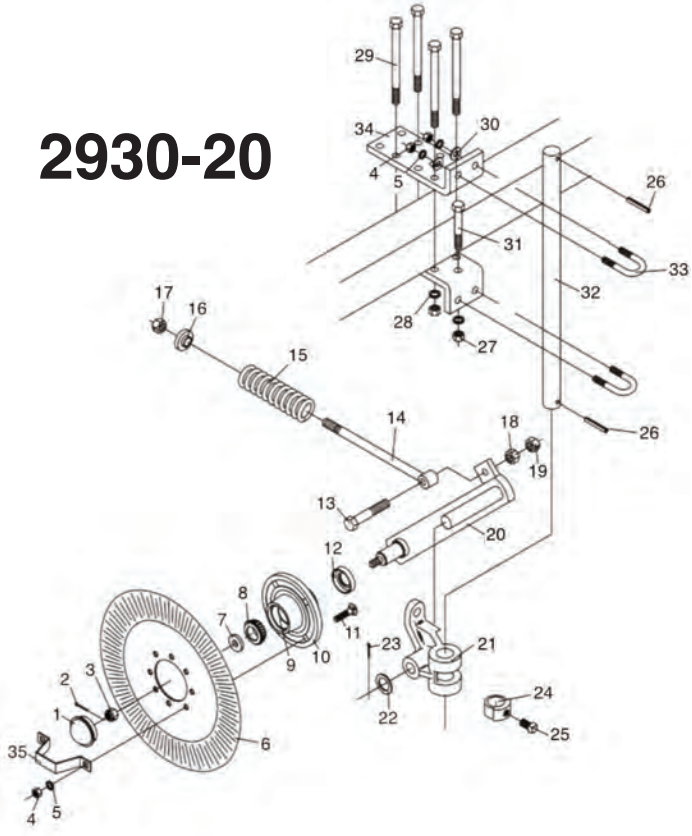
SOTERA® SYSTEMS

SERIES 400 CHEMTRAVELLER™

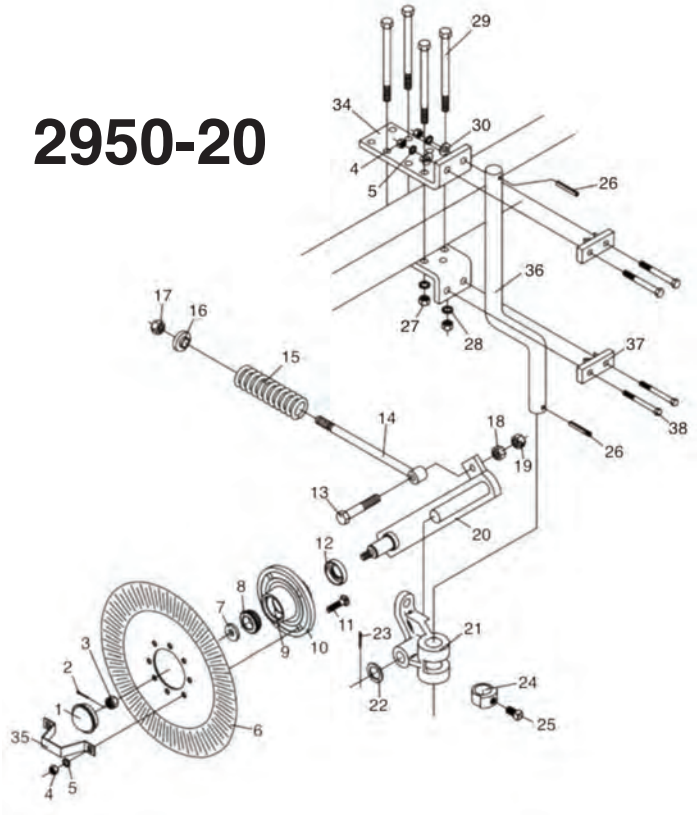


ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
1	1	400G9734	12V MOTOR ASSY	18	1		SHAFT BUSHING
		400G9735	115V MOTOR ASSY	19	34		SCREW, 1/4-10 X 1" SS
2	OPT	400EXPF7351	115V EXPLOSION PROOF MOTOR ASSY	20	1	400F6679	90° FLANGE W/ INSERTS
3	1		PUMP BODY	21	2		SCREW, 1/4-10 X 2-1/4" SS
4	2		DIAPHRAGM COVER	22	1	400G9140	BUNG ADAPTER, 2" NPT
5	1	400F6569	FLANGE	23	8	400G8887	O-RING, EPDM
6	2	400F6924	FLANGE GASKET, EPDM	24	1	4000F6557	GEAR ASSY
7	8		CHECK VALVE BALL	25	6		SCREW
8	4		O-RING, VITON	26	1	400F6692	O-RING, NITRILE
9	4		OUTLET CHECK VALVE	27	1	400F6563	DRIVE GEAR
10	2		DIAPHRAGM ASSY	28	1	1200F6440	DRIVE KEY
11	8		SCREW, 10-24 X 1/2"	29	1	400G9104	SHAFT SEAL
12	1		YOKE ASSY	30	1		MOTOR
13	1		DRIVE SHAFT	31	2		O-RING, NITRILE
14	1		BUSHING	32	2	400F6818	SIGHT CAP
15	1		BEARING RING			400KTH1178	DIAPHRAGM KIT (ITEMS 4, 23, 6-11)
16	1		THRUST PLATE			400KTH1457	PUMP REBUILD KIT
17	1		BEARING PLATE				(ITEMS 24-28, 400KTH1178)

2930-20



2950-20



ITEM	QTY	PART NO.	DESCRIPTION
1	1	2570-375	HUB CAP
2	1	2531-102	1/8 X 1-1/4 COTTER PIN
3	1	2520-469	5/8-18 SLOTTED HEX NUT
4	8	2520-352	1/2-13 HEX NUT
5	8	2525-352	1/2 LOCKWASHER
6	1	2571-076B	20" COULTER BLADE
7	1	2526-449	5/8 FLATWASHER
8	2	2550-027	BEARING, LM67048
9	2	2550-029	RACE (INCLUDED IN 10)
10	1	2900-105	HUB ASSY
		2900-123	COMPLETE HUB ASSY (ITEMS 1-5, 7-12)
11	4	2505-339	1/2-13 X 1-1/2 BOLT
12	1	2550-066	TRIPLE LIP SEAL
13	1	2502-410	3/4-16 X 3" HHCS
14	1	2570-125	3/4" EYEBOLT
15	1	2910-311	SPRING
16	1	2910-302	SPRING BUSHING
17	1	2520-516	3/4-10 LOCKNUT
18	1	2520-508	3/4-16 HEX NUT
19	1	2520-511	3/4-16 LOCKNUT
20	1	2910-201	COULTER ARM
		2910-127	COMPLETE COULTER ASSY (ITEMS 1-5, 7-23)
21	1	2910-320	PIVOT CASTING ASSY
22	1	2526-561	BUSHING
23	1	2531-125	1/4 X 1-3/4 COTTER PIN
24	1	2910-301	LOCKING COLLAR
25	1	2503-379	5/8-11 X 1 HCPSS
26	2	2530-208	3/8 X 2-1/2 ROLL PIN
27	5	2520-452	5/8-11 HEX NUT
28	5	2525-451	5/8 LOCKWASHER
29	4	2502-395	5/8-11 X 6-1/2" HHCS
29		2502-394	5/8-11 X 8" HHCS
29		2502-348	5/8-11 X 11" HHCS
30	4	2526-351	1/2" FLATWASHER
31	1	2502-385	5/8-11 X 3+1/4" HHCS
32	1	3010-303	STRAIGHT COULTER SHANK
33	2	3010-304	SHANK U-BOLT
34	2	3010-301	SHANK BRACKET
34		3010-306	SHANK BRACKET, 5X7 OR 7X7 BAR
35	1	2987-301	HUB CAP RETAINER
36	1	3011-302	OFFSET COULTER SHANK
37	2	3011-201	CLAMP
38	4	2502-364	1/2-13 X 4" HHCS

TECHNICAL DATA

Useful formulas

$$\text{GPM (per nozzle)} = \frac{\text{GPA} \times \text{MPH} \times \text{W}}{5{,}940}$$

$$\text{GPM (per nozzle)} = \frac{\text{GAL/1000FT}^2 \times \text{MPH} \times \text{W}}{136}$$

$$\text{GPA} = \frac{5{,}940 \times \text{GPM (per nozzle)}}{\text{MPH} \times \text{W}}$$

$$\text{GAL/1000FT}^2 = \frac{136 \times \text{GPM (per nozzle)}}{\text{MPH} \times \text{W}}$$

GPM - Gallons per minute
GPA - Gallons per acre

$GAL/1000FT^2$ - Gallons per 1000 Square Feet

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

Measuring Travel Speed

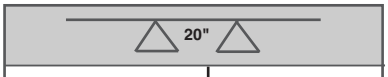
Measure a test course in the area to be sprayed or in an area with similar surface conditions. Minimum lengths of 100 and 200 feet are recommended for measuring speeds up to 5 and 10 mph respectively. Determine the time required to travel the test course. To help insure accuracy, conduct the speed check with a partially loaded (about half full) sprayer and select the engine throttle setting and gear that be used when spraying. Repeat the above process and average the times that were measured. Use the following equation or the table below to determine ground speed.

$$\text{Speed (MPH)} = \frac{\text{Distance (ft)} \times 60}{\text{Time (seconds)} \times 88}$$

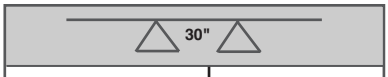
Speed in MPH	Time Required in SECONDS to Travel a Distance of:		
	100 feet	200 feet	300 feet
0.5	136	273	409
1.0	68	136	205
1.5	45	91	136
2.0	34	68	102
2.5	27	55	82
3.0	23	45	68
3.5	19	39	58
4.0	17	34	51
4.5	15	30	45
5.0	14	27	41
5.5	--	25	37
6.0	--	23	34
6.5	--	21	31
7.0	--	19	29
7.5	--	18	27
8.0	--	17	26
8.5	--	16	24
9.0	--	15	23

Nozzle Spacing

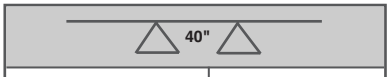
If the nozzle spacing on your boom is different than those tabulated, multiply the tabulated l/ha coverages by one of the following factors.



Other Spacing (inches)	Conversion Factor
8	2.5
10	2
12	1.67
14	1.43
16	1.25
18	1.11
22	.91
24	.83
30	.66



Other Spacing (inches)	Conversion Factor
26	1.15
28	1.07
32	.94
34	.88
36	.83
38	.79
40	.75
42	.71
44	.68



Other Spacing (inches)	Conversion Factor
28	1.43
30	1.33
32	1.25
34	1.18
36	1.11
38	1.05
42	.95
44	.91
48	.83

Miscellaneous Conversion Factors

One Acre = 43,560 Square Feet
= 43.56 $1000FT^2$ Blocks
= 0.405 Hectares

One Hectare = 2.471 Acres

One Gallon Per Acre
= 2.9 Fluid Ounces per $1000FT^2$
= 9.35 Liters per Hectare

One Gallon Per $1000FT^2$ = 43.56 GPA

One Mile = 5,280 Feet
= 1,610 Meters
= 1.61 Kilometers

One Gallon = 128 Fluid Ounces
= 8 Pints
= 4 Quarts
= 3.79 Liters

One Pound Per Square Inch
= 0.069 Bar
= 6.896 Kilopascal

One Mile Per Hour = 1.609 Kilometers per Hour

Suggested Minimum Spray Heights

The nozzle height suggestions in the table below are based on the minimum overlap required to obtain uniform distribution. However, in many cases, typical height adjustments are based on a 1 to 1 nozzle spacing to height ratio. For example, 110˚ flat spray tips spaced 20 inches apart, are commonly set 20 inches above the target

WEIGHT OF SOLUTIONS	SPECIFIC GRAVITY	CONVERSION FACTOR
7.0 lbs/gal	.84	.92
8.0 lbs/gal	.96	.88
8.34 lbs/gal	1.00 - water	1.00
9.0 lbs/gal	1.08	1.04
10.0 lbs/gal	1.20	1.10
10.65 lbs/gal	1.28 - 28% nitrogen	1.13
11.0 lbs/gal	1.32	1.15
12.0 lbs/gal	1.44	1.20
14.0 lbs/gal	1.68	1.30

CHEMICAL CHART

DURA PRODUCTS
AG CHEMICAL CHART

COMPOUND	EPDM	Viton®	Silicone
2,4-D Ester		●	
Accord® / Accord® XRT II	●	●	●
Acuron®	●		
Ammonium Sulfate	●	●	●
Atrazine	●	●	
Balance® Flexx	●	●	
Boundary®		●	
Callisto® 480SC	●		
Capreno®	●	●	
Corvus®	●	●	
Degree Xtra®	●	●	
Dicamba / Xtendimax®	●		
DiFlexx® Duo	●	●	
Duramax® / Durango®	●	●	●
Engenia®	●		
Enlist Duo®	●	●	●
EverGol®	●	●	
Foliars		●	
ForeFront®	●		
FulTime® NXT		●	
Fungicides		●	
Garlon® 3A	●		●
Gaucho® 600	●	●	
Gramoxone® / Paraquat		●	
Grazon® P+D / GrazonNext	●		
Halex® GT	●		
Huskie®		●	
Instinct®			●

COMPOUND	EPDM	Viton®	Silicone
Intimidator®	●		●
Keystone® / Keystone® LA			●
Laudis®	●	●	
Lexar® EZ / Lumax® EZ	●		
Liberty®	●		
Lorsban® 4E / Lorsban® Advanced		●	
Matador®	●		●
Max-In® Ultra ZMB	●	●	
MSO / Crop Oil / Oil Based		●	
Nitrogen Based		●	
N-Serve® 24		●	
Parity™		●	
Prosaro®	●	●	
Prowl® / Pendimethalin		●	
Raxil® PRO	●	●	
Rely® 280	●	●	
Resicore®			●
Roundup®	●	●	
Shredder™ E-99		●	
Stratego® / Stratego® YLD	●		
Stylet-Oil		●	
SureStart® / SureStart® II			●
Surpass® EC	●		●
Tacoma®		●	
TopNotch®	●		
Tordon® 22k	●		
Warrant®		●	
Wolverine® Advanced		●	

The Dura Products Chemical Compatibility Chart ***should be considered as a guide only*** due to the many variables which may affect the compatibility of materials. This guide is based on the most recent information obtained from a variety of suppliers and chemical producers and is believed to be accurate. Actual decisions on materials used need to be tested and evaluated by the customer for each specific application. The responsibility of proper chemical compatibility of equipment and material used is the full responsibility of the customer. Dura Products does not warrant product damaged by non compatibility.

DURA PRODUCTS
Technology with Lasting Value
www.DuraProducts.com

COMPANY POLICY

Terms of Payment: Payment is due in full 30 days after invoice date. All accounts not paid within this billing cycle are considered past due and a charge of 1.5% per month (18% annual rate) will be applied. *Please pay from your invoice* as statements are sent every 60 days.

Prices: All prices are subject to change by our suppliers. All items will be invoiced at the price in effect at the time of shipment.

Returned Merchandise: You will be asked for the original invoice number, the part number(s) and quantity of the item being returned, and the reason for the return.

Any return made within 15 days of shipment will not be charged a restocking fee. After 15 days a 15% restocking charge will be assessed on all stock items. *Absolutely no returned goods will be accepted after 90 days.* All returned items must be accompanied with a copy of your original invoice whether returned by mail, UPS, or at the parts counter.

Special Orders: We will be happy to order items that are not stock items with Agro-Chem, however special orders may not be cancelled. *Special orders are not returnable under any circumstances.*

Claims: Inspect for damage or shortage in shipment as soon as order is received. All damaged shipments from UPS should be reported to UPS. Please call Agro-Chem to report shortages in shipment.

Customer Pick-Up: We are glad to offer customer pick-ups when the order is presented to us on company order blank, stationery, or purchase order. No pick-up will be allowed unless authorized in your writing.

UPS Shipments: We will make every attempt to process stock orders (when they are received by 12:00 P.M.) the same day. You should receive shipment in 1-2 days.

Same Day Shipments by UPS: Agro-Chem takes pride in offering many customers same day shipment by UPS. Overnight or Saturday delivery can be provided at an additional charge.

Charge for Third Party Sales: When a dealer sends a customer to us and we do the actual selling, the billing to the dealer will reflect a penalty.

Service Charge: Any employee of Agro-Chem leaving Agro-Chem for the purpose of servicing equipment will be paid by the receiver of that service at the rate of $80.00 per hour with the travel time included. This charge may be dismissed for services deemed warranty by Agro-Chem.

Thank You: Agro-Chem takes pride in satisfying you, the customer. Thank you for your past business. We are looking forward to serving you in the 2026 season.

Warranty: Agro-Chem, Inc. manufactured products and assemblies are warranted for one year from date of shipment to the original purchaser, as determined by our records, against defects in material or workmanship only. No warranty, express or implied, extends beyond this one year period.

Products reported within the warranty period must be returned to Agro-Chem shipping prepaid. They will be returned shipping collect.

Products, assemblies and parts supplied to Agro-Chem, Inc. by other manufacturers and vendors are subject to warranty. Claims for these will be processed and warranty extended only upon approval. For precision repairs, a loaner may be available for a fee while the customer is waiting to receive their unit.

APPLICATION FOR CREDIT

TO: AGRO-CHEM, INC.
2045 South Wabash Street
Wabash, IN 46992
(800) 686-5680 *or* (260) 563-0672
FAX: (888) 281-4321 *or* (260) 563-8124

Date _____

Agro-Chem Contact _____

NAME OF FIRM OR INDIVIDUAL _____ SOCIAL SECURITY NUMBER _____

ADDRESS _____ YEARS AT THIS ADDRESS _____

CITY _____ STATE _____ ZIP _____ AREA CODE PHONE _____

The following must be provided. It will be held in the strictest confidence.

OWNERSHIP:

___Corporation ___Check here if incorporated within the past 12 months ____Partnership ___Individual

1. _____
NAME(S) OF PRINCIPAL(S) COMPLETE ADDRESS ZIP PHONE

2. _____

FINANCE:

BANK _____ BANK ADDRESS _____

BANK OFFICER OR DEPARTMENT _____ ACCOUNT NUMBER _____ PHONE _____

REFERENCES:

1. _____
BUSINESS NAME COMPLETE ADDRESS ZIP

PHONE _____ ACCOUNT NUMBER _____ FAX NO. _____

2. _____
BUSINESS NAME COMPLETE ADDRESS ZIP

PHONE _____ ACCOUNT NUMBER _____ FAX NO. _____

3. _____
BUSINESS NAME COMPLETE ADDRESS ZIP

PHONE _____ ACCOUNT NUMBER _____ FAX NO. _____

USE THIS FORM TO FAX YOUR ORDER

* * *

WABASH FAX: 888-281-4321 / EAST FAX: 888-400-2642

Company Charge _____
(must have Agro-Chem account)

PHONE NO. _____

Signature _____

METHOD OF PAYMENT

____ VISA ____ MASTERCARD

_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ EXP: _ _ _ _

PHONE NUMBER _____

Signature _____

BILL TO: _____

_____

_____

_____

SHIP TO: _____

_____

_____

_____

QTY.	PART NUMBER	DESCRIPTION	UNIT PRICE

Thank you for your order !

NOTES