



**GENERAL PUMP**

[www.generalpump.com](http://www.generalpump.com) | 888.474.5487



# Reasons to use General Pump



## Reliability

General Pump products have been industry-tested world-wide for over 35 years. General Pump is affiliated with the world's largest manufacturer of high-pressure water plunger pumps and accessories. You can rely on General Pump's wide range of products that fill many niches in the market and cater to customers' specific needs. You can depend on the flexibility and efficiency of General Pump's manufacturing and distribution processes.

## Versatility

General Pump offers a variety of pumps, accessory and nozzle models with flows up to 236 GPM and pressures to 22,000 PSI. General Pump has put millions of pumps into various applications over the last 35 years. These pumps are complemented with a broad array of accessories and nozzles to meet specific customer requirements.



## Economic Quality

Maintenance and repair of GP pumps and accessories is simple and inexpensive. When you compare the life-cycle cost of GP to others in the market, you will find GP products are the choice for best value. Availability of replacement parts and kits is always a critical issue when choosing a supplier. General Pump is a US based distributor/manufacturer with a full inventory of pumps, accessories, nozzles and repair parts ready for immediate delivery.

## Commitment to Support

General Pump has a well-trained staff including Inside and Outside Sales, Applications Engineering and Design Engineering groups ready to provide customers with training, information and support. Comprehensive training schools are held frequently at our world-class training facility.



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# Engineering & Manufacturing



Since 1982, General Pump has developed a leading position as a designer and manufacturer of innovative products for the power wash industry. Located at our manufacturing facility in Eagan, MN our dedicated engineering teams work closely with our OEM partners using state-of-the-art design tools and suppliers to bring to market the innovative, yet cost-effective solutions to meet our customer's needs.

In recent years the emergence of General Pump's own Minnesota-based manufacturing capability has brought a new level of service to the US market. Our capacity has expanded and we offer a wide range of products built to order, made in the USA, for the American market.



Importantly, this local market support is now the strongest in our industry, thanks to the financial backing of the Interpump Group, the world's leader in high-pressure plunger pump technology and production. As a result, General Pump is uniquely positioned in the US market to engineer, manufacture and timely deliver the complete range of solutions required by the power wash industry.

## Dedicated Engineering

- Design teams dedicated to accessory and nozzle development
- Source of innovative products like the Pump Thermal Protector line (PTP), the Dual Port Injector, the 6,000 PSI Safety Valve, the Quick Disconnect Injector line and Expansion Valves
- State-of-the-art design support including 3D CAD modeling and ANSYS fluid and stress analysis software



## In-House Design

- Dedicated engineering resources for product customization and design support
- Dedicated prototype shop ensures timely turnaround of new products
- In-house machine design has provided General Pump's manufacturing department with innovative assembly work stations

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# PRESSURE CLEANING



## Automotive

- Municipal vehicle maintenance
- Bug and tar removal
- General exterior cleaning

## Surface cleaning

- Sidewalks
- Driveways

## Household exterior cleaning

- Mildew removal
- Storm cleanup
- Pool decks
- Gutter cleaning

## Pre-painting surface preparation

- Surface cleaning
- Paint removal

## Heavy equipment maintenance

- Dirt and mud removal
- Grease and oil removal
- Parts washing

## Contract cleaning

- Building exterior cleaning
- Sidewalk cleaning
- Driveway cleaning
- Deck cleaning
- Restaurant kitchen cleaning
- Hood and duct cleaning
- Mobile vehicle wash
- Ice abatement
- Wet sandblasting
- General Cleaning





# EVOLUTION ET SERIES

ISO 9001:2008 CERTIFIED



The  
Big  
Evolution



**ET Series - Features:**

- Triplex plunger pumps
- Nickel-plated cast manifold manufactured like heavy-duty pump line
- New generation seal package
- New dust protection chamber
- Solid ceramic plungers
- New oversized plunger guide
- New optimized inlet and outlet valves
- New oil seal

**ET Series - Solid Shaft - Specifications:**

Max. Inlet Pressure .....125 PSI  
 Max. Fluid Temperature.....165° F  
 Inlet Port Thread.....1/2"-14 BSP-F  
 Discharge Port Thread.....3/8"-19 BSP-F  
 Shaft Diameter .....945 in./24 mm  
 Pump Dimensions.....8"x7.4"x4.7"  
 Crankcase Oil Capacity .....8.5 oz.  
 Use GP Series 100 Oil (see page 60)  
 Product Group.....W

**NEW SERIES!**



ET1509S17

**ET SERIES - 24 MM SOLID SHAFT, 1750 RPM**

MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
ET1509S17	2.1 GPM	2,610 PSI	1750 RPM	.590 in./15 mm	.370 in./9.4 mm	3.7 EBHP	11.0 lbs.
ET1807S17	2.4 GPM	2,320 PSI	1750 RPM	.708 in./18 mm	.283 in./7.2 mm	3.7 EBHP	11.0 lbs.
ET1511S17	2.6 GPM	2,610 PSI	1750 RPM	.590 in./15 mm	.452 in./11.5 mm	4.7 EBHP	11.0 lbs.
ET1512S17	2.9 GPM	2,610 PSI	1750 RPM	.590 in./15 mm	.472 in./12 mm	5.1 EBHP	11.0 lbs.
ET1809S17	3.2 GPM	2,320 PSI	1750 RPM	.708 in./18 mm	.370 in./9.4 mm	5.0 EBHP	11.0 lbs.
ET1810S17	3.4 GPM	2,320 PSI	1750 RPM	.708 in./18 mm	.393 in./10 mm	5.4 EBHP	11.0 lbs.
ET1811S17	3.7 GPM	2,320 PSI	1750 RPM	.708 in./18 mm	.433 in./11 mm	5.9 EBHP	11.0 lbs.

Available with built-in unloader - add "U" to end of part number.  
 Available with built-in unloader and fixed injector - add "UIF" to end of part number.

**ET SERIES - 24 MM SOLID SHAFT, 13 MM BORE, 3400 RPM**

MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
ET1305S34	1.6 GPM	4,450 PSI	3400 RPM	.512 in./13 mm	.197 in./5 mm	4.8 EBHP	11.0 lbs.
ET1306S34	1.9 GPM	4,450 PSI	3400 RPM	.512 in./13 mm	.256 in./6.5 mm	5.6 EBHP	11.0 lbs.
ET1307S34	2.1 GPM	4,450 PSI	3400 RPM	.512 in./13 mm	.283 in./7.2 mm	6.4 EBHP	11.0 lbs.
ET1308S34	2.4 GPM	4,450 PSI	3400 RPM	.512 in./13 mm	.315 in./8 mm	7.2 EBHP	11.0 lbs.
ET1309S34	2.6 GPM	4,450 PSI	3400 RPM	.512 in./13 mm	.354 in./9 mm	8.1 EBHP	11.0 lbs.
ET1310S34	2.9 GPM	4,450 PSI	3400 RPM	.512 in./13 mm	.393 in./9.9 mm	8.9 EBHP	11.0 lbs.
ET1311S34	3.1 GPM	4,450 PSI	3400 RPM	.512 in./13 mm	.433 in./11 mm	9.7 EBHP	11.0 lbs.
ET1312S34	3.4 GPM	4,450 PSI	3400 RPM	.512 in./13 mm	.453 in./11.5 mm	10.5 EBHP	11.0 lbs.

Available with built-in unloader - add "U" to end of part number.  
 Available with built-in unloader and fixed injector - add "UIF" to end of part number.

**ET SERIES - 24 MM SOLID SHAFT, 15 MM BORE, 3400 RPM**

MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
ET1505S34	2.1 GPM	2,610 PSI	3400 RPM	.591 in./15 mm	.197 in./5 mm	3.7 EBHP	11.0 lbs.
ET1506S34	2.6 GPM	2,610 PSI	3400 RPM	.591 in./15 mm	.256 in./6.5 mm	4.7 EBHP	11.0 lbs.
ET1507S34	3.2 GPM	2,610 PSI	3400 RPM	.591 in./15 mm	.283 in./7.2 mm	5.6 EBHP	11.0 lbs.
ET1508S34	3.4 GPM	2,610 PSI	3400 RPM	.591 in./15 mm	.315 in./8 mm	6.1 EBHP	11.0 lbs.

Available with built-in unloader - add "U" to end of part number.  
 Available with built-in unloader and fixed injector - add "UIF" to end of part number.



# E1/ET SERIES 53

UP TO 3.4 GPM

**NEW  
SERIES!**



ET1509E17

**ET Series - Hollow Shaft - Electric - Specifications:**

Hollow Shaft .....5/8 in.  
Pump Dimensions .....7.3"x7.4"x5.5"

ET SERIES - HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO ELECTRIC MOTORS (NEMA56C)							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
ET1509E17	2.1 GPM	2,610 PSI	1700 RPM	.591 in./15 mm	.370 in./9.4 mm	3.7 EBHP	11.0 lbs.
ET1807E17	2.4 GPM	2,320 PSI	1700 RPM	.708 in./18 mm	.283 in./7.2 mm	3.8 EBHP	11.0 lbs.
ET1809E17	3.2 GPM	2,320 PSI	1700 RPM	.708 in./18 mm	.370 in./9.4 mm	5.0 EBHP	11.0 lbs.
ET1504E34	1.85 GPM	2,610 PSI	3400 RPM	.591 in./15 mm	.157 in./4 mm	3.6 EBHP	11.0 lbs.
ET1505E34	2.1 GPM	2,610 PSI	3400 RPM	.591 in./15 mm	.197 in./5 mm	3.7 EBHP	11.0 lbs.
ET1506E34	2.9 GPM	2,610 PSI	3400 RPM	.591 in./15 mm	.256 in./6.5 mm	5.2 EBHP	11.0 lbs.
ET1507E34	3.2 GPM	2,610 PSI	3400 RPM	.591 in./15 mm	.283 in./7.2 mm	5.6 EBHP	11.0 lbs.

Available with built-in unloader - add "U" to end of part number.  
Available with built-in unloader and fixed injector - add "UIF" to end of part number.



ET1506G6

**ET Series - Hollow Shaft - Gasoline - Specifications:**

Hollow Shaft .....3/4 (.750) in.  
Pump Dimensions .....7.4"x7.7"x3.3"

ET SERIES - HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO GASOLINE ENGINES (SAE J609A)							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
ET1505G6	2.1 GPM	2,610 PSI	3400 RPM	.591 in./15 mm	.197 in./5 mm	5.7 GHP	11.0 lbs.
ET1506G6	2.9 GPM	2,610 PSI	3400 RPM	.591 in./15 mm	.256 in./6.5 mm	7.7 GHP	11.0 lbs.
ET1507G6	3.3 GPM	2,610 PSI	3400 RPM	.591 in./15 mm	.283 in./7.2 mm	8.6 GHP	11.0 lbs.
ET1508G6	3.4 GPM	2,610 PSI	3400 RPM	.591 in./15 mm	.315 in./8 mm	9.1 GHP	11.0 lbs.

Available with built-in unloader - add "U" to end of part number.  
Available with built-in unloader and fixed injector - add "UIF" to end of part number.



ET1305E34UTS

- Total start-stop feature
- Right side shaft, left side manifold (S), or left side shaft, right side manifold (SL)
- Build-in unloader

**ET Series - Hollow Shaft - Electric - Specifications:**

Hollow Shaft .....5/8 in.  
Pump Dimensions .....8"x7.4"x4.7"

ET SERIES - HOLLOW SHAFT FEATURING TOTAL START-STOP, BUILT-IN UNLOADER, PRESSURE SWITCH AND CHEMICAL INJECTOR							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
ET1509E17UTS	2.1 GPM	2,610 PSI	1700 RPM	.591 in./15 mm	.370 in./9.4 mm	3.7 EBHP	
ET1305E34UTS	1.6 GPM	4,450 PSI	3400 RPM	.511 in./13 mm	.197 in./5 mm	4.9 EBHP	11.0 lbs.
ET1504E34UTS	2.0 GPM	2,610 PSI	3400 RPM	.591 in./15 mm	.157 in./4 mm	3.6 EBHP	11.0 lbs.
ET1504E34UTSL	2.0 GPM	2,610 PSI	3400 RPM	.591 in./15 mm	.157 in./4 mm	3.6 EBHP	11.0 lbs.
ET1505E34UTSL	2.1 GPM	2,610 PSI	3400 RPM	.591 in./15 mm	.197 in./5 mm	3.8 EBHP	11.0 lbs.
ET1506E34UTSL	2.9 GPM	2,610 PSI	3400 RPM	.591 in./15 mm	.236 in./6 mm	5.2 EBHP	11.0 lbs.

**EP Series - Features:**

- Triplex plunger pumps
- Advanced forged brass manifold increases working pressure to 4,000 PSI
- Patent-pending plunger guide bushing
- Solid ceramic plungers with innovative dual glide system
- Optimized outlet valves
- New dual lip oil seal

**EP Series - Solid Shaft - Specifications:**

Max. Inlet Pressure .....125 PSI  
 Max. Fluid Temperature.....165° F  
 Inlet Port Thread.....1/2"-14 BSP-F  
 Discharge Port Thread.....3/8"-19 BSP-F  
 Shaft Diameter ......945 in./24 mm  
 Pump Dimensions .....9.5"x8.38"x5.1"  
 Crankcase Oil Capacity.....15.0 oz.  
     Use GP Series 100 Oil (see page 60)  
 Product Group.....W



EP1510S17

EP SERIES - 24 MM SOLID SHAFT							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
EP1510S17	2.4 GPM	3,045 PSI	1750 RPM	.591 in./15 mm	.394 in./10 mm	5.0 EBHP	15.4 lbs.
EP1512S17	2.9 GPM	3,045 PSI	1750 RPM	.591 in./15 mm	.472 in./12 mm	6.0 EBHP	15.4 lbs.
EP1513S17	3.2 GPM	3,045 PSI	1750 RPM	.591 in./15 mm	.512 in./13 mm	6.6 EBHP	15.4 lbs.
EP1810S17	3.4 GPM	2,500 PSI	1750 RPM	.709 in./18 mm	.394 in./10 mm	5.8 EBHP	15.4 lbs.
EP1811S17	3.7 GPM	2,500 PSI	1750 RPM	.709 in./18 mm	.433 in./11 mm	6.3 EBHP	15.4 lbs.
EP1812S17	4.0 GPM	2,500 PSI	1750 RPM	.709 in./18 mm	.472 in./12 mm	6.8 EBHP	15.4 lbs.
EP1813S17	4.2 GPM	2,900 PSI	1750 RPM	.709 in./18 mm	.512 in./13 mm	8.3 EBHP	15.4 lbs.
EP1313S17	2.4 GPM	4,000 PSI	1750 RPM	.512 in./13 mm	.512 in./13 mm	6.5 EBHP	15.4 lbs.
EP1505S34	2.1 GPM	3,045 PSI	3400 RPM	.591 in./15 mm	.197 in./5 mm	4.4 EBHP	15.4 lbs.
EP1506S34	2.9 GPM	3,045 PSI	3400 RPM	.591 in./15 mm	.236 in./6.5 mm	6.0 EBHP	15.4 lbs.
EP1508S34	3.4 GPM	3,045 PSI	3400 RPM	.591 in./15 mm	.315 in./8 mm	7.1 EBHP	15.4 lbs.
EP1510S34	4.2 GPM	3,045 PSI	3400 RPM	.591 in./15 mm	.394 in./10 mm	8.8 EBHP	15.4 lbs.
EP1306S34	2.1 GPM	4,000 PSI	3400 RPM	.512 in./13 mm	.236 in./6.5 mm	5.8 EBHP	15.4 lbs.
EP1308S34	2.6 GPM	4,000 PSI	3400 RPM	.512 in./13 mm	.394 in./10 mm	7.1 EBHP	15.4 lbs.
EP1310S34	3.2 GPM	4,000 PSI	3400 RPM	.512 in./13 mm	.394 in./10 mm	8.8 EBHP	15.4 lbs.
EP1311S34	3.4 GPM	4,000 PSI	3400 RPM	.512 in./13 mm	.433 in./11 mm	9.3 EBHP	15.4 lbs.
EP1313S34	4.0 GPM	4,000 PSI	3400 RPM	.512 in./13 mm	.512 in./13 mm	10.9 EBHP	15.4 lbs.

Available with built-in unloader - add "U" to end of part number.  
 Available with built-in unloader and injector - add "UIF" to end of part number.

**EP Series - Hollow Shaft - Specifications:**

Hollow Shaft .....1-1/8 (1.125) in.  
 Pump Dimensions.....9.5"x 8.38"x 5.1"



EP1510E17

EP SERIES - 1-1/8 (1.125)" HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO ELECTRIC MOTORS							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
EP1510E17	2.4 GPM	3,045 PSI	1750 RPM	.591 in./15 mm	.394 in./10 mm	5.0 EBHP	15.8 lbs.
EP1512E17	2.9 GPM	3,045 PSI	1750 RPM	.591 in./15 mm	.472 in./12 mm	6.0 EBHP	15.8 lbs.
EP1810E17	3.4 GPM	2,500 PSI	1750 RPM	.709 in./18 mm	.394 in./10 mm	5.8 EBHP	15.8 lbs.
EP1811E17	3.7 GPM	2,500 PSI	1750 RPM	.709 in./18 mm	.433 in./11 mm	6.3 EBHP	15.8 lbs.
EP1812E17	4.0 GPM	2,500 PSI	1750 RPM	.709 in./18 mm	.472 in./12 mm	6.8 EBHP	15.8 lbs.

Available with built-in unloader - add "U" to end of part number.  
 Available with built-in unloader and injector - add "UIF" to end of part number.



# E2/EP SERIES 58 UP TO 4.2 GPM



EP1506G6

**EP Series - Hollow Shaft - Gasoline - Specifications:**

Hollow Shaft .....3/4 (.750) in.  
 Pump Dimensions .....9.5"x8.38"x5.1"

EP SERIES - 3/4" HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO GASOLINE ENGINES							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
EP1505G6	2.1 GPM	3,045 PSI	3400 RPM	.591 in./15 mm	.197 in./5 mm	6.6 GHP	15.8 lbs.
EP1506G6	2.9 GPM	3,045 PSI	3400 RPM	.591 in./15 mm	.236 in./6 mm	9.0 GHP	15.8 lbs.
EP1508G6	3.4 GPM	3,045 PSI	3400 RPM	.591 in./15 mm	.315 in./8 mm	10.9 GHP	15.8 lbs.

Available with built-in unloader - add "U" to end of part number.  
 Available with built-in unloader and injector - add "UIF" to end of part number.



EP1506G8

**EP Series - Hollow Shaft - Gasoline - Specifications:**

Hollow Shaft .....1 in.  
 Pump Dimensions .....9.5"x8.38"x5.1"

EP SERIES - 1" HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO GASOLINE ENGINES							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
EP1506G8	2.9 GPM	3,045 PSI	3400 RPM	.591 in./15 mm	.236 in./6 mm	9.0 GHP	15.9 lbs.
EP1508G8	3.4 GPM	3,045 PSI	3400 RPM	.591 in./15 mm	.315 in./8 mm	10.6 GHP	15.9 lbs.
EP1509G8	3.7 GPM	3,000 PSI	3400 RPM	.591 in./15 mm	.354 in./9 mm	11.4 GHP	15.9 lbs.
EP1510G8	4.2 GPM	3,000 PSI	3400 RPM	.591 in./15 mm	.394 in./10 mm	13.0 GHP	15.9 lbs.
EP1306G8	2.1 GPM	4,000 PSI	3400 RPM	.512 in./13 mm	.236 in./6 mm	8.6 GHP	15.9 lbs.
EP1308G8	2.6 GPM	4,000 PSI	3400 RPM	.512 in./13 mm	.315 in./8 mm	10.7 GHP	15.9 lbs.
EP1309G8	2.9 GPM	4,000 PSI	3400 RPM	.512 in./13 mm	.354 in./9 mm	11.9 GHP	15.9 lbs.
EP1310G8	3.2 GPM	4,000 PSI	3400 RPM	.512 in./13 mm	.394 in./10 mm	13.2 GHP	15.9 lbs.
EP1311G8	3.4 GPM	4,000 PSI	3400 RPM	.512 in./13 mm	.433 in./11 mm	14.0 GHP	15.9 lbs.
EP1313G8	4.0 GPM	4,000 PSI	3400 RPM	.512 in./13 mm	.512 in./13 mm	16.4 GHP	15.9 lbs.

Available with built-in unloader - add "U" to end of part number.  
 Available with built-in unloader and injector - add "UIF" to end of part number (ex. EP1313G8UIF would have the same specifications as the EP1313G8, with a built-in unloader and fixed injector - see photo below).



**ES Series - Features:**

- Triplex plunger pumps
- Forged brass manifold
- Patent-pending plunger guide bushing
- Solid ceramic plungers with innovative dual glide system
- Optimized outlet valves
- Exclusive protection chamber between crankcase and manifold
- New dual lip oil seal

**ES Series - Solid Shaft - Specifications:**

Max. Inlet Pressure .....125 PSI  
 Max. Fluid Temperature.....165° F  
 Inlet Port Thread.....1/2"-14 BSP-F  
 Discharge Port Thread.....3/8"-19 BSP-F  
 Shaft Diameter .....945 in./24 mm  
 Pump Dimensions .....10.4"x8.8"x5.4"  
 Crankcase Oil Capacity.....22.0 oz.  
 Use GP Series 100 Oil (see page 60)  
 Product Group.....W



ES2212S

ES SERIES - 24 MM SOLID SHAFT							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
ES2212S	4.76 GPM	3,000 PSI	1450 RPM	.866 in./22 mm	.472 in./12 mm	9.8 EBHP	21.0 lbs.
ES2213S	5.55 GPM	3,000 PSI	1450 RPM	.866 in./22 mm	.512 in./13 mm	11.45 EBHP	21.0 lbs.
ES1810S	3.43 GPM	4,000 PSI	1750 RPM	.709 in./18 mm	.394 in./10 mm	9.4 EBHP	21.0 lbs.
ES2010S	3.96 GPM	4,000 PSI	1750 RPM	.787 in./20 mm	.394 in./10 mm	10.9 EBHP	21.0 lbs.
ES2012S	4.76 GPM	4,000 PSI	1750 RPM	.787 in./20 mm	.472 in./12 mm	13.0 EBHP	21.0 lbs.
ES2013S	5.55 GPM	3,600 PSI	1750 RPM	.787 in./20 mm	.512 in./13 mm	13.6 EBHP	21.0 lbs.

**ES Series - Solid Shaft - Nickel-Plated Specifications:**

Shaft Diameter .....945 in./24 mm  
 Pump Dimensions .....10.4"x8.8"x5.4"



ESN2212S

ES SERIES - 24 MM SOLID SHAFT - NICKEL-PLATED							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
ESN2212S	4.76 GPM	3,045 PSI	1450 RPM	.866 in./22 mm	.472 in./12 mm	9.8 EBHP	21.0 lbs.
ESN2213S	5.55 GPM	4,000 PSI	1450 RPM	.866 in./22 mm	.512 in./13 mm	11.5 EBHP	21.0 lbs.
ESN1810S	3.43 GPM	4,000 PSI	1750 RPM	.709 in./18 mm	.394 in./10 mm	9.4 EBHP	21.0 lbs.
ESN2010S	3.96 GPM	4,000 PSI	1750 RPM	.787 in./20 mm	.394 in./10 mm	10.9 EBHP	21.0 lbs.
ESN2012S	4.76 GPM	4,000 PSI	1750 RPM	.787 in./20 mm	.472 in./12 mm	13.0 EBHP	21.0 lbs.
ESN2013S	5.55 GPM	3,625 PSI	1750 RPM	.787 in./20 mm	.512 in./13 mm	13.6 EBHP	21.0 lbs.

**ES Series - Nickel-Plated - Flanged for Gas Engines Specifications:**

Shaft Diameter.....1 in.  
 Pump Dimensions.....10.4"x10.3"x4.8"



ESN1310G

ES SERIES - 1" HOLLOW SHAFT - NICKEL-PLATED, FLANGED FOR GASOLINE ENGINES (SAE J609B)							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
ESN1310G	3.43 GPM	4,000 PSI	3400 RPM	.512 in./13 mm	.394 in./10 mm	14.0 GHP	21.0 lbs.
ESN1313G	3.96 GPM	4,000 PSI	3400 RPM	.512 in./13 mm	.512 in./13 mm	16.3 GHP	21.0 lbs.
ESN1510G	4.49 GPM	3,625 PSI	3400 RPM	.591 in./15 mm	.394 in./10 mm	16.7 GHP	21.0 lbs.
ESN1512G	5.28 GPM	3,625 PSI	3400 RPM	.591 in./15 mm	.472 in./12 mm	19.7 GHP	21.0 lbs.





TT901

**51 Series - Features:**

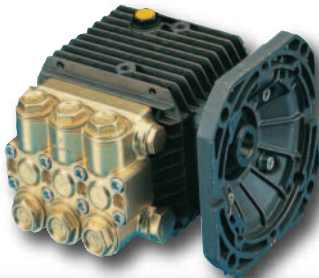
- Triplex plunger pumps
- Forged brass manifold with an exclusive lifetime warranty
- Die-cast, anodized aluminum oil-bath crankcase
- Solid ceramic plungers with continuously lubricated packings
- Unitized, stainless steel inlet and outlet valves
- Ideal for all general cleaning and misting applications

**51 Series - Solid Shaft - Specifications:**

Max. Inlet Pressure .....125 PSI  
 Max. Fluid Temperature.....165° F  
 Inlet Port Thread.....3/8"-19 BSP-F  
 Discharge Port Thread.....1/4"-19 BSP-F  
 Shaft Diameter .....945 in./24 mm  
 Pump Dimensions .....7.0"x 6.9"x 5.1"  
 Crankcase Oil Capacity.....11.2 oz.  
 Use GP Series 100 Oil (see page 60)  
 Product Group.....U

**51 SERIES - 24 MM SOLID SHAFT FOR PULLEY MOUNT OR DIRECT DRIVE WITH FLEX COUPLER AND BELL HOUSING**

MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TT9111	3.0 GPM	1,500 PSI	1750 RPM	.708 in./18 mm	.370 in./9.4 mm	3.1 EBHP	11.2 lbs.
TT901	2.11 GPM	1,500 PSI	2800 RPM	.591 in./15 mm	.236 in./6.0 mm	2.2 EBHP	11.2 lbs.
TT951	2.5 GPM	1,500 PSI	2800 RPM	.591 in./15 mm	.283 in./7.2 mm	2.6 EBHP	11.2 lbs.
TT931	2.9 GPM	1,500 PSI	2800 RPM	.591 in./15 mm	.315 in./8.0 mm	3.0 EBHP	11.2 lbs.
TT941	3.43 GPM	1,500 PSI	2800 RPM	.591 in./15 mm	.370 in./9.4 mm	3.5 EBHP	11.2 lbs.
540014	Optional Rail						



TT2021EBF

**51 Series - Hollow Shaft - Electric - Specifications:**

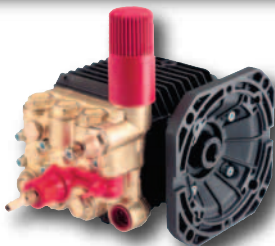
Hollow Shaft.....5/8 (.625) in. or 3/4 (.750) in.  
 Pump Dimensions .....7.0"x 7.2"x 5.5"

**51 SERIES - 5/8" HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO ELECTRIC MOTORS (NEMA 56C)**

MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
T9051EBF	2.11 GPM	1,500 PSI	1750 RPM	.591 in./15 mm	.370 in./9.4 mm	2.2 EBHP	11.5 lbs.
TT9111EBF	3.0 GPM	1,500 PSI	1750 RPM	.709 in./18 mm	.370 in./9.4 mm	3.1 EBHP	11.5 lbs.
TT2021EBF	2.1 GPM	2,000 PSI	3400 RPM	.591 in./15 mm	.197 in./5.0 mm	2.9 EBHP	11.5 lbs.
TT9061EBF	2.11 GPM	1,500 PSI	3400 RPM	.591 in./15 mm	.197 in./5.0 mm	2.2 EBHP	11.5 lbs.
TT2028EBF	2.8 GPM	2,000 PSI	3400 RPM	.591 in./15 mm	.260 in./6.6 mm	3.8 EBHP	11.5 lbs.
TT9071EBF	2.8 GPM	1,500 PSI	3400 RPM	.591 in./15 mm	.260 in./6.6 mm	2.9 EBHP	11.5 lbs.

**51 SERIES - 3/4" HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO ELECTRIC MOTORS (NEMA 56C)**

MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TT2035EBF	3.5 GPM	2,000 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	4.8 EBHP	11.5 lbs.



TT9061EBFUI

**51 Series - Hollow Shaft - Electric - Specifications:**

Hollow Shaft.....5/8 (.625) in. or 3/4 (.750) in.  
 Pump Dimensions.....7.0"x7.2"x8.0"

**51 SERIES - 5/8" HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO ELECTRIC MOTORS (NEMA 56C) - WITH BUILT-IN UNLOADER**

MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
T9051EBFU	2.11 GPM	1,500 PSI	1750 RPM	.591 in./15 mm	.370 in./9.4 mm	2.2 EBHP	12.0 lbs.
TT9061EBFU	2.11 GPM	1,500 PSI	3400 RPM	.591 in./15 mm	.197 in./5.0 mm	2.2 EBHP	12.0 lbs.
TT9071EBFU	2.8 GPM	1,500 PSI	3400 RPM	.591 in./15 mm	.260 in./6.6 mm	2.9 EBHP	12.0 lbs.

**Pump with Built-in Unloader and Downstream Injector**

T9051EBFUI	2.11 GPM	1,500 PSI	1750 RPM	.591 in./15 mm	.370 in./9.4 mm	2.2 EBHP	12.0 lbs.
TT9061EBFUI	2.11 GPM	1,500 PSI	3400 RPM	.591 in./15 mm	.197 in./5.0 mm	2.2 EBHP	12.0 lbs.
TT9071EBFUI	2.8 GPM	1,500 PSI	3400 RPM	.591 in./15 mm	.260 in./6.6 mm	2.9 EBHP	12.0 lbs.

**51 SERIES - 3/4" HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO ELECTRIC MOTORS (NEMA 56C) - W/ B/I BUILT-IN UNLOADER AND DOWNSTREAM INJECTOR**

MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TT2035EBFUI	3.5 GPM	2,000 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	4.8 EBHP	12.0 lbs.

**51 Series - Hollow Shaft - Gasoline - Specifications:**

Hollow Shaft .....3/4 (.750) in.  
Pump Dimensions .....7.2"x 7.2"x 5.5"



TT9061GBF

51 SERIES - 3/4" HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO GASOLINE ENGINES (SAE J609A)							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TT9061GBF	2.11 GPM	1,500 PSI	3400 RPM	.591 in./15 mm	.197 in./5.0 mm	3.3 GHP	11.4 lbs.
TT2028GBF	2.8 GPM	2,000 PSI	3400 RPM	.591 in./15 mm	.260 in./6.6 mm	5.8 GHP	11.4 lbs.
TT9071GBF	2.8 GPM	1,500 PSI	3400 RPM	.591 in./15 mm	.260 in./6.6 mm	4.3 GHP	11.4 lbs.
TT2035GBF	3.5 GPM	2,000 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	7.2 GHP	11.4 lbs.
TT1540GBF	4.0 GPM	1,500 PSI	3400 RPM	.591 in./15 mm	.370 in./9.4 mm	6.2 GHP	11.4 lbs.

**51 Series - Hollow Shaft -Gasoline - Specifications:**

Hollow Shaft .....3/4 (.750) in.  
Pump Dimensions .....7.0"x 7.2"x 5.5"



TP2520J34

51 SERIES - 3/4" HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO GASOLINE ENGINES (SAE J609A)							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TP2520J34	1.9 GPM	2,500 PSI	3400 RPM	.591 in./15 mm	.197 in./5.0 mm	4.9 GHP	11.4 lbs.
TP2526J34	2.6 GPM	2,500 PSI	3400 RPM	.591 in./15 mm	.260 in./6.6 mm	6.7 GHP	11.4 lbs.
TP2530J34	2.88 GPM	2,500 PSI	3400 RPM	.591 in./15 mm	.283 in./7.2 mm	7.4 GHP	11.4 lbs.
TP2533J34	3.3 GPM	2,500 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	8.5 GHP	11.4 lbs.

**51 Series - Hollow Shaft -Gasoline - Specifications:**

Hollow Shaft .....3/4 (.750) in.  
Pump Dimensions.....7.0"x7.2"x5.5"



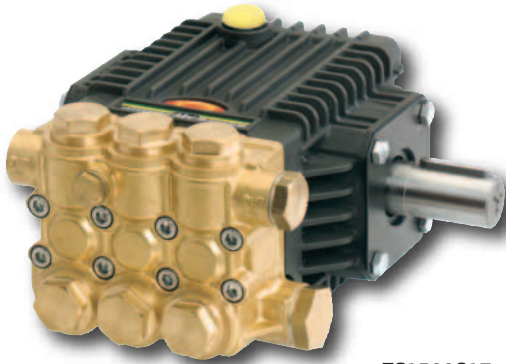
TP2530J34UIL

51 SERIES - 3/4" HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO GASOLINE ENGINES (SAE J609A), WITH BUILT-IN UNLOADER AND DOWNSTREAM INJECTOR							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TP2520J34UIL	1.9 GPM	2,500 PSI	3400 RPM	.591 in./15 mm	.197 in./5.0 mm	4.9 GHP	11.4 lbs.
TP2526J34UIL	2.6 GPM	2,700 PSI	3400 RPM	.591 in./15 mm	.260 in./6.6 mm	7.2 GHP	11.4 lbs.
TP2530J34UIL	2.88 GPM	2,700 PSI	3400 RPM	.591 in./15 mm	.283 in./7.2 mm	8.0 GHP	11.4 lbs.
TP2533J34UIL	3.3 GPM	2,500 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	8.5 GHP	11.4 lbs.



# 60 SERIES

UP TO 4.0 GPM



TC1509S17

**60 Series - Features:**

- Triplex plunger pumps
- Compact design
- Forged brass manifold with an exclusive lifetime warranty
- Long life, low pressure seals
- Oversized bearings and sight glass

**60 Series - Solid Shaft - Specifications:**

Max. Inlet Pressure .....125 PSI  
 Max. Fluid Temperature.....165° F  
 Inlet Port Thread.....1/2"-14 BSP-F  
 Discharge Port Thread.....3/8"-19 BSP-F  
 Gauge Port.....1/8"  
 Shaft Diameter.....9/16 in./24 mm  
 Pump Dimensions .....7.6"x 8.0"x 4.9"  
 Crankcase Oil Capacity.....11.8 oz.  
 Use GP Series 100 Oil (see page 60)  
 Product Group.....U

60 SERIES - 24 MM SOLID SHAFT							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TC1509S17	1.75 GPM	2,500 PSI	1450 RPM	.591 in./15 mm	.370 in./9.4 mm	3.0 EBHP	15.2 lbs.
	2.1 GPM	2,500 PSI	1750 RPM	.591 in./15 mm	.370 in./9.4 mm	3.6 EBHP	15.2 lbs.
TC1511S17	2.1 GPM	2,500 PSI	1450 RPM	.591 in./15 mm	.453 in./11.5 mm	3.6 EBHP	15.2 lbs.
	2.6 GPM	2,500 PSI	1750 RPM	.591 in./15 mm	.453 in./11.5 mm	4.45 EBHP	15.2 lbs.
TC1809S17	2.5 GPM	2,200 PSI	1450 RPM	.709 in./18 mm	.370 in./9.4 mm	3.77 EBHP	15.2 lbs.
	3.1 GPM	2,200 PSI	1750 RPM	.709 in./18 mm	.370 in./9.4 mm	4.67 EBHP	15.2 lbs.
TC1811S17	3.25 GPM	2,200 PSI	1450 RPM	.709 in./18 mm	.453 in./11.5 mm	4.9 EBHP	15.2 lbs.
	3.9 GPM	2,200 PSI	1750 RPM	.709 in./18 mm	.453 in./11.5 mm	5.88 EBHP	15.2 lbs.
TC1507S34	3.0 GPM	2,700 PSI	3400 RPM	.591 in./15 mm	.283 in./7.2 mm	5.55 EBHP	15.2 lbs.
TC1508S34	3.3 GPM	2,500 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	5.65 EBHP	15.2 lbs.



TC1508E175

**60 Series - Hollow Shaft - Electric - Specifications:**

Hollow Shaft .....5/8 (.625)in. or 3/4 (.750) in.  
 Pump Dimensions .....7.8"x 7.3"x 5.5"

60 SERIES - 5/8" HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO ELECTRIC MOTORS (NEMA 56C)							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TC1502E175	0.25 GPM	2,500 PSI	1750 RPM	.591 in./15 mm	.079 in./2.0 mm	0.5 EBHP	15.1 lbs.
TC1802E175	0.5 GPM	2,200 PSI	1750 RPM	.709 in./18 mm	.079 in./2.0 mm	0.8 EBHP	15.1 lbs.
TC1508E175	1.75 GPM	2,500 PSI	1750 RPM	.591 in./15 mm	.315 in./8.0 mm	3.0 EBHP	15.1 lbs.
TC1509E175	2.10 GPM	2,500 PSI	1750 RPM	.591 in./15 mm	.370 in./9.4 mm	3.6 EBHP	15.1 lbs.
TC1809E175	3.10 GPM	2,200 PSI	1750 RPM	.709 in./18 mm	.370 in./9.4 mm	4.7 EBHP	15.1 lbs.
TC1504E345	1.75 GPM	2,700 PSI	3400 RPM	.591 in./15 mm	.158 in./4.0 mm	3.2 EBHP	15.1 lbs.
TC1505E345	2.1 GPM	2,700 PSI	3400 RPM	.591 in./15 mm	.197 in./5.0 mm	3.88 EBHP	15.1 lbs.
TC1506E345	2.6 GPM	2,700 PSI	3400 RPM	.591 in./15 mm	.256 in./6.5 mm	4.81 EBHP	15.1 lbs.
TC1507E345	3.0 GPM	2,700 PSI	3400 RPM	.591 in./15 mm	.283 in./7.2 mm	5.55 EBHP	15.1 lbs.

60 SERIES - 3/4" HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO ELECTRIC MOTORS (NEMA 56C)							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TC1506E346	2.6 GPM	2,700 PSI	3400 RPM	.591 in./15 mm	.256 in./6.5 mm	4.81 EBHP	15.1 lbs.
TC1507E346	3.0 GPM	2,700 PSI	3400 RPM	.591 in./15 mm	.283 in./7.2 mm	5.55 EBHP	15.1 lbs.
TC1508E346	3.3 GPM	2,500 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	5.65 EBHP	15.1 lbs.

**60 Series - Hollow Shaft - Gasoline - Specifications:**

Hollow Shaft .....3/4 (.750) in.  
Pump Dimensions .....7.6"x7.6"x5.1"



TC1506G

60 SERIES - 3/4" HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO GASOLINE ENGINES (SAE J609A)							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TC1506G	2.6 GPM	2,700 PSI	3400 RPM	.591 in./15 mm	.256 in./6.5 mm	7.21 GHP	14.6 lbs.
TC1507G	3.0 GPM	2,700 PSI	3400 RPM	.591 in./15 mm	.283 in./7.2 mm	8.32 GHP	14.6 lbs.
TC1508G	3.3 GPM	2,500 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	8.48 GHP	14.6 lbs.
TC1509G	4.0 GPM	2,500 PSI	3400 RPM	.591 in./15 mm	.370 in./9.4 mm	10.27 GHP	14.6 lbs.

**60 Series - Hollow Shaft - Gasoline - Specifications:**

Hollow Shaft .....3/4 (.750) in.  
Pump Dimensions .....10.4"x8.0"x7.7"



TC1506GUI

60 SERIES - 3/4" HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO GASOLINE ENGINES (SAE J609A) w/ BUILT-IN TRAPPED PRESSURE UNLOADER							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TC1506GUI	2.6 GPM	2,700 PSI	3400 RPM	.591 in./15 mm	.256 in./6.5 mm	7.21 GHP	16.0 lbs.
TC1507GUI	3.0 GPM	2,700 PSI	3400 RPM	.591 in./15 mm	.283 in./7.2 mm	8.32 GHP	16.0 lbs.
TC1508GUI	3.3 GPM	2,500 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	8.48 GHP	16.0 lbs.
TC1509GUI	4.0 GPM	2,500 PSI	3400 RPM	.591 in./15 mm	.370 in./9.4 mm	10.27 GHP	16.0 lbs.

*Access the latest*  *service videos*

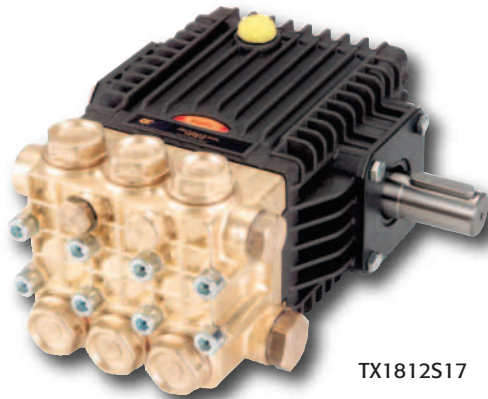
**You Tube**

[www.generalspump.com](http://www.generalspump.com)



# PRESSURE CLEANING PUMPS 63 SERIES

## UP TO 4.0 GPM



TX1812S17

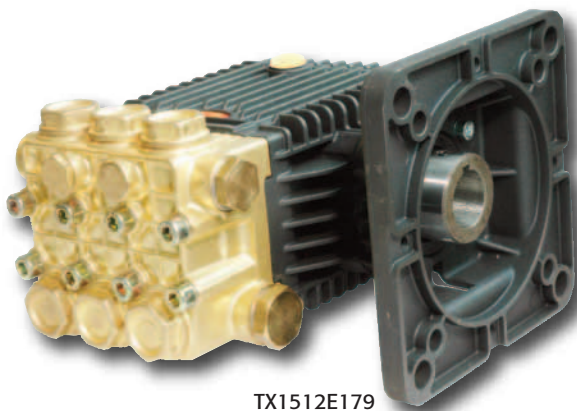
### 63 Series - Features:

- Triplex plunger pumps
- Forged brass manifold with an exclusive lifetime warranty
- Large, lightweight connecting rods
- Long life, low and high pressure seals
- Oversized bearings and sight glass
- Flex coupling and bell housing available for direct drive

### 63 Series - Solid Shaft - Specifications:

Max. Inlet Pressure ..... 125 PSI  
 Max. Fluid Temperature..... 165° F  
 Inlet Port Thread..... 1/2"-14 BSP-F  
 Discharge Port Thread..... 3/8"-19 BSP-F  
 Gauge Port..... 1/8"  
 Shaft Diameter ..... .945 in./24 mm  
 Pump Dimensions..... 8.4"x8.3"x4.8"  
 Crankcase Oil Capacity..... 14.0 oz.  
 Use GP Series 100 Oil (see page 60)  
 Product Group..... W

63 SERIES - 24 MM SOLID SHAFT							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TX1512S17	2.6 GPM	3,000 PSI	1750 RPM	.591 in./15 mm	.472 in./12 mm	5.3 EBHP	19.0 lbs.
TX1513S17	3.0 GPM	3,000 PSI	1750 RPM	.591 in./15 mm	.512 in./13 mm	6.2 EBHP	19.0 lbs.
TX1810S17	3.2 GPM	2,500 PSI	1750 RPM	.709 in./18 mm	.394 in./10 mm	4.2 EBHP	19.0 lbs.
TX1812S17	3.8 GPM	2,500 PSI	1750 RPM	.709 in./18 mm	.472 in./12 mm	5.2 EBHP	19.0 lbs.
TX1813S17	4.1 GPM	2,500 PSI	1750 RPM	.709 in./18 mm	.512 in./13 mm	5.6 EBHP	19.0 lbs.
TX1506S34	2.6 GPM	3,000 PSI	3400 RPM	.591 in./15 mm	.256 in./6.5 mm	5.3 EBHP	19.0 lbs.
TX1508S34	3.0 GPM	3,000 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	6.2 EBHP	19.0 lbs.
TX1510S34	4.0 GPM	3,000 PSI	3400 RPM	.591 in./15 mm	.394 in./10 mm	8.2 EBHP	19.0 lbs.



TX1512E179

### 63 Series - Hollow Shaft -Electric- Specifications:

Hollow Shaft ..... 1-1/8 (1.125) in.  
 Pump Dimensions..... 8.6"x7.9"x5.7"

63 SERIES - 1-1/8 (1.125)" HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO ELECTRIC MOTORS (NEMA-184TC)							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TX1512E179	2.6 GPM	3,000 PSI	1750 RPM	.591 in./15 mm	.472 in./12 mm	5.3 EBHP	18.0 lbs.
TX1810E179	3.2 GPM	2,500 PSI	1750 RPM	.709 in./18 mm	.394 in./10 mm	4.4 EBHP	18.0 lbs.
TX1812E179	3.8 GPM	2,500 PSI	1750 RPM	.709 in./18 mm	.472 in./12 mm	5.2 EBHP	18.0 lbs.
TX1510E349	2.0 GPM	3,000 PSI	1750 RPM	.591 in./15 mm	.394 in./10 mm	4.3 EBHP	18.0 lbs.
	4.0 GPM	3,000 PSI	3400 RPM	.591 in./15 mm	.394 in./10 mm	8.2 EBHP	18.0 lbs.

**63 Series - 3/4" Hollow Shaft - Gasoline - Specifications:**

Hollow Shaft.....3/4 (.750) in.  
Pump Dimensions.....8.4"x8.3"x4.8"



TX1506G6

63 SERIES - 3/4" HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO GASOLINE ENGINES (SAE J609B)							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TX1505G6	2.0 GPM	3,000 PSI	3400 RPM	.591 in./15 mm	.197 in./5.0 mm	6.2 GHP	18.0 lbs.
TX1506G6	2.6 GPM	3,000 PSI	3400 RPM	.591 in./15 mm	.256 in./6.5 mm	8.0 GHP	18.0 lbs.
TX1508G6	3.0 GPM	3,000 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	9.2 GHP	18.0 lbs.

**63 Series - 1" Hollow Shaft - Gasoline - Specifications:**

Hollow Shaft.....1 in.  
Pump Dimensions.....8.4"x8.3"x4.8"



TX1506G8

63 SERIES - 1" HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO GASOLINE ENGINES (SAE J609B)							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TX1506G8	2.6 GPM	3,000 PSI	3400 RPM	.591 in./15 mm	.256 in./6.5 mm	8.0 GHP	18.0 lbs.
TX1508G8	3.0 GPM	3,000 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	9.2 GHP	18.0 lbs.
TX1509G8	3.5 GPM	3,000 PSI	3400 RPM	.591 in./15 mm	.355 in./9.0 mm	10.8 GHP	18.0 lbs.
TX1510G8	4.0 GPM	3,000 PSI	3400 RPM	.591 in./15 mm	.394 in./10 mm	12.3 GHP	18.0 lbs.

**63 Series - 1" Hollow Shaft - Gasoline - Specifications:**

Hollow Shaft.....1 in.  
Pump Dimensions.....8.4"x8.3"x4.8"  
Inlet Port Thread.....1/2" NPT-F  
Discharge Port Thread.....3/8" NPT-F



TX1508G8UIA

63 SERIES - 1" HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO GASOLINE ENGINES (SAE J609B) - WITH BUILT-IN TP UNLOADER AND FIXED, DOWNSTREAM INJECTOR							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TX1508G8UIA	3.0 GPM	3,500 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	10.8 GHP	18.2 lbs.
TX1509G8UIA	3.5 GPM	3,500 PSI	3400 RPM	.591 in./15 mm	.355 in./9.0 mm	12.6 GHP	18.2 lbs.
TX1510G8UIA	4.0 GPM	3,500 PSI	3400 RPM	.591 in./15 mm	.394 in./10 mm	13.0 GHP	18.2 lbs.



# EZ SERIES 44

UP TO 5.5 GPM



EZ3036SN

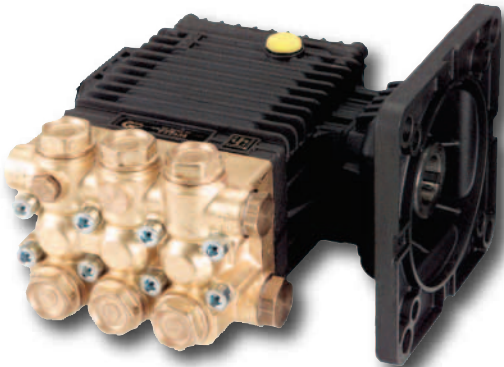
**EZ Series - Features:**

- Triplex plunger pumps
- Forged brass manifold with an exclusive lifetime warranty
- Solid ceramic plunger design
- Die-cast, anodized aluminum oil bath crankcase
- Premium roller bearings
- Flex coupling and bell housing available for direct drive
- Unitized stainless steel inlet and discharge valves

**EZ Series - Solid Shaft - Specifications:**

Max. Inlet Pressure ..... 125 PSI  
 Max. Fluid Temperature ..... 165° F  
 Inlet Port Thread ..... 1/2"-14 BSP-F  
 Discharge Port Thread ..... 3/8"-19 BSP-F  
 Shaft Diameter ..... 9/16 in./24 mm  
 Pump Dimensions ..... 8.8"x8.8"x6.3"  
 Crankcase Oil Capacity ..... 14.0 oz.  
 Use GP Series 100 Oil (see page 60)  
 Product Group ..... W

EZ SERIES 44 - 24 MM SOLID SHAFT							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
EZ2536S	3.6 GPM	2,500 PSI	1750 RPM	.708 in./18 mm	.433 in./11 mm	6.2 EBHP	18.0 lbs.
EZ2542S	4.2 GPM	2,500 PSI	1750 RPM	.708 in./18 mm	.512 in./13 mm	7.2 EBHP	18.0 lbs.
EZ3040S	4.0 GPM	3,000 PSI	3400 RPM	.591 in./15 mm	.374 in./9.5 mm	8.2 EBHP	18.0 lbs.
EZ2545S	4.6 GPM	2,500 PSI	3400 RPM	.591 in./15 mm	.433 in./11 mm	7.9 EBHP	18.0 lbs.
EZ2555S	5.5 GPM	2,500 PSI	3400 RPM	.591 in./15 mm	.512 in./13 mm	9.4 EBHP	18.0 lbs.
<b>Premium Roller Bearings</b>							
EZ3042S	4.2 GPM	3,000 PSI	1750 RPM	.708 in./18 mm	.512 in./13 mm	8.6 EBHP	18.0 lbs.
<b>Pump Includes Built-in Unloader and Downstream Injector</b>							
EZ2530SUI	3.0 GPM	2,500 PSI	1750 RPM	.591 in./15 mm	.512 in./13 mm	5.1 EBHP	19.0 lbs.
<b>Nickel-Plated (pictured above)</b>							
EZ3036SN	3.6 GPM	3,000 PSI	1750 RPM	.708 in./18 mm	.433 in./11 mm	7.4 EBHP	18.0 lbs.
EZ2542SN	4.2 GPM	2,650 PSI	1750 RPM	.708 in./18 mm	.512 in./13 mm	7.6 EBHP	18.0 lbs.



EZ2536E

**EZ Series - Hollow Shaft - Electric - Specifications:**

Hollow Shaft ..... 1-1/8 (1.125) in.  
 Pump Dimensions ..... 8.8"x8.8"x6.3"

EZ SERIES 44 - 1-1/8 (1.125)" HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO ELECTRIC MOTORS (NEMA-184TC)							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
EZ2536E	3.6 GPM	2,500 PSI	1750 RPM	.708 in./18 mm	.433 in./11 mm	6.2 EBHP	18.5 lbs.
EZ2542E	4.2 GPM	2,500 PSI	1750 RPM	.708 in./18 mm	.512 in./13 mm	7.2 EBHP	18.5 lbs.
EZ2545E	4.6 GPM	2,500 PSI	3400 RPM	.591 in./15 mm	.433 in./11 mm	7.9 EBHP	18.5 lbs.
EZ2555E	5.5 GPM	2,500 PSI	3400 RPM	.591 in./15 mm	.512 in./13 mm	9.4 EBHP	18.5 lbs.
EZ4035E34	3.5 GPM	4,000 PSI	3400 RPM	.512 in./13 mm	.433 in./11 mm	9.6 EBHP	18.5 lbs.
EZ4040E34	4.0 GPM	4,000 PSI	3400 RPM	.512 in./13 mm	.512 in./13 mm	11.0 EBHP	18.5 lbs.
<b>Pump Includes Unloader and Downstream Injector</b>							
EZ2536EUI	3.6 GPM	2,500 PSI	1750 RPM	.708 in./18 mm	.433 in./11 mm	6.2 EBHP	18.5 lbs.

**EZ Series - Hollow Shaft - Gasoline - Specifications:**

Hollow Shaft.....1 in.  
Pump Dimensions.....8.8"x9.4"x6.5"



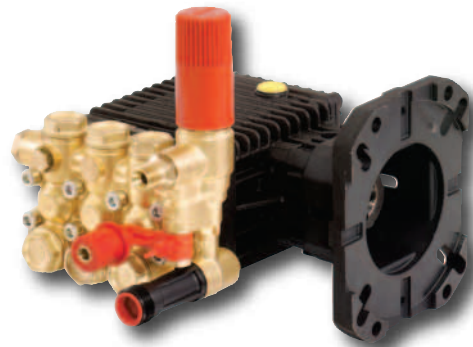
EZ3040G

**EZ SERIES - 1" HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO GASOLINE ENGINES (SAE J609B)**

MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
EZ3030G34	3.0 GPM	3,200 PSI	3400 RPM	.591 in./15 mm	.299 in./7.6 mm	9.9 GHP	19.1 lbs.
EZ3035G	3.5 GPM	3,000 PSI	3400 RPM	.591 in./15 mm	.335 in./8.5 mm	10.8 GHP	19.1 lbs.
EZ3040G	4.0 GPM	3,000 PSI	3400 RPM	.591 in./15 mm	.374 in./9.5 mm	12.3 GHP	19.1 lbs.
EZ3045G	4.6 GPM	3,000 PSI	3400 RPM	.591 in./15 mm	.433 in./11 mm	14.2 GHP	19.1 lbs.
EZ4030G34	3.0 GPM	4,000 PSI	3400 RPM	.512 in./13 mm	.374 in./9.5 mm	12.3 GHP	20.0 lbs.
EZ4035G34	3.5 GPM	4,000 PSI	3400 RPM	.512 in./13 mm	.433 in./11 mm	14.4 GHP	20.0 lbs.
EZ4040G	4.0 GPM	4,000 PSI	3400 RPM	.512 in./13 mm	.512 in./13 mm	16.4 GHP	20.0 lbs.

**EZ Series - Hollow Shaft - Gasoline - Specifications:**

Hollow Shaft.....1 in.  
Pump Dimensions.....8.8"x9.7"x6.5"



EZ3040GUI

**EZ SERIES - 1" HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO GASOLINE ENGINES (SAE J609B) WITH BUILT-IN TP UNLOADER AND DOWNSTREAM INJECTOR**

MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
EZ3030G34UI	3.0 GPM	3,500 PSI	3400 RPM	.591 in./15 mm	.299 in./7.6 mm	10.8 GHP	19.3 lbs.
EZ3035GUI	3.5 GPM	3,500 PSI	3400 RPM	.591 in./15 mm	.335 in./8.5 mm	12.6 GHP	19.3 lbs.
EZ3040GUI	4.0 GPM	3,500 PSI	3400 RPM	.591 in./15 mm	.374 in./9.5 mm	14.4 GHP	19.3 lbs.

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# PRESSURE CLEANING PUMPS 50 SERIES

## UP TO 4.0 GPM



T991

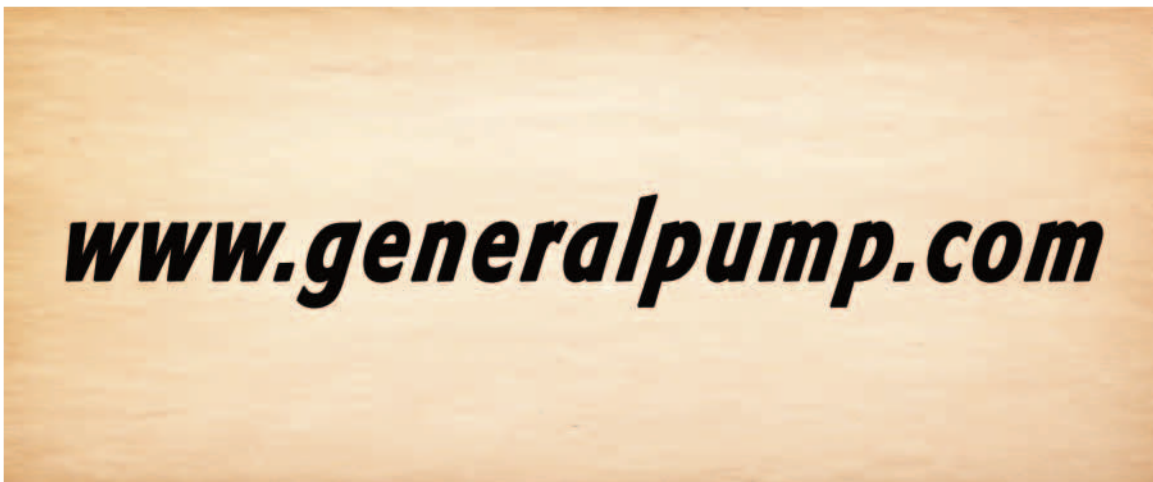
### 50 Series - Features:

- Triplex plunger pumps
- Forged brass manifold with an exclusive lifetime warranty
- Solid ceramic plunger design with continuously lubricated packings
- Die-cast, anodized aluminum oil-bath crankcase
- Standard 24 mm solid shaft for pulley mounting
- Flex coupling and bell housing available for direct drive
- Unitized stainless steel inlet and discharge valves
- Ideal for all general cleaning/washing applications

### 50 Series - Solid Shaft - Specifications:

Max. Inlet Pressure .....125 PSI  
 Max. Fluid Temperature.....165° F  
 Inlet Port Thread.....1/2"-14 BSP-F  
 Discharge Port Thread.....3/8"-19 BSP-F  
 Shaft Diameter ......945 in./24 mm  
 Pump Dimensions .....9.3"x 8.3"x 5.4"  
 Crankcase Oil Capacity.....15.2 oz.  
 Use GP Series 100 Oil (see page 60)  
 Use GP Series 8090 Oil (T9971) (see page 60)  
 Product Group.....W

50 SERIES - 24 MM SOLID SHAFT							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
T991	3.5 GPM	1,500 PSI	1450 RPM	.787 in./20 mm	.394 in./10 mm	3.6 EBHP	19.0 lbs.
	4.0 GPM	1,100 PSI	1750 RPM	.787 in./20 mm	.394 in./10 mm	3.0 EBHP	19.0 lbs.
T9951	3.5 GPM	1,500 PSI	1750 RPM	.787 in./20 mm	.335 in./8.5 mm	3.6 EBHP	19.0 lbs.
T9971	4.0 GPM	2,000 PSI	1750 RPM	.787 in./20 mm	.394 in./10 mm	5.5 EBHP	19.0 lbs.
TT9351	3.5 GPM	2,500 PSI	3400 RPM	.591 in./15 mm	.335 in./8.5 mm	6.0 EBHP	19.0 lbs.
<b>T991 With Teflon Packings:</b>							
100648	3.5 GPM	1,500 PSI	1450 RPM	.787 in./20 mm	.394 in./10 mm	3.6 EBHP	19.0 lbs.
<b>T9951 With Teflon Packings:</b>							
100656	3.5 GPM	1,500 PSI	1750 RPM	.787 in./20 mm	.335 in./8.5 mm	3.6 EBHP	19.0 lbs.
<b>Pump With Gearbox</b>							
T991GR	3.5 GPM	1,500 PSI	3400 RPM	.787 in./20 mm	.394 in./10 mm	5.4 EBHP	24.0 lbs.
T9971GR	3.5 GPM	1,500 PSI	3400 RPM	.787 in./20 mm	.394 in./10 mm	7.2 EBHP	24.0 lbs.



**47 Series - Brass Manifold - Features:**

- Forged brass manifold with an exclusive lifetime warranty
- Large capacity, die-cast aluminum oil-bath crankcase
- Over-sized connecting rods for maximum life
- Heavy-duty tapered roller bearings
- Solid ceramic plungers with continuously lubricated packings
- Unitized SS inlet and discharge valves

**47 Series - Brass Manifold - Specifications:**

Max. Inlet Pressure .....125 PSI  
 Max. Fluid Temperature.....165° F  
 Inlet Port Thread.....1/2"-14 BSP-F  
 Discharge Port Thread.....3/8"-19 BSP-F  
 Shaft Diameter .....945 in./24 mm  
 Pump Dimensions.....12.2"x9.2"x6.9"(33.8 oz. versions)  
 Pump Dimensions.....12.6"x9.2"x6.9"(40.6 oz. versions)  
 Use GP Series 100 Oil (see page 60)  
 Product Group .....X



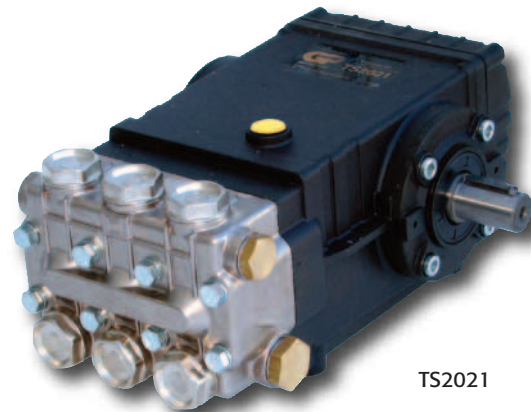
TSS1511

**47 SERIES - 24 MM SOLID SHAFT - BRASS MANIFOLD**

MODEL	GPM	PSI	RPM	BORE	STROKE	HP	OIL CAPACITY	SHP WGHT
T921	5.0 GPM	1,700 PSI	1050 RPM	.866 in./22 mm	.630 in./16 mm	5.8 EBHP	33.8 oz.	32.0 lbs.
T1621	5.0 GPM	2,500 PSI	1050 RPM	.866 in./22 mm	.630 in./16 mm	8.6 EBHP	40.6 oz.	32.0 lbs.
TSS1021	4.5 GPM	3,500 PSI	1125 RPM	.787 in./20 mm	.630 in./16 mm	9.2 EBHP	40.6 oz.	32.0 lbs.
	5.6 GPM	1,700 PSI	1450 RPM	.787 in./20 mm	.630 in./16 mm	6.5 EBHP	40.6 oz.	32.0 lbs.
T1011	4.5 GPM	2,000 PSI	1125 RPM	.787 in./20 mm	.630 in./16 mm	6.2 EBHP	33.8 oz.	32.0 lbs.
	5.6 GPM	1,500 PSI	1450 RPM	.787 in./20 mm	.630 in./16 mm	5.8 EBHP	33.8 oz.	32.0 lbs.
T1321	5.5 GPM	2,100 PSI	1150 RPM	.866 in./22 mm	.630 in./16 mm	7.9 EBHP	40.6 oz.	32.0 lbs.
TS1331	3.5 GPM	2,100 PSI	1450 RPM	.787 in./20 mm	.394 in./10 mm	5.0 EBHP	33.8 oz.	32.0 lbs.
	4.0 GPM	2,000 PSI	1750 RPM	.787 in./20 mm	.394 in./10 mm	5.5 EBHP	33.8 oz.	32.0 lbs.
TS1711	3.5 GPM	2,700 PSI	1450 RPM	.787 in./20 mm	.394 in./10 mm	6.5 EBHP	40.6 oz.	32.0 lbs.
TS1011	4.0 GPM	2,000 PSI	1450 RPM	.787 in./20 mm	.472 in./12 mm	5.5 EBHP	33.8 oz.	32.0 lbs.
	4.75 GPM	1,500 PSI	1750 RPM	.787 in./20 mm	.472 in./12 mm	4.9 EBHP	33.8 oz.	32.0 lbs.
TSS1511	4.0 GPM	3,500 PSI	1450 RPM	.787 in./20 mm	.472 in./12 mm	9.6 EBHP	40.6 oz.	32.0 lbs.
TS1321	4.75 GPM	2,100 PSI	1450 RPM	.866 in./22 mm	.472 in./12 mm	6.8 EBHP	40.6 oz.	32.0 lbs.
TS921	4.75 GPM	1,800 PSI	1450 RPM	.866 in./22 mm	.472 in./12 mm	5.9 EBHP	33.8 oz.	32.0 lbs.
TS1811	4.0 GPM	3,500 PSI	1290 RPM	.787 in./20 mm	.551 in./14 mm	9.6 EBHP	40.6 oz.	32.0 lbs.
	4.5 GPM	3,500 PSI	1450 RPM	.787 in./20 mm	.551 in./14 mm	10.8 EBHP	40.6 oz.	32.0 lbs.
	5.0 GPM	3,500 PSI	1610 RPM	.787 in./20 mm	.551 in./14 mm	12.0 EBHP	40.6 oz.	32.0 lbs.

**47 Series - Nickel-Plated Manifold - Specifications:**

Pump dimensions.....12.6"x9.2"x6.9"(40.6 oz. versions)  
 Use GP Series 100 Oil (see page 60)  
 Shaft Diameter .....945 in./24 mm



TS2021

**47 SERIES - 24 MM SOLID SHAFT - NICKEL-PLATED MANIFOLD**

MODEL	GPM	PSI	RPM	BORE	STROKE	HP	OIL CAPACITY	SHP WGHT
TS2021	4.5 GPM	3,500 PSI	1125 RPM	.787 in./20 mm	.630 in./16 mm	10.8 EBHP	40.6 oz.	32.0 lbs.
	5.6 GPM	3,500 PSI	1450 RPM	.787 in./20 mm	.630 in./16 mm	13.4 EBHP	40.6 oz.	32.0 lbs.
TS2011	4.0 GPM	3,500 PSI	1450 RPM	.787 in./20 mm	.472 in./12 mm	9.6 EBHP	40.6 oz.	32.0 lbs.
	4.75 GPM	2,300 PSI	1750 RPM	.787 in./20 mm	.472 in./12 mm	7.5 EBHP	40.6 oz.	32.0 lbs.
TS1621	4.75 GPM	2,500 PSI	1450 RPM	.866 in./22 mm	.472 in./12 mm	8.1 EBHP	40.6 oz.	32.0 lbs.
T9211	4.2 GPM	3,000 PSI	1750 RPM	.787 in./20 mm	.394 in./10 mm	8.2 EBHP	40.6 oz.	32.0 lbs.
T9281	4.0 GPM	4,000 PSI	1750 RPM	.630 in./16 mm	.630 in./16 mm	11.0 EBHP	40.6 oz.	32.0 lbs.
TS2013	5.5 GPM	3,000 PSI	1750 RPM	.787 in./20 mm	.512 in./13 mm	11.3 EBHP	40.6 oz.	32.0 lbs.

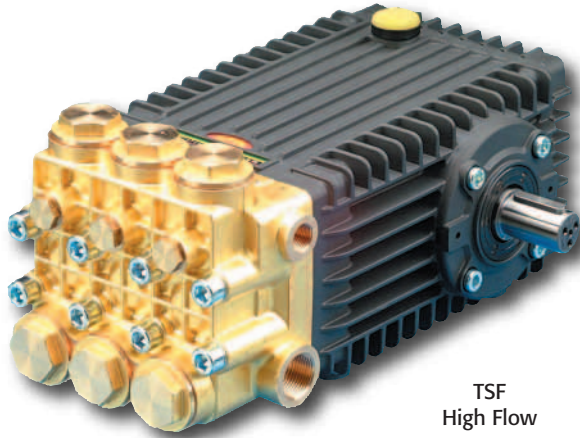
**47 SERIES - 24 MM SOLID SHAFT - NICKEL-PLATED MANIFOLD - CERAMIC-COATED PLUNGERS**

MODEL	GPM	PSI	RPM	BORE	STROKE	HP	OIL CAPACITY	SHP WGHT
T9281	4.0 GPM	4,000 PSI	1750 RPM	.630 in./16 mm	.630 in./16 mm	11.0 EBHP	40.6 oz.	32.0 lbs.



# PRESSURE CLEANING PUMPS 66 SERIES

## UP TO 12.0 GPM



TSF  
High Flow

### 66 Series - TSF - Features:

- Oversized roller bearings
- Fully anodized crankcase
- Innovative new seal design extends seal life
- New plunger design improves thermal shock resistance
- New valve cap improves hydrostatic performance

### 66 Series - TSF - Specifications:

Max. Inlet Pressure ..... 125 PSI  
 Max. Fluid Temperature ..... 165° F  
 Inlet Port Thread ..... 3/4"-14 BSP-F  
 Discharge Port Thread ..... 3/8"-19 BSP-F  
 Shaft Diameter ..... 9/16 in./24 mm  
 Pump Dimensions ..... 14.94"x9.78"x6.99"  
 Crankcase Oil Capacity ..... 40.6 oz.  
 Use GP Series 100 Oil (see page 60)  
 Product Group ..... X

### 66 SERIES - TSF - HIGH FLOW - 24 MM SOLID SHAFT

MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TSF2019	6.3 GPM	4,350 PSI	1450 RPM	.787 in./20 mm	.748 in./19 mm	18.7 EBHP	40.7 lbs.
	7.6 GPM	4,000 PSI	1750 RPM	.787 in./20 mm	.748 in./19 mm	20.8 EBHP	40.7 lbs.
TSF2021	7.0 GPM	3,600 PSI	1450 RPM	.787 in./20 mm	.826 in./21 mm	17.3 EBHP	40.7 lbs.
	8.5 GPM	3,600 PSI	1750 RPM	.787 in./20 mm	.826 in./21 mm	21.0 EBHP	40.7 lbs.
TSF2219	7.7 GPM	3,000 PSI	1450 RPM	.866 in./22 mm	.748 in./19 mm	15.8 EBHP	40.7 lbs.
	9.3 GPM	3,000 PSI	1750 RPM	.866 in./22 mm	.748 in./19 mm	19.1 EBHP	40.7 lbs.
TSF2221	8.5 GPM	3,000 PSI	1450 RPM	.866 in./22 mm	.826 in./21 mm	17.5 EBHP	40.7 lbs.
	10.2 GPM	3,000 PSI	1750 RPM	.866 in./22 mm	.826 in./21 mm	21.0 EBHP	40.7 lbs.
TSF2421	10.0 GPM	3,000 PSI	1450 RPM	.945 in./24 mm	.826 in./21 mm	17.1 EBHP	40.7 lbs.
	12.0 GPM	2,500 PSI	1750 RPM	.945 in./24 mm	.826 in./21 mm	20.5 EBHP	40.7 lbs.
TSF2819	12.1 GPM	2,200 PSI	1450 RPM	1.102 in./28 mm	.748 in./19 mm	18.2 EBHP	40.7 lbs.
TSF1819	6.3 GPM	4,350 PSI	1750 RPM	.709 in./18 mm	.748 in./19 mm	18.8 EBHP	40.7 lbs.
<b>DUAL SHAFT</b>							
TSF2019DS	7.6 GPM	4,000 PSI	1750 RPM	.787 in./20 mm	.748 in./19 mm	18.7 EBHP	40.7 lbs.



TSP  
High Pressure

### 66 Series - TSP - Features:

- Oversized roller bearings
- Compact, high pressure
- Fully anodized crankcase
- Innovative new seal design extends seal life
- New plunger design improves thermal shock resistance
- New valve cap improves hydrostatic performance

### 66 Series - TSP - Specifications:

Max. Inlet Pressure ..... 125 PSI  
 Max. Fluid Temperature ..... 165° F  
 Inlet Port Thread ..... 1/2"-14 BSP-F  
 Discharge Port Thread ..... 3/8"-19 BSP-F  
 Shaft Diameter ..... 9/16 in./24 mm  
 Pump Dimensions ..... 13.84"x9.8"x7.7"  
 Minimum Inlet Pressure ..... 30 PSI  
 Crankcase Oil Capacity ..... 40.6 oz.  
 Use GP Series 100 Oil (see page 60)  
 Product Group ..... X

### 66 SERIES - TSP - HIGH PRESSURE - 24 MM SOLID SHAFT

MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TSP1619	3.6 GPM	7,250 PSI	1450 RPM	.629 in./16 mm	.748 in./19 mm	17.8 EBHP	51.8 lbs.
	4.3 GPM	5,800 PSI	1750 RPM	.629 in./16 mm	.748 in./19 mm	17.0 EBHP	51.8 lbs.
TSP1621	4.3 GPM	6,525 PSI	1450 RPM	.629 in./16 mm	.826 in./21 mm	19.2 EBHP	51.8 lbs.
TSP1819	5.0 GPM	5,100 PSI	1450 RPM	.709 in./18 mm	.748 in./19 mm	17.5 EBHP	51.8 lbs.
TSP1821	5.5 GPM	5,100 PSI	1450 RPM	.709 in./18 mm	.826 in./21 mm	19.2 EBHP	51.8 lbs.
<b>NICKEL-PLATED</b>							
TSP1621N	4.3 GPM	7,250 PSI	1450 RPM	.629 in./16 mm	.826 in./21 mm	21.4 EBHP	51.8 lbs.

**69 Series - Solid Shaft - Features:**

- Triplex plunger pump, solid shaft
- The industry's choice for high flow applications
- Forged brass manifold with an exclusive lifetime warranty (TS1531 & TS1041)
- T41 has an aluminum manifold
- Large-capacity, die-cast anodized aluminum, oil-bath crankcase
- Over-sized connecting rods for maximum life
- Heavy-duty tapered roller bearings
- Unitized SS inlet and discharge valves
- Solid ceramic plungers with continuously lubricated packings



T41

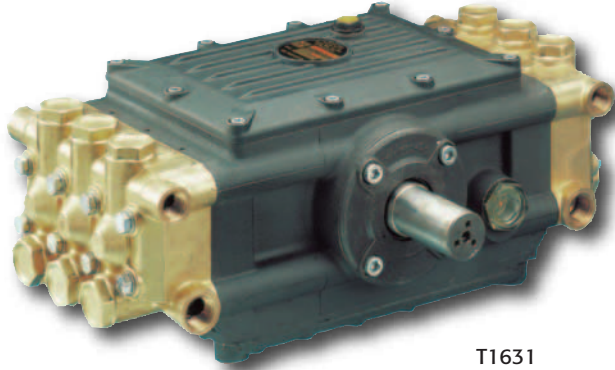
**69 Series - Solid Shaft - Specifications:**

Max. Inlet Pressure .....125 PSI  
 Max. Fluid Temperature.....165° F  
 Inlet Port Thread .....3/4"-14 BSP-F  
 Discharge Port Thread.....3/8"-19 BSP-F  
 Shaft Diameter.....1.378 in./35 mm  
 Pump Dimensions.....12.9"x11.9"x7.3"  
 Crankcase Oil Capacity.....50.7 oz.  
 Use GP Series 8090 Oil (see page 60)  
 Product Group .....Y

69 SERIES - 35 MM SOLID SHAFT							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
T41	12.0 GPM	900 PSI	650 RPM	1.417 in./36 mm	.945 in./24 mm	7.4 EBHP	37.0 lbs.
TS1531	7.92 GPM	2,175 PSI	1450 RPM	.787 in./20 mm	.866 in./22 mm	11.8 EBHP	46.0 lbs.
TS1041	8.0 GPM	1,600 PSI	1450 RPM	.787 in./20 mm	.866 in./22 mm	8.8 EBHP	46.0 lbs.

***New!***  
***Clear Bowl***  
***Filters***  
***See Page 93***





T1631

**48 Series - Solid Shaft - Features:**

- Sixplex plunger pump, solid shaft
- Forged brass manifold with an exclusive lifetime warranty
- Dual manifolds utilizing a common crankcase for efficient performance
- Perfect for high flow applications
- Unitized Stainless Steel inlet and discharge valves
- Solid ceramic plungers with continuously lubricated packings

**48 Series - Solid Shaft - Specifications:**

Max. Inlet Pressure .....	125 PSI
Max. Fluid Temperature.....	165° F
Inlet Port Thread.....	Dual 3/4"-14 BSP-F
Discharge Port Thread .....	Dual 3/8"-19 BSP-F
Shaft Diameter .....	1.26 in./32 mm
Pump Dimensions.....	16.1"x11.2"x7.9"
Crankcase Oil Capacity.....	54.0 oz.
	Use GP Series 100 Oil (see page 60)
Product Group .....	Y

**48 SERIES - SOLID SHAFT - 32 MM SOLID SHAFT**

MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
T1631	10.0 GPM	2,500 PSI	1080 RPM	.866 in./22 mm	.630 in./16 mm	15.1 EBHP	61.0 lbs.
T2031	9.0 GPM	3,000 PSI	1140 RPM	.787 in./20 mm	.630 in./16 mm	18.5 EBHP	61.0 lbs.
	11.0 GPM	2,000 PSI	1450 RPM	.787 in./20 mm	.630 in./16 mm	17.1 EBHP	61.0 lbs.

**NEW!**

## PUMPS MADE READY

**PMREZ4040G**

- 1" Hollow shaft with gas flange
- Quick coupler and plug included
- Maximum flow: 4.0 GPM
- 4,000 PSI at 3400 RPM



**PMRTSS1511**

- 24 mm solid shaft
- Quick coupler and plug included
- Maximum flow: 4.0 GPM
- 3,500 PSI at 1450 RPM



**PMREP1313G**

- 1" Hollow shaft with gas flange
- Quick coupler and plug included
- Maximum flow: 4.0 GPM
- 4,000 PSI at 3400 RPM



**PMRET1507G**

- 3/4" Hollow shaft with gas flange
- Quick coupler and plug included
- Maximum flow: 3.3 GPM
- 2,610 PSI at 3400 RPM



# UP TO 13.2 GPM AGRICULTURE SERIES

**AT0033 - Splined Shaft Features:**

- Duplex plunger pump, splined shaft
- Ideal for agricultural applications
- Aluminum manifold
- Solid ceramic plungers with continuously lubricated packings

**AT0033 - Splined Shaft - Specifications:**

Max. Inlet Pressure ..... 125 PSI  
 Max. Fluid Temperature ..... 165° F  
 Inlet Port Thread ..... 3/4"-14 BSP-F  
 Discharge Port Thread ..... 3/8"-19 BSP-F  
 Shaft Diameter ..... 1.375 in./34.9 mm ASAE  
 Pump Dimensions ..... 12"x9"x7.3"  
 Crankcase Oil Capacity ..... 22.0 oz.  
 Use GP Series 100 Oil (see page 60)  
 Product Group ..... Y



AT0033

(All splined shaft pumps require additional components to attach to PTO systems).

AT SERIES AT0033 - 1-3/8" SPLINED SHAFT							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
AT0033	7.93 GPM	435 PSI	650 RPM	1.417 in./36 mm	.945 in./240 mm	2.4 EBHP	28.0 lbs.

**AT0055 - Features:**

- Triplex plunger pump, splined shaft
- Aluminum or forged brass manifold
- Large-capacity, die-cast anodized aluminum, oil-bath crankcase
- Over-sized connecting rods for maximum life
- Heavy-duty tapered roller bearing
- Unitized SS inlet and discharge valves
- Solid ceramic plungers with continuously lubricated packings

**AT0055 - Specifications:**

Shaft Diameter ..... 1.375 in./34.9 mm ASAE  
 Pump Dimensions ..... 13"x14"x7.5"  
 Crankcase Oil Capacity ..... 51.0 oz.  
 Use GP Series 100 Oil (see page 60)  
 Product Group ..... X



AT0055

AT SERIES AT0055 - 1-3/8" SPLINED AND 35 MM SOLID SHAFT							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
<b>Single PTO Shaft, Right Side</b>							
AT0055	13.22 GPM	725 PSI	650 RPM	1.417 in./36 mm	.945 in./24 mm	6.6 EBHP	36.0 lbs.
<b>Dual Shaft, Splined PTO on Right, Solid Shaft on Left Side:</b>							
AT0055DS	13.22 GPM	725 PSI	650 RPM	1.417 in./36 mm	.945 in./24 mm	6.6 EBHP	36.0 lbs.
<b>Dual Shaft, Solid Shaft on Right, Splined PTO on Left Side:</b>							
AT0055DSL	13.22 GPM	725 PSI	650 RPM	1.417 in./36 mm	.945 in./24 mm	6.6 EBHP	36.0 lbs.



# AGRICULTURE SERIES UP TO 47.6 GPM



AB90

**AB Series Features:**

- Triplex plunger pump, splined shaft
- Specifically designed for the agriculture market
- New optimized inlet and outlet valves
- Solid ceramic plungers
- New dual lip oil seal

**AB Series Specifications:**

Max. Inlet Pressure .....45 PSI  
 Max. Fluid Temperature .....165° F  
 Inlet Port Thread .....1-1/2" BSP  
 Discharge Port Thread .....1" BSP  
 Shaft Diameter .....1.375 in./34.9 mm ASAE  
 Pump Dimensions .....17.48"x17"x8.29"  
 Crankcase Oil Capacity .....77.8 oz.  
 Use GP Series 100 Oil (see page 60)  
 Product Group .....X

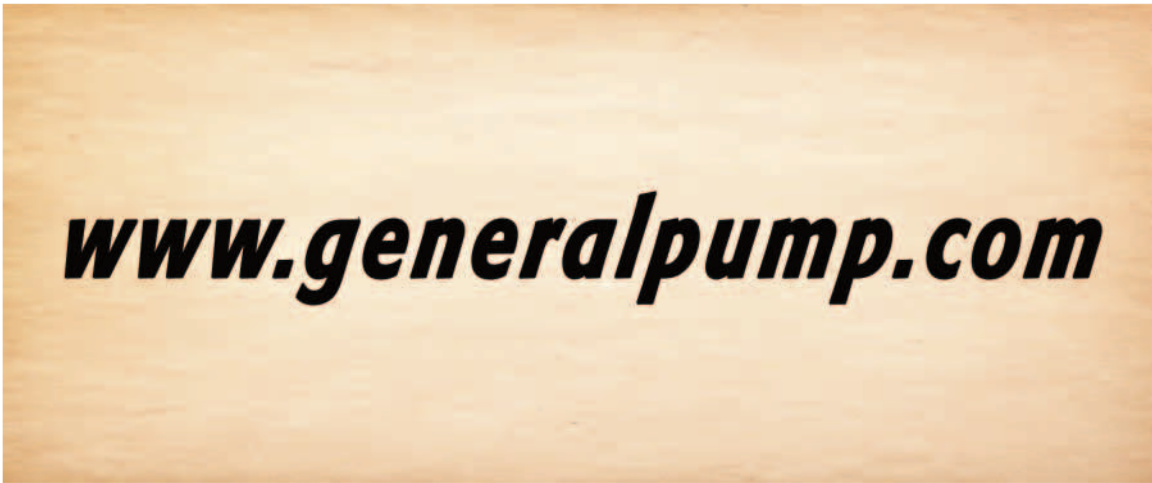
**AB SERIES - 1-3/8" DUAL SPLINED SHAFT**

MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
NEW AB90DP	23.8 GPM	870 PSI	650 RPM	1.42 in./36 mm	1.78 in./45 mm	14.2 EBHP	90.4 lbs.
AB100DP	26.4 GPM	870 PSI	550 RPM	1.57 in./40 mm	1.78 in./45 mm	15.7 EBHP	90.4 lbs.
AB120DP	31.7 GPM	870 PSI	550 RPM	1.78 in./45 mm	1.78 in./45 mm	18.7 EBHP	90.4 lbs.
AB180DP	47.6 GPM	870 PSI	650 RPM	1.97 in./50 mm	1.78 in./45 mm	28.4 EBHP	90.4 lbs.

**AB SERIES - SOLID SHAFT (LEFT) AND 1-3/8" SPLINED SHAFT (RIGHT)**

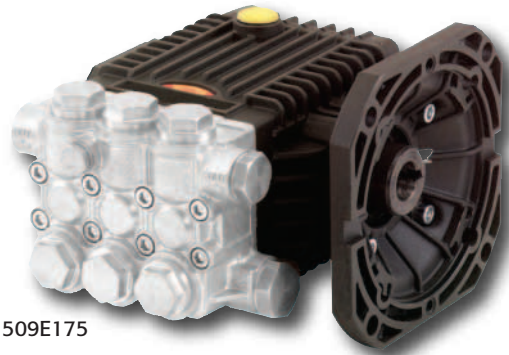
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
NEW AB90PS*	23.8 GPM	870 PSI	650 RPM	1.42 in./36 mm	1.78 in./45 mm	14.2 EBHP	90.4 lbs.
AB100PS*	26.4 GPM	870 PSI	550 RPM	1.57 in./40 mm	1.78 in./45 mm	15.7 GP	90.4 lbs.
AB120PS*	31.7 GPM	870 PSI	550 RPM	1.78 in./45 mm	1.78 in./45 mm	18.7 HP	90.4 lbs.
AB180PS*	47.6 GPM	870 PSI	650 RPM	1.97 in./50 mm	1.78 in./45 mm	28.4 EBHP	90.4 lbs.

\*Also available with solid shaft (right) and PTO (left), add "L" to end of part number (ex. AB100PSL)



**HTC Series 60HT - Features:**

- Triplex plunger pump
- Features patented "high tech" packings
- Patented inlet/outlet valve cage
- Nickel-plated inlet/outlet valve plugs
- Nickel-plated forged brass manifold with exclusive lifetime warranty
- Specially designed to handle rigorous duty cycles, high temperatures and chemicals
- Ideal for use in carpet cleaning and other high pressure cleaning applications



HTC1509E175

**HTC Series 60HT - Specifications:**

Max. Inlet Pressure .....125 PSI  
 Max. Fluid Temperature.....185° F  
 Inlet Port Thread.....1/2"-14 BSP-F  
 Discharge Port Thread.....3/8"-19 BSP-F  
 Pump Dimensions.....7.8"x7.3"x5.5"  
 Crankcase Oil Capacity.....11.8 oz.  
 Use GP Series 100 Oil (see page 60)  
 Product Group .....X



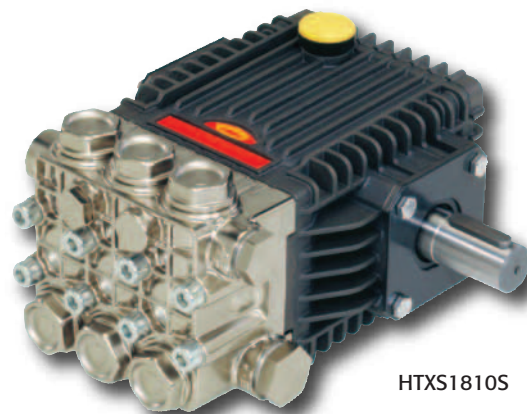
HTC1506S17

HTC SERIES 60HT - (.945 IN.) 24 MM SOLID SHAFT							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
HTC1506S17	1.35 GPM	2,200 PSI	1750 RPM	.591 in./15 mm	.236 in./6 mm	2.0 HP	16.0 lbs.
HTC1509S17	2.1 GPM	2,200 PSI	1750 RPM	.591 in./15 mm	.370 in./9.4 mm	3.0 HP	16.0 lbs.
HTC1511S17	2.6 GPM	2,200 PSI	1750 RPM	.591 in./15 mm	.453 in./11.5 mm	4.0 HP	16.0 lbs.

HTC SERIES 60HT - 5/8 (.625 IN.) HOLLOW SHAFT							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
HTC1509E175	2.1 GPM	2,200 PSI	1750 RPM	.591 in./15 mm	.370 in./9.4 mm	3.5 HP	16.0 lbs.
HTC1505E345	2.1 GPM	2,200 PSI	3400 RPM	.591 in./15 mm	.197 in./5 mm	3.5 HP	16.0 lbs.

**HTXS Series 63HT - Features:**

- Triplex plunger pump
- Features patented "high tech" packings
- Patented inlet/outlet valve cage
- Nickel-plated inlet/outlet valve plugs
- Nickel-plated forged brass manifold with exclusive lifetime warranty
- Specially designed to handle rigorous duty cycles, high temperatures and chemicals
- Ideal for use in carpet cleaning and other high pressure cleaning applications



HTXS1810S

**HTXS Series 63HT - Specifications:**

Max. Inlet Pressure .....125 PSI  
 Max. Fluid Temperature.....185° F  
 Inlet Port Thread.....1/2"-14 BSP-F  
 Discharge Port Thread.....3/8"-19 BSP-F  
 Shaft Diameter ......945 in./24 mm  
 Pump Dimensions.....8.4"x8.3"x4.8"  
 Dimensions With Rails.....8.4"x8.3"x5.6"  
 Crankcase Oil Capacity.....14.0 oz.  
 Use GP Series 100 Oil (see page 60)  
 Product Group .....X

HTXS SERIES 63HT - (.945 IN.) 24 MM SOLID SHAFT							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
HTXS1813S	3.5 GPM	2,500 PSI	1450 RPM	.709 in./18 mm	.512 in./13 mm	6.0 HP	18.0 lbs.
HTXS1810S	3.1 GPM	2,000 PSI	1750 RPM	.709 in./18 mm	.394 in./10 mm	4.2 HP	18.0 lbs.
HTXS1812S	3.8 GPM	2,000 PSI	1750 RPM	.709 in./18 mm	.472 in./12 mm	5.2 HP	18.0 lbs.



# EMPEROR SERIES UP TO 12.0 GPM



HTS2210S

**HTS Series 47HT - Features:**

- Triplex plunger pump
- Features patented "high tech" packings
- Patented inlet/outlet valve cage
- Nickel-plated inlet/outlet valve plugs
- Nickel-plated forged brass manifold with exclusive lifetime warranty
- Specially designed to handle rigorous duty cycles, high temperatures and chemicals
- Ideal for use in carpet cleaning and other high pressure cleaning applications

**HTS Series 47HT - Specifications:**

Max. Inlet Pressure ..... 125 PSI  
 Max. Fluid Temperature ..... 185° F  
 Inlet Port Thread ..... 1/2"-14 BSP-F  
 Discharge Port Thread ..... 3/8"-19 BSP-F  
 Shaft Diameter ..... 945 in./24 mm  
 Pump Dimensions ..... 12.2"x9.2"x9.9"  
 Dimensions With Rails ..... 12.4"x10"x6.9"  
 Crankcase Oil Capacity ..... 40.6 oz.  
 Use GP Series 100 Oil (see page 60)  
 Product Group ..... X

**HTS SERIES 47HT - 22 MM SOLID SHAFT**

MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
HTS2215S	4.0 GPM	2,300 PSI	950 RPM	.866 in./22 mm	.591 in./15 mm	6.3 HP	32.0 lbs.
	5.0 GPM	2,300 PSI	1200 RPM	.866 in./22 mm	.591 in./15 mm	7.5 HP	32.0 lbs.
HTS2210S	4.0 GPM	2,300 PSI	1450 RPM	.866 in./22 mm	.394 in./10 mm	6.3 HP	32.0 lbs.
HTS2212S	4.75 GPM	2,300 PSI	1450 RPM	.866 in./22 mm	.472 in./12 mm	7.5 HP	32.0 lbs.
HTS2016S	5.6 GPM	3,000 PSI	1450 RPM	.787 in./20 mm	.630 in./16 mm	11.5 HP	32.0 lbs.



HTF2018S

**HTF Series 66HT - Features:**

- Triplex plunger pump
- Patented inlet/outlet valve cage
- Nickel-plated inlet/outlet valve plugs
- Nickel-plated forged brass manifold with exclusive lifetime warranty
- Designed for use in prep units, conveyor and multiple gun applications
- Ideal for use in carpet cleaning and for use in industrial plant systems where hot water is required

**HTF Series 66HT - Specifications:**

Max. Inlet Pressure ..... 125 PSI  
 Max. Fluid Temperature ..... 185° F  
 Inlet Port Thread ..... 3/4"-14 BSP-F  
 Discharge Port Thread ..... 3/8"-19 BSP-F  
 Shaft Diameter ..... 945 in./24 mm  
 Pump Dimensions ..... 13.27"x9.6"x6.23"  
 Dimensions With Rails ..... 13.4"x9.8"x7.5"  
 Crankcase Oil Capacity ..... 40.6 oz.  
 Use GP Series 100 Oil (see page 60)  
 Product Group ..... X

**HTF SERIES 66HT - 24 MM SOLID SHAFT**

MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
HTF2018S	7.5 GPM	3,600 PSI	1750 RPM	.787 in./20 mm	.748 in./18 mm	18.5 HP	41.0 lbs.
HTF2221S	10.2 GPM	3,000 PSI	1750 RPM	.866 in./22 mm	.826 in./21 mm	21.0 HP	41.0 lbs.
HTF2421S	10.0 GPM	3,000 PSI	1450 RPM	.945 in./24 mm	.826 in./21 mm	20.5 HP	41.0 lbs.
	12.0 GPM	2,500 PSI	1750 RPM	.945 in./24 mm	.826 in./21 mm	20.5 HP	41.0 lbs.

**PEHT Series 59HT - Features:**

- Triplex plunger pump
- Includes all Emperor features
- Forged Stainless Steel manifold (AISI420B)
- Nickel-plated crankcase

**PEHT Series - Specifications:**

Max. Inlet Pressure .....125 PSI  
 Max. Fluid Temperature.....185° F  
 Inlet Port Thread.....1/2"-11 BSP-F  
 Discharge Port Thread.....3/8"-19 BSP-F  
 Shaft Diameter .....945 in./24 mm  
 Pump Dimensions .....10.4"x8.8"x5.4"  
 Crankcase Oil Capacity .....22 oz.  
 Use GP Series 100 Oil (see page 60)  
 Product Group .....X

**PLATINUM  
SERIES**



PEHT2010S

**PEHT SERIES 59HT - 24 MM SOLID SHAFT**

MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
PEHT2010S	4.00 GPM	3,000 PSI	1750 RPM	1.417 in./36 mm	.590 in./10 mm	8.2 EBHP	21.0 lbs.
	3.43 GPM	3,000 PSI	1450 RPM	.787 in./20 mm	.590 in./10 mm	7.0 EBHP	21.0 lbs.
PEHT2012S	4.76 GPM	3,000 PSI	1750 RPM	.787 in./20 mm	.472 in./12 mm	9.8 EBHP	21.0 lbs.
	3.96 GPM	3,000 PSI	1450 RPM	.787 in./20 mm	.472 in./12 mm	8.1 EBHP	21.0 lbs.
PEHT2213S	2.64 GPM	3,000 PSI	950 RPM	.787 in./20 mm	.472 in./12 mm	5.4 EBHP	21.0 lbs.
	5.55 GPM	3,000 PSI	1450 RPM	.688 in./22 mm	.512 in./13 mm	11.4 EBHP	21.0 lbs.
PEHT2214S	3.43 GPM	3,000 PSI	950 RPM	.688 in./22 mm	.512 in./13 mm	7.0 EBHP	21.0 lbs.
	4.00 GPM	3,000 PSI	950 RPM	.688 in./22 mm	.551 in./14 mm	5.2 EBHP	21.0 lbs.

**HTCK Series 70HT - Features:**

- Triplex plunger pump
- Includes all Emperor features
- Designed for rollover carwash systems
- Ideal for use in carpet cleaning and other industrial plant systems where hot water is required

**HTCK Series 70HT - Specifications:**

Max. Inlet Pressure .....125 PSI  
 Max. Fluid Temperature.....185° F  
 Inlet Port Thread .....1" NPT-F  
 Discharge Port Thread.....1/2" NPT-F  
 Shaft Diameter.....1.181 in./30 mm  
 Pump Dimensions.....15.3"x13.4"x7.7"  
 Crankcase Oil Capacity.....64.2 oz.  
 Use GP Series 220 Oil (see page 60)  
 Product Group .....X



HTCK3623S

**HTCK SERIES 70HT - 30 MM SOLID SHAFT**

MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
HTCK3623S	18.0 GPM	1,500 PSI	1000 RPM	1.4 in./36 mm	.9 in./23 mm	18.5 HP	79.6 lbs.
	21.0 GPM	1,500 PSI	1150 RPM	1.4 in./36 mm	.9 in./23 mm	22.0 HP	79.6 lbs.
	25.0 GPM	1,300 PSI	1350 RPM	1.4 in./36 mm	.9 in./23 mm	25.6 HP	79.6 lbs.

\*For additional accessories see page 27

**HTCK Series 71HT - Features:**

- Triplex plunger pump
- Includes all Emperor features
- Designed for touchless carwash systems, and multiple gun applications
- Ideal for use in carpet cleaning and other industrial plant systems where hot water is required

**HTCK Series 71HT - Specifications:**

Max. Inlet Pressure .....125 PSI  
 Max. Fluid Temperature.....185° F  
 Inlet Port Thread.....1-1/2" NPT-F  
 Discharge Port Thread.....1" NPT-F  
 Shaft Diameter .....1.575 in./40 mm  
 Pump Dimensions.....20.7"x14.5"x9.9"  
 Crankcase Oil Capacity .....124.4 oz.  
 Use GP Series 220 Oil (see page 60)  
 Product Group .....X

**Designed as a direct replacement  
for Cat's 3535 with the advantage  
of GP's Emperor HT technology!**



HTCK4050S

**HTCK SERIES 71HT - 40 MM SOLID SHAFT**

MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
HTCK4050S	40.0 GPM	1,500 PSI	800 RPM	1.6 in./40 mm	1.9 in./50 mm	41.1 HP	157.0 lbs.
	45.0 GPM	1,500 PSI	900 RPM	1.6 in./40 mm	1.9 in./50 mm	46.2 HP	157.0 lbs.

\*For additional accessories see page 27



# VEHICLE & CARPET CLEANING APPLICATIONS

VEHICLE  
CLEANING  
PUMPS



## Self-service wash

- Single or multi-bay applications
- Spot-free rinse application
- Chemical application
- Pre-soak/tire-motor cleaner
- Foam brush
- Reclaim water
- Weep systems

## Automatic wash

- Roll-over automatic
- Spot-free rinse applications
- Pre-soak systems
- Weep systems
- Foam applications

## Tunnel Wash

- Prep Station
- Brush wetting
- Detergent application
- Spot-free rinse applications
- Bay wash-down
- Wax applications

## Mobile vehicle wash

- Spot-free rinse applications

## Carpet cleaning

- Truck mounted cleaning systems

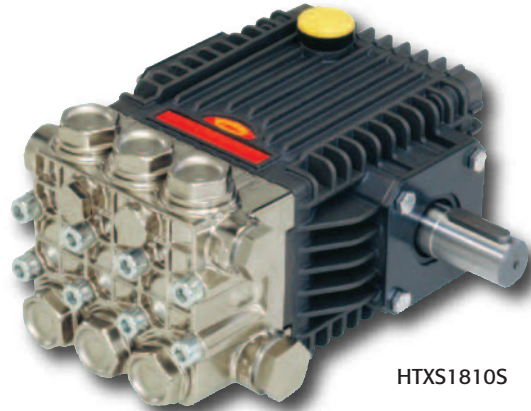


**HTXS Series - 63HT - Features:**

- Triplex plunger pump
- Features patented "high tech" packings
- Patented inlet/outlet valve cage
- Nickel-plated forged brass manifold with exclusive lifetime warranty
- Specifically designed to handle rigorous duty cycles, high temperatures and chemicals associated with self-service car wash applications
- Compact and economical design

**HTXS Series - 63HT - Specifications:**

Max. Inlet Pressure ..... 125 PSI  
 Max. Fluid Temperature..... 185° F  
 Inlet Port Thread..... 1/2"-14 BSP-F  
 Discharge Port Thread..... 3/8"-19 BSP-F  
 Shaft Diameter ..... 945 in./24 mm  
 Pump Dimensions..... 8.4"x8.3"x4.8"  
 Dimensions With Rails..... 8.4"x8.3"x5.6"  
 Crankcase Oil Capacity..... 14.0 oz.  
 Use GP Series 100 Oil (see page 60)  
 Product Group ..... X



HTXS1810S

HTXS SERIES 63HT - 24 MM SOLID SHAFT							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
HTXS1810S	3.1 GPM	2,000 PSI	1750 RPM	.709 in./18 mm	.394 in./10 mm	4.2 HP	18.0 lbs.
HTXS1812S	3.8 GPM	2,000 PSI	1750 RPM	.709 in./18 mm	.472 in./12 mm	5.2 HP	18.0 lbs.
HTXS1813S	3.5 GPM	2,500 PSI	1450 RPM	.709 in./18 mm	.512 in./13 mm	6.0 HP	18.0 lbs.

**HTS Series - 47HT - Features:**

- Triplex plunger pump
- Features patented "high tech" packings
- Patented inlet/outlet valve cage
- Nickel-plated forged brass manifold with exclusive lifetime warranty
- Specifically designed to handle rigorous duty cycles, high temperatures and chemicals associated with self-service car wash applications

**HTS Series - 47HT - Specifications:**

Max. Inlet Pressure ..... 125 PSI  
 Max. Fluid Temperature..... 185° F  
 Inlet Port Thread..... 1/2"-14 BSP-F  
 Discharge Port Thread..... 3/8"-19 BSP-F  
 Shaft Diameter ..... 945 in./24 mm  
 Pump Dimensions ..... 12.2"x9.2"x6.9"  
 Dimensions With Rails..... 12.4"x10"x6.9"  
 Crankcase Oil Capacity..... 40.6 oz.  
 Use GP Series 100 Oil (see page 60)  
 Product Group ..... X



HTS2210S

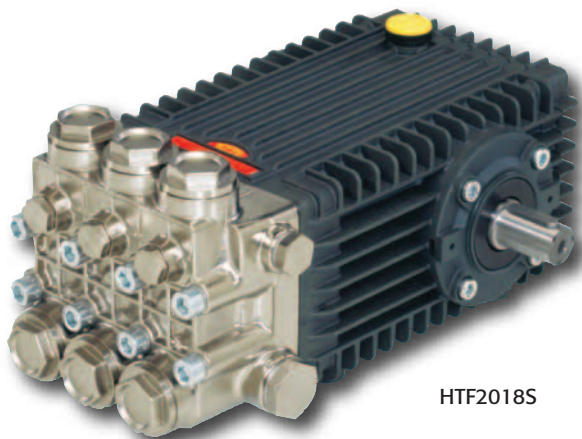
HTS SERIES 47HT - 24 MM SOLID SHAFT							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
HTS2210S	4.0 GPM	2,300 PSI	1450 RPM	.866 in./22 mm	.394 in./10 mm	6.3 HP	32.0 lbs.
HTS2212S	4.75 GPM	2,300 PSI	1450 RPM	.866 in./22 mm	.472 in./12 mm	7.5 HP	32.0 lbs.
HTS2215S	4.0 GPM	2,300 PSI	950 RPM	.866 in./22 mm	.591 in./15 mm	6.3 HP	32.0 lbs.
	5.0 GPM	2,300 PSI	1200 RPM	.866 in./22 mm	.591 in./15 mm	7.5 HP	32.0 lbs.
HTS2016S	5.6 GPM	3,000 PSI	1450 RPM	.787 in./20 mm	.630 in./16 mm	11.5 HP	32.0 lbs.

See pages 30-35 for Vehicle Cleaning Accessories.

All car wash pumps are covered under warranty for damage caused by fresh water wash-out for the life of the pump.

# EMPEROR SERIES UP TO 18.0 GPM

VEHICLE  
CLEANING  
PUMPS



HTF2018S

**HTF Series 66HT - Features:**

- Triplex plunger pump
- Features patented "high tech" packings
- Patented inlet/outlet valve cage
- Nickel-plated inlet/outlet valve plugs
- Nickel-plated forged brass manifold with exclusive lifetime warranty
- Specially designed for use in prep units, conveyor and multiple gun applications
- Ideal for use in carpet cleaning and for use in industrial plant systems where hot water is required

**HTF Series 66HT - Specifications:**

Max. Inlet Pressure .....125 PSI  
 Max. Fluid Temperature.....185° F  
 Inlet Port Thread .....3/4"-14 BSP-F  
 Discharge Port Thread.....3/8"-19 BSP-F  
 Shaft Diameter .....945 in./24 mm  
 Pump Dimensions .....13.27"x9.6"x6.23"  
 Dimensions With Rails.....13.4"x9.8"x7.5"  
 Crankcase Oil Capacity.....40.6 oz.  
 Use GP Series 100 Oil (see page 60)  
 Product Group .....X

HTF SERIES 66HT - 24 MM SOLID SHAFT							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
HTF2421S	10.0 GPM	3,000 PSI	1450 RPM	.945 in./24 mm	.826 in./21 mm	20.5 GP	41.0 lbs.
	12.0 GPM	2,500 PSI	1750 RM	.945 in./24 mm	.826 in./21 mm	20.5 GP	41.0 lbs.
HTF2018S	7.5 GPM	3,600 PSI	1750 RPM	.787 in./20 mm	.748 in./18 mm	18.5 HP	41.0 lbs.
HTF2221S	10.2 GPM	3,000 PSI	1750 RPM	.866 in./22 mm	.826 in./21 mm	21.0 HP	41.0 lbs.

**PLATINUM  
SERIES**



PEHT2010S

**PEHT Series 59HT - Features:**

- Triplex plunger pump
- Features patented "high tech" packings
- Patented inlet/outlet valve cage
- Nickel-plated inlet/outlet valve plugs
- Forged Stainless Steel manifold (AISI420B), nickel-plated
- Specially designed to handle rigorous duty cycles, high temperatures and chemicals
- Ideal for use in car wash and other high pressure cleaning applications

**PEHT Series - Specifications:**

Max. Inlet Pressure .....125 PSI  
 Max. Fluid Temperature.....185° F  
 Inlet Port Thread .....1/2"-11 BSP-F  
 Discharge Port Thread.....3/8"-19 BSP-F  
 Shaft Diameter .....945 in./24 mm  
 Pump Dimensions .....10.4"x8.8"x5.4"  
 Crankcase Oil Capacity .....22 oz.  
 Use GP Series 100 Oil (see page 60)  
 Product Group .....X

PEHT SERIES 59HT - 24 MM SOLID SHAFT							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
PEHT2010S	4.00 GPM	3,000 PSI	1750 RPM	1.417 in./36 mm	.590 in./10 mm	8.2 EBHP	21.0 lbs.
	3.43 GPM	3,000 PSI	1450 RPM	.787 in./20 mm	.590 in./10 mm	7.0 EBHP	21.0 lbs.
PEHT2012S	4.76 GPM	3,000 PSI	1750 RPM	.787 in./20 mm	.472 in./12 mm	9.8 EBHP	21.0 lbs.
	3.96 GPM	3,000 PSI	1450 RPM	.787 in./20 mm	.472 in./12 mm	8.1 EBHP	21.0 lbs.
PEHT2213S	2.64 GPM	3,000 PSI	950 RPM	.787 in./20 mm	.472 in./12 mm	5.4 EBHP	21.0 lbs.
	5.55 GPM	3,000 PSI	1450 RPM	.787 in./20 mm	.512 in./13 mm	11.4 EBHP	21.0 lbs.
PEHT2214S	3.43 GPM	3,000 PSI	950 RPM	.688 in./22 mm	.512 in./13 mm	7.0 EBHP	21.0 lbs.
	4.00 GPM	3,000 PSI	950 RPM	.688 in./22 mm	.551 in./14 mm	5.2 EBHP	21.0 lbs.
101112	Stainless Steel Rail Kit converts to Cat 310/5CP						

See pages 30-35 for Vehicle Cleaning Accessories.

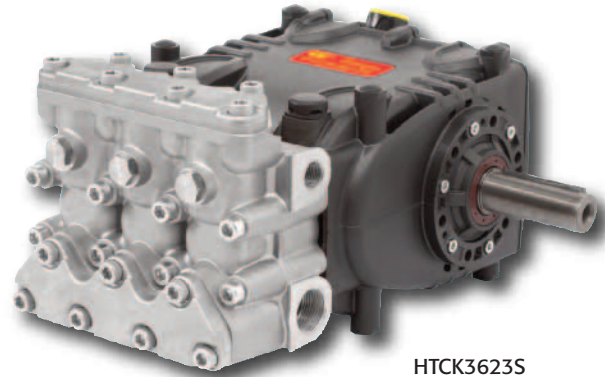
All car wash pumps are covered under warranty for damage caused by fresh water wash-out for the life of the pump.

**HTCK Series - 70HT - Features:**

- Triplex plunger pump
- Features patented "high tech" packings
- Patented inlet/outlet valve cage
- Nickel-plated inlet/outlet valve plugs
- Nickel-plated forged brass manifold with exclusive lifetime warranty
- Heavy-duty tapered roller bearings
- Specifically designed to handle rigorous duty cycles, high temperatures and chemicals
- Ideal for use in car wash and other high pressure cleaning applications

**HTXS Series - 63HT - Specifications:**

Max. Inlet Pressure ..... 125 PSI  
 Max. Fluid Temperature ..... 185° F  
 Inlet Port Thread ..... 1" NPT-F  
 Discharge Port Thread ..... 1/2" NPT-F  
 Shaft Diameter ..... 1.181 in./30 mm  
 Pump Dimensions ..... 15.3"x13.4"x7.7"  
 Crankcase Oil Capacity ..... 64.2 oz.  
 Use GP Series 220 Oil (see page 60)  
 Product Group ..... X



HTCK3623S

HTCK SERIES 70HT - 30 MM SOLID SHAFT							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGT
HTCK3623S	18.0 GPM	1,500 PSI	1000 RPM	1.4 in./36 mm	.9 in./23 mm	18.5 HP	79.6 lbs
	21.0 GPM	1,500 PSI	1150 RPM	1.4 in./36 mm	.9 in./23 mm	22.0 HP	79.6 lbs
	25.0 GPM	1,300 PSI	1350 RPM	1.4 in./36 mm	.9 in./23 mm	22.3 HP	79.6 lbs
Rail Kits:							
HT125RCK							
HT125CW - Converts - CW Pumps							
510227 Inlet Fitting Hose Barb, 1" NPT-M x 1-1/2" Hose Barb, Brass							

**HTCK Series - 71HT - Features:**

- Triplex plunger pump
- Features patented "high tech" packings
- Patented inlet/outlet valve cage
- Nickel-plated inlet/outlet valve plugs
- Nickel-plated forged brass manifold with exclusive lifetime warranty
- Heavy-duty tapered roller bearings
- Specifically designed to handle rigorous duty cycles, high temperatures and chemicals
- Ideal for use in car wash and other high pressure cleaning applications
- Designed as a direct replacement for Cat's 3535 with the advantage of GP's patented HT technology

**HTCK Series - 71HT - Specifications:**

Max. Inlet Pressure ..... 125 PSI  
 Max. Fluid Temperature ..... 185° F  
 Inlet Port Thread ..... 1-1/2" NPT-F  
 Discharge Port Thread ..... 1" NPT-F  
 Shaft Diameter ..... 1.575 in./40 mm  
 Pump Dimensions ..... 20.7"x14.5"x9.9"  
 Crankcase Oil Capacity ..... 124.4 oz.  
 Use GP Series 220 Oil (see page 60)  
 Product Group ..... X



HTCK4050S

HTCK SERIES 71HT - 40 MM SOLID SHAFT							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGT
HTCK4050S*	40.0 GPM	1,500 PSI	800 RPM	1.6 in./40 mm	1.9 in./50 mm	41.1 HP	157.0 lbs.
	45.0 GPM	1,500 PSI	900 RPM	1.6 in./40 mm	1.9 in./50 mm	46.2 HP	157.0 lbs.
Rail Kits:							
HT150RCK - Converts Cat 3535							
HT150CWL - Converts CW1541 - Long Pump Stand							
HT150CWS - Converts CW1541 - Short Pump Stand							
638295	1" NPT Plug, 3,000 PSI, 304 SS						
638298	1-1/2" NPT Plug, 150 PSI, 304 SS						
203411	Bolts for Pump						
510476	Inlet Fitting Hose Barb, 1-1/2" NPT-M x 2" Hose Barb, Brass						

See pages 30-35 for Vehicle Cleaning Accessories.

All car wash pumps are covered under warranty for damage caused by fresh water wash-out for the life of the pump.



# CW 47 SERIES

UP TO 5.6 GPM

VEHICLE  
CLEANING  
PUMPS



CW2040

**CW 47 Series - Features:**

- Forged brass manifold with an exclusive lifetime warranty
- The preferred pump frame in the car wash self-service industry
- Dual crankshaft for convenience (CW2040)
- Large-capacity, die-cast, anodized aluminum oil-bath crankcase
- Oversized connecting rods for maximum life
- Solid ceramic plungers with continuously lubricated packings
- Unitized SS inlet and discharge valves

**CW 47 Series - Specifications:**

Max. Inlet Pressure ..... 125 PSI  
 Max. Fluid Temperature ..... 165° F  
 Inlet Port Thread ..... 1/2"-14 BSP-F  
 Discharge Port Thread ..... 3/8"-19 BSP-F  
 Shaft Diameter ..... 9/16 in./24 mm  
 (CW2040 is dual shaft)  
 Pump Dimensions ..... 11.4"x10.8"x6.9"  
 Dimensions With Rails ..... 11.4"x10.8"x7.9"  
 Crankcase Oil Capacity ..... 33.8 oz.  
 Use GP Series 100 Oil (see page 60)  
 Product Group ..... X

CW 47 SERIES - 24 MM SOLID SHAFT							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
CW2040	3.0 GPM	2,500 PSI	750 RPM	.787 in./20 mm	.630 in./16 mm	5.2 EBHP	30.0 lbs.
	4.0 GPM	2,000 PSI	1000 RPM	.787 in./20 mm	.630 in./16 mm	7.0 EBHP	30.0 lbs.
	5.0 GPM	1,500 PSI	1250 RPM	.787 in./20 mm	.630 in./16 mm	8.6 EBHP	30.0 lbs.
CW24	3.0 GPM	2,500 PSI	750 RPM	.787 in./20 mm	.630 in./16 mm	8.6 EBHP	30.0 lbs.
	5.0 GPM	1,500	1250 RPM	.787 in./20 mm	.630 in./16 mm	8.6 EBHP	30.0 lbs.
CW3040	5.0 GPM	3,000 PSI	1250 RPM	.787 in./20 mm	.630 in./16 mm	10.3 EBHP	32.0 lbs.
CW3555	5.6 GPM	3,500 PSI	1450 RPM	.787 in./20 mm	.630 in./16 mm	13.4 EBHP	32.0 lbs.
CW2004	4.0 GPM	2,000 PSI	1750 RPM	.787 in./20 mm	.394 in./10 mm	5.5 EBHP	30.0 lbs.

CW 47 SERIES ASSEMBLIES	
MODEL	
190237	CW2040 Pump and Retrofit Rail and 24 mm H Bushing for Cat 310 Replacement
190238	CW2040 Pump and Retrofit Rail and 8" OD Pulley for Cat 310 Replacement
190239	CW3040 Pump and Retrofit Rail for Cat 530 Replacement
190245	CW3040L Pump and Retrofit Rail and H Bushing for Cat 530 Replacement

See pages 30-35 for Vehicle Cleaning Accessories.

All car wash pumps are covered under warranty for damage caused by fresh water wash-out for the life of the pump.

**CW 69 Series - Features:**

- Triplex plunger pump
- The preferred pump frame in the two-gun prep conveyor and tunnel car wash industry
- Forged brass manifold with exclusive lifetime warranty
- Large-capacity, die-cast, anodized aluminum oil-bath crankcase
- Over-sized connecting rods for maximum life
- Heavy-duty tapered roller bearings
- Solid ceramic plungers with continuously lubricated packings
- Unitized stainless steel inlet and discharge valves



CW1012

**CW 69 Series - Specifications:**

Max. Inlet Pressure .....125 PSI  
 Max. Fluid Temperature.....165° F  
 Inlet Port Thread .....3/4"-14 BSP-F  
 Discharge Port Thread .....3/8" BSP-F  
 Shaft Diameter .....1.378 in./35 mm  
 Pump Dimensions.....13.0"x11.9"x7.3"  
 Crankcase Oil Capacity.....50.7 oz.  
 Use GP Series 100 Oil (see page 60)  
 Product Group .....Y

CW 69 SERIES - 35 MM SOLID SHAFT							
MODEL	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
CW1012	10.0 GPM	1,200 PSI	750 RPM	1.18 in./30 mm	.946 in./24 mm	8.2 EBHP	45.0 lbs.
	12.0 GPM	1,000 PSI	900 RPM	1.18 in./30 mm	.946 in./24 mm	8.2 EBHP	45.0 lbs.

**EMPEROR...**

**THE HIGHEST TECHNOLOGY IN CAR WASH**

**Emperor**

Ask for General Pump's Emperor Series.  
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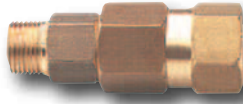
See pages 30-35 for Vehicle Cleaning Accessories.

All car wash pumps are covered under warranty for damage caused by fresh water wash-out for the life of the pump.

# VEHICLE CLEANING ACCESSORIES

VEHICLE  
CLEANING  
ACCESSORIES

## Swivels



YSW38MFB



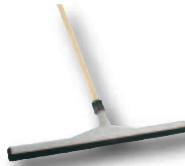
YSW38MFSS

Product Group: H

BRASS & STAINLESS STEEL SWIVELS								
MODEL	DESCRIPTION	GPM	RATED	MAX	INLET	OUTLET	WORKING TEMP	SHP WGHT
YSW38MFB	Medium Resistance, Brass	10.5 GPM	3,650 PSI	4,050 PSI	3/8" BSP-M	3/8" BSP-F	194° F	0.3 lbs.
YSW14MFSS	Medium Resistance, SS	10.5 GPM	5,100 PSI	5,650 PSI	1/4" BSP-M	1/4" BSP-F	194° F	0.3 lbs.
YSW38MFSS	Medium Resistance, SS	10.5 GPM	5,100 PSI	5,650 PSI	3/8" BSP-M	3/8" BSP-F	194° F	0.3 lbs.
YSW14MFB	Medium Resistance, Brass	10.5 GPM	3,650 PSI	4,050 PSI	1/4" BSP-M	1/4" BSP-F	194° F	0.3 lbs.
YSW9014SS	Medium Resistance, SS, 90 Deg	10.5 GPM	3,650 PSI	4050 PSI	1/4" BSP-M	1/4" BSP-F	194° F	0.3 lbs.

NEW

## Squeegees



560001

### SQUEEGEES

Product Group: I

MODEL	DESCRIPTION
560002	5 Foot Tapered Wood Handle
PXW20075	30" Foam Rubber Squeegee Head, cleans dirt out of the deepest cracks, even on rough surfaces
560001	Assembled Squeegee Head and Handle

## Nozzle Packs



105140

### NOZZLE PACKS

Product Group: I

MODEL	DESCRIPTION
105140	Nozzle Kit for Laser Wash 4000, contains all nozzles for arch, 19 nozzles
105144	Nozzle Kit for D & S 5000 - Gantry, 16 Nozzles
105145	Nozzle Kit for D & S 5000 - Blaster, 12 Nozzles
105154	Nozzle Kit for SSA Futura, 30 - 1/8" NPT Nozzles
105167	Nozzle Kit for Oasis 9120 Windvan, 24 Nozzles
105169	Nozzle Kit for Oasis Rocker Panel Sprayers, 10 Nozzles
105193	Nozzle Kit for Hydrospray Rainmaker-Tower, 9 Nozzles

## Regulators - Great for Multiple Gun Prep Units



100892



100998/99



ZXS1



YR5221

Product Group: S

VEHICLE CLEANING REGULATORS							
MODEL	DESCRIPTION	GPM	RATED	INLET	OUTLET	MAX TEMP	SHP WGHT
100892	Nickel-plated	5.0 GPM	2,000 PSI	3/8" NPT-F	1/4" NPT-F	200° F	1.4 lbs.
100998	303 Stainless Steel, Viton, PTFE	13.0 GPM	1,000 PSI	3/8" NPT-F	1/2" NPT-F	190° F	2.0 lbs.
100999	303 Stainless Steel, Viton, PTFE	13.0 GPM	2,000 PSI	3/8" NPT-F	1/2" NPT-F	190° F	2.0 lbs.
ZKSX1	316 Stainless Steel	16.0 GPM	3,600 PSI	1/2" BSP-F	1/2" BSP-F	185° F	4.5 lbs.

MODEL	DESCRIPTION	GPM	RATED	MAX	INLET	MAX TEMP	SHP WGHT
YR5221	Designed for Touch Free Car Wash Systems	53.0 GPM	2,200 PSI	2,450 PSI	1" NPT	200° F	4.5 lbs.



# VEHICLE CLEANING ACCESSORIES

VEHICLE  
CLEANING  
ACCESSORIES



PLSR4LVNCV



YBRV624



YBRV5325

## Balanced Relief Valves

Product Group: T

### VEHICLE CLEANING BALANCED RELIEF VALVES

MODEL	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHP WGHT
YBRV624	6.3 GPM	2,200 PSI	2,450 PSI	3/8" BSP-F	3/8" BSP-F	195° F	0.8 lbs.
YBRV624D	6.3 GPM	2,200 PSI	2,450 PSI	(2) 3/8" BSP-F	3/8" BSP-F	195° F	1.0 lbs.
100268	6.3 GPM	300 PSI	N/A	(2) 3/8" BSP-F	3/8" BSP-F	195° F	1.0 lbs.
100269	6.3 GPM	300 PSI	N/A	3/8" BSP-F	3/8" BSP-F	195° F	0.8 lbs.
PLSR4LVNCV	10.0 GPM	1,450 PSI	1,500 PSI	(2) 3/8" BSP-F	(2) 3/8" BSP-F	195° F	1.0 lbs.
PLSR4HVNCV	10.0 GPM	2,300 PSI	2,600 PSI	(2) 3/8" BSP-F	(2) 3/8" BSP-F	195° F	1.0 lbs.
101088	30.0 GPM	350 PSI	N/A	3/4" NPT-F	3/4" NPT-F	195° F	2.0 lbs.
YBRV5325	53.0 GPM	2,600 PSI	2,900 PSI	3/4" NPT-F	1/2" NPT-F	195° F	2.0 lbs.

NEW



YU21235



YU5221



ZK4010



PULSAR4LP

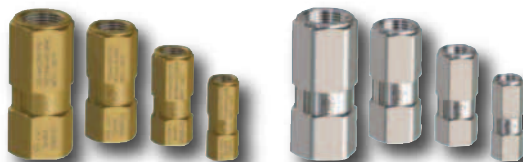
## Unloaders

Product Group: S

### VEHICLE CLEANING UNLOADERS

MODEL	GPM	RATED	MAX	INLET	OUTLET	BYPASS	MAX TEMP	SHP WGHT
ZK4010	10.5 GPM	4,000 PSI	4,000 PSI	3/8" BSP-F	3/8" BSP-M	(2) 3/8" BSP-F	185° F	2.3lbs.
PULSAR4LP	10.5 GPM	2,300 PSI	2,600 PSI	(2) 3/8" NPT-F	3/8" NPT-F	(2) 3/8" NPT-F	195° F	1.5 lbs.
PULSAR4KLP	10.5 GPM	2,300 PSI	2,600 PSI	(2) 3/8" NPT-F	3/8" NPT-F	(2) 3/8" NPT-F	195° F	1.5 lbs.
YU21235	21.0 GPM	2,300 PSI	2,600 PSI	(2) 1/2" NPT-F	1/2" NPT-F	(2) 1/2" NPT-F	200° F	3.1 lbs.
YVB5121B	21.0 GPM	5,100 PSI	5,650 PSI	1/2" NPT-F	1/2" NPT-F	1/2" NPT-F	195° F	2.5 lbs.
YU3723	37.0 GPM	2,300 PSI	2,600 PSI	3/4" NPT-F	3/4" NPT-F	3/4" NPT-F	195° F	4.1 lbs.
YU5221	53.0 GPM	2,200 PSI	2,450 PSI	1" NPT-F	1" NPT-F	1" NPT-F	200° F	4.5 lbs.

NEW



Brass

303 Stainless Steel

## Check Valves

Product Group: T

### VEHICLE CLEANING CHECK VALVES

MODEL	DESCRIPTION	GPM	RATED	MAX	OUTLET	MAX TEMP	SHP WGHT
YCV14FSS	303 Stainless Steel	6.5 GPM	5,800 PSI	6,500 PSI	1/4" BSP-F	195° F	0.5 lbs.
YCV38FSS	Stainless Steel	10.5 GPM	5,800 PSI	6,500 PSI	3/8" BSP-F	195° F	0.5 lbs.
YCV12FB	Brass	21.0 GPM	2,200 PSI	2,300 PSI	1/2" BSP-F	195° F	0.5 lbs.
YCV12FSS	303 Stainless Steel	21.0 GPM	5,800 PSI	6,500 PSI	1/2" BSP-F	195° F	0.5 lbs.
YCV34FB	Brass	48.0 GPM	2,200 PSI	2,300 PSI	3/4" BSP-F	195° F	0.8 lbs.
YCV34FSS	303 Stainless Steel	48.0 GPM	5,800 PSI	6,500 PSI	3/4" BSP-F	195° F	0.8 lbs.



686010



686011



686028

## Accumulators

Product Group: K

### VEHICLE CLEANING ACCUMULATORS

MODEL	DESCRIPTION	GPM	RATED	INLET	SHP WGHT
686011	Non-rechargeable (pre-set on request)	10.0 GPM	3,000 PSI	1/2" NPT-M	2.5 lbs.
686028	Rechargeable	10.0 GPM	3,000 PSI	1/2" NPT-M	2.5 lbs.
686010	Rechargeable	40.0 GPM	3,000 PSI	1" NPT-M	7.0 lbs.

# VEHICLE CLEANING ACCESSORIES

VEHICLE CLEANING ACCESSORIES

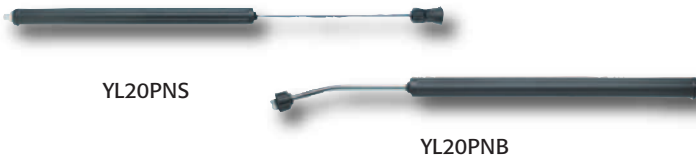
## Spray Guns



Product Group: I

VEHICLE CLEANING SPRAY GUNS								
MODEL	DESCRIPTION	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHW WGHT
YGRN47	Rear Entry, Rinsing Nozzle	4.7 GPM	73 PSI	N/A	1/2" NPT - M	Nozzle	176° F	1.5 lbs.
YRL2640	Rear Entry	8.0 GPM	3,650 PSI	4,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.0 lbs.
YRL2640W	Rear Entry, Weep Seat	8.0 GPM	3,650 PSI	4,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.0 lbs.
YG4000	Rear Entry	10.5 GPM	4,500 PSI	5,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.8 lbs.
YG4000WN	Rear Entry, Weep Seat	10.5 GPM	4,500 PSI	5,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.0 lbs.
YG4010	Rear Entry	10.5 GPM	4,500 PSI	5,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.2 lbs.
YG4010W	Rear Entry, Weep Seat	10.5 GPM	4,500 PSI	5,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.2 lbs.
YG5000	Rear Entry	10.0 GPM	5,000 PSI	5,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.2 lbs.
YG5000W	Rear Entry, Weep Seat	10.0 GPM	5,000 PSI	5,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.2 lbs.
DG5010	Rear Entry	10.0 GPM	5,000 PSI	5,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.4 lbs.
DG5010W	Rear Entry, Weep Seat	10.0 GPM	5,000 PSI	5,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.4 lbs.

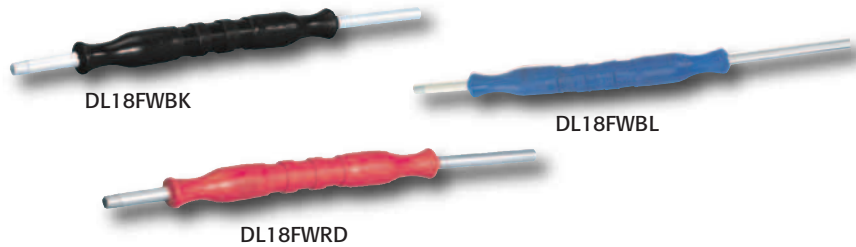
## Insulated Lances



Product Group: I

VEHICLE CLEANING INSULATED LANCES								
MODEL	DESCRIPTION	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHW WGHT
YL20PNS	20", Straight	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-F	320° F	1.1 lbs.
YL24PNS	24", Straight	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-F	320° F	1.3 lbs.
YL27PNS	27", Straight	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-F	320° F	1.4 lbs.
YL20PNB	20", Bent	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-F	320° F	1.1 lbs.
YL24PNB	24", Bent	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-F	320° F	1.3 lbs.
YL27PNB	27", Bent	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-F	320° F	1.4 lbs.

## Flexible Lances



Product Group: I

VEHICLE CLEANING FLEXIBLE LANCES								
MODEL	DESCRIPTION	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHW WGHT
DL18FWRD	18", Red	10.0 GPM	2,250 PSI	2,500 PSI	1/4" NPT-M	1/8" NPT-F	200° F	1.1 lbs.
DL18FWBL	18", Blue	10.0 GPM	2,250 PSI	2,500 PSI	1/4" NPT-M	1/8" NPT-F	200° F	1.1 lbs.
DL18FWBK	18", Black	10.0 GPM	2,250 PSI	2,500 PSI	1/4" NPT-M	1/8" NPT-F	200° F	1.1 lbs.
DL18FWRDM	18", Red	10.0 GPM	2,250 PSI	2,500 PSI	1/4" NPT-M	1/4" NPT-M	200° F	1.1 lbs.
DL18FWBLM	18", Blue	10.0 GPM	2,250 PSI	2,500 PSI	1/4" NPT-M	1/4" NPT-M	200° F	1.1 lbs.
DL18FWBKM	18", Black	10.0 GPM	2,250 PSI	2,500 PSI	1/4" NPT-M	1/4" NPT-M	200° F	1.1 lbs.
DLT8FWBLMSS	18", Blue, SST	10.0 GPM	3,000 PSI	3,000 PSI	1/4" NPT-M	1/4" NPT-M	200° F	1.1 lbs.

# VEHICLE CLEANING ACCESSORIES

VEHICLE  
CLEANING  
ACCESSORIES



101069

## Flow Switches

Product Group: D

FLOW SWITCHES							
PART NUMBER	GPM	RATED PRESSURE	MAX PRESSURE	MAX TEMP	INLET	OUTLET	SHP WGHT
<b>5 Amp, 250 Volts, New High Flow Flow Switch, 4 gpm minimum activation, 12" 18 AWG LEAD:</b>							
101068	10.0 GPM		4,000 PSI	180° F	1/2" NPT- F	1/2" NPT- F	1.9 lbs.
	25.0 GPM		3,000 PSI	180° F	1/2" NPT- F	1/2" NPT- F	1.9 lbs.
<b>With Weatherpack connector:</b>							
101069	10.0 GPM		4,000 PSI	180° F	1/2" NPT- F	1/2" NPT- F	1.9 lbs.
	25.0 GPM		3,000 PSI	180° F	1/2" NPT- F	1/2" NPT- F	1.9 lbs.



100879



100975



100931

## Reedless Flow Switches

Product Group: D

TMT INLINE FLOW SWITCHES, 5 AMP MICROSWITCH, MINIMUM ACTIVATION FLOW, 48" 18 AWG LEAD, NO SPRING, USES MAGNETS FOR ALL MOVEMENTS								
PART NUMBER	GPM	MAX	MAX TEMP	INLET	OUTLET	VOLTAGE	MATERIAL	SHP WGHT
100975	12.0 GPM	5,000 PSI	180° F	3/8" NPT-F	3/8" NPT-F	250 VAC	Brass	1.25 lbs.
100931	12.0 GPM	5,800 PSI	180° F	3/8" NPT-F	3/8" NPT-F	250 VAC	SS	1.5 lbs.
<b>With Pilot Feature (0.5 GPM Activation):</b>								
100879	12.0 GPM	4,000 PSI	180° F	3/8" NPT-F	3/8" NPT-F	250 VAC	Brass	1.5 lbs.
<b>Without Pilot Feature (0.5 GPM Activation):</b>								
100904	12.0 GPM	4,000 PSI	180° F	3/8" NPT-F	3/8" NPT-F	250 VAC	Brass	1.5 lbs.



100948

## Chemical Injectors

High Draw, Brass Body, SS Nozzle, Viton Elastomers and Ceramic Ball

Product Group: L

VEHICLE CLEANING CHEMICAL INJECTORS - HIGH DRAW, BRASS BODY, SS NOZZLE, VITON ELASTOMERS AND CERAMIC BALL									
MODEL	ORIFICE	GPM	MAX	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WGHT	
100947	1.6 mm	1.5 to 2.5 GPM	4,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.	
100948	1.8 mm	2.0 to 3.0 GPM	4,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.	
100949	2.1 mm	3.0 to 5.0 GPM	4,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.	
100950	2.3 mm	5.0 to 8.0 GPM	4,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.	



100615

## Chemical Injectors

Brass Body, SS Nozzle, Viton Elastomers and SS Ball

Product Group: L

VEHICLE CLEANING CHEMICAL INJECTORS - BRASS BODY, SS NOZZLE, VITON ELASTOMERS AND SS BALL									
MODEL	ORIFICE	GPM	MAX	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WGHT	
100913	1.45 mm	1.0 to 2.0 GPM	4,000 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.	
100615	1.8 mm	2.0 to 3.0 GPM	4,000 PSI	3/8" NPT-M	3/8" NPT-M	190° F	N/A	0.4 lbs.	
100511	2.1 mm	3.0 to 5.0 GPM	4,000 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.	



100872

## Chemical Injectors

Brass Body, SS Nozzle, Viton Elastomers and Teflon Ball

Product Group: L

VEHICLE CLEANING CHEMICAL INJECTORS - BRASS BODY, SS NOZZLE, VITON ELASTOMERS AND TEFLON BALL									
MODEL	ORIFICE	GPM	MAX	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WGHT	
100871	1.5 mm	1.0 to 2.0 GPM	4,000 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	
100872	2.3 mm	5.0 to 8.0 GPM	4,000 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	



# VEHICLE CLEANING ACCESSORIES

VEHICLE CLEANING ACCESSORIES

## Chemical Injectors

304 SS Body, 316 SS Nozzle, EPDM Elastomers and 316 SS Ball



100075

Product Group: L

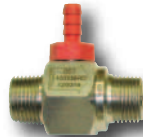
VEHICLE CLEANING CHEMICAL INJECTORS - SS BODY, SS NOZZLE, EPDM ELASTOMERS AND SS BALL								
MODEL	ORIFICE	GPM	MAX	INLET	OUTLET	MAX TEMP	HOSE BARB	SHW WGT
100996	1.04 mm	1.0 to 2.0 GPM	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
101004	1.3 mm	1.0 to 2.0 GPM	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100075	1.45 mm	1.0 to 2.0 GPM	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100093	2.1 mm	2.0 to 4.0 GPM	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100074	2.2 mm	3.0 to 5.0 GPM	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100076	2.5 mm	5.0 to 8.0 GPM	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
101010	3.18 mm	5.0 to 8.0 GPM	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.

REPAIR KITS AVAILABLE

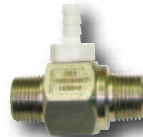
## Chemical Injectors

Color-coded Kynar Hose Barbs, Special Elastomers, 304 Stainless Steel

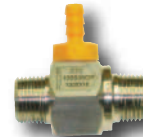
**NEW!**



100336RD



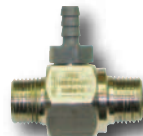
100094WT



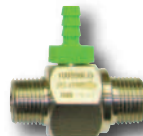
100835OR



100541GY



100334GY



100339LG



100333BL



100781

Product Group: L

COLOR CODED KYNAR BARBS NEW SPECIAL ELASOMERS, CERAMIC BALL, HASTELLOY SPRING. REPAIRABLE!								
MODEL	ORIFICE	GPM	MAX	INLET	OUTLET	MAX TEMP	HOSE BARB	SHW WGT
100336RD	1.45 mm	1.0 to 2.0	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100094WT	1.6 mm	2.0 to 3.0	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100835OR	1.8 mm	2.0 to 3.0	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100334GY	2.1 mm	2.0 to 4.0	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100333BL	2.2 mm	3.0 to 5.0	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100339LG	2.3 mm	5.0 to 8.0	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100541GY	2.1 mm	3.0 to 5.0	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4" (2)	0.4 lbs.
100781	<i>Metering Tips</i>							

REPAIR KITS AVAILABLE

## Chemical Injectors

CPVC Body, CPVC Nozzle, Kynar Hose Barb and Teflon Ball



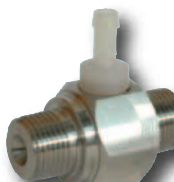
100938

Product Group: L

VEHICLE CLEANING CHEMICAL INJECTORS - CPVC BODY, CPVC NOZZLE, KYNAR HOSE BARB AND TEFLON BALL								
MODEL	ORIFICE	GPM	MAX	INLET	OUTLET	MAX TEMP	HOSE BARB	SHW WGT
100938	1.6 mm	2.0 to 3.0 GPM	250 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.
100853	2.1 mm	3.0 to 5.0 GPM	250 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.
100955	1.4 mm	1.0 to 2.0 GPM	250 PSI	1/2" NPT-M	1/2" NPT-M	190° F	1/4"	0.4 lbs.
100956	1.6 mm	2.0 to 3.0 GPM	250 PSI	1/2" NPT-M	1/2" NPT-M	190° F	1/4"	0.4 lbs.
100957	2.1 mm	3.0 to 5.0 GPM	250 PSI	1/2" NPT-M	1/2" NPT-M	190° F	1/4"	0.4 lbs.

## Chemical Injectors

304 SS Body, 316 SS Nozzle, EPDM O-ring, Kynar Hose Barb and Teflon Ball



100096

Product Group: L

VEHICLE CLEANING CHEMICAL INJECTORS - SS BODY, SS NOZZLE, EPDM O-RING, KYNAR HOSE BARB AND TEFLON BALL								
MODEL	ORIFICE	GPM	MAX	INLET	OUTLET	MAX TEMP	HOSE BARB	SHW WGT
100096	1.45 mm	1.0 to 2.0 GPM	250 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100097	2.2 mm	3.0 to 5.0 GPM	250 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.

# VEHICLE CLEANING ACCESSORIES

**NEW!**



101033



101038



101035

## Chemical Injectors

304 Stainless Steel,  
Kynar Hose Barb

Product Group: L

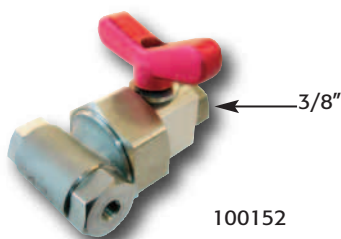
### VEHICLE CLEANING CHEMICAL INJECTORS, STAINLESS STEEL W/KYNAR HOSE BARBS

MODEL	ORIFICE	GPM	MAX	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WGHT
101033	1.04 mm	1.0 to 2.0 GPM	500 PSI	3/8" M Plug	3/8" NPT-M	190° F	1/4" (1)	0.4 lbs.
101034	1.04 mm	1.0 to 2.0 GPM	500 PSI	3/8" M Plug	3/8" NPT-M	190° F	1/4" (2)	0.4 lbs.
101035	1.04 mm	1.0 to 2.0 GPM	500 PSI	3/8" M Plug	3/8" NPT-M	190° F	1/4" (3)	0.5 lbs.
101073	1.3 mm	1.0 to 2.0 GPM	500 PSI	3/8" M Plug	3/8" NPT-M	190° F	1/4" (1)	0.4 lbs.
101074	1.3 mm	1.0 to 2.0 GPM	500 PSI	3/8" M Plug	3/8" NPT-M	190° F	1/4" (2)	0.4 lbs.
101075	1.3 mm	1.0 to 2.0 GPM	500 PSI	3/8" M Plug	3/8" NPT-M	190° F	1/4" (3)	0.5 lbs.
101030	1.45 mm	1.0 to 2.0 GPM	500 PSI	3/8" M Plug	3/8" NPT-M	190° F	1/4" (1)	0.4 lbs.
101031	1.45 mm	1.0 to 2.0 GPM	500 PSI	3/8" M Plug	3/8" NPT-M	190° F	1/4" (2)	0.4 lbs.
101032	1.45 mm	1.0 to 2.0 GPM	500 PSI	3/8" M Plug	3/8" NPT-M	190° F	1/4" (3)	0.5 lbs.
101072	3.18 mm	5.0 to 8.0 GPM	500 PSI	3/8" M Plug	3/8" NPT-M	190° F	1/4" (3)	0.5 lbs.
101027	1.8 mm	2.0 to 3.0 GPM	500 PSI	3/8" M Plug	3/8" NPT-M	190° F	1/4" (1)	0.4 lbs.
101028	1.8 mm	2.0 to 3.0 GPM	500 PSI	3/8" M Plug	3/8" NPT-M	190° F	1/4" (2)	0.4 lbs.
101029	1.8 mm	2.0 to 3.0 GPM	500 PSI	3/8" M Plug	3/8" NPT-M	190° F	1/4" (3)	0.5 lbs.
101024	2.1 mm	2.0 to 3.0 GPM	500 PSI	3/8" M Plug	3/8" NPT-M	190° F	1/4" (1)	0.4 lbs.
101025	2.1 mm	2.0 to 3.0 GPM	500 PSI	3/8" M Plug	3/8" NPT-M	190° F	1/4" (2)	0.4 lbs.
101026	2.1 mm	2.0 to 3.0 GPM	500 PSI	3/8" M Plug	3/8" NPT-M	190° F	1/4" (3)	0.5 lbs.
101021	2.2 mm	2.0 to 3.0 GPM	500 PSI	3/8" M Plug	3/8" NPT-M	190° F	1/4" (1)	0.4 lbs.
101022	2.2 mm	2.0 to 3.0 GPM	500 PSI	3/8" M Plug	3/8" NPT-M	190° F	1/4" (2)	0.4 lbs.
101023	2.2 mm	2.0 to 3.0 GPM	500 PSI	3/8" M Plug	3/8" NPT-M	190° F	1/4" (3)	0.5 lbs.
101018	2.5 mm	5.0 to 8.0 GPM	500 PSI	3/8" M Plug	3/8" NPT-M	190° F	1/4" (1)	0.4 lbs.
101019	2.5 mm	5.0 to 8.0 GPM	500 PSI	3/8" M Plug	3/8" NPT-M	190° F	1/4" (2)	0.4 lbs.
101020	2.5 mm	5.0 to 8.0 GPM	500 PSI	3/8" M Plug	3/8" NPT-M	190° F	1/4" (3)	0.5 lbs.
101037	3.18 mm	5.0 to 8.0 GPM	500 PSI	3/8" M Plug	3/8" NPT-M	190° F	1/4" (1)	0.4 lbs.
101038	3.18 mm	5.0 to 8.0 GPM	500 PSI	3/8" M Plug	3/8" NPT-M	190° F	1/4" (2)	0.4 lbs.

VEHICLE  
CLEANING  
ACCESSORIES

## Pulse Pumps

\*Additional Pulse Pumps can be found on page 73



100152

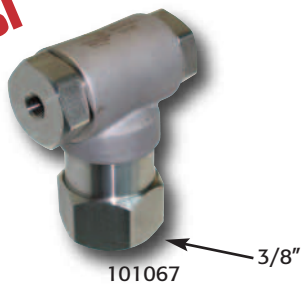
### ADAPTER FITTINGS FOR 100152

PUMP SERIES	FITTING (3/8" NPT-M)	VALVE
60 (TC, HTC)	520275	103036
47 and 50 (T, TT, TS, HTS)	520274	103035
44 (EZ)	520273	103036
63 (TX, HTXS)	520273	103036
66 (TSF, HTF)	520276	103090
310/3CP/5CP (Cat)	520282	N/A
5CP3, 5CPS (Cat)	520292	N/A
5CP6 (Cat)	520343	N/A

### PULSE PUMP with BALL VALVE - 3,000 PSI WHEN BALL VALVE IS ENGAGED

MODEL	GPM	RATED	PULSE PUMP PORT INLET	WATER INLET	OUTLET	MAX TEMP	SHP WGHT
100152	0.75 GPM	1,500 PSI*	3/8" NPT-F	1/8" NPT-F	1/8" NPT-F	190° F	1.5 lbs.

**NEW!**  
**3,000 PSI**



101067

### ADAPTER FITTINGS FOR 101067

PUMP SERIES	FITTING (3/8" NPT-M)	VALVE
60 (TC)	520275	103036
44 (EZ)	520273	103036
63 (TX)	520273	103036
47 (HTS)	520274	103035
	520396	103035
66 (TSF)	520276	103090
310/3CP/5CP2 (Cat)	520282	N/A
5CP3/5CP5 (Cat)	520292	N/A
5CP6 (Cat)	520343	N/A

Product Group: S

### NEW! HIGH PRESSURE PULSE PUMP

MODEL	GPM	MAX	PULSE PUMP PORT INLET	WATER INLET	OUTLET	MAX TEMP	SHP WGHT
101067	See Note Below*	3,000 PSI	3/8" NPT-F	1/8" NPT-F	1/8" NPT-F	190° F	2.0 lbs.

\*Flow will vary according to flow and pressure of the drive pump. For optimum performance, inlet pressure to the drive pump should be zero or negative but not to exceed drive pump specifications.

# INDUSTRIAL APPLICATIONS

INDUSTRIAL  
PUMPS



Many of our industrial pumps can be built to ATEX certification.



## Misting/Fogging

- Evaporative cooling
- Insect control
- Bird control
- Odor control
- Fire suppression
- Tower cooling
- Power generation

## Water jet technology

- Coating removal
- Surface preparation
- Materials cutting/machining

## Industrial Process

- Hydraulic ram/press
- Hydrostatic testing

## Industrial cleaning

- General cleaning
- Surface stripping
- Scale removal
- Barrel cleaning

## Food processing

- Poultry deboning
- Sanitation
- Wine making

## Agricultural

- Hydro-seeding
- Fertilizer injection

## Boats and pleasure craft

- Watermaking
- Washdown
- Boat hull cleaning

## Water treatment

- Reverse osmosis
- Desalination
- Water purification

## Sewer maintenance

- Sewer jetting
- Root cutting
- Hydro Excavation

## Tank cleaning

- Barrel reconditioning
- Wine making

## Mining/Oil & Gas

- Exploration Drilling
- Bentonite
- Core sampling
- BOP
- Dyno/dynamic brake
- Coil tubing
- Glycol
- Well stimulation
- Waterblast
- Chemical injection
- Accumulator charging



## KE Series - Features:

- Patent-pending symmetrical power end featuring top and bottom mounting holes allowing for easy left to right shaft conversion
- Low-high pressure packing design with integrated cooling system
- High volumetric efficient suction/delivery valves
- Splash lubrication
- SAE-B drive options available
- 420 SS Manifold

## KE Series - Specifications:

Max. Inlet Pressure.....45 PSI  
 Max. Fluid Temperature.....\*140° F  
 Inlet Port Thread.....1" NPT--F  
 Discharge Port Thread.....1/2" NPT-F  
 Shaft Diameter.....1.181"/30 mm  
 Stroke.....0.9055"/23 mm  
 Pump Dimensions.....15.2"x13.4"x7.7"  
 Crankcase Oil Capacity.....67.63 oz./2 liters  
 Use GP Series 220 Oil (see page 60)  
 Shipping Weight.....88 lbs.  
 Product Group.....V

## KE SERIES



KE SERIES			
MODEL	GPM	PSI	RPM
KE20A	8.0 GPM	4,350 PSI	1450 RPM
KE22A	10.0 GPM	3,650 PSI	1450 RPM
KE24A	11.9 GPM	3,050 PSI	1450 RPM
KE28HA	16.1 GPM	2,170 PSI	1450 RPM
KE30HA	18.5 GPM	1,880 PSI	1450 RPM
KE36HA	26.4 GPM	1,450 PSI	1450 RPM

## KT Series - Features:

- Double pressure packings
- Pressure packing design with integrated cooling system
- Horizontally fitted in-line valves
- Splash lubrication
- SAE-B hydraulic drive options available
- 420 SS manifold (KT16A, 18A, 20A, 22A)
- Nickel-plated cast iron manifold (KT24A, 28A, 30A, 32A, 36A, 40A)

## KT Series - Specifications:

Max. Inlet Pressure.....45 PSI  
 Max. Fluid Temperature.....\*140° F  
 Inlet Port Thread.....See specification sheet  
 Discharge Port Thread.....See specification sheet  
 Shaft Diameter.....1.181"/30 mm  
 Stroke.....1.102"/26 mm  
 Pump Dimensions.....15.55"x13.4"x8.35"  
 Crankcase Oil Capacity.....67.63 oz./2 liters  
 Use GP Series 220 Oil (see page 60)  
 Shipping Weight.....100 lbs.  
 Product Group.....V

## KT SERIES



KT SERIES			
MODEL	GPM	PSI	RPM
KT16A	7.2 GPM	7,250 PSI	1750 RPM
KT18A	9.2 GPM	5,800 PSI	1750 RPM
KT20A	11.4 GPM	4,650 PSI	1750 RPM
KT22A	13.7 GPM	3,650 PSI	1750 RPM
KT24A	16.3 GPM	2,900 PSI	1750 RPM
KT28A	22.2 GPM	2,540 PSI	1750 RPM
KT30A	25.4 GPM	2,175 PSI	1750 RPM
KT32A	29.1 GPM	1,750 PSI	1750 RPM
KT36A	33.1 GPM	1,813 PSI	1580 RPM
KT40A	37.5 GPM	1,450 PSI	1450 RPM

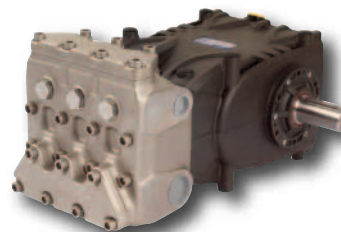
## KF Series - Features:

- Patent-pending symmetrical power end featuring top and bottom mounting holes allowing for easy left to right shaft conversion
- Low-high pressure packing design with integrated cooling system
- High volumetric efficient suction/delivery valves
- Splash lubrication
- SAE-C hydraulic drive options available
- Available with external gear box (direct drive only)
- 420 SS Manifold

## KF Series - Specifications:

Max. Inlet Pressure.....45 PSI  
 Max. Fluid Temperature.....\*140° F  
 Inlet Port Thread.....1-1/2" NPT-F  
 Discharge Port Thread.....1" NPT-F  
 Shaft Diameter.....1.575"/40 mm  
 Stroke.....1.969"/50 mm  
 Pump Dimensions.....20.7"x14.5"x9.9"  
 Crankcase Oil Capacity.....128.5 oz./3.8 liters  
 Use GP Series 220 Oil (see page 60)  
 Shipping Weight.....150 lbs.  
 Product Group.....V

## KF SERIES



KF SERIES			
MODEL	GPM	PSI	RPM
KF28A	24.5 GPM	3,050 PSI	1000 RPM
KF30A	28.0 GPM	2,900 PSI	1000 RPM
KF32A	31.7 GPM	2,600 PSI	1000 RPM
KF36A	40.0 GPM	2,000 PSI	1000 RPM
KF40A	45.0 GPM	1,600 PSI	1000 RPM



ATEX Available

\* Please consult technical manual or GP Sales Representative for Temperature/Inlet Pressure information

# INDUSTRIAL PUMPS



## KS SERIES

Shown with optional gearbox

KS SERIES			
MODEL	GPM	PSI	RPM
KS28SA*	24.0 GPM	4,000 PSI	1000 RPM
KS28A	29.1 GPM	3,650 PSI	1200 RPM
KS32A	38.3 GPM	2,900 PSI	1200 RPM
KS36A	48.3 GPM	2,350 PSI	1200 RPM
KS40A	59.7 GPM	2,000 PSI	1200 RPM

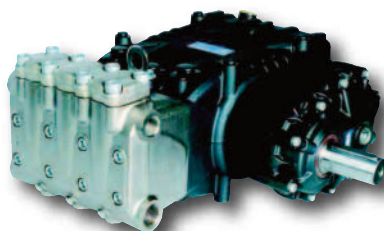
\*intermittent duty only



## HF SERIES

HF SERIES			
MODEL	GPM	PSI	RPM
HF18A	8.1 GPM	8,700 PSI	800 RPM
	10.1 GPM	7,250 PSI	1000 RPM
HF20A	12.4 GPM	5,800 PSI	1000 RPM
HF22A	12.05 GPM	5,800 PSI	800 RPM
	15.0 GPM	5,075 PSI	1000 RPM
HF22JA*	19.7 GPM	4,000 PSI	1300 RPM
HF25A	19.4 GPM	4,060 PSI	1000 RPM

\*intermittent duty only



## HS SERIES

Shown with optional gearbox

HS SERIES			
MODEL	GPM	PSI	RPM
HS18A	12.1 GPM	8,700 PSI	1200 RPM
HS20A	15.1 GPM	7,250 PSI	1200 RPM

### KS Series - Features:

- Patent-pending symmetrical power end featuring top and bottom mounting holes allowing for easy left to right shaft conversion
- Low-high pressure packing design with integrated cooling system
- High volumetric efficient suction/delivery valves
- Splash lubrication
- SAE-C drive options available
- Available with external gear box (direct drive only)
- 420 SS Manifold

### KS Series - Specifications:

Max. Inlet Pressure .....45 PSI  
 Max. Fluid Temperature .....\*140° F  
 Inlet Port Thread .....2" NPT-F  
 Discharge Port Thread .....1-1/2" NPT-F  
 Shaft Diameter .....1.575"/40 mm  
 Stroke .....1.969"/50 mm  
 Pump Dimensions .....23.0"x19.0"x11.0"  
 Crankcase Oil Capacity .....162.3 oz./4.8 liters  
 Use GP Series 220 Oil (see page 60)  
 Shipping Weight .....212 lbs.  
 Product Group .....V

### HF Series - Features:

- Patent-pending symmetrical power end featuring top and bottom mounting holes allowing for easy left to right shaft conversion
- Low-high pressure packing design with integrated cooling system
- High volumetric efficient suction/delivery valves
- Splash lubrication
- SAE-C drive options available
- Available with external gear box (direct drive only)
- 420 SS manifold (HF18A is 17/4 ph)

### HF Series - Specifications:

Max. Inlet Pressure .....45 PSI  
 Max. Fluid Temperature .....\*140° F  
 Inlet Port Thread .....1" NPT-F  
 Discharge Port Thread .....3/4" NPT-F  
 Shaft Diameter .....1.575"/40 mm  
 Stroke .....1.969"/50 mm  
 Pump Dimensions .....20.0"x14.5"x9.4"  
 Crankcase Oil Capacity .....128.5 oz./3.8 liters  
 Use GP Series 220 Oil (see page 60)  
 Shipping Weight .....132 lbs.  
 Product Group .....V

### HS Series - Features:

- Patent-pending symmetrical power end featuring top and bottom mounting holes allowing for easy left to right shaft conversion
- Low-high pressure packing design with integrated cooling system
- High volumetric efficient suction/delivery valves
- Splash lubrication
- SAE-C drive options available
- Available with external gear box (direct drive only)
- 420 SS manifold (HS18A is 17/4 ph)

### HS Series - Specifications:

Max. Inlet Pressure .....45 PSI  
 Max. Fluid Temperature .....\*140° F  
 Inlet Port Thread .....1" NPT-F  
 Discharge Port Thread .....3/4" NPT-F  
 Shaft Diameter .....1.575"/40 mm  
 Stroke .....1.969"/50 mm  
 Pump Dimensions .....21.4"x14.5"x9.4"  
 Crankcase Oil Capacity .....128.5 oz./3.8 liters  
 Use GP Series 220 Oil (see page 60)  
 Shipping Weight .....143 lbs.  
 Product Group .....V

# THE HY-PACK SERIES

## From General Pump



GENERAL PUMP

General Pump is pleased to introduce the "HY-PACK" series of pumps and hydraulic motors. This new family of products showcases our group's expertise by combining efforts from both our water jetting and hydraulic divisions. The end result is a range of compact pump and motor combinations that drastically reduce assembly costs and footprint space. See [www.generalpump.com](http://www.generalpump.com) or contact a sales representative for details.

INDUSTRIAL  
PUMPS

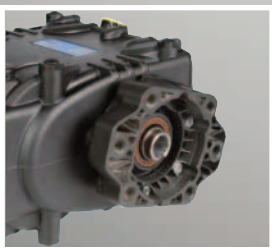


KE - KT - KV  
(25 - 35 HP)

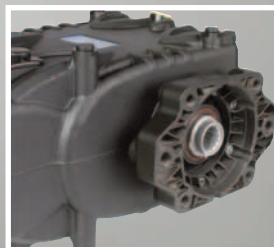
KF - HF - VFH  
KS - HS - VKH  
(50 - 75 HP)

MW - SM  
(100 HP)

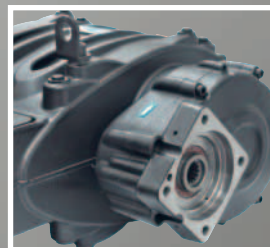
MF - MK - MKS  
(150 - 180 HP)



SAE B 2/4F 13T  
16/32 DP



SAE C 2/4F 14T  
12/24 DP



SAE C 4F 14T  
12/24 DP



SAE C 4F 14T  
12/24 DP

SAE 4F 14T  
12/24DP



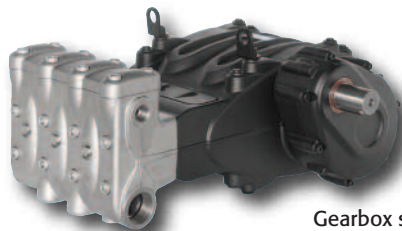
[www.generalpump.com](http://www.generalpump.com)



**Pratissoli**



# INDUSTRIAL PUMPS



## MW/MWS SERIES

Gearbox standard

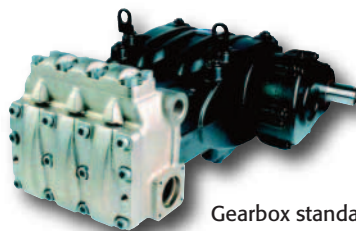
MW/MWS SERIES			
MODEL	GPM	PSI	RPM
MW32A	36.9 GPM	4,350 PSI	1500/1800/2200/2600 RPM
MW36A	45.2 GPM	3,900 PSI	1500/1800/2200/2600 RPM
MWS40A	55.7 GPM	3,050 PSI	1500/1800/2200/2600 RPM
MWS45A	70.5 GPM	2,500 PSI	1500/1800/2200/2600 RPM
MWS50A	87.2 GPM	2,000 PSI	1500/1800/2200/2600 RPM
MWS55A	105.4 GPM	1,450 PSI	1500/1800/2200/2600 RPM

### MW/MWS Series - Features:

- Low-high pressure packing design with integrated cooling system
- Vertically fitted suction/delivery valves
- Splash lubrication
- Gear ratios: 1500 RPM=1.876:1, 1800 RPM=2.238:1, 2200 RPM=2.722:1, 2600 RPM=3.25:1
- Includes drain/priming valve kit
- F2152 kit allows for easy adaptation to MSS mounting pattern
- SAE-C hydraulic shaft/flange option available

### MW/MWS Series - Specifications:

Max. Inlet Pressure.....45 PSI  
 Max. Fluid Temperature.....\*140° F  
 Inlet Port Thread.....See specification sheet  
 Discharge Port Thread.....See specification sheet  
 Shaft Diameter.....1.969"/50 mm  
 Stroke.....2.756"/70 mm  
 Pump Dimensions.....29.5"x23.0"x14.5"  
 Crankcase Oil Capacity.....304.3 oz./9 liters  
 Use GP Series 220 Oil (see page 60)  
 Shipping Weight.....540 lbs.  
 Product Group.....V



## NEW SERIES! MF SERIES

Gearbox standard

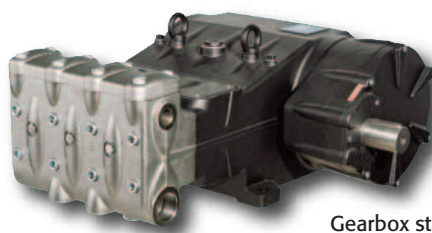
MF SERIES			
MODEL	GPM	PSI	RPM
MF45A	71.0 GPM	2,900 PSI	1500/1800/2200/2600 RPM
MF50A	88.0 GPM	2,500 PSI	1500/1800/2200/2600 RPM
MF55A	106.0 GPM	2,030 PSI	1500/1800/2200/2600 RPM

### MF Series - Features:

- Packings/plungers serviceable without removing manifold
- Splash lubrication
- Gear ratios: 1500 RPM=1.876:1, 1800 RPM=2.238:1, 2200 RPM=2.722:1, 2600 RPM=3.25:1
- Nickel-plated cast iron manifold
- F2152 kit allows for easy adaptation to MSS mounting pattern

### MF Series - Specifications:

Max. Inlet Pressure.....45 PSI  
 Max. Fluid Temperature.....\*140° F  
 Inlet Port Thread.....See specification sheet  
 Discharge Port Thread.....See specification sheet  
 Shaft Diameter.....1.969"/50 mm  
 Stroke.....2.756"/70 mm  
 Pump Dimensions.....29.5"x23.0"x14.5"  
 Crankcase Oil Capacity.....304.3 oz./9 liters  
 Use GP Series 220 Oil (see page 60)  
 Shipping Weight.....573 lbs.  
 Product Group.....V



## MK SERIES

Gearbox standard

MK SERIES			
MODEL	GPM	PSI	RPM
MK40A	40.7 GPM	5,800 PSI	1500/1800 RPM
MK45A	51.3 GPM	4,350 PSI	1500/1800 RPM
MK50A	63.4 GPM	3,600 PSI	1500/1800 RPM
MK55A	76.6 GPM	2,900 PSI	1500/1800 RPM
MK60A	91.4 GPM	2,500 PSI	1500/1800 RPM
MK65A	107.3 GPM	2,175 PSI	1500/1800 RPM

### MK Series - Features:

- Low-high pressure packing design with integrated cooling system
- High volumetric efficient suction/delivery valves
- Splash lubrication
- Gear ratios: 1500 RPM=2.65:1, 1800 RPM=3.29:1
- Includes drain/priming valve kit
- SAE-D hydraulic drive available (w/1500 RPM version only)
- Nickel-plated cast iron manifold

### MK Series - Specifications:

Max. Inlet Pressure.....45 PSI  
 Max. Fluid Temperature.....\*140° F  
 Inlet Port Thread.....See specification sheet  
 Discharge Port Thread.....See specification sheet  
 Shaft Diameter.....2.165"/55 mm  
 Stroke.....2.835"/72 mm  
 Pump Dimensions.....32.64"x29.38"x14.25"  
 Crankcase Oil Capacity.....456.5 oz./13.5 liters  
 Use GP Series 220 Oil (see page 60)  
 Shipping Weight.....833 lbs.  
 Product Group.....V

\* Please consult technical manual or GP Sales Representative for Temperature/Inlet Pressure information

# INDUSTRIAL PUMPS

## MKS Series - Features:

- Low-high pressure packing design with integrated cooling system
- High volumetric efficient suction/delivery valves
- Splash Lubrication
- Gear ratios: 1500 RPM=2.23:1, 1800 RPM=2.65:1, 2200 RPM=3.29:1
- Includes drain/priming valve kit
- SAE-C hydraulic drive available (w/ 2500 RPM version only)
- SAE-D hydraulic drive available (w/ 1800 RPM version only)
- Nickel-plated cast iron manifold

## MKS Series - Specifications:

Max. Inlet Pressure.....45 PSI  
 Max. Fluid Temperature.....\*140° F  
 Inlet Port Thread.....See specification sheet  
 Discharge Port Thread.....See specification sheet  
 Shaft Diameter.....2.165"/55 mm  
 Stroke.....2.835"/72 mm  
 Pump Dimensions.....32.64"x29.38"x14.25"  
 Crankcase Oil Capacity.....456.5 oz./13.5 liters  
 Use GP Series 220 Oil (see page 60)  
 Shipping Weight.....833 lbs.  
 Product Group.....V

## LK Series - Features:

- Drive shaft with double projection
- Double pressure packings
- Splash Lubrication
- Vertically fitted suction/delivery valves
- Includes drain/priming valve kit
- Gear ratios: 1500 RPM=2.95:1, 1750 RPM=3.158:1, 1900 RPM=3.389:1
- Nickel-plated cast iron manifold



ATEX Available

## LK Series - Specifications:

Max. Inlet Pressure.....45 PSI  
 Max. Fluid Temperature.....\*140° F  
 Inlet Port Thread.....See specification sheet  
 Discharge Port Thread.....See specification sheet  
 Shaft Diameter.....1.969"/50 mm  
 Stroke.....3.546"/90 mm  
 Pump Dimensions.....36.4"x26.4"x13.7"  
 Crankcase Oil Capacity.....473.5 oz./14 liters  
 Use GP Series 220 Oil (see page 60)  
 Shipping Weight.....829 lbs.  
 Product Group.....V

## KV Series - Features:

- Patent-pending symmetrical power end featuring top and bottom mounting holes allowing for easy left to right shaft conversion
- Low-high pressure packing design with integrated cooling system
- Horizontally fitted in-line valves
- Splash Lubrication
- SAE-C hydraulic drive options available
- 420 SS manifold

## KV Series - Specifications:

Inlet Pressure.....75-100 PSI  
 Max. Fluid Temperature.....\*86° F  
 Inlet Port Thread.....3/4" BSP-F  
 Discharge Port Thread.....1/2" G Special  
 Shaft Diameter.....1.181"/30 mm  
 Stroke.....0.905"/23 mm  
 Pump Dimensions.....18.2"x14.3"x7.2"  
 Crankcase Oil Capacity.....128.5 oz./3.8 liters  
 Use GP Series 220 Oil (see page 60)  
 Shipping Weight.....88 lbs.  
 Product Group.....V

## MKS SERIES

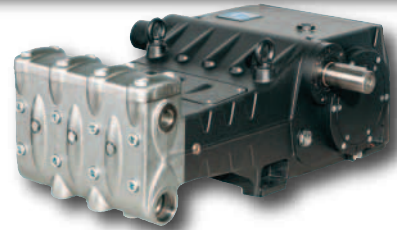


Gearbox standard

MKS50A-65A  
 also available in  
 420 SS manifold  
 (MKSRH50A-65A)

MKS SERIES			
MODEL	GPM	PSI	RPM
MKS40A	48.4 GPM	5,800 PSI	1500/1800/2200 RPM
MKS45A	61.3 GPM	4,350 PSI	1500/1800/2200 RPM
MKS50A	75.8 GPM	3,625 PSI	1500/1800/2200 RPM
MKS55A	91.7 GPM	2,900 PSI	1500/1800/2200 RPM
MKS60A	109.1 GPM	2,465 PSI	1500/1800/2200 RPM
MKS65A	128.2 GPM	2,175 PSI	1500/1800/2200 RPM

## LK SERIES



LK SERIES			
MODEL	GPM	PSI	RPM
LK3615	37.0 GPM	5,800 PSI	1500 RPM
LK3617	40.2 GPM	5,800 PSI	1750 RPM
LK4015	45.7 GPM	5,075 PSI	1500 RPM
LK4017	49.7 GPM	5,075 PSI	1750 RPM
LK4515	57.6 GPM	4,060 PSI	1500 RPM
LK4517	62.9 GPM	4,060 PSI	1750 RPM
LK5015	71.1 GPM	3,335 PSI	1500 RPM
LK5017	77.7 GPM	3,335 PSI	1750 RPM
LK5515	86.1 GPM	2,755 PSI	1500 RPM
LK5517	93.8 GPM	2,755 PSI	1750 RPM
LK6015	102.5 GPM	2,320 PSI	1500 RPM
LK6017	111.8 GPM	2,320 PSI	1750 RPM

## NEW SERIES! KV SERIES



KV SERIES			
MODEL	GPM	PSI	RPM
KV12	4.1 GPM	16,000 PSI	1750 RPM
KV14	5.5 GPM	11,600 PSI	1750 RPM

\* Please consult technical manual or GP Sales Representative for Temperature/Inlet Pressure information

# INDUSTRIAL PUMPS



## VFH SERIES

VF SERIES			
MODEL	GPM	PSI	RPM
VFH12	3.3 GPM	21,750 PSI	750 RPM
	4.0 GPM	17,500 PSI	900 RPM
VFH14	4.5 GPM	16,000 PSI	750 RPM
	6.0 GPM	11,600 PSI	1000 RPM

### VFH Series - Features:

- Patent-pending symmetrical power end featuring top and bottom mounting holes allowing for easy left to right shaft conversion
- Low-high pressure packing design with integrated cooling system
- Horizontally fitted in-line valves
- Splash lubrication
- SAE-C hydraulic drive options available
- 420 SS manifold

### VFH Series - Specifications:

Inlet Pressure .....75-100 PSI  
 Max. Fluid Temperature .....\*86° F  
 Inlet Port Thread.....3/4" BSP-F  
 Discharge Port Thread .....1/2" G Special  
 Shaft Diameter .....1.575"/40 mm  
 Stroke.....1.969"/50 mm  
 Pump Dimensions.....24.0"x15.0"x9.0"  
 Crankcase Oil Capacity.....128.5 oz./3.8 liters  
 Use GP Series 220 Oil (see page 60)  
 Shipping Weight.....150 lbs.  
 Product Group .....V



## VKH SERIES

Shown with optional gearbox

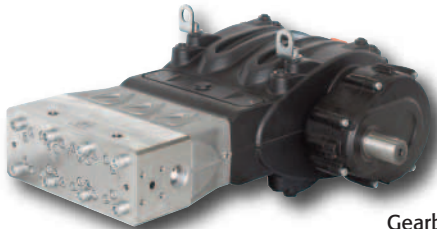
VKH SERIES			
MODEL	GPM	PSI	RPM
VKH12	5.3 GPM	21,750 PSI	1200 RPM
VKH14	7.4 GPM	15,950 PSI	1200 RPM

### VKH Series - Features:

- Low-high pressure packing design with integrated cooling system
- Horizontally fitted in-line valves
- Splash lubrication
- SAE-C hydraulic drive options available
- 420 SS Manifold

### VKH Series - Specifications:

Inlet Pressure .....75-100 PSI  
 Max. Fluid Temperature .....\*86° F  
 Inlet Port Thread.....3/4" BSP-F  
 Discharge Port Thread .....1/2" G Special  
 Shaft Diameter .....1.575"/40 mm  
 Stroke.....1.969"/50 mm  
 Pump Dimensions.....25.39"x14.44"x15.11"  
 Crankcase Oil Capacity.....162.3 oz./4.8 liters  
 Use GP Series 220 Oil (see page 60)  
 Shipping Weight.....212 lbs.  
 Product Group .....V



## SM SERIES

Gearbox standard

SM SERIES			
MODEL	GPM	PSI	RPM
SM14	6.9 GPM	21,750 PSI	1500/1800/2200/2600 RPM
SM16	9.0 GPM	17,400 PSI	1500/1800/2200/2600 RPM
SM18	11.4 GPM	13,050 PSI	1500/1800/2200/2600 RPM
SM20	14.0 GPM	10,875 PSI	1500/1800/2200/2600 RPM
SM22	16.9 GPM	8,700 PSI	1500/1800/2200/2600 RPM
SM24	20.1 GPM	7,250 PSI	1500/1800/2200/2600 RPM

### SM Series - Features:

- Double pressure packings
- Pressure packing integrated cooling system
- Horizontally fitted in-line valves
- Splash lubrication
- SAE-C hydraulic mount available
- Gear ratios: 1500 RPM=1.876:1, 1800 RPM=2.238:1, 2200 RPM=2.722:1, 2600 RPM=3.25:1
- 420 SS manifold

### SM Series - Specifications:

Inlet Pressure .....75-100 PSI  
 Max. Fluid Temperature .....\*86° F  
 Inlet Port Thread.....1-1/2" G  
 Discharge Port Thread.....3/4" HP-Special  
 Shaft Diameter .....1.969"/50 mm  
 Stroke.....2.756"/70 mm  
 Pump Dimensions.....34.6"x23.0"x14.13"  
 Crankcase Oil Capacity.....304 oz./9 liters  
 Use GP Series 220 Oil (see page 60)  
 Shipping Weight.....573 lbs.  
 Product Group .....V

\* Please consult technical manual or GP Sales Representative for Temperature/Inlet Pressure information



# INDUSTRIAL PUMPS

## SK Series - Features:

- Double pressure packings
- Pressure packing integrated cooling system
- Horizontally fitted in-line valves
- Splash lubrication
- Hydraulic drive available
- Gear ratios: 1500 RPM=2.95:1, 1750 RPM=3.389:1
- 420 SS manifold

## SK Series - Specifications:

Inlet Pressure .....75-100 PSI  
 Max Fluid Temperature .....\*86° F  
 Inlet Port Thread.....1-1/2" BSP-F  
 Discharge Port Thread.....3/4" HP-Special  
 Shaft Diameter .....1.969"/50 mm  
 Stroke.....3.546"/90 mm  
 Pump Dimensions .....42.0"x26.4"x13.7"  
 Crankcase Oil Capacity.....473.4 oz./14 liters  
 Use GP Series 220 Oil (see page 60)  
 Shipping Weight.....840 lbs.  
 Product Group .....V

## SK SERIES



SK SERIES			
MODEL	GPM	PSI	RPM
SK2015	11.4 GPM	21,750 PSI	1500 RPM
SK2017	11.6 GPM	21,750 PSI	1750 RPM
SK2215	13.7 GPM	18,850 PSI	1500 RPM
SK2217	14.0 GPM	18,850 PSI	1750 RPM
SK2415	16.4 GPM	15,950 PSI	1500 RPM
SK2417	16.6 GPM	15,950 PSI	1750 RPM
SK2615	19.3 GPM	13,050 PSI	1500 RPM
SK2617	19.6 GPM	13,050 PSI	1750 RPM
SK2815	22.3 GPM	11,600 PSI	1500 RPM
SK2817	22.7 GPM	11,600 PSI	1750 RPM
SK3015	25.4 GPM	10,150 PSI	1500 RPM
SK3017	25.9 GPM	10,150 PSI	1750 RPM

## MUD PUMPS

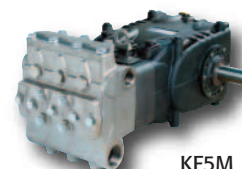
## MUD Series - Features:

- High pressure "MUD" pump
- Specifically designed to pump fluids and muds typical of the drilling industry, up to 200 microns at 20% concentration
- Self cleaning ball valves
- Abrasion resistant packings and valves
- High heat dissipation power end
- Splash lubrication
- Quick servicing of packings (patent pending)
- Auxiliary PTO shaft available as an option
- SAE hydraulic drive options available
- Nickel-plated cast iron manifold

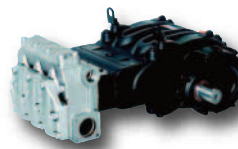
**NEW  
SERIES!**



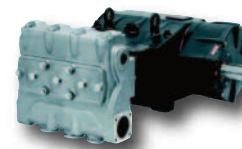
KT45M



KF5M



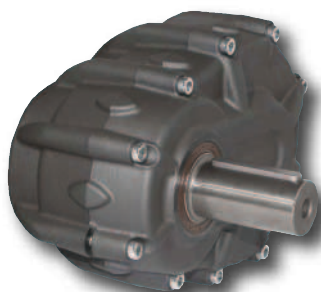
MF7M



MK9M

"M" SERIES			
MODEL	GPM	PSI	RPM
KT45M	19.6 GPM	750 PSI	600 RPM
KF5M5B	46.7 GPM	750 PSI	600 RPM
KF5M9B	46.7 GPM	1,160 PSI	600 RPM
MF7M5B	53.3 GPM	750 PSI	218 RPM
MF7M5D	67.1 GPM	750 PSI	274 RPM
MF7M7B	53.3 GPM	1090 PSI	218 RPM
MF7M7D	67.1 GPM	1090 PSI	274 RPM
MK9M5B	105 GPM	750 PSI	289 RPM
MK9M5D	105 GPM	750 PSI	289 RPM
MK9M8B	105 GPM	1090 PSI	289 RPM
MK9M8D	105 GPM	1090 PSI	289 RPM

## OPTIONAL GEARBOX



OPTIONAL GEARBOX FOR THE KS, KF, HF, HS, VKH, and VFH PUMPS			
PART NUMBER	GEARBOX RATIOS	MINIMUM INPUT SPEED RPM	MAXIMUM INPUT SPEED RPM
F34207301	R=1.25:1	625 RPM	1250 RPM
F34207401	R=1.50:1	750 RPM	1500 RPM
F34207501	R=1.83:1	915 RPM	1830 RPM

# INDUSTRIAL PUMPS



ATEX  
Available

## TR AND SR SERIES



INDUSTRIAL PUMPS

### TR and SR Series - Features:

- Triplex plunger pump
- Up to 236 GPM and 22,000 PSI
- 300 HP or 450 HP
- Can be mounted vertically or horizontally
- Double end crankshaft
- Internal gear reduction
- Forced oil lubrication with integrated cooler, filter and gauge
- Solid ceramic plungers
- Available in three gear ratios (520 internal RPM):  
1500 RPM=2.90:1, 1800 RPM=3.46:1,  
2200 RPM=4.23:1

### TR and SR Series - Materials:

- Cast iron crankcase
- 420 Stainless steel manifold
- Steel alloy crankshaft
- Forged steel connecting rods and connecting bushings
- "R" style packings optional

### TR and SR Series - Specifications:

Inlet Pressure.....	30-70 PSI
Shaft Diameter.....	2.56"/65 mm
TR Stroke.....	5.12"/130 mm
SR Stroke.....	3.54"/90 mm
Pump Dimensions .....	50.0"x41.0"x28.5"
Crankcase Oil Capacity.....	9.24 gal. (vertical) 13.75 gal. (horizontal)
	Use GP Series 220 Oil (see page 60)
Shipping Weight .....	2,436 lbs.
Product Group .....	V

## NEW PRODUCTS

### INDUSTRIAL VALVES - FOR SR/TR SERIES

MODEL	GPM	MAX	INLET	OUTLET	BYPASS	SHP WGHT
<b>Pneumatic Valves:</b>						
PNR4090LP	255 GPM	3,190 PSI	Flanged Block	Flanged Block	2 1/2" BSP - F	81.5 lbs.
PNR4090	220 GPM	5,800 PSI	Flanged Block	Flanged Block	2 1/2" BSP - F	81.5 lbs.
<b>Regulating Valves:</b>						
R4090LP	255 GPM	3,190 PSI	Flanged Block	Flanged Block	2-1/2" BSP-F	81.5 lbs.
R4090	220 GPM	5,800 PSI	Flanged Block	Flanged Block	2-1/2" BSP-F	81.5 lbs.
<b>Safety Relief Valves:</b>						
S4090/200	251 GPM	2,900 PSI	1-1/2" BSP-M	Side	N/A	44.0 lbs.
S4090/300	251 GPM	4,350 PSI	1-1/2" BSP-M	Side	N/A	44.0 lbs.
S4090/400	251 GPM	5,800 PSI	1-1/2" BSP-M	Side	N/A	44.0 lbs.

Product Group: K

TR SERIES			
MODEL	GPM	PSI	RPM
TR26	28.5 GPM	21,750 PSI	1500/1800/2200 RPM
TR30	37.8 GPM	17,400 PSI	1500/1800/2200 RPM
TR32	43.0 GPM	14,500 PSI	1500/1800/2200 RPM
TR36	54.4 GPM	11,600 PSI	1500/1800/2200 RPM
TR50	105.0 GPM	5,800 PSI	1500/1800/2200 RPM
TR55	127.0 GPM	5,075 PSI	1500/1800/2200 RPM
TR60	152.0 GPM	4,350 PSI	1500/1800/2200 RPM
TR65	178.0 GPM	3,625 PSI	1500/1800/2200 RPM
TR70	206.0 GPM	3,190 PSI	1500/1800/2200 RPM
TR75	237.0 GPM	2,900 PSI	1500/1800/2200 RPM

SR SERIES			
MODEL	GPM	PSI	RPM
SR26	19.9 GPM	21,750 PSI	1500/1800/2200 RPM
SR30	26.5 GPM	17,400 PSI	1500/1800/2200 RPM
SR32	29.8 GPM	14,500 PSI	1500/1800/2200 RPM
SR36	37.8 GPM	11,600 PSI	1500/1800/2200 RPM
SR50	73.0 GPM	5,800 PSI	1500/1800/2200 RPM
SR55	88.0 GPM	5,075 PSI	1500/1800/2200 RPM
SR60	105.0 GPM	4,350 PSI	1500/1800/2200 RPM
SR65	123.0 GPM	3,625 PSI	1500/1800/2200 RPM
SR70	143.0 GPM	3,190 PSI	1500/1800/2200 RPM
SR75	164.0 GPM	2,900 PSI	1500/1800/2200 RPM

NEW

NEW

NEW

CONTACT YOUR GENERAL PUMP SALES REPRESENTATIVE  
FOR FURTHER DETAILS

## AGGRESSIVE ENVIRONMENT PUMPS

### WM Series - Features:

- 316 stainless steel fluid end for superior corrosion protection
- Solid ceramic plungers with advanced surface finish assure durability and longevity
- Compact design offers solutions to space limitations
- Parallel inlet and outlet valve design for efficiency and easy maintenance
- Most models available with EPDM sealing option
- Use motor #639610, 2.5 HP, 50/60 Hz for 4.2 GPM version

### WM Series - Specifications:

Max. Inlet Pressure .....50 PSI  
 Max Discharge Pressure .....1500 PSI  
 Max Fluid Temperature .....\*140° F  
 Inlet Port Thread .....1/2" NPT-F / 3/8"-19 NPT-F (WM0515C)  
 Discharge Port Thread .....3/8" NPT-F  
 Shaft Diameter .....5/8" Hollow/24 mm Solid  
 Pump Dimensions .....9.9"x7.5"x6.0"  
 Crankcase Oil Capacity .....12.0 oz./.35 liters  
 Use GP Series 100 Oil (see page 60)  
 Shipping Weight .....13.5 lbs.  
 Product Group .....V

### EWM Series - Features:

- 316 stainless steel fluid end for superior corrosion protection
- Solid ceramic plungers with advanced surface finish assure durability and longevity
- Compact design offers solutions to space limitations
- Nickel-plated crankcase
- 56C mounting flange
- Use motor #639610, 2.5 HP, 50/60 Hz for 4.2 GPM version

### EWM Series - Specifications:

Max. Inlet Pressure .....125 PSI  
 Max Discharge Pressure .....1500 PSI  
 Max Fluid Temperature .....\*185° F  
 Inlet Port Thread .....1.2" NPT-F  
 Discharge Port Thread .....3/8" NPT-F  
 Shaft Diameter .....5/8" Hollow  
 Pump Dimensions .....7.6" x 7.5" x 5.5"  
 Crankcase Oil Capacity .....8.5 oz./.25 liters  
 Use GP Series 100 Oil (see page 60)  
 Shipping Weight .....11.05 lbs.  
 Product Group .....V

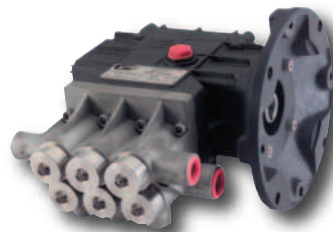
### TX Series 63SS - Features:

- 316 stainless steel fluid end for superior corrosion protection
- Energized special pressure packings
- 316 stainless steel inlet and outlet valves
- Solid ceramic plungers
- Dual Ball Bearings
- Patented "high tech" low and high pressure seals

### TX Series 63SS - Specifications:

Max. Inlet Pressure .....115 PSI  
 Max Fluid Temperature .....\*185° F  
 Inlet Port Thread .....1/2"-14 BSP-F  
 Discharge Port Thread .....3/8"-9 BSP-F  
 Shaft Diameter ......945"/24 mm  
 Pump Dimensions .....8.4"x8.3"x4.8"  
 Crankcase Oil Capacity .....14.0 oz./.41 liters  
 Use GP Series 100 Oil (see page 60)  
 Shipping Weight .....22.3 lbs.  
 Product Group .....V

### WM SERIES



WM SERIES			
MODEL	GPM	PSI	RPM
WM0515C	0.5 GPM	1,500 PSI	1750 RPM
WM0815C	0.8 GPM	1,500 PSI	1750 RPM
WM1015C	1.0 GPM	1,500 PSI	1750 RPM
WM1615C	1.6 GPM	1,500 PSI	1750 RPM
WM1815C	1.8 GPM	1,500 PSI	1750 RPM
WM2315C	2.3 GPM	1,500 PSI	1750 RPM
WM3015C	3.0 GPM	1,500 PSI	1750 RPM
WM3615C	3.6 GPM	1,500 PSI	1750 RPM
WM4215C	4.2 GPM	1,500 PSI	1750 RPM
<b>24 mm Solid Shaft:</b>			
WM1815S	1.8 GPM	1,500 PSI	1750 RPM
WM2515S	2.5 GPM	1,500 PSI	1750 RPM
WM4215S	4.2 GPM	1,500 PSI	1750 RPM

**NEW SERIES!**

### EWM SERIES



WM SERIES			
MODEL	GPM	PSI	RPM
EWM0515C	0.5 GPM	1,500 PSI	1750 RPM
EWM0815C	0.8 GPM	1,500 PSI	1750 RPM
EWM1015C	1.1 GPM	1,500 PSI	1750 RPM
EWM1615C	1.6 GPM	1,500 PSI	1750 RPM
EWM2315C	2.3 GPM	1,500 PSI	1750 RPM
EWM3015C	3.0 GPM	1,500 PSI	1750 RPM
EWM3715C	3.7 GPM	1,500 PSI	1750 RPM
EWM4215C	4.2 GPM	1,500 PSI	1750 RPM
<b>24 mm Solid Shaft:</b>			
EWM2515S	2.5 GPM	1,500 PSI	1750 RPM
EWM4215S	4.2 GPM	1,500 PSI	1750 RPM

### TX SERIES 63SS



TX SERIES 63SS			
MODEL	GPM	PSI	RPM
TX1506S17SS	1.6 GPM	2,200 PSI	1750 RPM
TX1510S17SS	2.1 GPM	2,200 PSI	1750 RPM
TX1512S17SS	2.6 GPM	2,200 PSI	1750 RPM
TX1810S17SS	3.1 GPM	2,000 PSI	1750 RPM
TX1812S17SS	3.8 GPM	2,200 PSI	1750 RPM

\* Please consult technical manual or GP Sales Representative for Temperature/Inlet Pressure information



# INDUSTRIAL PUMPS



**T SERIES 47SS**

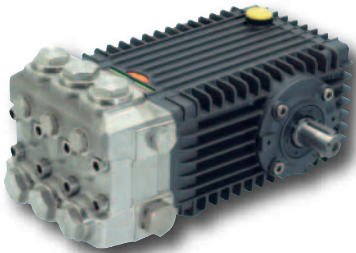
T SERIES 47SS			
MODEL	GPM	PSI	RPM
TS2010SS	3.4 GPM	2,200 PSI	1450 RPM
TS2012SS	4.0 GPM	3,000 PSI	1750 RPM
TS2212SS	4.75 GPM	2,200 PSI	1450 RPM
TS2016SS	5.55 GPM	3,000 PSI	1450 RPM
TS2212SS	5.55 GPM	2,200 PSI	1750 RPM

**T Series 47SS - Features:**

- 316 stainless manifold for superior corrosion protection
- The preferred pump frame in the industry
- Solid ceramic plungers with continuously lubricated packings
- Oversized connecting rods for maximum life
- Patented "high tech" low and high pressure seals

**T Series 47SS - Specifications:**

Max. Inlet Pressure ..... 115 PSI  
 Max Fluid Temperature ..... \*185° F  
 Inlet Port Thread ..... 1/2"-14 BSP-F  
 Discharge Port Thread ..... 3/8"-9 BSP-F  
 Shaft Diameter ..... .945"/24 mm  
 Pump Dimensions ..... 12.4"x9.2"x5.7"  
 Crankcase Oil Capacity ..... 40.6 oz./1.2 liters  
 Use GP Series 100 Oil (see page 60)  
 Shipping Weight ..... 31.0 lbs.  
 Product Group ..... V



**TSF SERIES 66SS**

TSF SERIES 66SS			
MODEL	GPM	PSI	RPM
TSF2019SS	7.5 GPM	3,000 PSI	1750 RPM
TSF2021SS	8.5 GPM	3,000 PSI	1750 RPM
TSF2221SS	10.2 GPM	3,000 PSI	1750 RPM
TSF2421SS	12.0 GPM	3,000 PSI	1750 RPM

**TSF Series 66SS - Features:**

- New plunger design improves thermal shock resistance
- 316 stainless steel wetted parts
- 316 stainless steel manifold
- Stainless steel inlet/outlet valve plugs with improved hydrostatic performance
- Fully anodized crankcase
- Patented "high tech" low and high pressure seals

**TSF Series 66SS - Specifications:**

Max. Inlet Pressure ..... 115 PSI  
 Max. Fluid Temperature ..... \*185° F  
 Inlet Port Thread ..... 3/4"-14 BSP-F  
 Discharge Port Thread ..... 3/8"-19 BSP-F  
 Shaft Diameter ..... .945"/24 mm  
 Pump Dimensions ..... 13.4"x9.83"x6.28"  
 Crankcase Oil Capacity ..... 40.6 oz./1.2 liters  
 Use GP Series 100 Oil (see page 60)  
 Shipping Weight ..... 42 lbs.  
 Product Group ..... V



ATEX Available

**KEZ SERIES**



KEZ SERIES			
MODEL	GPM	PSI	RPM
KEZ20A	8.0 GPM	3,000 PSI	1450 RPM
KEZ22A	10.0 GPM	3,000 PSI	1450 RPM
KEZ24A	11.9 GPM	3,000 PSI	1450 RPM
KEZ28HA	16.1 GPM	2,170 PSI	1450 RPM
KEZ30HA	18.5 GPM	1,880 PSI	1450 RPM
KEZ36HA	26.4 GPM	1,450 PSI	1450 RPM

**KEZ Series - Features:**

- 316 SS fluid end and wetted parts
- Patent-pending symmetrical power end featuring top and bottom mounting holes allowing for easy left to right shaft conversion
- Low-high pressure packing design with integrated cooling system
- High volumetric efficiency suction/delivery valves
- Splash lubrication
- New high performance aluminum alloy connecting rods and a floating wrist pin enables extra load at half the weight, reducing vibrations and off center loads for quieter operation
- Patented "high tech" low and high pressure seals

**KEZ Series - Specifications:**

Max. Inlet Pressure ..... .45 PSI  
 Max. Fluid Temperature ..... \*185° F  
 Inlet Port Thread ..... 1" NPT-F  
 Discharge Port Thread ..... 1/2" NPT-F  
 Shaft Diameter ..... 1.181"/30 mm  
 Stroke ..... 0.9055"/23 mm  
 Pump Dimensions ..... 15.1"x13.4"x7.7"  
 Crankcase Oil Capacity ..... 67.63 oz./2 liters  
 Use GP Series 220 Oil (see page 60)  
 Shipping Weight ..... 88 lbs.  
 Product Group ..... V

\* Please consult technical manual or GP Sales Representative for Temperature/Inlet Pressure information

# INDUSTRIAL PUMPS

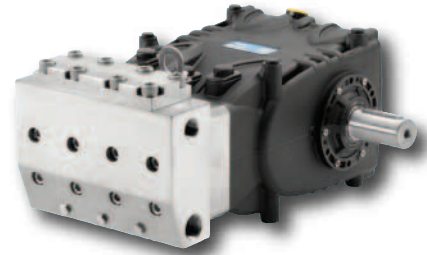
## HFN Series - Features:

- Patent-pending symmetrical power end featuring top and bottom mounting holes allowing for easy left to right shaft conversion
- Low-high pressure packing design with integrated cooling system
- High volumetric efficiency suction/delivery valves
- Splash lubrication
- New high performance aluminum alloy connecting rods and a floating wrist pin enables extra load at half the weight, reducing vibrations and off center loads for quieter operation
- Patented "high tech" low and high pressure seals
- ASTM F51 SS manifold, 1 7/4 PH SS valves

## HFN Series - Specifications:

Max. Inlet Pressure.....45 PSI  
 Max. Fluid Temperature.....\*140° F  
 Inlet Port Thread.....1" NPT-F  
 Discharge Port Thread.....3/4" NPT-F  
 Shaft Diameter.....1.575"/40 mm  
 Stroke.....1.969"/50 mm  
 Pump Dimensions.....20.0"x14.5"x9.4"  
 Crankcase Oil Capacity.....128.5 oz./3.8 liters  
 Use GP Series 220 Oil (see page 60)  
 Shipping Weight.....132 lbs.  
 Product Group.....V

## HFN SERIES



HFN SERIES			
MODEL	GPM	PSI	RPM
HFN25A	19.44 GPM	4,060 PSI	1000 RPM

## KFZ Series - Features:

- 316 SS fluid end and wetted parts
- Patent-pending symmetrical power end featuring top and bottom mounting holes allowing for easy left to right shaft conversion
- Low-high pressure packing design with integrated cooling system
- High volumetric efficiency suction/delivery valves
- Splash lubrication
- New high performance aluminum alloy connecting rods and a floating wrist pin enables extra load at half the weight, reducing vibrations and off center loads for quieter operation

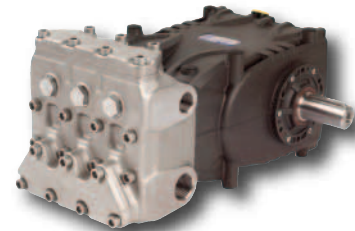
## KFZ Series - Specifications:

Max. Inlet Pressure.....45 PSI  
 Max Fluid Temperature.....185° F  
 Inlet Port Thread.....1-1/2" NPT  
 Discharge Port Thread.....1" NPT  
 Shaft Diameter.....1.574"/40 mm  
 Stroke.....1.969"/50 mm  
 Pump Dimensions.....20.7"x14.5"x9.9"  
 Crankcase Oil Capacity.....128.5 oz./3.8 liters  
 Use GP Series 220 Oil (see page 60)  
 Shipping Weight.....150 lbs.  
 Product Group.....V



ATEX  
Available

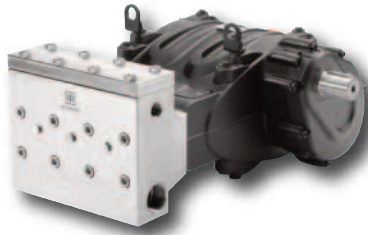
## KFZ SERIES



KFZ SERIES			
MODEL	GPM	PSI	RPM
KFZ28A	24.5 GPM	3,000 PSI	1000 RPM
KFZ30A	28.0 GPM	2,900 PSI	1000 RPM
KFZ36A	32.2 GPM	2,300 PSI	800 RPM
	36.2 GPM	2,050 PSI	900 RPM
KFZ40A	40.0 GPM	1,900 PSI	1000 RPM
	45.0 GPM	1,600 PSI	900 RPM

\* Please consult technical manual or GP Sales Representative for Temperature/Inlet Pressure information

# INDUSTRIAL PUMPS



ATEX Available

## MWN SERIES

MWN SERIES			
MODEL	GPM	PSI	RPM
MWN32A	36.0 GPM	4,350 PSI	1500/1800,2200/2600 RPM
MWN36A	45.4 GPM	3,500 PSI	1500/1800,2200/2600 RPM
MWN40A	56.0 GPM	2,750 PSI	1500/1800,2200/2600 RPM
MWN45A	71.0 GPM	2,250 PSI	1500/1800,2200/2600 RPM
MWN50A	87.5 GPM	1,800 PSI	1500/1800,2200/2600 RPM
MWN55A	106.0 GPM	1,450 PSI	1500/1800,2200/2600 RPM

### MWN Series - Features:

- Low-high pressure packing design with integrated cooling system
- Vertically fitted suction/delivery valves
- Splash lubrication
- Gear ratios: 1500 RPM=1.876:1, 1800 RPM=2.238:1, 2200 RPM=2.722:1, 2600 RPM=3.25:1
- Optional drain/prime valve kit included
- ASTM F51 SS manifold, 17/4 PH SS valves

### MWN Series - Specifications:

Max. Inlet Pressure.....45 PSI  
 Max Fluid Temperature.....140° F  
 Inlet Port Thread.....See specification sheet  
 Discharge Port Thread.....See specification sheet  
 Shaft Diameter.....1.969"/50 mm  
 Stroke.....2.756"/70 mm  
 Pump Dimensions.....29.5"x23.0"x15.5"  
 Crankcase Oil Capacity.....304.35 oz./9 liters  
 Use GP Series 220 Oil (see page 60)  
 Shipping Weight.....540 lbs.  
 Product Group.....V



ATEX Available

## LKN SERIES

LKN SERIES			
MODEL	GPM	PSI	RPM
LKN3615	37.0 GPM	5,800 PSI	1500 RPM
LKN3617	40.1 GPM	5,800 PSI	1750 RPM
LKN4015	45.7 GPM	5,075 PSI	1500 RPM
LKN4017	49.7 GPM	5,075 PSI	1750 RPM
LKN4515	57.6 GPM	4,060 PSI	1500 RPM
LKN4517	62.8 GPM	4,060 PSI	1750 RPM
LKN5015	71.0 GPM	3,335 PSI	1500 RPM
LKN5017	77.6 GPM	3,335 PSI	1750 RPM
LKN5515	86.1 GPM	2,755 PSI	1500 RPM
LKN5517	93.7 GPM	2,755 PSI	1750 RPM
LKN6015	102.4 GPM	2,320 PSI	1500 RPM
LKN6017	111.7 GPM	2,320 PSI	1750 RPM

### LKN Series - Features:

- Low-high pressure packing design with integrated cooling system
- Vertically fitted suction/delivery valves
- Splash lubrication
- Gear ratios: 1500 RPM=2.95:1, 1750 RPM=3.158:1, 1900 RPM=3.389:1
- ASTM F51 SS manifold, 17/4 PH SS valves

### LKN Series - Specifications:

Max. Inlet Pressure.....45 PSI  
 Max. Fluid Temperature.....\*140° F  
 Inlet Port Thread.....See specification sheet  
 Discharge Port Thread.....See specification sheet  
 Shaft Diameter.....1.969"/50 mm  
 Stroke.....2.756"/70 mm  
 Pump Dimensions.....36.8"x26.5"x13.7"  
 Crankcase Oil Capacity.....473.4 oz./14 liters  
 Use GP Series 220 Oil (see page 60)  
 Shipping Weight.....829 lbs.  
 Product Group.....V

\* Please consult technical manual or GP Sales Representative for Temperature/Inlet Pressure information



# INDUSTRIAL ACCESSORIES



RA2L



RA2



ZKX600



YVB16



ZK3608SS



YVRP12029

## Industrial Unloaders

### Product Group: K

INDUSTRIAL UNLOADERS						
MODEL	GPM	RATED	INLET	OUTLET	BYPASS	SHP WGHT
<b>Manual bypass lever and automatic operation</b>						
RA2L	61.0 GPM	3,050 PSI	1" BSP-F	3/4" BSP-F	1-1/4" BSP-F	12.0 lbs.
<b>Automatic only</b>						
RA2	61.0 GPM	3,050 PSI	1" BSP-F	3/4" BSP-F	1-1/4" BSP-F	10.0 lbs.
ZKX600	16.0 GPM	8,700 PSI	1/2" BSP-F	1/2" BSP-F	1/2" BSP-M	17.6 lbs.

INDUSTRIAL UNLOADERS						
MODEL	GPM	MAX	INLET	OUTLET	BYPASS	SHP WGHT
YVB16	21.0 GPM	8,120 PSI	1/2" BSP-F	1/2" BSP-F	1/2" BSP-F	7.6 lbs.
YVB280SS	21.0 GPM	4,500 PSI	1/2" BSP-F	1/2" BSP-F	1/2" BSP-F	2.7 lbs.
YVB4021SS	21.0 GPM	4,500 PSI	1/2" BSP-F	1/2" BSP-F	1/2" BSP-F	2.0 lbs.
ZK3608SS (316 SS)	7.92 GPM	3,600 PSI	3/8" BSP-F	3/8" BSP-F	(2) 3/8" BSP-F	2.3 lbs.
ZK7216SS	16.0 GPM	7,250 PSI	1/2" BSP-F	1/2" BSP-F	(2) 1/2" BSP-F	5.9 lbs.
ZKBH3030	29.0 GPM	3,050 PSI	1/2" BSP-F	1/2" BSP-F	3/4" BSP-F	5.5 lbs.
YVB5121B	21.0 GPM	5,100 PSI	1/2" NPT-F	1/2" NPT-F	1/2" NPT-F	2.4 lbs.
YVRP12029	120.0 GPM	2,900 PSI	(2) 1-1/4" BSP-F	1-1/4" BSP-F	1-1/2" BSP-F	6.5 lbs.



R1/200



R2



R3HP/450



ZKTIMAX



R1503



R1510

## Industrial Regulating Valves

### Product Group: K

INDUSTRIAL REGULATORS						
MODEL	GPM	MAX	INLET	OUTLET	BYPASS	SHP WGHT
R4090LP	255 GPM	3,190 PSI	Flanged Block	Flanged Block	2-1/2" BSP-F	81.5 lbs.
R4090	220 GPM	5,800 PSI	Flanged Block	Flanged Block	2-1/2" BSP-F	81.5 lbs.
YVS7250	21.0 GPM	7,250 PSI	1/2" BSP-F	N/A	3/8" BSP-F	3.2 lbs.
R1/200A	29.0 GPM	2,900 PSI	3/4" NPT-F	N/A	3/4" NPT-F	6.2 lbs.
R1/400A	29.0 GPM	5,800 PSI	3/4" NPT-F	N/A	3/4" NPT-F	6.2 lbs.
R1/600A	18.5 GPM	8,700 PSI	3/4" NPT-F	N/A	3/4" NPT-F	6.2 lbs.
R2	61.0 GPM	3,050 PSI	1" BSP-F	3/4" BSP-F	1-1/4" BSP-F	10.0 lbs.
R3LP/230	132.0 GPM	3,335 PSI	1-1/4" BSP-F	N/A	1-1/4" BSP-F	13.2 lbs.
R3HP/450	90.0 GPM	6,525 PSI	1" BSP-F	N/A	1" BSP-F	13.2 lbs.
R1503	7.9 GPM	21,750 PSI	Flanged Block	1/2" BSP-F	1/2" BSP-M	14.3 lbs.
R1510	26.4 GPM	21,750 PSI	Flanged Block	1/2" BSP-F	3/4" BSP-F	22.0 lbs.
R1520	63.4 GPM	21,750 PSI	Flanged Block	1" BSP-F	1 1/4" BSP-M	22.0 lbs.
<b>Features manual bypass lever and automatic operation:</b>						
R2L	61.0 GPM	3,050 PSI	1" BSP-F	3/4" BSP-F	1-1/4" BSP-F	11.0 lbs.
<b>1.125" I.D. Hose Barb:</b>						
ZKTIMAX	53.0 GPM	870 PSI	3/4" BSP-F	1/2" BSP-F	1" BSP-F	4.5 lbs.

NEW



WMNV14SS



WMR15SS



ZKSX1



R1X



RX3



YVS280SS



YU2122SS

## Industrial Regulating Valves Stainless Steel

### Product Group: K

STAINLESS STEEL INDUSTRIAL REGULATING VALVES						
MODEL	GPM	MAX	INLET	OUTLET	BYPASS	SHP WGHT
R1X/200A	29.0 GPM	2,900 PSI	3/4" NPT-F	N/A	3/4" NPT-F	6.2 lbs.
R1X/400A	29.0 GPM	5,800 PSI	3/4" NPT-F	N/A	3/4" NPT-F	6.2 lbs.
R1X/600A	18.5 GPM	8,700 PSI	3/4" NPT-F	N/A	3/4" NPT-F	6.2 lbs.
RX3/100	120.0 GPM	1,450 PSI	1" BSP-F	3/4" BSP-F	1-1/4" BSP-F	11.0 lbs.
RX3/300	132.0 GPM	4,350 PSI	1" BSP-F	3/4" BSP-F	1-1/4" BSP-F	11.2 lbs.
<b>316 Stainless Steel:</b>						
WMR15SS	5.5 GPM	1,500 PSI	3/8" NPT-F	3/8" NPT-F	N/A	1.0 lbs.
WMNV14SS	5.0 GPM	4,000 PSI	1/4" NPT-F	1/4" NPT-F	90 Deg. Flow Path	0.6 lbs.
YVS23SS	5.3 GPM	2,300 PSI	(2) 1/4" BSP-F	1/4" BSP-F	N/A	1.0 lbs.
ZKSX1	16.0 GPM	3,600 PSI	1/2" BSP-F	N/A	1/2" BSP-F	2.3 lbs.
YVS280SS	21.0 GPM	4,500 PSI	1/2" BSP-F	1/2" BSP-F	1/2" BSP-F	2.7 lbs.
YU2122SS	21.0 GPM	2,200 PSI	1/2" NPT	1/2" NPT	1/2" NPT	3.1 lbs.

NEW

# INDUSTRIAL ACCESSORIES

## Industrial Safety Relief Valves



SV2



S723



SX3

Product Group: K

INDUSTRIAL ACCESSORIES

INDUSTRIAL SAFETY RELIEF VALVES						
MODEL	GPM	MAX	INLET	DISCHARGE	SHP WGHT	
S723/100	60.8 GPM	1,450 PSI	1/2" BSP-M	Side	3.8 lbs.	
S723/200	60.8 GPM	2,900 PSI	1/2" BSP-M	Side	3.8 lbs.	
S723/300	60.8 GPM	4,350 PSI	1/2" BSP-M	Side	3.8 lbs.	
S723/400	60.8 GPM	5,800 PSI	1/2" BSP-M	Side	3.8 lbs.	
S723/500	60.8 GPM	7,250 PSI	1/2" BSP-M	Side	3.8 lbs.	
S723/600	60.8 GPM	8,700 PSI	1/2" BSP-M	Side	3.8 lbs.	
S723/700	60.8 GPM	10,150 PSI	1/2" BSP-M	Side	3.8 lbs.	
S1520/800	63.7 GPM	11,600 PSI	1" BSP - M	Side	17.7 lbs.	
S1520/1000	63.7 GPM	14,500 PSI	1" BSP - M	Side	17.7 lbs.	
S1520/1200	63.7 GPM	17,400 PSI	1" BSP - M	Side	17.7 lbs.	
S1520/1500	63.7 GPM	21,750 PSI	1" BSP - M	Side	17.7 lbs.	
S455/100	132.0 GPM	1,450 PSI	3/4" BSP-M	36 mm Hose Barb	11.7 lbs.	
S455/200	132.0 GPM	2,900 PSI	3/4" BSP-M	36 mm Hose Barb	11.7 lbs.	
S455/300	132.0 GPM	4,350 PSI	3/4" BSP-M	36 mm Hose Barb	11.7 lbs.	
S455/400	132.0 GPM	5,800 PSI	3/4" BSP-M	36 mm Hose Barb	11.7 lbs.	
S455/450	132.0 GPM	6,525 PSI	3/4" BSP-M	36 mm Hose Barb	11.7 lbs.	
S4090/200	251 GPM	2,900 PSI	1-1/2" BSP-M	Side	44.0 lbs.	
S4090/300	251 GPM	4,350 PSI	1-1/2" BSP-M	Side	44.0 lbs.	
S4090/400	251 GPM	5,800 PSI	1-1/2" BSP-M	Side	44.0 lbs.	
SV12/800	26.4 GPM	11,600 PSI	1/2" BSP-M	Bottom	2.5 lbs.	
SV12/1000	26.4 GPM	14,500 PSI	1/2" BSP-M	Bottom	2.5 lbs.	
SV12/1100	26.4 GPM	15,950 PSI	1/2" BSP-M	Bottom	2.5 lbs.	
SV12/1250	26.4 GPM	18,125 PSI	1/2" BSP-M	Bottom	2.5 lbs.	
SV12/1500	26.4 GPM	21,750 PSI	1/2" BSP-M	Bottom	2.5 lbs.	
<b>Stainless Steel:</b>						
YVS23SS	5.3 GPM	2,300 PSI	1/4" BSP-F	1/4" BSP-F	0.5 lbs.	
SX2/100	50.0 GPM	1,450 PSI	1/2" BSP-M	Bottom	2.5 lbs.	
SX2/200	50.0 GPM	2,900 PSI	1/2" BSP-M	Bottom	2.5 lbs.	
SX2/300	50.0 GPM	4,350 PSI	1/2" BSP-M	Bottom	2.5 lbs.	
SX2/400	50.0 GPM	5,800 PSI	1/2" BSP-M	Bottom	2.5 lbs.	
SX2/500	50.0 GPM	7,250 PSI	1/2" BSP-M	Bottom	2.5 lbs.	
SX3/200	132.0 GPM	2,900 PSI	3/4" NPT-F	Bottom	2.5 lbs.	
SX3/300	132.0 GPM	4350 PSI	3/4" NPT-F	Bottom	2.5 lbs.	

## Industrial Safety Valves



S1503



S1510

Product Group: K

INDUSTRIAL SAFETY VALVES						
MODEL	GPM	MIN	SETTING PRESSURE	*INLET	OUTLET	SHP WGHT
S1503/700	2.6 to 7.9 GPM	10,150 PSI	10,150 PSI	1/2" BSP-M	14 mm Hose Barb	2.2 lbs.
S1503/800	2.6 to 7.9 GPM	10,150 PSI	11,600 PSI	1/2" BSP-M	14 mm Hose Barb	2.2 lbs.
S1503/1000	2.6 to 7.9 GPM	10,150 PSI	14,500 PSI	1/2" BSP-M	14 mm Hose Barb	2.2 lbs.
S1503/1100	2.6 to 7.9 GPM	10,150 PSI	15,950 PSI	1/2" BSP-M	14 mm Hose Barb	2.2 lbs.
S1503/1200	2.6 to 7.9 GPM	10,150 PSI	17,500 PSI	1/2" BSP-M	14 mm Hose Barb	2.2 lbs.
S1503/1400	2.6 to 7.9 GPM	10,150 PSI	20,300 PSI	1/2" BSP-M	14 mm Hose Barb	2.2 lbs.
S1503/1600	2.6 to 7.9 GPM	10,150 PSI	23,200 PSI	1/2" BSP-M	14 mm Hose Barb	2.2 lbs.
S1503/1800	2.6 to 7.9 GPM	10,150 PSI	26,100 PSI	1/2" BSP-M	14 mm Hose Barb	2.2 lbs.
S1510/800	5.2 to 26.4 GPM	6,960 PSI	11,600 PSI	1/2" BSP-M	25 mm Hose Barb	6.0 lbs.
S1510/1000	5.2 to 26.4 GPM	6,960 PSI	14,500 PSI	1/2" BSP-M	25 mm Hose Barb	6.0 lbs.
S1510/1100	5.2 to 26.4 GPM	6,960 PSI	15,950 PSI	1/2" BSP-M	25 mm Hose Barb	6.0 lbs.
S1510/1250	5.2 to 26.4 GPM	6,960 PSI	18,125 PSI	1/2" BSP-M	25 mm Hose Barb	6.0 lbs.
S1510/1500	5.2 to 26.4 GPM	6,960 PSI	21,750 PSI	1/2" BSP-M	25 mm Hose Barb	6.0 lbs.
S1510/1800	5.2 to 26.4 GPM	6,960 PSI	26,100 PSI	1/2" BSP-M	25 mm Hose Barb	6.0 lbs.

\*Please note these valves are only for use with VFH, VKH, SM and SK Series Pumps and require use of conical seal 680086.

# INDUSTRIAL ACCESSORIES



YRVPP26SS



FPN12

## Industrial Pneumatic Valves

Product Group: K

INDUSTRIAL PNEUMATIC VALVES						
MODEL	GPM	MAX	INLET	OUTLET	BYPASS	SHP WGHT
PNR/1503	7.9 GPM	21,750 PSI	Flanged/Block	1/2" BSP - F	1/2" BSP - F	13.2 lbs.
YRVPP26SS	21.0 GPM	4,500 PSI	1/2" BSP-F	1/2" BSP-F	1/2" BSP-F	8.2 lbs.
PNRA2	61.0 GPM	3,050 PSI	1" BSP-F	3/4" BSP-F	1-1/4" BSP-M	11.0 lbs.
PNR2	61.0 GPM	3,050 PSI	1" BSP-F	3/4" BSP-F	1-1/4" BSP-M	11.0 lbs.
PN2	61.0 GPM	7,250 PSI	1-1/2" BSP-F	1-1/2" BSP-M	1-1/2" BSP-M	55.0 lbs.
PNR1520	63.4 GPM	21,750 PSI	Flanged Block	1" BSP - F	1 1/4" BSP - F	30.8 lbs.
PN4/200	132.0 GPM	2,900 PSI	1-1/2" BSP-F	1-1/2" BSP-F	1-1/2" BSP-F	35.3 lbs.
PN4/300	103.0 GPM	4,300 PSI	1-1/2" BSP-F	1-1/2" BSP-F	1-1/2" BSP-F	35.3 lbs.
PN4/450	68.7 GPM	6,530 PSI	1" BSP-F	1" BSP-F	1-1/4" BSP-F	35.3 lbs.
PN/VU2	61.0 GPM	3,050 PSI	1" BSP-F	3/4" BSP-F	1-1/4" BSP-M	17.5 lbs.
FPN12	21.0 GPM	21,750 PSI	3/8" BSP-F	3/8" BSP-F	3/8" BSP-F	55.3 lbs.
<b>Features No Check Valve:</b>						
PN4/200NCV	132 GPM	2,900 PSI	1-1/2" BSP-F	1-1/2" BSP-F	1-1/2" BSP-F	35.3 lbs.
PN4/300NCV	103 GPM	4,350 PSI	1-1/2" BSP-F	1-1/2" BSP-F	1-1/2" BSP-F	35.3 lbs.
PN4/450NCV	68.7 GPM	6,530 PSI	1" BSP-F	1" BSP-F	1-1/4" BSP-F	35.3 lbs.



100315

## Jetter Valves For Use in Sewer Cleaning Applications

Product Group: K

JETTER VALVES		
MODEL	DESCRIPTION	SHP WGHT
100315	Use with TT and TC Pumps (Replaces Valve Cap)	0.5 lbs.
100316	Use with EZ, EP, ES/ESN Pumps (Replaces Valve Cap)	0.5 lbs.
100317	Use with 47 Series Pumps (Replaces Valve Cap, Coarse Thread)	0.5 lbs.
100072	Use with 47 Series Pumps (Replaces Valve Cap, Fine Thread)	0.5 lbs.
101065	Use with ET Series Pumps (Replaces Valve Cap)	0.5 lbs.



UD1

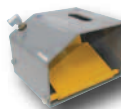
## Industrial Check Valve

Product Group: K

INDUSTRIAL CHECK VALVES						
MODEL	GPM	RATED	MAX	INLET	OUTLET	SHP WGHT
UD1	48.0 GPM	75 PSI	2,900 PSI	3/4" BSP-M	3/4" BSP-M	1.5 lbs.



VP12



DFV5012

## Industrial Foot Valve

Product Group: K

INDUSTRIAL FOOT VALVES						
MODEL	GPM	MAX	INLET	OUTLET	BYPASS	SHP WGHT
VP12	21.0 GPM	21,750 PSI	3/8" BSP-F	3/8" BSP-F	3/8" BSP-F	22.5 lbs.
DFV5010	10.0 GPM	5,000 PSI	3/8" NPT-F	1/4" NPT-F	N/A	12.0 lbs.



A4X

## Industrial Pulsation Dampeners

Product Group: K

INDUSTRIAL PULSATION DAMPENERS						
MODEL	MATERIAL	GPM	RATED	INLET	SHP WGHT	
A4X *	316 Stainless Steel	16.0 GPM	3,050 PSI	1/2" BSP-M	7.0	
A7*	Forged Steel	43.0 GPM	3,050 PSI	1/2" BSP-M	7.0	
A7S*	Forged Steel	43.0 GPM	4,750 PSI	3/4" BSP-M	12.0	
A7X*	316 Stainless Steel	43.0 GPM	2,150 PSI	3/4" BSP-M	8.5	
A15*	Forged Steel	105.6 GPM	4,750 PSI	3/4" BSP-M	15.0	
A15X*	316 Stainless Steel	105.6 GPM	2,150 PSI	3/4" BSP-M	15.0	

\*190417 Recharge and Fitting (100038 recharge kit, 680135 fitting)



# INDUSTRIAL ACCESSORIES

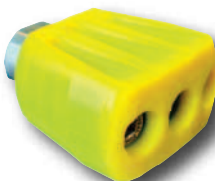
## HOSE REEL ATTACHMENT



### SEWER JETTING HOSE REEL ATTACHMENT

MODEL	DESCRIPTION	TEMP	MAX	PALLET QTY
2100358	Sewer jetting hose reel attachment - attaches to any hose reel - includes ball valve, 1/4" inlet/outlet gauge and 3 sewer jet nozzles	185° F	5,000 PSI	N/A

## HYDRO EXCAVATING NOZZLE



**NEW PRODUCT!**

HXNOZ

- STANDARD 1/2" NPT CONNECTION (FEMALE)
- HIGH IMPACT - 0 DEGREE NOZZLES (THREE)
- URETHANE COATED FOR DURABILITY AND OPERATOR PROTECTION
- STAINLESS STEEL BODY
- HARDENED STAINLESS NOZZLE INSERTS FOR LONG LIFE
- EASILY CHANGE WORN NOZZLES
- DIMENSIONS: 1-3/4" LONG X 2-1/4" WIDE
- FLOW TO 30 GPM, PRESSURE TO 4,000 PSI
- MULTIPLE COLOR OPTIONS AVAILABLE (with volume purchase)

Product Group:

### TRIPLE-STREAM HYDRO EXCAVATING NOZZLE

MODEL	NOZZLE 1	NOZZLE 2	NOZZLE 3	NOZZLE EQUIVALENT	FLOW - GPM						
					1000 PSI	1500 PSI	2000 PSI	2500 PSI	3000 PSI	3500 PSI	4000 PSI
<b>HXNOZ</b>											
HX212	900020SH	900010SH	900020SH	#5.0	2.50 GPM	3.06 GPM	3.54 GPM	3.95 GPM	4.33 GPM	4.68 GPM	5.00 GPM
HX222	900020SH	900020SH	900020SH	#6.0	3.00 GPM	3.67 GPM	4.24 GPM	4.74 GPM	5.20 GPM	5.61 GPM	6.00 GPM
HX232	900020SH	900030SH	900020SH	#7.0	3.50 GPM	4.29 GPM	4.95 GPM	5.53 GPM	6.06 GPM	6.55 GPM	7.00 GPM
HX323	900030SH	900020SH	900030SH	#8.0	4.00 GPM	4.90 GPM	5.66 GPM	6.32 GPM	6.93 GPM	7.48 GPM	8.00 GPM
HX333	900030SH	900030SH	900030SH	#9.0	4.50 GPM	5.51 GPM	6.36 GPM	7.12 GPM	7.79 GPM	8.42 GPM	9.00 GPM
HX343	900030SH	900040SH	900030SH	#10.0	5.00 GPM	6.12 GPM	7.07 GPM	7.91 GPM	8.66 GPM	9.35 GPM	10.00 GPM
HX434	900040SH	900030SH	900040SH	#11.0	5.50 GPM	6.74 GPM	7.78 GPM	8.70 GPM	9.53 GPM	10.29 GPM	11.00 GPM
HX444	900040SH	900040SH	900040SH	#12.0	6.00 GPM	7.35 GPM	8.49 GPM	9.49 GPM	10.39 GPM	11.22 GPM	12.00 GPM
HX454	900040SH	900050SH	900040SH	#13.0	6.50 GPM	7.96 GPM	9.19 GPM	10.28 GPM	11.26 GPM	12.16 GPM	13.00 GPM
HX545	900050SH	900040SH	900050SH	#14.0	7.00 GPM	8.57 GPM	9.90 GPM	11.07 GPM	12.12 GPM	13.10 GPM	14.00 GPM
HX555	900050SH	900050SH	900050SH	#15.0	7.50 GPM	9.19 GPM	10.61 GPM	11.86 GPM	12.99 GPM	14.03 GPM	15.00 GPM
HX565	900050SH	900060SH	900050SH	#16.0	8.00 GPM	9.80 GPM	11.31 GPM	12.65 GPM	13.86 GPM	14.97 GPM	16.00 GPM
HX656	900060SH	900050SH	900060SH	#17.0	8.50 GPM	10.41 GPM	12.02 GPM	13.44 GPM	14.72 GPM	15.90 GPM	17.00 GPM
HX666	900060SH	900060SH	900060SH	#18.0	9.00 GPM	11.02 GPM	12.73 GPM	14.23 GPM	15.59 GPM	16.84 GPM	18.00 GPM
HX676	900060SH	900070SH	900060SH	#19.0	9.50 GPM	11.64 GPM	13.44 GPM	15.02 GPM	16.45 GPM	17.77 GPM	19.00 GPM
HX767	900070SH	900060SH	900070SH	#20.0	10.00 GPM	12.25 GPM	14.14 GPM	15.81 GPM	17.32 GPM	18.71 GPM	20.00 GPM
HX777	900070SH	900070SH	900070SH	#21.0	10.50 GPM	12.86 GPM	14.85 GPM	16.60 GPM	18.19 GPM	19.64 GPM	21.00 GPM
HX787	900070SH	900080SH	900070SH	#22.0	11.00 GPM	13.47 GPM	15.56 GPM	17.39 GPM	19.05 GPM	20.58 GPM	22.00 GPM
HX878	900080SH	900070SH	900080SH	#23.0	11.50 GPM	14.08 GPM	16.26 GPM	18.18 GPM	19.92 GPM	21.51 GPM	23.00 GPM
HX888	900080SH	900080SH	900080SH	#24.0	12.00 GPM	14.70 GPM	16.97 GPM	18.97 GPM	20.78 GPM	22.45 GPM	24.00 GPM
HX898	900080SH	900090SH	900080SH	#25.0	12.50 GPM	15.31 GPM	17.68 GPM	19.76 GPM	21.65 GPM	23.39 GPM	25.00 GPM
HX989	900090SH	900080SH	900090SH	#26.0	13.00 GPM	15.92 GPM	18.38 GPM	20.55 GPM	22.52 GPM	24.32 GPM	26.00 GPM
HX999	900090SH	900090SH	900090SH	#27.0	13.50 GPM	16.53 GPM	19.09 GPM	21.35 GPM	23.38 GPM	25.26 GPM	27.00 GPM
HX9109	900090SH	900100SH	900090SH	#28.0	14.00 GPM	17.15 GPM	19.80 GPM	22.14 GPM	24.25 GPM	26.19 GPM	28.00 GPM
HX10910	900100SH	900090SH	900100SH	#29.0	14.50 GPM	17.75 GPM	20.51 GPM	22.93 GPM	25.11 GPM	27.13 GPM	29.00 GPM
HX101010	900100SH	900100SH	900100SH	#30.0	15.00 GPM	18.37 GPM	21.21 GPM	23.72 GPM	25.98 GPM	28.06 GPM	30.00 GPM

# INDUSTRIAL ACCESSORIES



DCG5010HE  
Product Group: K



ZP87SSL29S



P12



YG7221



YG7207

## Industrial Spray Guns

### INDUSTRIAL SPRAY GUNS

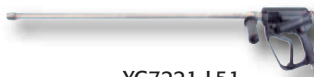
MODEL	DESCRIPTION	GPM	MAX	SHW WT
ZP87SS	Stainless Steel Professional Gun	15.85 GPM	8,700 PSI	3.5 lbs.
ZP87SSL29	Stainless Steel Gun with 29" Lance	15.85 GPM	8,700 PSI	4.9 lbs.
ZP87SSL39	Stainless Steel Gun with 39" Lance	15.85 GPM	8,700 PSI	6.1 lbs.
ZP87SSL29S	Stainless Steel Gun with 29" Lance and Shoulder Support	15.85 GPM	8,700 PSI	5.6 lbs.
ZP87SSL39S	Stainless Steel Gun with 39" Lance and Shoulder Support	15.85 GPM	8,700 PSI	7.2 lbs.

### INDUSTRIAL SPRAY GUNS

NEW  
NEW

MODEL	DESCRIPTION	GPM	MAX	INLET	SHW WT
YG7207	Rear Entry Spray Gun	7.5 GPM	8,000 PSI	3/8" NPT-F	1.6 lbs.
DCG5010HE	Excavating Spray Gun	10.5 GPM	10,000 PSI	3/8" NPT-F	1.4 lbs.
ZP15A	Gun with 29" Lance	10.6 GPM	22,000 PSI	Special	12.5 lbs.
ZP15AL10	Gun with 39" Lance	10.6 GPM	22,000 PSI	Special	12.0 lbs.
PS12	Submersible Dump Gun	21.0 GPM	21,750 PSI	1/2" BSP-F	12.5 lbs.
YG7221	Rear Entry Gun	21.0 GPM	7,250 PSI	1/2" BSP-F	5.0 lbs.
101002	YG7207 Spray Gun, with 36" Stainless Steel Lance	7.5 GPM	8,000 PSI	3/8" NPT-F	2.6 lbs.
YG2527S	Industrial Spray Gun, Straight	27.0 GPM	2,500 PSI	1/2" NPT-F	2.8 lbs.
YG4032S	Industrial Spray Gun, Straight	32.0 GPM	4,050 PSI	1/2" NPT-F	2.8 lbs.
YG23LA27	Gun, 27" Adjustable Lance, 2.3 mm Nozzle	21.0 GPM	2,000 PSI	1/2" BSP-F	3.8 lbs.
YG34LA27	Gun, 27" Adjustable Lance, 3.5 mm Nozzle	21.0 GPM	2,000 PSI	1/2" BSP-F	3.8 lbs.
YG29LA31	Gun, 31.5" Adjustable Lance, 1.5 mm Nozzle	8.0 GPM	3,000 PSI	3/8" BSP - F	3.7 lbs.

NEW



YG7221-L51

## Industrial Spray Guns

Product Group: K

### INDUSTRIAL SPRAY GUNS WITH LANCE AND SIDE GRIPS

MODEL	DESCRIPTION	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHW WT
YG7221-L31	31" Lance	21.0 GPM	7,250 PSI	8,100 PSI	1/2" BSP-F	1/2" BSP-M	210° F	7.0 lbs.
YG7221-L51	48" Lance	21.0 GPM	7,250 PSI	8,100 PSI	1/2" BSP-F	1/2" BSP-M	210° F	7.0 lbs.

Product Group: I

### 304 STAINLESS STEEL LANCES

MODEL	LENGTH	GPM	RATED	MAX	INLET	OUTLET	SHW WT	BOX QTY
680267	36"	32.0 GPM	4,000 PSI	4,000 PSI	1/2" NPT-M	1/2" NPT-M	3.0 lbs.	N/A
680268	48"	32.0 GPM	4,000 PSI	4,000 PSI	1/2" NPT-M	1/2" NPT-M	4.0 lbs.	N/A
680269	60"	32.0 GPM	4,000 PSI	4,000 PSI	1/2" NPT-M	1/2" NPT-M	5.0 lbs.	N/A
680270	72"	32.0 GPM	4,000 PSI	4,000 PSI	1/2" NPT-M	1/2" NPT-M	6.0 lbs.	N/A
680358	96"	32.0 GPM	4,000 PSI	4,000 PSI	1/2" NPT-M	1/2" NPT-M	8.0 lbs.	N/A



Y5K100



YRT8720



ZRMAX112

## Industrial Rotating Nozzles

Product Group: K

### INDUSTRIAL ROTATING NOZZLES

MODEL	NOZZLE	MAX	INLET	MAX TEMP	SHW WT
Y5K100	#10	5,000 PSI	1/4" BSP-F	194° F	1.75 lbs.
Y5K120	#12	5,000 PSI	1/4" BSP-F	194° F	1.75 lbs.
Y5K150	#15	5,000 PSI	1/4" BSP-F	194° F	1.75 lbs.
Y5K200	#20	5,000 PSI	1/4" BSP-F	194° F	1.75 lbs.

### INDUSTRIAL TUNGSTEN CARBIDE ROTATING NOZZLES

MODEL	NOZZLE	MIN	MAX	INLET	MAX TEMP	SHW WT
YRT87K20	#02	2,600 PSI	8,700 PSI	1/4" BSP-F	194° F	1.2 lbs.
YRT87K30	#03	2,600 PSI	8,700 PSI	1/4" BSP-F	194° F	1.2 lbs.
YRT87K40	#04	2,600 PSI	8,700 PSI	1/4" BSP-F	194° F	1.2 lbs.
YRT87K50	#05	2,600 PSI	8,700 PSI	1/4" BSP-F	194° F	1.2 lbs.
YRT87K60	#06	2,600 PSI	8,700 PSI	1/4" BSP-F	194° F	1.2 lbs.
YRT87K70	#07	2,600 PSI	8,700 PSI	1/4" BSP-F	194° F	1.2 lbs.
YRT87K80	#08	2,600 PSI	8,700 PSI	1/4" BSP-F	194° F	1.2 lbs.

### INDUSTRIAL ROTATING NOZZLES

MODEL	ORIFICE	GPM	MAX	INLET	MAX TEMP	SHW WT
ZRMAX112	1.10	2.02 to 4.74 GPM	11,000 PSI	3/8" BSP-F	176° F	2.2 lbs.
ZRMAX113	1.35	3.32 to 7.78 GPM	11,000 PSI	3/8" BSP-F	176° F	2.2 lbs.
ZRMAX114	1.55	4.44 to 10.40 GPM	11,000 PSI	3/8" BSP-F	176° F	2.2 lbs.
ZRMAX115	1.80	5.71 to 13.39 GPM	11,000 PSI	3/8" BSP-F	176° F	2.2 lbs.

# INDUSTRIAL ACCESSORIES

## Industrial Rotating Nozzles Titanium Seat



ZRMAX2220

Product Group: K

INDUSTRIAL ROTATING NOZZLES - TITANIUM SEAT						
MODEL	ORIFICE	GPM	INLET	OUTLET	MAX TEMP	SHP WGHT
ZRMAX2220	.9	1.4 to 4.7 GPM	22,000 PSI	M14 x 1/2"	140° F	2.64 lbs.
ZRMAX2225	1.0	1.8 to 6.0 GPM	22,000 PSI	M14 x 1/2"	140° F	2.64 lbs.
ZRMAX2231	1.1	2.2 to 7.3 GPM	22,000 PSI	M14 x 1/2"	140° F	2.64 lbs.
ZRMAX2245	1.2	2.6 to 8.6 GPM	22,000 PSI	M14 x 1/2"	140° F	2.64 lbs.
ZRMAX2259	1.35	3.4 to 11.2 GPM	22,000 PSI	M14 x 1/2"	140° F	2.64 lbs.

## Industrial Filters



F30

Product Group: K

INDUSTRIAL FILTERS							
MODEL	DESCRIPTION	GPM	PSI	MESH/MICRON	INLET	OUTLET	SHP WGHT
F50/80	Stainless Steel, Two-stage	10.5 GPM	145 PSI	70/10 Mesh	1" BSP-F	1" BSP-F	12.0 lbs.
F10	Aluminum	15.8 GPM	435 PSI	60/250	1-1/2" BSP-F	1-1/2" BSP-F	3.5 lbs.
F60	Stainless Steel, Two-stage	52.0 GPM	145 PSI	70/25 Mesh	2" BSP-F	2" BSP-M	33.0 lbs.
F20	Aluminum	53.0 GPM	145 PSI	60/250	2" BSP-F	2" BSP-F	13.0 lbs.
F30	Plastic	53.0 GPM	116 PSI	50/297	2" BSP-M	2" BSP-M	3.8 lbs.
F40	Plastic	120.0 GPM	116 PSI	50/297	3" BSP-M	3" BSP-M	6.6 lbs.
639273	Plastic	55.0 GPM	150 PSI	50/297	2" NPT-F	2" NPT-F	4.0 lbs.
639276	Plastic	125.0 GPM	150 PSI	50/297	3" NPT-F	3" NPT-F	7.0 lbs.

## Flow Switches



101068



101069

Product Group: D

INDUSTRIAL FLOW SWITCHES							
PART NUMBER	GPM	RATED PRESSURE	MAX PRESSURE	MAX TEMP	INLET	OUTLET	SHP WGHT
<b>5 Amp, 250 Volts, New High Flow Flow Switch, 4 gpm minimum activation, 12" 18 AWG LEAD:</b>							
101068	10.0 GPM		4,000 PSI	180° F	1/2" NPT- F	1/2" NPT- F	1.9 lbs.
	25.0 GPM		3,000 PSI	180° F	1/2" NPT- F	1/2" NPT- F	1.9 lbs.
<b>With Weatherpack connector:</b>							
101069	10.0 GPM		4,000 PSI	180° F	1/2" NPT- F	1/2" NPT- F	1.9 lbs.
	25.0 GPM		3,000 PSI	180° F	1/2" NPT- F	1/2" NPT- F	1.9 lbs.

## Industrial Accessories



190601

Product Group: J

INDUSTRIAL ACCESSORIES	
MODEL	DESCRIPTION
680094	Belt Tension Slide Plate, Rated for 40 Horsepower
680095	Priming/Drain Valve Kit for MS,/MW Series Pumps (includes 3 valves)
680096	Priming/Drain Valve Kit for LH/MK/MKS Series Pumps (includes 3 valves)
190600	Cylinder Prime Drain Valve Kit for MS/MW Series Pumps (includes 3 valves)
190601	Cylinder Prime Drain Valve Kit for MS/MW Series Pumps (single valve)



## Tank Cleaning Nozzles



Y25450000



Y25460000



Y25459000



Y25430060



Y25438060



Y25482000

Product Group: K

TANK CLEANING NOZZLES					
MODEL	DESCRIPTION	GPM	MAX	SHP WGHT	
Y25450000	M63 for Small Openings, 24V	4.0 to 10.5 GPM	2,000 PSI	14.0 lbs.	
Y25477000	M85 Electric for Large Openings, 24V	21.0 GPM	2,000 PSI	14.0 lbs.	
Y25460000	M63 Self-propelled for Small Openings	4.0 to 10.5 GPM	2,000 PSI	14.0 lbs.	
Y25475000	M85 Self-propelled for Large Openings	21.0 GPM	2,000 PSI	14.0 lbs.	
Y25459000	M63 Pneumatic for Small Openings	4.0 o 10.5 GPM	2,000 PSI	10.0 lbs.	
Y25479000	M85 Pneumatic for Large Openings	21.0 GPM	2,000 PSI	11.5 lbs.	
Y25482000	A80R Self-propelled <i>Request modified version when using non-rigid drop</i>	6.0 to 32.0 GPM	2,000 PSI	11.0 lbs.	
Y25485000	A80R2 Self-propelled (high RPM version) <i>Request modified version when using non-rigid drop</i>	6.0 to 21.0 GPM	2,000 PSI	11.0 lbs.	
Y25430060	M21 Electric for Barrel Cleaning - For use with pressure washer - 110V	5.5 GPM	3,200 PSI	7.0 lbs.	
Y25435060	M25E Electric for Barrel Cleaning - With suction capability - 110V	6.5 GPM	2,300 PSI	9.0 lbs.	
Y25438060	M28E Electric for Barrel Cleaning - With 90° motor for small areas - With suction capability	6.5 GPM	2,300 PSI	9.0 lbs.	

# ACCESSORIES

HYDRAULIC DRIVE/  
DRIVE COMPONENTS



LUBRICANTS

TRAPPED PRESSURE UNLOADERS

FLOW SENSITIVE UNLOADERS

REGULATING VALVES

SAFETY RELIEF VALVES

NEEDLE VALVES

PUMP THERMAL PROTECTORS

CHECK VALVES

CHEMICAL INJECTORS

SPRAY GUNS

LANCES

HOSE REELS

HIGH-PRESSURE SPRAY TIPS

ROTATING NOZZLES

TANK CLEANING NOZZLES

ADJUSTABLE NOZZLES

COUPLERS AND FITTINGS

INLET FILTERS AND STRAINERS

THERMOSTATS

PRESSURE SWITCHES

FLOW SWITCHES

SWIVELS

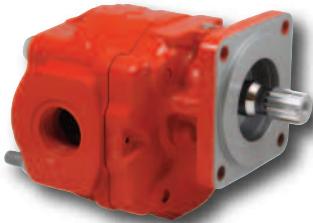
ACCUMULATORS

GAUGES

# HYDRAULIC DRIVE

## HYDRAULIC VERSIONS OF 51(TT), 60(TC) AND 63(TX) SERIES PUMPS

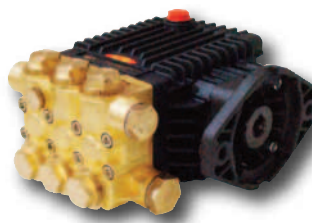
SAE Type "A" Flange, 5/8" Straight Shaft



**639723\***  
Motor



**TT1509HA28**  
3.43 GM  
2,175 PSI  
2500 RPM

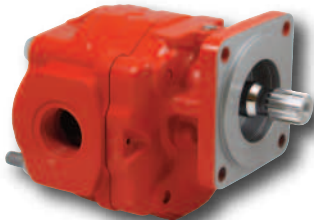


**TC1809HA17**  
3.30 GM  
2,165 PSI  
1750 RPM



**TX1812HA17**  
4.20 GM  
2,645 PSI  
1750 RPM

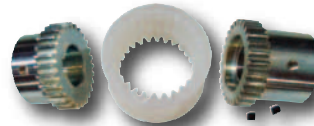
## HYDRAULIC FLANGE/COUPLER FOR 47, 66(TSF/TSP) SERIES PUMPS



**639664\***  
Muncie Motor



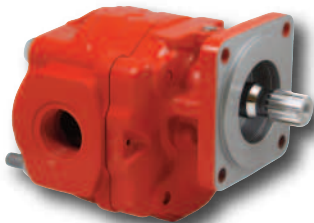
**ZFH47SB**  
SAE Type "B", 2 Bolt



**ZGH47SB**  
SAE Type "B", 7/8" Straight Shaft

\*Call GP  
for  
hydraulic  
motor  
requirements

## HYDRAULIC FLANGE/COUPLER FOR 70 SERIES PUMPS



**639611\***  
Muncie Motor



**ZFH70SB**  
SAE Type "B", 2 and 4 Bolt

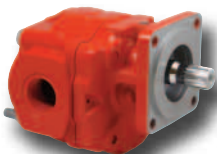


**ZGH70SB**  
SAE Type "B", 1" Straight Shaft

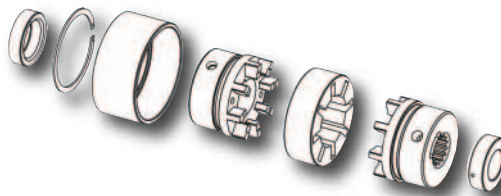
## HYDRAULIC FLANGE/COUPLER FOR 71 & 72 (KF, HF, VF, VK and KS) SERIES PUMPS



**ZFH71SC**  
SAE Type "C", 2 and 4 Bolt  
530060 Features Tach Port



**639660\***  
Muncie Motor



For separate  
coupler pieces  
call GP

To be used with these GP Couplers:

ZGH71SCB.....SAE-C-1-1/4" Parallel.....	40 mm Pump Hub and 1-1/4" Motor Hub, Blue Insert, 46 HP Max
ZGH71SCT.....SAE-C-1-1/4" Parallel.....	40 mm Pump Hub and 1-1/4" Motor Hub, Black Insert, 46 HP +
ZGH71SCR.....SAE-C-1-1/4" Parallel.....	40 mm Pump Hub and 1-1/4" Motor Hub, Red Insert, 25 HP Max
ZGH71SC14TB.....SAE-C-14T 12/24DP.....	40 mm Pump Hub and Splined 14 tooth 12/24 Motor Hub, Blue Insert, 46 HP Max
ZGH71SC14TT.....SAE-C-14T 12/24DP.....	40 mm Pump Hub and Splined 14 Tooth 12/24 Motor Hub, Black Insert, 46 HP +
ZGH71SC14TR.....SAE-C-14T 12/24DP.....	40 mm Pump Hub and splined 14 tooth 12/24 Motor Hub, Red Insert, 25 HP Max
ZGH71SC14TS.....SAE-C-14T 12/24DP.....	Features Snap Ring and Groove for Tach Pickup



# DRIVE COMPONENTS

## Gear Reducers and Multipliers



ZGRS1000



YGR1125P31



ZGRPTO

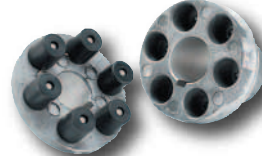
Product Group: F

GEAR REDUCERS AND MULTIPLIERS		
MODEL	DESCRIPTION	SHP WGHT
ZGR0750	2.4 to 1 Reduction for 3/4" Shafted Engines, 3 to 5 HP, J609A (49 and 50 Series at 1450 RPM)	5.0 lbs.
SGR1125	Mounting Plate for Flat Mounting (ZGR1000 and ZGR1125)	0.5 lbs.
ZGRS1000	2.2 to 1, 1" Shafted Engines, Up to 25 HP, J609A Flange, 47 and 66 Series pumps	9.5 lbs.
ZGRS1125	2.2 to 1, 1-1/8" Shafted Engines, Up to 25 HP, J609A Flange, 47 and 66 Series pumps	9.5 lbs.
ZGRS1000H	2.2 to 1, 1" Shaft, Honda® Approved for GX240-GX390, 47 and 66 Series pumps	9.5 lbs.
YGR0750	2.3 to 1 Reduction, 3/4" Shafted Engines, 3 to 5 HP, J609A (49 and 50 Series at 1450 RPM)	4.0 lbs.
YGR1000	2.2 to 1 Reduction, Dual Bearings, 1" Shafted Engines, 11 to 18 HP, J609B (47 Series at 1450 RPM)	6.0 lbs.
YGR1000P	2.2 to 1 Reduction, Dual Bearings, 1" Shafted Engines, 11 to 24 HP, J609B (47 and 66 Series at 1450 RPM)	6.0 lbs.
YGR1125	2.2 to 1 Reduction, 1-1/8" Shaft, Dual Bearings, 11 to 18 HP, J609F (47 Series at 1450 RPM)	6.0 lbs.
YGR1125P	2.2 to 1 Reduction, Dual Bearings, 1-1/8" Shafted Engines, 11 to 24 HP, J609B (47 and 66 Series at 1450 RPM)	6.0 lbs.
YGR1125P31	2.2 to 1 Reduction, Dual Bearings, 1-1/8" Shafted Engines. 20 to 31 HP, J609B(47 and 66 Series at 1450 RPM)	6.0 lbs.
ZGRPTO	1 to 1.9 Multiplier, 540 RPM PTO, 1-3/8" Spline Shaft, Up to 10 HP Pumps (47 and 66 Series)	9.5 lbs.

## Flex Couplers



ZGL100



ZG184TC

Product Group: F

FLEX COUPLERS		
MODEL	DESCRIPTION	SHP WGHT
ZG56C	24 mm x 5/8" (Finger)	1.2 lbs.
ZG145TC	24 mm x 7/8" (Finger)	1.3 lbs.
ZG184TC	24 mm x 1-1/8" (Finger)	1.5 lbs.
ZG202	24 mm x 1-3/8" (Finger)	2.5 lbs.
ZGL100	24 mm x 1" (Jaw) for use with ZF811 on 8 to 11 HP Engines	3.0 lbs.

## Flanges



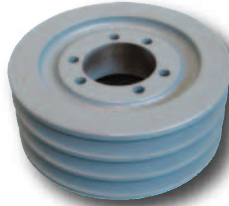
ZF184

Product Group: F

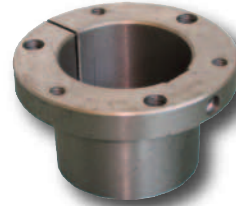
FLANGES - ENSURE PUMP & MOTOR RPMS MATCH WHEN SELECTING		
MODEL	DESCRIPTION	SHP WGHT
ZF181	For NEMA-C Electric Motors	3.5 lbs.
ZF184N	For NEMA-C Electric Motors 184TC Frame, Use with ZG184TC Coupler (Series 63, 44, ET and EP)	3.5 lbs.
ZF184	For NEMA-C Electric Motors 184TC Frame, 3 and 5 HP (Series 50 Pumps)	3.0 lbs.
ZF213215	For NEMA-C Electric Motors, 213TC, 215 TC and 184TC Frames, 5 and 7-1/2 HP (Series 66, 47, 48, ES/ESN)	4.0 lbs.
ZF213215SS	For NEMA-C Electric Motors, 213TC, 215 TC and 184TC Frames, 5 and 7-1/2 HP (Series 66, 47, 48 ES/ESN),	4.0 lbs.
ZF56145	For NEMA-C Electric Motors, 56C, 145TC and 182TC Frames, 1-1/2 and 2 HP (Series 49, 50 ET and EP)	1.5 lbs.
ZF811	Gas Engine Flange for 8 to 11 GP Gas Engines (TT9351 or TT9441 Pumps)	3.0 lbs.
ZFVWS	Gas Engine Flange for 3.5 to 8 HP Gas Engines (TT/TP Series 51 Pumps)	2.0 lbs.
ZFVWU	For NEMA-C Electric Motors, 56C Frame (TT/TP Series 51 Pumps)	2.0 lbs.
ZFH70SB	Hydraulic Flange, SAE-B (KE Series), Call GP Sales for More Information	6.0 lbs.
ZFH71SC	Hydraulic Flange SAE-C (KF, HS, HF, VFH, VKH, KS Series), Call GP Sales for More Information	6.0 lbs.



ZP-Pulleys



ZP3B60



ZUH178

## Pulleys

**Product Group: F**

PULLEYS		
MODEL	DESCRIPTION	SHP WGHT
ZP100	3.94 in. / 100 mm, 2 Groove, A Section, Aluminum	1.0 lbs.
ZP140	5.51 in. / 140 mm, 2 Groove, A Section, Aluminum	1.4 lbs.
ZP160	6.30 in. / 160 mm, 2 Groove, A Section, Aluminum	1.8 lbs.
190225	Pulley and Rail Kit (includes 639015 and (2) 540014)	1.5 lbs.
639015	1 Groove, B Section, Aluminum, 8" Outer Diameter, 24 mm Hub	1.5 lbs.
ZP4140	4 Groove, B Section, Aluminum, 32 mm	
ZP3B136	Pulley, 13.95 OD, 3 Groove, SK (can be used in the CW1541 to HTCK4050S conversion)	
ZP3B60	Pulley, 6.35 OD, 3 Groove, SD (can be used in the CE1541 to HTCK4050S conversion)	

BROWNING TYPE "H" PULLEY BUSHINGS		
MODEL	DESCRIPTION	SHP WGHT
ZBBH24	24 mm	0.5 lbs.
ZUH30	30 mm, Universal	1.0 lbs.
ZBBH35	35 mm	0.5 lbs.
ZUH40	40 mm, Universal	1.0 lbs.
ZUH178	1-7/8", SD Type	



100687

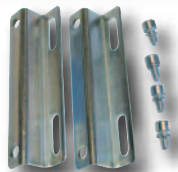
100976

101046

## Clutches

**Product Group: F**

CLUTCHES		
MODEL	DESCRIPTION	SHP WGHT
100687	12 Volt Double "A" Groove Clutch Adapter Kit for 47 and ES/ESN Series Pumps	11.0 lbs.
100688	12 Volt Double "A" Groove Clutch Adapter Kit for 44, 50, 63, ET and EP Series Pumps	11.0 lbs.
100717	12 Volt Single "A" Groove Clutch Adapter Kit for 47 and ES/ESN Series Pumps	11.0 lbs.
100718	12 Volt Single "A" Groove Clutch Adapter Kit for 44, 50, 63, ET and EP Series Pumps	11.0 lbs.
100719	24 Volt Double "A" Groove Clutch Adapter Kit for 47 and ES/ESN Series Pumps	11.0 lbs.
100720	24 Volt Double "A" Groove Clutch Adapter Kit for 44, 50, 63, ET and EP Series Pumps	11.0 lbs.
100172	12 Volt Double "A" Groove Clutch Adapter Kit for 47, 66 and ES/ESN Series Pumps, No Pulley	25.0 lbs.
100976	12 Volt Double "B" Groove Clutch Adapter Kit for 47, 66 and ES/ESN Series Pumps, 12.4" Pulley	31.0 lbs.
101046	12 Volt Double "B" Groove Clutch Adapter Kit for 47, 59, 66 and ES/ESN Series Pumps, 9-3/4" Pulley	33.5 lbs.
100977	12 Volt Single "B" Groove Clutch Adapter Kit for 47, 66 and ES/ESN Series Pumps, 12.4" Pulley	24.0 lbs.
100163	Clutch Assembly Tool for 7" Clutch	11.0 lbs.



ZKRAIL138

PUMP FEET OPTIONS		
MODEL	DESCRIPTION	SHP WGHT
ZKRAIL078	Kit, Rails, 7/8", 44, 63 Series, Small	2.0 lbs.
ZKRAIL138	Kit, Rails, 1-3/8", 47, 66 Series, Large	2.0 lbs.
ZKRAIL258	Kit, Rails, 2-5/8", 47, 66 Series, Tall	2.0 lbs.
101112	Kit, Rails for Emperor Platinum Pumps	2.0 lbs.

# DRIVE COMPONENTS

## Oil



100295



100552

Product Group: M

SERIES 100 OIL (30 WEIGHT)		
MODEL	DESCRIPTION	SHP WGHT
100295	Series 100 Oil, 16 oz. Bottle	3.0 lbs.
100552	Series 100 Oil, 2-1/2 Gallons	25.0 lbs.
100214	BULK PACKAGED: Series 100 Oil, 6-Pack of 16 oz. Bottles	7.0 lbs.
100216	BULK PACKAGED: Series 100 Oil, 24-Pack of 16 oz. Bottles (Product Group: B)	25.0 lbs.
100553	BULK PACKAGED: Series 100 Oil, (2) 2-1/2 Gallons (Product Group: B)	50.0 lbs.
100219	BULK PACKAGED: Series 100 Oil, 15 Gallon Plastic Drum (Product Group: B)	117.0 lbs.

Product Group: M

SERIES 220 OIL (50 WEIGHT)		
MODEL	DESCRIPTION	SHP WGHT
100450	Series 220 Industrial Oil, 2-1/2 Gallons	25.0 lbs.
100016	BULK PACKAGED: Series 220 Industrial Oil, 6-Pack of 16 oz. Bottles (Product Group B)	7.0 lbs.
100217	BULK PACKAGED: Series 220 Industrial Oil, 5 Gallons (Product Group B)	50.0 lbs.

Product Group: M

SERIES 8090 OIL (80/90 GEAR LUBE)		
MODEL	DESCRIPTION	SHP WGHT
100734	Series 8090 Oil, 2-1/2 Gallons	25.0 lbs.
100735	BULK PACKAGED: Series 8090 Oil (2) 2-1/2 Gallons (Twin Pack) (Product Group B)	50.0 lbs.

Product Group: M

MISCELLANEOUS		
MODEL	DESCRIPTION	SHP WGHT
100256	Grease Gun Kit, 3 oz. Tube with Gun	2.0 lbs.
100264	Packing Lubricant, 3 oz. Tube	0.7 lbs.
100278	Industrial Packing Lubricant, 12 oz. Tube	0.75 lbs.

## Oil Drain Kits



Oil Drain Kit

Product Group: M

OIL DRAIN KITS		
MODEL	DESCRIPTION	SHP WGHT
190446	Oil Drain Kit, 1/4" For Series 60, 63, 47, 44, 50, 60, ET, ES, EP Pumps	1.5 lbs.
190447	Oil Drain Kit, 3/8", For Series 69, 70, 76, 77 Pumps	1.5 lbs.
190448	Oil Drain Kit, 1/2", For Series 71, 72, MWS, SM Pumps	1.5 lbs.



# TRAPPED PRESSURE UNLOADERS



PULSAR4LP



PULSAR4KLP



PULSAR4HP



PULSAR4KHP



PULSAR4HPMS

Product Group: S

## PULSAR4 TRAPPED PRESSURE UNLOADERS

MODEL	GPM	RATED	MAX	INLET	OUTLET	BYPASS	MAX TEMP	SHP WGHT	
<b>Lower Pressure Unloader, White Spring</b>									
PULSAR4LP	10.5 GPM	2,300 PSI	2,600 PSI	(2) 3/8" NPT-F	3/8" NPT-F	(2) 3/8" NPT-F	195° F	1.5 lbs.	
PULSAR4KLP	10.5 GPM	2,300 PSI	2,600 PSI	(2) 3/8" NPT-F	3/8" NPT-F	(2) 3/8" NPT-F	195° F	1.6 lbs.	
<b>High Pressure Unloader, Blue Spring</b>									
PULSAR4HP	10.5 GPM	4,050 PSI	4,500 PSI	(2) 3/8" NPT-F	3/8" NPT-F	(2) 3/8" NPT-F	195° F	1.6 lbs.	
PULSAR4KHP	10.5 GPM	4,050 PSI	4,500 PSI	(2) 3/8" NPT-F	3/8" NPT-F	(2) 3/8" NPT-F	195° F	1.7 lbs.	
<b>With Stainless Steel Check Valve</b>									
PULSAR4KHPS	10.5 GPM	4,050 PSI	4,500 PSI	(2) 3/8" NPT-F	3/8" NPT-F	(2) 3/8" NPT-F	195° F	1.6 lbs.	
<b>With EZ Start and Knob</b>									
PULSAR4KHPEZ	10.5 GPM	4,050 PSI	4,500 PSI	(2) 3/8" NPT-F	3/8" NPT-F	(2) 3/8" NPT-F	195° F	1.7 lbs.	
<b>With Microswitch - 16A Resistive Load, 6A Inductive Load</b>									
PULSAR4HPMS	10.5 GPM	4,050 PSI	4,500 PSI	3/8" NPT-F	3/8" NPT-F	(2) 3/8" NPT-F	195° F	1.9 lbs.	
PULSAR4KHPMS	10.5 GPM	4,050 PSI	4,500 PSI	3/8" NPT-F	3/8" NPT-F	(2) 3/8" NPT-F	195° F	2.0 lbs.	
PULSAR4KLPMS	10.5 GPM	2,300 PSI	2,600 PSI	3/8" NPT-M	3/8" NPT - M	(2) 3/8" NPT - F	195° F	2.0 lbs.	
<b>Product Group: N</b>									
Y60014924	Pressure Adjusting Knob Kit for PULSAR4 Unloaders								0.1 lbs.

NEW



PLSR4LVNCV



YU2158NCV



YUB21405NCV

Product Group: S

## TRAPPED PRESSURE UNLOADERS - NO CHECK VALVES

MODEL	GPM	MAX	INLET	OUTLET	BYPASS	MAX TEMP	SHP WGHT
YVB3KA/NCV	6.5 GPM	3,650 PSI	3/8" NPT - M	3/8" NPT - M	3/8" NPT - F	195° F	1.0 lbs.
PLSR4HVNCV	10.5 GPM	4,050 PSI	(2) 3/8" NPT-F	3/8" NPT-F	3/8" NPT-F	194° F	1.6 lbs.
PLSR4LVNCV	10.5 GPM	2,600 PSI	(2) 3/8" NPT-F	3/8" NPT-F	3/8" NPT-F	194° F	1.6 lbs.
YU2158NCV	21.0 GPM	6,500 PSI	(2) 1/2" NPT-F	1/2" NPT-F	1/2" NPT-F	200° F	4.0 lbs.
YUB21405NCV	21.0 GPM	4,050 PSI	(2) 1/2" NPT-F	(2) 1/2" NPT-F	1/2" NPT-F	200° F	3.1 lbs.



YU21235



YU21405



YU5221



YU2158



YU2122SS

Product Group: S

## TRAPPED PRESSURE UNLOADERS

MODEL	GPM	RATE	MAX	INLET	OUTLET	BYPASS	MAX TEMP	SHP WGHT
<b>Yellow Spring</b>								
YU21235	21.0 GPM	2,300 PSI	2,600 PSI	(2) 1/2" NPT-F	1/2" NPT-F	(2) 1/2" NPT-F	200° F	3.1 lbs.
<b>White Spring</b>								
YUW21235	21.0 GPM	2,300 PSI	2,600 PSI	(2) 1/2" NPT-F	1/2" NPT-F	1/2" NPT-F	200° F	3.1 lbs.
<b>Green Spring</b>								
YU21405	21.0 GPM	4,050 PSI	4,500 PSI	(2) 1/2" NPT-F	1/2" NPT-F	(2) 1/2" NPT-F	200° F	3.1 lbs.
<b>Green Spring (features stainless steel outlet/bypass fittings)</b>								
YU21405S	21.0 GPM	4,050 PSI	4,500 PSI	(2) 1/2" NPT-F	1/2" NPT-F	(2) 1/2" NPT-F	200° F	3.1 lbs.
<b>Blue Spring</b>								
YUB21405	21.0 GPM	4,050 PSI	4,500 PSI	(2) 1/2" NPT-F	1/2" NPT-F	1/2" NPT-F	200° F	3.1 lbs.
<b>Hi-Flow</b>								
YU5221	53.0 GPM	2,200 PSI	2,450 PSI	1" NPT-F	1" NPT-F	1" NPT-F	200° F	4.5 lbs.
<b>303 Stainless Steel</b>								
YU2158	21.0 GPM	5,800 PSI	6,500 PSI	(2) 1/2" NPT-F	1/2" NPT-F	1/2" NPT-F	200° F	4.0 lbs.
YU5821	21.0 GPM	5,800 PSI	6,400 PSI	1/2" BSP - F	1/2" BSP - F	1/2" BSP - F	194° F	2.2 lbs.
YU7221	21.0 GPM	7,250 PSI	8,000 PSI	1/2" BSP - F	1/2" BSP - F	1/2" BSP - F	194° F	2.3 lbs.
<b>316 Stainless Steel w/ Viton</b>								
YU2122SS	21.0 GPM	2,200 PSI	2,500 PSI	1/2" NPT	1/2" NPT	1/2" NPT	194° F	3.1 lbs.
<b>High Temperature Brass</b>								
YVB4021HT	21.0 GPM	4,050 PSI	4,500 PSI	1/2" NPT - F	1/2" NPT - F	1/2" NPT - F	195° F	2.4 lbs.
YVB5121HT	21.0 GPM	5,100 PSI	5,650 PSI	1/2" NPT - F	1/2" NPT - F	1/2" NPT - F	195° F	2.4 lbs.

NEW

NEW

VALVES

# TRAPPED PRESSURE UNLOADERS



YVB5K



YVB9K



YVB9KMS2



YU4050K



YU5075K



YVB3K

Product Group: S

## ADJUSTABLE TRAPPED PRESSURE UNLOADERS

MODEL	GPM	RATED	MAX	INLET	OUTLET	BYPASS	MAX TEMP	SHW WT
YVB5K	8.0 GPM	3,200 PSI	3,650 PSI	3/8" BSP-M	3/8" BSP-F	3/8" BSP-F	195° F	1.2 lbs.
YVB7K	8.0 GPM	3,200 PSI	3,650 PSI	3/8" NPT-M	3/8" NPT-F	3/8" NPT-F	195° F	1.2 lbs.
<b>Includes Panel Mount Feature</b>								
YVB9K	8.0 GPM	3,200 PSI	3,650 PSI	3/8" BSP-F	3/8" BSP-F	3/8" BSP-F	195° F	2.0 lbs.
<b>Includes 5 Amp Microswitch</b>								
YVB8KMS	8.0 GPM	3,200 PSI	3,650 PSI	3/8" BSP-M	3/8" BSP-F	3/8" BSP-F	195° F	2.0 lbs.
<b>Includes 10 Amp Microswitch</b>								
YVB8KMS10	8.0 GPM	3,200 PSI	3,650 PSI	3/8" BSP-F	3/8" BSP-F	3/8" BSP-F	195° F	2.0 lbs.
<b>Includes Panel Mount Feature and 5 Amp Microswitch</b>								
YVB9KMS2	8.0 GPM	3,200 PSI	3,650 PSI	3/8" BSP-F	3/8" BSP-F	(2) 3/8" BSP-F	195° F	2.0 lbs.
<b>Includes Panel Mount Feature, 5 Amp Microswitch and Stainless Steel Check Valve</b>								
YVB9KMS5	8.0 GPM	3,200 PSI	3,650 PSI	3/8" BSP-F	1/2" BSP-M	3/8" BSP-F	195° F	2.0 lbs.
<b>High Pressure Unloaders with KNOB (YU4050K-Black, YU5075K-Red, YVB5121B-Red)</b>								
YU4050K	10.0 GPM	4,050 PSI	4,500 PSI	3/8" BSP-M	3/8" BSP-F	1/2" BSP-F	195° F	2.0 lbs.
YU5075K	10.0 GPM	5,075 PSI	5,650 PSI	3/8" BSP-M	3/8" BSP-F	1/2" BSP-F	195° F	2.0 lbs.
YU5075KS	10.0 GPM	5,075 PSI	5,650 PSI	3/8" BSP-M	3/8" BSP-F	1/2" BSP-F	195° F	2.0 lbs.
<b>With 5 Amp Microswitch and Stainless Steel check Valve</b>								
YU5075KMS	10.0 GPM	5,075 PSI	5,650 PSI	3/8" BSP-M	3/8" BSP-F	3/8" BSP-F	195° F	2.0 lbs.
<b>Premium Pressure - Compensating Unloader w/Min-Max Setting, Stainless Steel Check Valve and Brass Knob</b>								
YU5075KMM	10.0 GPM	5,075 PSI	5,650 PSI	3/8" BSP-M	3/8" BSP-F	1/2" BSP-F	195° F	3.0 lbs.
<b>Trapped Pressure Unloader for the 51 and 60 Series Pumps</b>								
YVB3K	6.5 GPM	3,200 PSI	3,650 PSI	3/8" BSP-M	3/8" BSP-M	3/8" BSP-F	195° F	1.0 lbs.
YVB3KA	6.5 GPM	3,200 PSI	3,650 PSI	3/8" NPT-M	3/8" NPT-M	3/8" NPT-F	195° F	1.0 lbs.
YVB3KTT	6.5 GPM	3,200 PSI	3,650 PSI	1/4" NPT-M	3/8" NPT-M	3/8" NPT-F	195° F	1.0 lbs.
<b>Unloader with Knob and 1.8, 2.1 or 2.3 mm Injector</b>								
YVB3KTT118	6.5 GPM	3,200 PSI	3,650 PSI	1/4" NPT-M	3/8" NPT-M	3/8" NPT-F	195° F	1.25 lbs.
YVB3KTT121	6.5 GPM	3,200 PSI	3,650 PSI	1/4" NPT-M	3/8" NPT-M	3/8" NPT-F	195° F	1.25 lbs.
YVB3KTT123	6.5 GPM	3,200 PSI	3,650 PSI	1/4" NPT-M	3/8" NPT-M	3/8" NPT-F	195° F	1.25 lbs.



ZKHM



ZK4010



ZK5813

Product Group: S

## TRAPPED PRESSURE UNLOADERS

MODEL	GPM	MAX	INLET	OUTLET	BYPASS	MAX TEMP	SHW WT
2100242	8.0 GPM	4,000 PSI	(2) 3/8" NPT	3/8" NPT	(2) 3/8" NPT	195° F	2.0lbs.
ZKHM	10.8 GPM	3,000 PSI	3/8" BSP-F	1/4 BSP-F & 3/8" BSP-M	(2) 3/8" BSP-F	185° F	2.5lbs.
ZKHM1 (no knob)	10.8 GPM	3,000 PSI	3/8" BSP-F	1/4 BSP-F & 3/8" BSP-M	(2) 3/8" BSP-F	185° F	2.5lbs.
ZK4010	2.11 to 10.5 GPM	4,000 PSI	3/8" BSP-F	3/8" BSP-M	(2) 3/8" BSP-M	185° F	2.3 lbs.
ZK5813	2.11 to 13.2 GPM	5,800 PSI	1/2" BSP-F	1/2" BSP-M	(2) 1/2" BSP-M	185° F	6.2 lbs.



YU3678



YU3678MS

Product Group: S

## MODIFIED PRESSURE UNLOADERS

MODEL	GP	RATED	MAX	INLET	OUTLET	BYPASS	MAX TEMP	SHW WT
<b>Includes Panel Mount Feature</b>								
YU3678	8.0 GPM	3,200 PSI	3,650 PSI	3/8" NPT-F	3/8" NPT-F	3/8" NPT-F	195° F	2.5 lbs.
<b>Includes Panel Mount Feature and Stainless Steel Check Valve</b>								
YU3678MS	8.0 GPM	3,200 PSI	3,650 PSI	3/8" NPT-F	3/8" NPT-F	3/8" NPT-F	195° F	2.5 lbs.

# CONTROL SET UNLOADERS



ZKW1



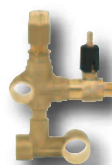
ZKW21



YVB135KDM



YVB75KDM



YVB55KDM



YU4050KDM

**Product Group: S**

DIRECT MOUNT, CONTROL SET UNLOADERS									
MODEL	GPM	RATED	MAX	INLET	OUTLET	HOSE BARB	MAX TEMP	SHP WGHT	
<b>Direct Mount Unloader with Chemical Gauge, Pressure Gauge and Filter</b>									
ZOKR1	2.1 GPM	1,000 PSI	1,000 PSI	1/2" NPT-M	M22	1/4"	165° F	2.0 lbs.	
<b>Direct Mount Unloader with 2 mm Injector</b>									
ZKW1	3.0 GPM	1,600 PSI	1,600 PSI	3/8" BSP-F	3/8" BSP-M	1/4"	165° F	2.0 lbs.	
<b>Direct Mount Unloader Without Injector</b>									
ZKW1SC	3.0 GPM	1,600 PSI	1,600 PSI	3/8" BSP-M	3/8" BSP-M	1/4"	165° F	2.0 lbs.	
<b>Interpump Direct Mount, Control Set Unloaders, Available With or Without Injectors</b>									
ZKW326	2.6 GPM	3,000 PSI	3,000 PSI	1/2" BSP-F	3/8" BSP-M	1/4"	165° F	2.0 lbs.	
ZKW340	4.0 GPM	3,000 PSI	3,000 PSI	1/2" BSP-F	3/8" BSP-M	1/4"	165° F	2.0 lbs.	
ZKW355	5.5 GPM	3,000 PSI	3,000 PSI	1/2" BSP-F	3/8" BSP-M	1/4"	165° F	2.0 lbs.	
<b>Direct Mount Unloader with 2.2 mm Injector</b>									
ZKW21	4.5 GPM	3,000 PSI	3,000 PSI	1/2" BSP-F	3/8" BSP-M	1/4"	200° F	2.0 lbs.	
<b>Long Body Unloader with 2.2 mm Injector</b>									
ZKW21L	4.5 GPM	3,000 PSI	3,000 PSI	1/2" BSP-F	3/8" BSP-M	1/4"	200° F	2.0 lbs.	
<b>Long Body Unloader with 2.5 mm Injector</b>									
ZKW22L	6.0 GPM	3,000 PSI	3,000 PSI	1/2" BSP-F	3/8" BSP-M	1/4"	200° F	2.0 lbs.	
<b>Long Body Unloader Without Injector</b>									
ZKW2LSC	6.0 GPM	3,000 PSI	3,000 PSI	1/2" BSP-F	3/8" BSP-M	1/4"	200° F	2.0 lbs.	
<b>Unloader With 2.2 mm Injector</b>									
ZKW2SC	4.5 GPM	3,000 PSI	3,000 PSI	1/2" BSP-F	3/8" BSP-M	1/4"	200° F	2.0 lbs.	
190043	ZKW2SC With Banjo Fittings								2.0 lbs.

**Product Group: S**

DIRECT MOUNT, CONTROL SET UNLOADERS FOR TT/TP SERIES 51 PUMP									
MODEL	GPM	RATED	MAX	INLET	OUTLET	INJECTOR	MAX TEMP	SHP WGHT	BOX QTY
YVB135KDM	6.5 GPM	2,300 PSI	2,600 PSI	3/8" BSP-F	3/8" BSP-M	N/A	195° F	1.5 lbs.	24
YVB135KDMI18	6.5 GPM	2,300 PSI	2,600 PSI	3/8" BSP-F	3/8" BSP-M	1.8 mm	195° F	1.8 lbs.	20
YVB135KDMI21	6.5 GPM	2,300 PSI	2,600 PSI	3/8" BSP-F	3/8" BSP-M	2.1 mm	195° F	1.8 lbs.	20
YVB351KDM	6.5 GPM	3,200 PSI	3,650 PSI	3/8" BSP-F	3/8" BSP-M	N/A	195° F	1.8 lbs.	24
YVB351KDMI18	6.5 GPM	3,200 PSI	3,650 PSI	3/8" BSP-F	3/8" BSP-M	1.8	195° F	1.9 lbs.	20
YVB351KDMI21	6.5 GPM	3,200 PSI	3,650 PSI	3/8" BSP-F	3/8" BSP-M	2.1	195° F	1.9 lbs.	20
YVB75KTP	8.0 GPM	3,200 PSI	3,650 PSI	3/8" BSP-F	3/8" BSP-M	N/A	195° F	1.8 lbs.	20
YVB75KTPF21	8.0 GPM	3,200 PSI	3,650 PSI	3/8" BSP-F	3/8" BSP-M	2.1 mm	195° F	2.1 lbs.	20

**Product Group: S**

DIRECT MOUNT, CONTROL SET UNLOADERS FOR EZ, 47, 60 AND 63 SERIES PUMPS										
MODEL	GPM	RATED	MAX	INLET	OUTLET	HOSE BARB	INJECTOR	MAX TEMP	SHP WGHT	BOX QTY
YVB35KDM	6.5 GPM	3,200 PSI	3,650 PSI	1/2" BSP-F	3/8" BSP-M	N/A	N/A	195° F	1.5 lbs.	24
YVB35KDMI18	6.5 GPM	3,200 PSI	3,650 PSI	1/2" BSP-F	3/8" BSP-M	1/4"	1.8 mm	195° F	1.8 lbs.	20
YVB35KDMI21	6.5 GPM	3,200 PSI	3,650 PSI	1/2" BSP-F	3/8" BSP-M	1/4"	2.1 mm	195° F	1.8 lbs.	20
YVB56KDM	8.0 GPM	3,200 PSI	3,650 PSI	1/2" BSP-F	3/8" BSP-F	N/A	N/A	195° F	2.5 lbs.	20
YVB56KDMI21	8.0 GPM	3,200 PSI	3,650 PSI	1/2" BSP-F	3/8" BSP-F	1/4"	2.1 mm	195° F	2.1 lbs.	20
YVB75KDMN	7.8 GPM	3,200 PSI	3,650 PSI	1/2" BSP-F	3/8" BSP-F	N/A	N/A	195° F	1.8 lbs.	20
YVB75KDMN21	7.8 GPM	3,200 PSI	3,650 PSI	1/2" BSP-F	3/8" BSP-F	1/4"	2.1 mm	195° F	2.1 lbs.	20
<b>EZ Series Only</b>										
YU4050KDM	10.5 GPM	4,050 PSI	4,500 PSI	1/2" BSP-F	3/8" BSP-F	N/A	N/A	195° F	3.0 lbs.	10

**Product Group: S**

DIRECT MOUNT, CONTROL SET UNLOADERS FOR EP SERIES PUMPS										
MODEL	GPM	RATED	MAX	INLET	OUTLET	HOSE BARB	INJECTOR	MAX TEMP	SHP WGHT	BOX QTY
YVB35KDME	6.5 GPM	3,200 PSI	3,650 PSI	1/2" BSP-F	3/8" BSP-F	N/A	N/A	195° F	1.5 lbs.	24

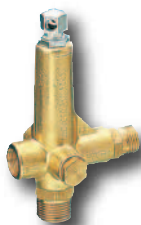
VALVES



# FLOW SENSITIVE UNLOADERS



ZK1



ZK3



ZK50



ZK7



ZK9

Product Group: S

**FLOW SENSITIVE UNLOADERS**

MODEL	GPM	MAX	INLET	OUTLET	BYPASS	MAX TEMP	SHW WT	BOX QTY
ZK1	2.3 to 10.8 GPM	3,600 PSI	3/8" BSP-F	1/2" BSP-M	1/2" BSP-M	165° F	2.3 lbs.	10
ZK138	2.3 to 10.8 GPM	3,600 PSI	3/8" BSP-F	3/8" BSP-M	1/2" BSP-M	165° F	2.3 lbs.	10
ZK30	2.1 to 3.0 GPM	1,500 PSI	3/8" BSP-F	3/8" BSP-M	3/4" BSP-M or 1/2" BSP-F	165° F	2.0 lbs.	10
ZK31	3.0 to 4.2 GPM	1,500 PSI	3/8" BSP-F	3/8" BSP-M	3/4" BSP-M or 1/2" BSP-F	165° F	2.0 lbs.	10
ZK32	4.2 to 5.5 GPM	1,500 PSI	3/8" BSP-F	3/8" BSP-M	3/4" BSP-M or 1/2" BSP-F	165° F	2.0 lbs.	10
ZK33	5.0 to 6.0 GPM	1,500 PSI	3/8" BSP-F	3/8" BSP-M	3/4" BSP-M or 1/2" BSP-F	165° F	2.0 lbs.	10
ZK50	2.1 to 3.0 GPM	3,000 PSI	3/8" BSP-F	3/8" BSP-M	3/4" BSP-M or 1/2" BSP-F	165° F	2.5 lbs.	10
ZK51	3.0 to 4.2 GPM	3,000 PSI	3/8" BSP-F	3/8" BSP-M	3/4" BSP-M or 1/2" BSP-F	165° F	2.5 lbs.	10
ZK52	4.2 to 6.6 GPM	3,000 PSI	3/8" BSP-F	3/8" BSP-M	3/4" BSP-M or 1/2" BSP-F	165° F	2.5 lbs.	10
ZK53	6.6 to 10.8 GPM	3,000 PSI	3/8" BSP-F	3/8" BSP-M	3/4" BSP-M or 1/2" BSP-F	165° F	2.5 lbs.	10
ZK70 (GPV)	2.1 to 3.0 GPM	3,500 PSI	3/8" BSP-F	3/8" BSP-M	3/8" BSP-F	165° F	5.0 lbs.	5
ZK71 (GPV)	3.0 to 4.2 GPM	3,500 PSI	3/8" BSP-F	3/8" BSP-M	3/8" BSP-F	165° F	5.0 lbs.	5
ZK72 (GPV)	4.2 to 6.6 GPM	3,500 PSI	3/8" BSP-F	3/8" BSP-M	3/8" BSP-F	165° F	5.0 lbs.	5
ZK73 (GPV)	6.6 to 10.8 GPM	3,500 PSI	3/8" BSP-F	3/8" BSP-M	3/8" BSP-F	165° F	5.0 lbs.	5
ZK9	2.5 to 13.2 GPM	5,800 PSI	1/2" BSP-F	1/2" BSP-M	1/2" BSP-F	165° F	11.0 lbs.	1
<b>ZK72 Unloader With #1 Bypass Orifice:</b>								
190009	4.2 to 6.6 GPM	3,500 PSI	3/8" BSP-F	3/8" BSP-M	3/8" BSP-F	165° F	5.0 lbs.	5
<b>ZK71 Unloader with #0 Bypass Orifice:</b>								
190079	3.0 to 4.2 GPM	3,500 PSI	3/8" BSP-F	3/8" BSP-M	3/8" BSP-F	165° F	5.0 lbs.	5
<b>ZK73 Unloader With #2 Bypass Orifice:</b>								
190361	6.6 to 10.8 GPM	3,500 PSI	3/8" BSP-F	3/8" BSP-M	3/8" BSP-F	165° F	5.0 lbs.	5



PLSRZ523



PLSRZ523MS



PULSARZ



PULSARZMS



PLSRZ2140



PLSRZ2140MS

Product Group: S

**FLOW SENSITIVE UNLOADERS**

MODEL	GPM	MAX	INLET	OUTLET	BYPASS	MAX TEMP	SHW WT	BOX QTY
PLSRZ523*	2.1 to 5.3 GPM	2,300 PSI	3/8" BSP-F	3/8" BSP-F	N/A	195° F	1.5 lbs.	15
<b>303 Stainless Steel:</b>								
PLSRZ36SS	2.4 - 16 GPM	3,600 PSI	1/2" BSP-F	1/2" BSP-F	1/2" BSP-F	195° F	4.6 lbs.	
PLSRZ87SS	2.4 - 16 GPM	8,700 PSI	1/2" BSP-F	1/2" BSP-F	1/2" BSP-F	195° F	4.6 lbs.	
<b>With 6 Amp Microswitch:</b>								
PLSRZ523MS*	2.1 to 5.3 GPM	2,300 PSI	3/8" BSP-F	3/8" BSP-F	N/A	195° F	1.7 lbs.	15
PULSARZ*	2.4 to 10.5 GPM	4,000 PSI	3/8" NPT-F	3/8" NPT-F	(2) 3/8" NPT-F	195° F	2.5 lbs.	12
190465	PULSARZ As Above, With 3.5 and 4.5 Orifice							
<b>With 6 Amp Microswitch:</b>								
PULSARZMS*	2.4 to 10.5 GPM	3,650 PSI	3/8" NPT-F	(2) 3/8" NPT-F	N/A	195° F	2.5 lbs.	12
PLSRZ2140*	5.3 to 21.0 GPM	4,050 PSI	1/2" BSP-F	1/2" BSP-F	1/2" BSP-F	195° F	3.8 lbs.	4
<b>With 6 Amp Microswitch:</b>								
PLSRZ2140MS*	5.3 to 21.0 GPM	4,050 PSI	1/2" BSP-F	1/2" BSP-F	N/A	195° F	4.0 lbs.	4

\*PULSARZ is patented

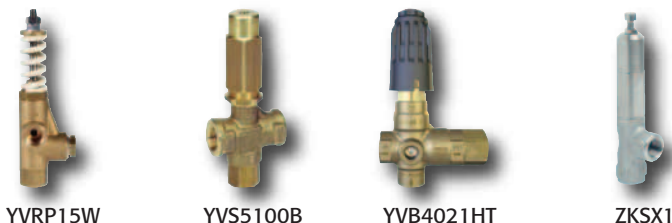
# BALANCED RELIEF & REGULATING VALVES



## Balanced Relief Valves

Product Group: T

BALANCED RELIEF VALVES								
MODEL	GPM	RATED	MAX	INLET	BYPASS	MAX TEMP	SHP WGHT	BOX QTY
YBRV624	6.3 GPM	2,200 PSI	2,450 PSI	3/8" BSP-F	3/8" BSP-F	195° F	0.8 lbs.	40
YBRV624D	6.3 GPM	2,200 PSI	2,450 PSI	(2) 3/8" BSP-F	3/8" BSP-F	195° F	1.0 lbs.	40
YBRV631	6.3 GPM	3,200 PSI	3,650 PSI	3/8" BSP-F	3/8" BSP-F	195° F	0.8 lbs.	40
YBRV631D	6.3 GPM	3,200 PSI	3,650 PSI	(2) 3/8" BSP-F	3/8" BSP-F	195° F	1.0 lbs.	40
100268	6.3 GPM	300 PSI	N/A	(2) 3/8" BSP-F	3/8" BSP-F	195° F	1.0 lbs.	40
100269	6.3 GPM	300 PSI	N/A	3/8" BSP-F	3/8" BSP-F	195° F	0.8 lbs.	40
YBRV5325	53.0 GPM	2,600 PSI	2,900 PSI	3/4" BSP-F	1/2" BSP-F	195° F	2.0 lbs.	4



## Regulating Valves

Product Group: T

REGULATING VALVES - GREAT FOR MULTIPLE GUN APPLICATIONS								
MODEL	GPM	RATED	INLET	OUTLET	BYPASS	MAX TEMP	SHP WGHT	BOX QTY
YVRP15W	8.9 GPM	1,450 PSI	3/8" NPT-F	3/8" NPT-F	N/A	195° F	1.3 lbs.	25
YVRP32B	8.9 GPM	3,200 PSI	3/8" NPT-F	3/8" NPT-F	N/A	195° F	1.3 lbs.	25
ZKSX1	16.0 GPM	3,600 PSI	1/2" BSP-F	N/A	1/2" BSP-F	195° F	2.3 lbs.	1
YVS5100B	6.5 GPM	5,600 PSI	3/8" BSP-F	3/8" BSP-F	3/8" BSP-F	195° F	1.0 lbs.	25
YVB4021HT	21.0 GPM	4,050 PSI	1/2" NPT-F	1/2" NPT-F	1/2" NPT-F	195° F	2.5 lbs.	1
YVB5121HT	21.0 GPM	5,550 PSI	1/2" NPT-F	1/2" NPT-F	1/2" NPT-F	195° F	2.5 lbs.	1



## Regulating Valves

Product Group: S

REGULATORS									
MODEL	DESCRIPTION	GPM	RATED	MAX	INLET	OUTLET	BYPASS	MAX TEMP	SHP WGHT
WMR15SS	Stainless Steel	5.5	1,500 PSI	N/A	3/8" NPT-F	3/8" NPT-F	N/A	195° F	1.0 lbs.
100892	Nickel Plated	5.0 GPM	2,000 PSI	N/A	3/8" NPT-F	N/A	1/4" NPT-F	220° F	1.4 lbs.
100998	Stainless Steel	13.0 GPM	1,000 PSI	N/A	3/8" NPT-F	N/A	1/2" NPT-F	190° F	2.0 lbs.
100999	Stainless Steel	13.0 GPM	2,000 PSI	N/A	3/8" NPT-F	N/A	1/2" NPT-F	190° F	2.0 lbs.
YR5221	Brass (No CV)	53.0 GPM	2,200 PSI	2,450 PSI	1" NPT-F	1" NPT-F	1" NPT-F	200° F	4.5 lbs.

VALVES

# SAFETY RELIEF VALVES



100722



100534



YRV2063



ZKS3



ZKSR

Product Group: T

COLD WATER SAFETY RELIEF VALVES							
MODEL	GPM	MIN	MAX	INLET	OUTLET	MAX TEMP	SHP WGHT
ZKSR	1.3 to 10.0 GPM	N/A	3,000 PSI	3/8" BSP-M	1/4" BSP-F	165° F	1.5 lbs.
<b>Side Discharge With Hose Barb (*available preset, see below):</b>							
100724	6.0 GPM	2,000 PSI	6,000 PSI	1/4" NPT	Side w/ 1/4" Barb	140° F	1.0 lbs.
100723	6.0 GPM	2,000 PSI	6,000 PSI	3/8" NPT	Side w/ 1/4" Barb	140° F	1.0 lbs.
100722	6.0 GPM	2,000 PSI	6,000 PSI	1/2" NPT	Side w/ 1/4" Barb	140° F	1.0 lbs.
100611	6.0 GPM	800 PSI	3,000 PSI	1/4" NPT	Side w/ 1/4" Barb	140° F	1.0 lbs.
100799	6.0 GPM	800 PSI	3,000 PSI	3/8" NPT	Side w/ 1/4" Barb	140° F	1.0 lbs.
100980	6.0 GPM	800 PSI	3,000 PSI	1/2" NPT	Side w/ 1/4" Barb	140° F	1.0 lbs.
<b>Side Discharge Without Hose Barb (*available preset, see below):</b>							
100726	6.0 GPM	2,000 PSI	6,000 PSI	3/8" NPT	Side	140° F	1.0 lbs.
100727	6.0 GPM	2,000 PSI	6,000 PSI	1/2" NPT	Side	140° F	1.0 lbs.
100610	6.0 GPM	800 PSI	3,000 PSI	1/4" NPT	Side	140° F	1.0 lbs.
100798	6.0 GPM	800 PSI	3,000 PSI	3/8" NPT	Side	140° F	1.0 lbs.
100963	6.0 GPM	800 PSI	3,000 PSI	3/8" NPT	Side	140° F	1.0 lbs.
<b>End Discharge (*available preset, see below):</b>							
100728	6.0 GPM	2,000 PSI	6,000 PSI	1/4" NPT	End	140° F	1.0 lbs.
100534	6.0 GPM	2,000 PSI	6,000 PSI	3/8" NPT	End	140° F	1.0 lbs.
100729	6.0 GPM	2,000 PSI	6,000 PSI	1/2" NPT	End	140° F	1.0 lbs.
100547	6.0 GPM	2,000 PSI	6,000 PSI	3/8" NPT	End 1/8" F	140° F	1.0 lbs.
100609	6.0 GPM	800 PSI	3,000 PSI	1/4" NPT	End	140° F	1.0 lbs.
100797	6.0 GPM	800 PSI	3,000 PSI	3/8" NPT	End	140° F	1.0 lbs.
100962	6.0 GPM	800 PSI	3,000 PSI	1/2" NPT	End	140° F	1.0 lbs.
<b>316 Stainless Steel:</b>							
<b>NEW</b> 100993	6.0 GPM	N/A	3,500 PSI	3/8" NPT-M	End 1/4" F	140° F	0.5 lbs.
101070	6.0 GPM	N/A	6,000 PSI	3/8" NPT-M	End 1/4" F	140° F	0.5 lbs.
YRV2063	6.3 GPM	N/A	2,000 PSI	3/8" NPT-M	Side	140° F	1.5 lbs.
YRV3463	6.3 GPM	N/A	3,500 PSI	3/8" NPT-M	Side	140° F	1.5 lbs.
ZKS3	2.6 to 26.4 GPM	N/A	10,000 PSI	1/2" NPT-M	Side	284° F	2.0 lbs.

\*To order preset, add first 2 digits of desired pressure to end of current part number. Example: for a 100724 preset to 2,500 PSI, add "25" to end of part number. Resulting part number is 10072425



100972

Product Group: T

HOT WATER SAFETY RELIEF VALVES - 303 STAINLESS							
MODEL	GPM	MAX	INLET	OUTLET	MAX TEMP	SHP WGHT	
100981*	2.0 to 4.0 GPM	4,500 PSI	3/8" NPT-M	Side w/ 3/8" Barb	284° F	0.5 lbs.	
100971*	3.0 to 7.0 GPM	4,500 PSI	3/8" NPT-M	Side w/ 3/8" Barb	284° F	0.5 lbs.	
100982*	6.0 to 12.0 GPM	4,500 PSI	3/8" NPT-M	Side w/ 3/8" Barb	284° F	0.5 lbs.	
100983*	2.0 to 4.0 GPM	4,500 PSI	1/2" NPT-M	Side w/ 3/8" Barb	284° F	0.5 lbs.	
100972*	3.0 to 7.0 GPM	4,500 PSI	1/2" NPT-M	Side w/ 3/8" Barb	284° F	0.5 lbs.	
100984*	6.0 to 12.0 GPM	4,500 PSI	1/2" NPT-M	Side w/ 3/8" Barb	284° F	0.5 lbs.	

**\*Stainless Steel Seat and Ball**  
**All sizes are available preset, see below.**

\*To order preset, add first 2 digits of desired pressure to end of current part number. Example: for a 100981 preset to 2,500 PSI, add "25" to end of part number. Resulting part number is 10098125



# MISCELLANEOUS VALVES



## Expansion Valves

Product Group: T

100973

GP EXPANSION VALVES - ONLY RESETS ITSELF AFTER PUMP IS SHUT OFF - CAN BE USED REPEATEDLY ONCE RESET						
MODEL	GPM	MAX	INLET	OUTLET	MAX TEMP	SHP WGHT
100973	2.0 to 6.0 GPM	4,500 PSI	3/8" NPT-M	Side, 1/8" Hole	185° F	1.4 lbs.
100979	2.0 to 6.0 GPM	4,500 PSI	1/2" NPT-M	Side, 1/8" Hole	185° F	1.6 lbs.

To order preset, add first 2 digits of desired pressure to end of current part number. Example: for a 100973 preset to 2,500 PSI, add "25" to end of part number. Resulting part number is 10097325



100558



100156

## Pump Thermal Protectors

Product Group: Q

PUMP THERMAL PROTECTORS - DISC						
MODEL	DESCRIPTION	INLET	HOSE BARB	RELIEF TEMP	SHP WGHT	
100556	90° Hose Barb	1/4" NPT	1/4"	145° F	1.5 oz.	
100557	90° Hose Barb	3/8" NPT	1/4"	145° F	1.5 oz.	
100558	90° Hose Barb	1/2" NPT	1/4"	145° F	1.5 oz.	
100844	90° Hose Barb	1/4" BSP-M	1/4"	145° F	1.5 oz.	
100845	90° Hose Barb	3/8" BSP-M	1/4"	145° F	1.5 oz.	
100846	90° Hose Barb	1/2" BSP-M	1/4"	145° F	1.5 oz.	
100677	90° Hose Barb	3/8" NPT	N/A	190° F	1.5 oz.	
100678	90° Hose Barb	1/2" NPT	N/A	190° F	1.5 oz.	
100679	90° Hose Barb	3/8" NPT	1/4" SS	190° F	1.5 oz.	
100680	90° Hose Barb	1/2" NPT	1/4" SS	190° F	1.5 oz.	
100156	90° Hose Barb	3/8" NPT	1/4" SS	145° F	1.5 oz.	
100259	Banjo Fitting	3/8" BSP	N/A	145° F	2.5 oz.	



100512



2100612

PUMP THERMAL PROTECTORS - PILL STYLE						
MODEL	DESCRIPTION	INLET	HOSE BARB	RELIEF TEMP	SHP WGHT	
100512	No Hose Barb	1/4" NPT	N/A	145° F	2.0 oz.	
100513	No Hose Barb	3/8" NPT	N/A	145° F	2.0 oz.	
100514	No Hose Barb	1/2" NPT	N/A	145° F	2.0 oz.	
2100612	No Hose Barb	1/2" NPT	N/A	145° F	2.0 oz.	
2100612MB	No Hose Barb	1/2" BSP	N/A	145° F	2.0 oz.	
2100638	No Hose Barb	3/8" NPT	N/A	145° F	2.0 oz.	
2100614	No Hose Barb	1/4" NPT	N/A	145° F	2.0 oz.	



100324



100543



100970

## Easy Start Valves

Product Group: T

EASY START VALVES						
MODEL	GPM	MAX	INLET	OUTLET	MAX TEMP	SHP WGHT
YESTVALVE	7.8 GPM	4,050 PSI	3/8" NPT-M	1/4" Hose Barb	176° F	0.25 lbs.
YESTVALVE14	7.8 GPM	4,050 PSI	1/4" BSP-M	1/4" Hose Barb	176° F	0.25 lbs.
<i>Provides Easy Start for Manual Start Gas Engines:</i>						
100323	8.0 GPM	5,000 PSI	3/8" NPT-M	1/4" Hose Barb	195° F	0.25 lbs.
100324	8.0 GPM	5,000 PSI	1/4" NPT-M	1/4" Hose Barb	195° F	0.25 lbs.
100543	8.0 GPM	5,000 PSI	1/4" NPT-M	1/8" NPT-F	195° F	0.25 lbs.
100544	8.0 GPM	5,000 PSI	3/8" NPT-M	1/8" NPT-F	195° F	0.25 lbs.
100490	8.0 GPM	5,000 PSI	1/2" NPT-M	1/8" NPT-F	195° F	0.25 lbs.
<i>Stainless Steel Seat and Ball</i>						
100970	8.0 GPM	5,000 PSI	3/8" NPT-M	1/4" Hose Barb	195° F	0.25 lbs.

# MISCELLANEOUS VALVES

## Steam Valves



Y29092015

Product Group: T

STEAM VALVES								
MODEL	GPM	RATED	MAX	PANEL FITTING	INLET	OUTLET	MAX TEMP	SHW WT
Y29092008	2.3 GPM	3,650 PSI	4,050 PSI	3/4"	1/4" BSP-M	1/4" BSP-M	175° F	0.3 lbs.
Y29092012	3.4 GPM	3,650 PSI	4,050 PSI	3/4"	1/4" BSP-M	1/4" BSP-M	175° F	0.3 lbs.
Y29092015	4.0 GPM	3,650 PSI	4,050 PSI	3/4"	1/4" BSP-M	1/4" BSP-M	175° F	0.3 lbs.

## Bleeder Valves



100325



100730

Product Group: T

BLEEDER VALVES							
MODEL	GPM	MAX	INLET	OUTLET	MAX TEMP	SHW WT	
100325	8.0 GPM	5,000 PSI	1/4" NPT-M	1/8" Hose Barb	195° F	0.25 lbs.	
100326	8.0 GPM	5,000 PSI	3/8" NPT-M	1/8" Hose Barb	195° F	0.25 lbs.	
100545	8.0 GPM	5,000 PSI	1/4" NPT-F	1/8" NPT-F	195° F	0.25 lbs.	
100546	8.0 GPM	5,000 PSI	3/8" NPT-M	1/8" NPT-F	195° F	0.25 lbs.	
<i>Provides Easy Start Function for Electric Start Gas Engines:</i>							
100676	8.0 GPM	5,000 PSI	1/4" NPT-M	1/8" Hose Barb	195° F	0.25 lbs.	
100730	8.0 GPM	5,000 PSI	1/2" NPT-M	1/8" NPT-F	195° F	0.25 lbs.	
100684	8.0 GPM	5,000 PSI	3/8" NPT-M	1/8" Hose Barb	195° F	0.25 lbs.	

## Check Valves



Brass



Stainless Steel

Product Group: T

CHECK VALVES							
MODEL	DESCRIPTION	GPM	RATED	MAX	INLET	MAX TEMP	SHW WT
YCV14FB	Brass	6.5 GPM	2,200 PSI	2,300 PSI	1/4" BSP-F	195° F	0.5 lbs.
YCV14FSS	303 Stainless Steel	6.5 GPM	5,800 PSI	6,500 PSI	1/4" BSP-F	195° F	0.5 lbs.
YCV38FB	Brass	10.5 GPM	2,200 PSI	2,300 PSI	3/8" BSP-F	195° F	0.5 lbs.
YCV38FSS	303 Stainless Steel	10.5 GPM	5,800 PSI	6,500 PSI	3/8" BSP-F	195° F	0.5 lbs.
YCV12FB	Brass	21.0 GPM	2,200 PSI	2,300 PSI	1/2" BSP-F	195° F	0.5 lbs.
YCV12FSS	303 Stainless Steel	21.0 GPM	5,800 PSI	6,500 PSI	1/2" BSP-F	195° F	0.5 lbs.
YCV34FB	Brass	47.6 GPM	2,200 PSI	2,300 PSI	3/4" BSP-F	195° F	0.5 lbs.
YCV34FSS	303 Stainless Steel	47.6 GPM	5,800 PSI	6,500 PSI	3/4" BSP-F	195° F	0.5 lbs.
YCVHD34FB	Brass	37.0 GPM	4,000 PSI	4,500 PSI	3/4" BSP-F	195° F	1.9 lbs.
YCVHD1FB	Brass	53 GPM	4,000 PSI	4,500 PSI	1" BSP-F	195° F	3.0 lbs.

## Needle Valves



100814



100838



101089 - 316 SS

Product Group: D

METERING NEEDLE VALVES - ADJUSTABLE SS STEM ALLOWS REGULATING THE OPENING IN THE BORE FOR FINE CONTROL OF FLOW

MODEL	GPM	MAX	INLET	OUTLET	ADJUSTMENT	MAX TEMP	SHW WT
<i>Metering Needle Valves - Adjustable SS Stem Allows Regulating the Opening in the Bore for Fine Control of Flow:</i>							
WMNV14SS	5.0 GPM	4,000 PSI	1/4" NPT-F	1/4" NPT-F	N/A	150° F	0.3 lbs.
100814	6.0 GPM	4,000 PSI	1/4" NPT-F	1/4" NPT-F	N/A	190° F	0.3 lbs.
100838	6.0 GPM	4,000 PSI	1/4" NPT-F	1/4" NPT-F	Side	190° F	0.4 lbs.
100865	6.0 GPM	4,000 PSI	1/4" NPT-F	1/4" NPT-F	Bottom	190° F	0.4 lbs.

## Pneumatic Control Valves



YPCV823 & YPCV3240

Product Group: D

PNEUMATIC CONTROL VALVES							
MODEL	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHW WT
YPCV823	8.0 GPM	2,300 PSP	2,550 PSI	1/4" BSP-F	1/4" BSP-F	195° F	1.2 lbs.
YPCV2175	21.0 GPM	7,250 PSI	8,000 PSI	1/2" BSP-F	1/2" BSP-F	195° F	5.8 lbs.
YPCV3240	32.0 GPM	4,050 PSI	4,500 PSI	3/4" BSP-F	3/4" BSP-F	195° F	5.0 lbs.

# INJECTORS

## Adjustable Chemical Injectors Brass



ZROBO1B



YAINJ18E

Product Group: L

ADJUSTABLE CHEMICAL INJECTORS - BRASS									
MODEL	ORIFICE	GPM	RATED	INLET	OUTLET	MAX TEMP	HOSE BARB	SHF WGHT	BOX QTY
<b>Chemical Injectors with Brass Knob:</b>									
ZROBO0B	2.0 mm	2.1 to 2.9 GPM	3,200 PSI	3/8" BSP-M	3/8" BSP-M	210° F	1/4"	0.8 lbs.	25
ZROBO1B	2.2 mm	2.9 to 4.0 GPM	3,200 PSI	3/8" BSP-M	3/8" BSP-M	210° F	1/4"	0.8 lbs.	25
ZROBO2B	2.5 mm	4.0 to 5.6 GPM	3,200 PSI	3/8" BSP-M	3/8" BSP-M	210° F	1/4"	0.8 lbs.	25
ZROBO3B	2.75 mm	6.6 to 10.8 GPM	3,200 PSI	3/8" BSP-M	3/8" BSP-M	210° F	1/4"	0.8 lbs.	25
<b>EPDM O-Ring:</b>									
YAINJ18E	1.8 mm	2.0 to 2.6 GPM	4,000 PSI	3/8" NPT-M	3/8" NPT-M	195° F	1/4"	0.4 lbs.	N/A
YAINJ21E	2.1 mm	2.6 to 4.0 GPM	4,000 PSI	3/8" NPT-M	3/8" NPT-M	195° F	1/4"	0.4 lbs.	N/A
YAINJ23E	2.3 mm	4.0 to 5.3 GPM	4,000 PSI	3/8" NPT-M	3/8" NPT-M	195° F	1/4"	0.4 lbs.	N/A



100823

## Adjustable Chemical Injectors Standard

Product Group: L

ADJUSTABLE CHEMICAL INJECTORS - BRASS									
MODEL	ORIFICE	GPM	RATED	INLET	OUTLET	MAX TEMP	HOSE BARB	SHF WGHT	BOX QTY
100823	1.5 mm	1.0 to 2.0 GPM	4,250 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25
100824	1.8 mm	2.0 to 3.0 GPM	4,250 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25
100825	2.1 mm	3.0 to 5.0 GPM	4,250 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25
100826	2.3 mm	5.0 to 8.0 GPM	4,250 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25



100861

## Adjustable Chemical Injectors 304 Stainless Steel

Product Group: L

ADJUSTABLE CHEMICAL INJECTORS - STAINLESS STEEL									
MODEL	ORIFICE	GPM	RATED	INLET	OUTLET	MAX TEMP	HOSE BARB	SHF WGHT	BOX QTY
100861	1.8 mm	2.0 to 3.0 GPM	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.5 lbs.	25
100862	2.1 mm	3.0 to 5.0 GPM	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.5 lbs.	25
100863	2.3 mm	5.0 to 8.0 GPM	5,500 PSI	3/8" NPT-M	3/8v NPT-M	190° F	1/4"	0.5 lbs.	25



100810

## Adjustable Chemical Injectors High Draw

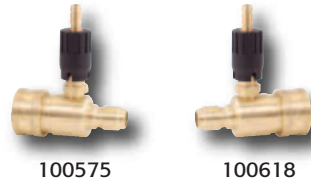
Product Group: L

ADJUSTABLE CHEMICAL INJECTORS - HIGH DRAW - CHEMICAL DRAW UP TO 20%									
MODEL	ORIFICE	GPM	RATED	INLET	OUTLET	MAX TEMP	HOSE BARB	SHF WGHT	BOX QTY
100810	1.5 mm	1.0 to 2.0 GPM	4,500 PSI	3/8" NPT-M	3/8" NPT-M	195° F	1/4"	0.3 lbs.	25
100811	1.8 mm	2.0 to 3.0 GPM	4,500 PSI	3/8" NPT-M	3/8" NPT-M	195° F	1/4"	0.3 lbs.	25
100812	2.1 mm	3.0 to 5.0 GPM	4,500 PSI	3/8" NPT-M	3/8" NPT-M	195° F	1/4"	0.3 lbs.	25
100813	2.3 mm	5.0 to 8.0 GPM	4,500 PSI	3/8" NPT-M	3/8" NPT-M	195° F	1/4"	0.3 lbs.	25
<b>High Draw Chemical Injectors with Acid Kit:</b>									
100827	1.5 mm	1.0 to 2.0 GPM	4,500 PSI	3/8" NPT-M	3/8" NPT-M	195° F	1/4"	0.3 lbs.	25
100828	1.8 mm	2.0 to 3.0 GPM	4,500 PSI	3/8" NPT-M	3/8" NPT-M	195° F	1/4"	0.3 lbs.	25
100829	2.1 mm	3.0 to 5.0 GPM	4,500 PSI	3/8" NPT-M	3/8" NPT-M	195° F	1/4"	0.3 lbs.	25
100830	2.3 mm	5.0 to 8.0 GPM	4,500 PSI	3/8" NPT-M	3/8" NPT-M	195° F	1/4"	0.3 lbs.	25



# INJECTORS

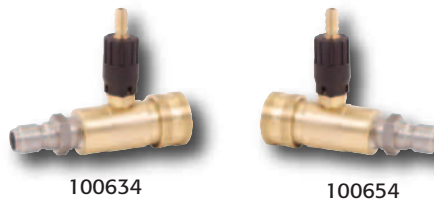
## Quick Connect Adjustable Chemical Injectors - Brass



Product Group: L

QUICK CONNECT ADJUSTABLE CHEMICAL INJECTORS - BRASS									
MODEL	ORIFICE	GPM	RATED	INLET	OUTLET	MAX TEMP	HOSE BARB	SHW WGHT	BOX QTY
100575	1.8 mm	2.0 to 3.0 GPM	3,500 PSI	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25
100576	2.1 mm	3.0 to 5.0 GPM	3,500 PSI	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25
100577	2.3 mm	5.0 to 8.0 GPM	3,500 PSI	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25
100617	1.8 mm	2.0 to 3.0 GPM	3,500 PSI	3/8" F Coupler	3/8" M Plug	190° F	1/4"	0.4 lbs.	25
100618	2.1 mm	3.0 to 5.0 GPM	3,500 PSI	3/8" F Coupler	3/8" M Plug	190° F	1/4"	0.4 lbs.	25
100619	2.3 mm	5.0 to 8.0 GPM	3,500 PSI	3/8" F Coupler	3/8" M Plug	190° F	1/4"	0.4 lbs.	25

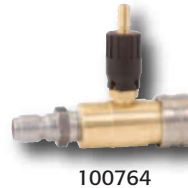
## Quick Connect Adjustable Chemical Injectors - Stainless Steel Plug



Product Group: L

QUICK CONNECT ADJUSTABLE CHEMICAL INJECTORS - STAINLESS STEEL PLUG									
MODEL	ORIFICE	GPM	RATED	INLET	OUTLET	MAX TEMP	HOSE BARB	SHW WGHT	BOX QTY
100633	1.8 mm	2.0 to 3.0 GPM	3,500 PSI	3/8" F Coupler	3/8" M Plug	190° F	1/4"	0.4 lbs.	25
100634	2.1 mm	3.0 to 5.0 GPM	3,500 PSI	3/8" F Coupler	3/8" M Plug	190° F	1/4"	0.4 lbs.	25
100635	2.3 mm	5.0 to 8.0 GPM	3,500 PSI	3/8" F Coupler	3/8" M Plug	190° F	1/4"	0.4 lbs.	25
100653	1.8 mm	2.0 to 3.0 GPM	3,500 PSI	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25
100654	2.1 mm	3.0 to 5.0 GPM	3,500 PSI	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25
100655	2.3 mm	5.0 to 8.0 GPM	3,500 PSI	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25

## Quick Connect Adjustable Chemical Injectors - Stainless Steel Plug & Collar



Product Group: L

QUICK CONNECT ADJUSTABLE CHEMICAL INJECTORS - STAINLESS STEEL PLUG & COLLAR									
MODEL	ORIFICE	GPM	RATED	INLET	OUTLET	MAX TEMP	HOSE BARB	SHW WGHT	BOX QTY
100763	1.8 mm	2.0 to 3.0 GPM	4,500 PSI	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25
100764	2.1 mm	3.0 to 5.0 GPM	4,500 PSI	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25
100765	2.3 mm	5.0 to 8.0 GPM	4,500 PSI	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25

## Fixed Chemical Injectors - Standard

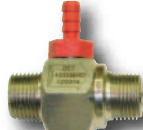


Product Group: L

FIXED CHEMICAL INJECTORS - STANDARD									
MODEL	ORIFICE	GPM	RATED	INLET	OUTLET	MAX TEMP	HOSE BARB	SHW WGHT	BOX QTY
100819	1.5 mm	1.0 to 2.0 GPM	4,250 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25
100820	1.8 mm	2.0 to 3.0 GPM	4,250 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25
100821	2.1 mm	3.0 to 5.0 GPM	4,250 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25
100822	2.3 mm	5.0 to 8.0 GPM	4,250 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25



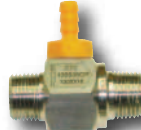
100541GY



100336RD



100094WT



100835OR



100781



100334GY



100339LG



100333BL

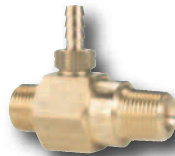
**NEW!**

**Chemical Injectors**  
Color-coded Kynar Hose Barbs,  
Special Elastomers,  
304 Stainless Steel

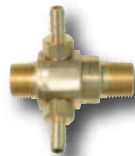
Product Group: L

COLOR CODED KYNAR BARBS NEW SPECIAL ELASOMERS, CERAMIC BALL, HASTELOY SPRING. REPAIRABLE!								
MODEL	ORIFICE	GPM	MAX	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WGHT
100336RD	1.45 mm	1.0 to 2.0	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100094WT	1.6 mm	2.0 to 3.0	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100835OR	1.8 mm	2.0 to 3.0	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100334GY	2.1 mm	2.0 to 4.0	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100333BL	2.2 mm	3.0 to 5.0	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100339LG	2.3 mm	5.0 to 8.0	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100541GY	2.1 mm	3.0 to 5.0	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4" (2)	0.4 lbs.
<b>100781</b>	<b>Metering Tips</b>							

REPAIR KITS AVAILABLE



100775

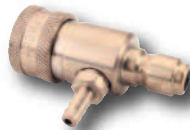


100790

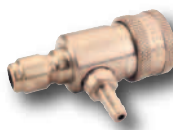
**Fixed Chemical Injectors - High Draw**

Product Group: L

FIXED CHEMICAL INJECTORS - HIGH DRAW - CHEMICAL DRAW UP TO 20%									
MODEL	ORIFICE	GPM	RATED	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WGHT	BOX QTY
100773	1.5 mm	1.0 to 2.0 GPM	4,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25
100774	1.8 mm	2.0 to 3.0 GPM	4,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25
100775	2.1 mm	3.0 to 5.0 GPM	4,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25
100776	2.3 mm	5.0 to 8.0 GPM	4,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25
<b>High Draw Fixed Chemical Injectors with Acid Kit:</b>									
100947	1.5 mm	1.0 to 2.0 GPM	4,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25
100948	1.8 mm	2.0 to 3.0 GPM	4,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25
100949	2.1 mm	3.0 to 5.0 GPM	4,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25
100950	2.3 mm	5.0 to 8.0 GPM	4,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25
<b>High Draw Dual Port Chemical Injectors:</b>									
100790	2.1 mm	3.0 to 5.0 GPM	4,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	(2) 1/4"	0.4 lbs.	25
100791	2.3 mm	5.0 to 8.0 GPM	4,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	(2) 1/4"	0.4 lbs.	25



100594



100570

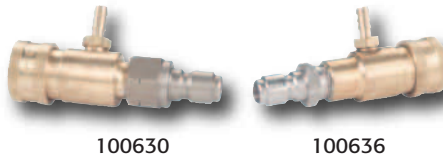
**Quick Connect Fixed Chemical Injectors - Brass**

Product Group: L

QUICK CONNECT FIXED CHEMICAL INJECTORS - BRASS									
MODEL	ORIFICE	GPM	RATED	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WGHT	BOX QTY
100570	1.8 mm	1.0 to 3.0 GPM	3,500 PSI	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25
100571	2.1 mm	3.0 to 5.0 GPM	3,500 PSI	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25
100572	2.3 mm	5.0 to 8.0 GPM	3,500 PSI	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25
100594	1.8 mm	1.0 to 3.0 GPM	3,500 PSI	3/8" F Coupler	3/8" M Plug	190° F	1/4"	0.4 lbs.	25
100595	2.1 mm	3.0 to 5.0 GPM	3,500 PSI	3/8" F Coupler	3/8" M Plug	190° F	1/4"	0.4 lbs.	25
100616	2.3 mm	5.0 to 8.0 GPM	3,500 PSI	3/8" F Coupler	3/8" M Plug	190° F	1/4"	0.4 lbs.	25

# INJECTORS

## Quick Connect Fixed Chemical Injectors - Stainless Steel Plug



100630

100636

Product Group: L

QUICK CONNECT FIXED CHEMICAL INJECTORS - STAINLESS STEEL PLUG									
MODEL	ORIFICE	GPM	RATED	INLET	OUTLET	MAX TEMP	HOSE BARB	SHW WGHT	BOX QTY
100690	1.5 mm	1.0 to 2.0 GPM	3,500 PSI	3/8" F Coupler	3/8" M Plug	190° F	1/4"	0.4 lbs.	25
100630	1.8 mm	2.0 to 3.0 GPM	3,500 PSI	3/8" F Coupler	3/8" M Plug	190° F	1/4"	0.4 lbs.	25
100631	2.1 mm	3.0 to 5.0 GPM	3,500 PSI	3/8" F Coupler	3/8" M Plug	190° F	1/4"	0.4 lbs.	25
100632	2.3 mm	5.0 to 8.0 GPM	3,500 PSI	3/8" F Coupler	3/8" M Plug	190° F	1/4"	0.4 lbs.	25
100636	1.8 mm	2.0 to 3.0 GPM	3,500 PSI	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25
100637	2.1 mm	3.0 to 5.0 GPM	3,500 PSI	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25
100638	2.3 mm	5.0 to 8.0 GPM	3,500 PSI	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25

## Chemical Valves



Y29094500

Y29095400

Product Group: T

CHEMICAL VALVES							
MODEL	DESCRIPTION	GPM	RATED	CONNECTIONS	MAX TEMP	HOSE BARB	SHW WGHT
Y29094500	Straight	2.6 GPM	400 PSI	1/4" BSP-M	105° F	1/4"	0.5 lbs.
Y29095400	90° Elbow	2.6 GPM	400 PSI	1/4" BSP-M	105° F	1/4"	0.4 lbs.

## Chemical Valves



100145

Close-up of Nozzle

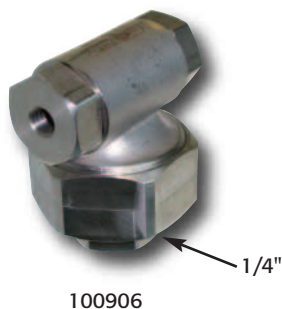
Product Group: L

**HIGH PRESSURE SOAP SHOOTER - Attaches to a QC on Lance or Extension Wand. Can Shoot soap up to 3 Stories!**

MODEL	NOZZLE SIZE
<b>Includes 30 Foot Hose, Filter and Nozzle:</b>	
100169	Includes 30 foot hose, filter and #3.5 stainless steel nozzle. 1/4" QC-M, 5,000 PSI MAX.
100145	Includes 30 foot hose, filter and #4.0 stainless steel nozzle. 1/4" QC-M, 5,000 PSI MAX.
100146	Includes 30 foot hose, filter and #4.5 stainless steel nozzle. 1/4" QC-M, 5,000 PSI MAX.
100147	Includes 30 foot hose, filter and #5.0 stainless steel nozzle. 1/4" QC-M, 5,000 PSI MAX.
100181	Includes 30 foot hose, filter and #6.0 stainless steel nozzle. 1/4" QC-M, 5,000 PSI MAX.
101012	Includes 30 foot hose, filter and #7.0 stainless steel nozzle. 1/4" QC-M, 5,000 PSI MAX.



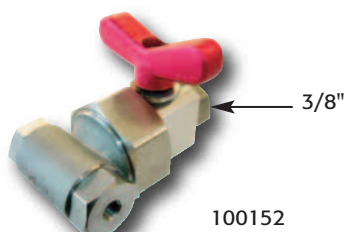
# PULSE PUMPS



Product Group: S

ADAPTER FITTINGS FOR 100906		
PUMP SERIES	FITTING (1/4" NPT-M)	VALVE
60 (TC, HTC)	520222	103036
47 and 50 (T, TT, TS, HTS)	520190	103035
44 (EZ), ES/ESN/EP	520197	103036
63 (TX, HTXS)	520197	103036
66 (TSF, HTF)	520223	103090
310/3CP/5CP (Cat)	520279	N/A
5CP3, 5CPS (Cat)	520341	N/A
5CP6 (Cat)	520342	N/A

PULSE PUMP							
MODEL	GPM	RATED	PULSE PUMP PORT INLET	WATER INLET	OUTLET	MAX TEMP	SHW WGHT
100906	0.75 GPM	1,500 PSI	1/4" NPT-F	1/8" NPT-F	1/8" NPT-F	190° F	1.5 lbs.



Product Group: S

ADAPTER FITTINGS FOR 100906		
PUMP SERIES	FITTING (3/8" NPT-M)	VALVE
60 (TC, HTC)	520275	103036
47 and 50 (T, TT, TS, HTS)	520274	103035
44 (EZ)	520273	103036
63 (TX, HTXS)	520273	103036
66 (TSF, HTF)	520276	103090
310/3CP/5CP (Cat)	520282	N/A
5CP3, 5CPS (Cat)	520292	N/A
5CP6 (Cat)	520343	N/A

PULSE PUMP with BALL VALVE - 3,000 PSI WHEN BALL VALVE IS ENGAGED							
MODEL	GPM	RATED	PULSE PUMP PORT INLET	WATER INLET	OUTLET	MAX TEMP	SHW WGHT
100152	0.75 GPM	1,500 PSI*	3/8" NPT-F	1/8" NPT-F	1/8" NPT-F	190° F	1.5 lbs.

**NEW!**  
**3,000 PSI**



Product Group: S

ADAPTER FITTINGS FOR 101067		
PUMP SERIES	FITTING (3/8" NPT-M)	VALVE
60 (TC)	520275	103036
44 (EZ)	520273	103036
63 (TX)	520273	103036
47 (HTS)	520274	103035
	520396	103035
66 (TSF)	520276	103090
310/3CP/5CP2 (Cat)	520282	N/A
5CP3/5CP5 (Cat)	520292	N/A
5CP6 (Cat)	520343	N/A

NEW! HIGH PRESSURE PULSE PUMP							
MODEL	GPM	MAX	PULSE PUMP PORT INLET	WATER INLET	OUTLET	MAX TEMP	SHW WGHT
101067	See Note Below*	3,000 PSI	3/8" NPT-F	1/8" NPT-F	1/8" NPT-F	190° F	2.0 lbs.

\*Flow will vary according to flow and pressure of the drive pump. For optimum performance, inlet pressure to the drive pump should be zero or negative but not to exceed drive pump specifications.

# SPRAY GUNS

## Front Entry Spray Guns



ZGP11



YRL20

Product Group: I

### FRONT ENTRY SPRAY GUNS

MODEL	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHP WGHT
YRL20	8.0 GPM	2,900 PSI	3,200 PSI	3/8" BSP-F	1/4" BSP-F	320° F	0.8 lbs.
ZGP11	10.5 GPM	3,000 PSI	3,000 PSI	3/8" BSP-F	1/4" BSP-F	285° F	1.2 lbs.

## Rear Entry Spray Guns



2100457



DGE5010SL



DG5010



YG4500S



YRL2640W



DGE4012NT



YG4000



YG5000



DG4512



DCG5010



DGE5010



DCG5010HE



YRL51



YRL56

Product Group: I

### REAR ENTRY SPRAY GUNS

MODEL	DESCRIPTION	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHP WGHT	BOX QTY
YG4500S	Straight	10.5 GPM	4,500 PSI	5,000 PSI	3/8" NPT-F	1/4" NPT-F	300° F	1.2 lbs.	20
YG4500SW	Straight, Weep	10.5 GPM	4,500 PSI	5,000 PSI	3/8" NPT-F	1/4" NPT-F	300° F	1.2 lbs.	20
YG4500ST	Straight, SS Inlet	10.5 GPM	4,500 PSI	5,000 PSI	3/8" NPT-F	1/4" NPT-F	300° F	1.2 lbs.	20
DG5000S	Straight	8.0 GPM	5,000 PSI	5,000 PSI	3/8" NPT-F	1/4" NPT-F	300° F	1.2 lbs.	20
YRL2640	Standard	8.0 GPM	3,650 PSI	4,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.0 lbs.	20
YRL2640W	Weep Seat	8.0 GPM	3,650 PSI	4,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.0 lbs.	20
YG5000	Standard	10.0 GPM	5,000 PSI	5,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.2 lbs.	20
YG5000W	Weep Seat	10.0 GPM	5,000 PSI	5,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.2 lbs.	20
YG2527S	Straight	27.0 GPM	2,500 PSI	2,500 PSI	1/2" NPT-F	1/2" NPT-F	320° F	2.8 lbs.	1
YG4032S	Straight	32.0 GPM	4,050 PSI	4,050 PSI	1/2" NPT-F	1/2" NPT-F	320° F	2.8 lbs.	1
<b>Chlorine Applications:</b>									
YG4500S	Ceramic Ball	10.5 GPM	4,500 PSI	5,000 PSI	3/8" NPT-F	1/4" NPT-F	300° F	1.2 lbs.	20
YG4500SW	Ceramic Ball	10.0 GPM	5,000 PSI	5,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.2 lbs.	20
YG4500S	Ceramic Ball and SS I/O	10.0 GPM	5,000 PSI	5,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.2 lbs.	20
YG4500SW	Straight/Weep	10.5 GPM	5,000 PSI	5,000 PSI	3/8" NPT-F	1/4" NPT-F	300° F	1.2 lbs.	
YG4010	Standard	10.5 GPM	4,500 PSI	5,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.2 lbs.	15
YG4010SW	Swivel	10.5 GPM	4,500 PSI	5,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.2 lbs.	11
YG4000	Standard	10.5 GPM	4,500 PSI	5,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.8 lbs.	40
YG4000WN	Weep Seat	10.5 GPM	3,650 PSI	4,050 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.8 lbs.	40
DG4000	Standard	8.0 GPM	4,000 PSI	4,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.1 lbs.	20
DG4000W	Weep Seat	8.0 GPM	4,000 PSI	4,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.1 lbs.	20
DGE4012NT	No Trigger	12.0 GPM	4,000 PSI	4,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.0 lbs.	20
DGE4012W	Weep Seat	12.0 GPM	4,000 PSI	4,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.4 lbs.	20
DG4512	Standard	12.0 GPM	4,500 PSI	4,500 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.3 lbs.	20
DG5010	Standard	10.0 GPM	5,000 PSI	5,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.4 lbs.	20
DCG5010W	Weep Seat	10.0 GPM	5,000 PSI	5,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.4 lbs.	20
DGE5010	Standard	10.5 GPM	5,000 PSI	5,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.4 lbs.	20
DGE5010SL	Locking Trigger	10.5 GPM	5,000 PSI	5,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.4 lbs.	20
2100457	Locking, Dual Trigger	10.5 GPM	5,000 PSI	5,000 PSI	3/8" NPT-F	1/4" NPT-F	250° F	1.4 lbs.	20
DCG5010	Compensating	10.5 GPM	5,000 PSI	5,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.4 lbs.	20
YRL51	Compensating	13.2 GPM	3,650 PSI	4,050 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.5 lbs.	20
YRL56	Compensating	8.0 GPM	5,100 PSI	5,650 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.5 lbs.	8
DCG5010HE	Excavating	10.5 GPM	5,000 PSI	5,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.4 lbs.	

SPRAY GUNS & LANCES

# SPRAY GUNS



YG1635



YG1635SR

## High Flow Rear Entry Wash Down Spray Guns

Product Group: I

### HIGH FLOW REAR ENTRY WASH DOWN SPRAY GUNS

MODEL	DESCRIPTION	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHW WT	BOX QTY
YG1635	Wash Down	16.0 GPM	350 PSI	350 PSI	1/2" BSP-F	Adj. Cone Nozzle	195° F	2.1 lbs.	10
<b>NEW!</b> YG1635N	Wash Down	16.0 GPM	350 PSI	350 PSI	1/2" NPT-F	Adj. Cone Nozzle			
YG1635S	Wash Down w/Swivel	16.0 GPM	350 PSI	350 PSI	1/2" BSP-F	Adj. Cone Nozzle	195° F	2.1 lbs.	10
YG1635SR	Wash Down w/Swivel, SS Pin	16.0 GPM	350 PSI	350 PSI	1/2" BSP-F	Adj. Cone Nozzle	195° F	2.1 lbs.	10
YG1635SS	Wash Down w/Swivel, 316 SS	16.0 GPM	350 PSI	350 PSI	1/2" BSP-F	Adj. Cone Nozzle	195° F	2.1 lbs.	10
YG2635AS	Wash Down w/Swivel	26.5 GPM	350 PSI	350 PSI	1/2" BSP-F	Adj. Cone Nozzle	195° F	3.5 lbs.	10



YG4060SS



YG1732



YG2953B



YG5200



YG7207

## Rear Entry Spray Guns Stainless Steel

Product Group: I

### REAR ENTRY SPRAY GUNS - STAINLESS STEEL

MODEL	DESCRIPTION	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHW WT	BOX QTY
YG1732	Cartridge	32.0 GPM	1,740 PSI	1,950 PSI	1/2" BSP-F	1/2" BSP-F	210° F	4.0 lbs.	20
YG2953B	Cartridge	53.0 GPM	2,900 PSI	3,200 PSI	3/4" BSP-F	1/2" BSP-F	210° F	5.0 lbs.	10
YG4060SS	Blue	10.5 GPM	4,500 PSI	5,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	2.0 lbs.	2
YG5200	Red	10.5 GPM	5,800 PSI	6,400 PSI	3/8" NPT-F	1/4" NPT-F	320° F	2.0 lbs.	20
YG5200/L42	YG5200 with 42" Stainless Steel Lance								
YG7207	Compensating	7.5 GPM	7,250 PSI	8,000 PSI	3/8" NPT-F	1/4" NPT-F	320° F	1.6 lbs.	1



Y30256717



DG3200M



101002

## Spray Gun/Lance Combinations

Product Group: I

### SPRAY GUN/LANCE COMBINATIONS

MODEL	DESCRIPTION	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHW WT
YRL56L	42" Lance	8.0 GPM	5,100 PSI	5,650 PSI	3/8" NPT-F	1/4" NPT-F	320° F	3.3 lbs.
YG3000DS	16" Lance	10.5 GPM	2,750 PSI	3,050 PSI	3/8" NPT-F	1/8" NPT-F	140° F	2.0 lbs.
YG3000D	40" Lance	10.5 GPM	2,750 PSI	3,050 PSI	3/8" NPT-F	1/8" NPT-F	140° F	3.0 lbs.
Y30256717	YG5000 Assembled with 36" Lance and 1/4" Quick Disconnect							
100751	YG5000 Assembled with 18" Lance and 1/4" Quick Disconnect							
100059	YG4010 Assembled with 36" Vented, Insulated Lance and 1/4" Quick Disconnect							
100160	DG5010 Assembled with 36" Insulated Lance and 1/4" Quick Disconnect							
101057	DG5010 Assembled with 36" Insulated lance and 1/4" Quick Disconnect							
101096	DG5010 Assembled with 48" Insulated Lance and 1/4" Quick Disconnect							
101109	DGE5010 Assembled with 24" Insulated Lance and 1/4" Quick Disconnect							
101110	DGE5010 Assembled with 36" Insulated Lance and 1/4" Quick Disconnect							
DG320014		6.5 GPM	3,200 PSI	3,200 PSI	1/4" NPT-F	M22-F	195° F	1.5 lbs.
DG320038		6.5 GPM	3,200 PSI	3,200 PSI	3/8" NPT-F	M22-F	195° F	1.5 lbs.
DG3200M		6.5 GPM	3,200 PSI	3,200 PSI	M22-M	M22-F	195° F	1.5 lbs.
101002	YG7207 Spray Gun with 36" stainless steel lance, 7.5 GPM, 7,250 PSI							
DGLN3230M	Gun, Lance, 1.3mm Nozzle, M22 Inlet							
DGLN3299M	Gun, Lance, 0.99 mm Nozzle, M22 Inlet							
DGLNH120	Gun, Lance Kit, 1.2 mm Nozzle, M22 Inlet, 1/4" Hose							
YG23LA27	Gun, 27" Adjustable Lance, 2.3 mm Nozzle, 21.0 GPM							

SPRAY GUNS & LANCES



# LANCES

## Stainless Steel Lances



YL8SS

Product Group: I

STAINLESS STEEL LANCES									
MODEL	LENGTH	GPM	RATED	MAX	INLET	OUTLET	SHW WT	BOX QTY	
YL8SS	8"	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-M	0.5 lbs.	200	
YL31SS	31"	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-M	0.7 lbs.	100	
YL40SS	40"	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-M	1.0 lbs.	100	
YL72SS	72"	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-M	1.8 lbs.	50	
680267	36"	32.0 GPM	4,000 PSI	4,000 PSI	1/2" NPT-M	1/2" NPT-M	3.0 lbs.	N/A	
680268	48"	32.0 GPM	4,000 PSI	4,000 PSI	1/2" NPT-M	1/2" NPT-M	4.0 lbs.	N/A	
680269	60"	32.0 GPM	4,000 PSI	4,000 PSI	1/2" NPT-M	1/2" NPT-M	5.0 lbs.	N/A	
680270	72"	32.0 GPM	4,000 PSI	4,000 PSI	1/2" NPT-M	1/2" NPT-M	6.0 lbs.	N/A	
680358	96"	32.0 GPM	4,000 PSI	4,000 PSI	1/2" NPT-M	1/2" NPT-M	8.0 lbs.	N/A	

## Insulated Lances - Straight



YL20PNS

Product Group: I

INSULATED LANCES - STRAIGHT									
MODEL	LENGTH	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHW WT	BOX QTY
YL20PNS	20"	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-M	320° F	1.1 lbs.	25
YL24PNS	24"	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-M	320° F	1.3 lbs.	25
YL27PNS	27"	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-M	320° F	1.4 lbs.	25
YL35PNS	35"	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-M	320° F	1.7 lbs.	25
YL47PNS	47"	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-M	320° F	2.2 lbs.	25
YL59PNS	59"	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-M	320° F	2.8 lbs.	25
YL67PNS	67"	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-M	320° F	3.0 lbs.	25
YL79PNS	79"	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-M	320° F	3.4 lbs.	25

## Insulated Lances - Bent



YL20PNB

Product Group: I

INSULATED LANCES - BENT									
MODEL	LENGTH	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHW WT	BOX QTY
YL36B	Vented 36"	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-M	320° F	1.7 lbs.	10
YL20PNB	20"	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-M	320° F	1.1 lbs.	25
YL24PNB	24"	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-M	320° F	1.3 lbs.	25
YL27PNB	27"	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-M	320° F	1.4 lbs.	25
YL35PNB	35"	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-M	320° F	1.7 lbs.	25
YL47PNB	47"	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-M	320° F	2.2 lbs.	25
YL59PNB	59"	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-M	320° F	2.8 lbs.	10
YL67PNB	67"	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-M	320° F	3.0 lbs.	10
YL79PNB	79"	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-M	320° F	3.0 lbs.	10
ZZ15	59" Zinc	10.5 GPM	3,500 PSI	N/A	1/4" BSP-M	1/4" BSP-M	284° F	2.5 lbs.	N/A



## Insulated Lances Chrome Plated

Product Group: I

DL24ICS

MODEL	LENGTH	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHP WGHT	BOX QTY
DL24ICS	24"	10.0 GPM	4,000 PSI	5,000 PSI	1/4" NPT-M	1/4" NPT-M	220° F	1.3 lbs.	25
DL27ICS	27"	10.0 GPM	4,000 PSI	5,000 PSI	1/4" NPT-M	1/4" NPT-M	220° F	1.4 lbs.	25
DL36ICS	36"	10.0 GPM	4,000 PSI	5,000 PSI	1/4" NPT-M	1/4" NPT-M	220° F	1.7 lbs.	25
DL42ICS	42"	10.0 GPM	4,000 PSI	5,000 PSI	1/4" NPT-M	1/4" NPT-M	220° F	1.7 lbs.	25
DL47ICS	47"	10.0 GPM	4,000 PSI	5,000 PSI	1/4" NPT-M	1/4" NPT-M	220° F	2.2 lbs.	25
DL59ICS	59"	10.0 GPM	4,000 PSI	5,000 PSI	1/4" NPT-M	1/4" NPT-M	220° F	2.8 lbs.	25
DL79ICS	79"	10.0 GPM	4,000 PSI	5,000 PSI	1/4" NPT-M	1/4" NPT-M	220° F	3.4 lbs.	25



## Vented Lances Chrome Plated

Product Group: I

DL36VCS

### VENTED LANCES - CHROME PLATED

MODEL	LENGTH	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHP WGHT	BOX QTY
DL36VCS	36"	10.0 GPM	4,000 PSI	5,000 PSI	1/4" NPT-M	1/4" NPT-M	320° F	1.7 lbs.	25
DL48VCS	48"	10.0 GPM	4,000 PSI	5,000 PSI	1/4" NPT-M	1/4" NPT-M	320° F	2.2 lbs.	25
DL60VCS	60"	10.0 GPM	4,000 PSI	5,000 PSI	1/4" NPT-M	1/4" NPT-M	320° F	2.7 lbs.	25

NEW!



## Vented Lances Stainless Steel

Product Group: I

DL36VSSB

### INSULATED LANCES - STAINLESS STEEL

MODEL	LENGTH	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHP WGHT	BOX QTY
DL36VSSB	36" Bent	10.0 GPM	4,000 PSI	5,000 PSI	1/4" NPT-M	1/4" NPT-M	320° F	1.7 lbs.	25
DL36VSS	36", Straight	10.0 GPM	4,000 PSI	5,000 PSI	1/4" NPT-M	1/4" NPT-M	320° F	1.7 lbs.	25



## Insulated Handle, Straight Double Lances

Product Group: I

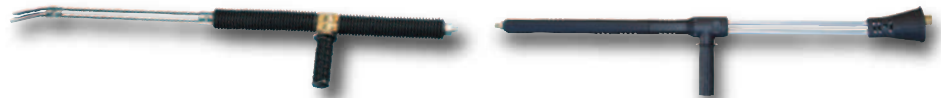
YDL33

### INSULATED HANDLE, STRAIGHT DOUBLE LANCES

MODEL	LENGTH	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHP WGHT	BOX QTY
YDL33	33"	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-M	320° F	2.2 lbs.	20
YDL41	41"	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-M	320° F	2.4 lbs.	20
YDL41SS	41", SS	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-M	320° F	2.4 lbs.	10
YDL33SSB	33", SS, Bent	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-M	320° F	2.2 lbs.	20
YDL41SSB	41", SS, Bent	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-M	320° F	2.4 lbs.	20

# LANCES

## Bent Double Lances Zinc Plated Steel



ZZDBL

DLD42VS

Product Group: I

BENT DOUBLE LANCES - ZINC PLATED STEEL									
MODEL	LENGTH	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHW WGHT	BOX QTY
YDL33B	33"	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-M	320° F	2.2 lbs.	20
YDL41B	41"	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-M	320° F	2.4 lbs.	20
ZZDBL	36"	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-M	284° F	2.5 lbs.	300
100673	ZZDBL Lance Assembly with 1/4" QD Connector and 965400M Nozzle								
100673Q	ZZDBL Lance Assembly with 1/4" QD Coupler and 965400M Nozzle								
ZZDBL72	72"	10.5 GPM	3,650 PSI	4,050 PSI	1/4" BSP-M	1/4" BSP-M	284° F	3.5 lbs.	50
DLD42VS	42" Vented	10.5	4,000 PSI	4,000 PSI	1/4" NPT-M	1/4" NPT-M	320° F	2.4	10
100752	ZZDBL72 Lance Assembly with 1/4" QD Connector and 965400M Nozzle, 284° F								

## Lances, Rectangle Handle Vented Grip



YLD943

Product Group: I

VENTED GRIP LANCES - RECTANGLE HANDLE									
MODEL	LENGTH	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHW WGHT	BOX QTY
YDL935	35"	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-F	320° F	2.6 lbs.	N/A
YLD943	43"	10.5 GPM	3,650 PSI	4,050 PSI	1/4" NPT-M	1/4" NPT-F	320° F	2.4 lbs.	N/A

## Lances

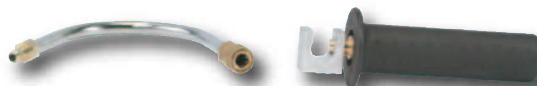


DLE1614

Product Group: I

LANCES									
MODEL	LENGTH	RATED	INLET	OUTLET	MAX TEMP	SHW WGHT	BOX QTY		
DLE1618	16"	3,200 PSI	M22-M	1/8" NPT-M	195° F	0.5 lbs.	12		
DLE2818	28"	3,200 PSI	M22-M	1/8" NPT-M	195° F	1.0 lbs.	12		
DLE1614	16"	3,200 PSI	M22-M	1/4" NPT-M	195° F	0.75 lbs.	12		
DLE2214	22"	3,200 PSI	M22-M	1/4" NPT-M	195° F	1.0 lbs.	12		
DLE2814	28"	3,200 PSI	M22-M	1/4" NPT-M	195° F	1.5 lbs.	12		

## Lance Accessories



D20011

D22000

Product Group: I

LANCE ACCESSORIES			BOX QTY
MODEL	DESCRIPTION		
D20011	12" Gutter Cleaner, 1/4" QC Connectors, for use with #5.0 or larger nozzle		50
D22000	Adjustable Lance Handle for 1/4" Lances		200
D10036	Pivot Coupler, mounts to any 1/4" QC lance and can lock position for difficult cleaning angles, 4500 PSI		100

NEW!



# PRESSURE CLEANING ACCESSORIES



DCFSCP20



DCFSCS22GZ



DFSCP24GZ



DFSCP12



DFSCGK

## Flat Surface Cleaners

Product Group:

### FLAT SURFACE CLEANERS - HEAVY-DUTY ABS COVER - COMPENSATING GUN

MODEL	BEARING	MAX GPM	RATED	MIN	DECK	INLET	NOZZLE	MAX TEMP	SHP WGHT	PALLET QTY
<b>NEW!</b> DFSCP12E	Sealed	4.0 GPM	3,000 PSI	800 PSI	12"	M22 M, 1/4"	925020S	150° F	6.5 lbs.	100
DFSCP12	Sealed	6.5 GPM	3,500 PSI	800 PSI	12"	3/8" NPT-F	925020S (2)	180° F	12.0 lbs.	99
DCFSCP18	Sealed	8.0 GPM	4,000 PSI	1,000 PSI	18"	3/8" NPT-F	925020M (2)	180° F	19.0 lbs.	12
DCFSCP18GZ	Grease Zirc	8.0 GPM	4,000 PSI	1,000 PSI	18"	3/8" NPT-F	925020M (2)	180° F	19.0 lbs.	12
DCFSCP20	Sealed	8.0 GPM	4,000 PSI	1,000 PSI	20"	3/8" NPT-F	925020M (2)	180° F	24.0 lbs.	12
DCFSCP20GZ	Grease Zirc	8.0 GPM	4,000 PSI	1,000 PSI	20"	3/8" NPT-F	925020M (2)	180° F	24.0 lbs.	12
<b>NEW!</b> DCFSCP24GZ	Grease Zirc	8.0 GPM	4,000 PSI	1,000 PSI	24"	3/8" NPT-F	925020M (3)	190° F	26.0 lbs.	12
2100200	Caster Kit, Flat Surface Cleaner									
<b>NEW!</b> DFSCGK	Kit, Manifold, Hose, brackets, allows additional spray gun to be attached to Flat Surface Cleaner									

### NEW!! FLAT SURFACE CLEANERS - STAINLESS STEEL - COMPENSATING GUN - INCLUDES CASTERS

MODEL	BEARING	MAX GPM	RATED	MIN	DECK	INLET	NOZZLE	MAX TEMP	SHP WGHT	PALLET QTY
DCFSCS22Z	Grease Zirc	8.0 GPM	4,000 PSI	1,000 PSI	22"	3/8" NPT-F	925020M (3)	180° F	28.0 lbs.	12



2100437\*



2100462\*



2100465\*



D30002



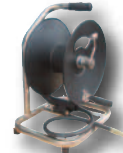
DHRA50300D



SHR50150



DHRA50150



2100357

\*Hose Reels Not Included

## Hose Reels

Product Group:

HOSE REELS - Direct hand crank rewind with locking mechanism, solid steel construction with durable powdercoat paint and full flow swivel and brass joint.

MODEL	DESCRIPTION	TEMP	MAX	SHP WGHT	PALLET
D30001	50' x 3/8" complete with mounting base, 10.5x6.7x7.4x11.5"	185° F	4,000 PSI	12.0 lbs.	60
D30002	100' x 3/8" complete with mounting base, 10.5x12x7.4x15.2"	185° F	4,000 PSI	13.0 lbs.	54
D30004	150' x 3/8" complete with mounting base, 13.4x9.8x8.8x10.8"	185° F	4,000 PSI	15.0 lbs.	36
D30006	200' x 3/8" complete with mounting base, 13.4x15x9.8x19.7"	185° F	4,000 PSI	12.0 lbs.	26
DHR50100D	Industrial, 100' x 3/8", complete with mounting base and pigtail, 16.2"x13.7"x14.8x10"	185° F	5,000 PSI	20.0 lbs.	36
DHR50150D	Industrial, 150' x 3/8", complete with mounting base and pigtail, 16.2"x13.7"x14.8x10"	185° F	5,000 PSI	22.0 lbs.	24
DHRA50150	Industrial, 150' x 3/8", "A" Frame	300° F	5,000 PSI	30.0 lbs.	18
DHRA50300	Industrial, 300' x 3/8", "A" Frame	300° F	5,000 PSI	32.0 lbs.	16
DHRA50450	Industrial, 450' x 3/8", "A" Frame	300° F	5,000 PSI	40.0 lbs.	16
<b>NEW!</b> DHRP50150	Industrial, 150' x 3/8", Pedestal	185° F	5,000 PSI	22.0 lbs.	24
SHR50150	High Temp, with stainless steel rim, 100'x3/8" complete with mounting base	400° F	5,000 PSI	18.0 lbs.	36
2100357	100' x 3/8" Hose Reel on base with carry handle, can be used with the sewer attachment below	185° F	5,000 PSI	18.0 lbs.	20

**NEW!**

### HOSE REEL ACCESSORIES

MODEL	DESCRIPTION
103166	Kit, 12 Volt motor kit for DHRA Hose Reels, Includes hardware motor and gear
2100465	Kit, Cart for DHRA Hose Reels
2100375	Kit, Cart for D3000 and DHR Hose Reels
2100379	Kit, Wall mount with swivel plate for D3000 and DHR Reels
2100462	Kit, Hose Guide, Protects hose when hose pulled, fits DHRA50150
2100463	Kit, Hose Guide, Protects hose when hose pulled, fits DHRA50300
2100503	Kit, Hose Guide, Protects hose when hose pulled, fits DHRA50450
2100437	Kit, Hose reel stacking kit, fits DHRA models, Stacks up to 4 high

# PRESSURE CLEANING ACCESSORIES



### SEWER JETTING HOSE REEL ATTACHMENT

MODEL	DESCRIPTION	TEMP	MAX	PALLET QTY
2100358	Sewer jetting hose reel attachment - attaches to any hose reel - includes ball valve, 1/4" inlet/outlet gauge and 3 sewer jet nozzles	185° F	5,000 PSI	N/A

## Water Brooms



100870C

The Original  
TRIKLEENER®



2100306



NEW!

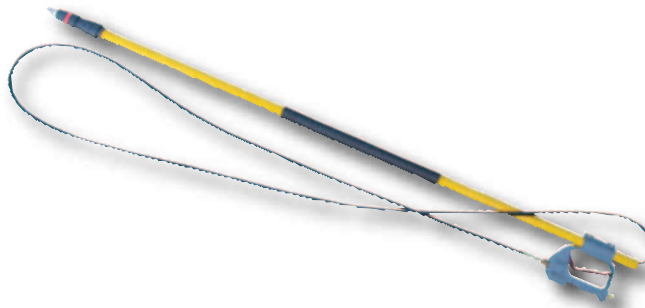
2100473

Product Group: T

### WATER BROOMS

MODEL	DESCRIPTION	NOZZLE PORTS	PRESSURE
100869C	12" Water Broom with (3) 65 Degree Nozzles, 36" Molded, Insulated Lance and 1/4" QC	3	3,000 PSI
100870C	16" Water Broom with (4) 65 Degree Nozzles, 36" Molded, Insulated Lance, 1/4" QC	4	3,000 PSI
2100306	TRIKLEENER® Water Broom, 12" Adjustable Height	3	4,500 PSI
2100473	BIKLEENER® Water Broom, 10" Width, Adjustable Height, Two Nozzles	2	3,000 PSI

## The Giraffe Telescoping Wands

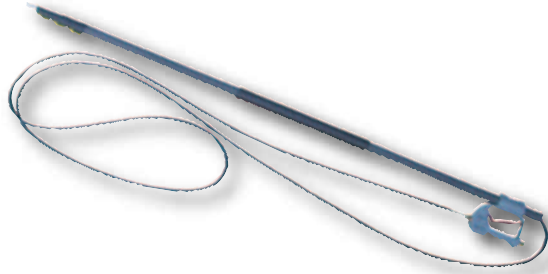


Product Group: I

GIRAFFE - TELESCOPING WANDS - CLEANING JOBS UP TO 3 STORIES HIGH, FOR USE WITH HOT OR COLD PRESSURE WASHERS. NOZZLE HOLDER ACCEPTS STANDARD QUICK COUPLE SPRAY NOZZLES, GUN INCLUDED

MODEL	LENGTH	GPM	MAX	OUTLET	RETRACTED DIMENSIONS	MAX TEMP	SHP WGHT	PALLET QTY
DLTG12	12 Feet	10.5 GPM	4,000 PSI	1/4" QC	6.1 x 7'5"	195° F	9.2 lbs.	55
<b>Complete with the compensating gun feature:</b>								
DCLTG18	18 Feet	10.5 GPM	4,000 PSI	1/4" QC	6.1 x 7'5"	195° F	11.6 lbs.	55
DCLTG24	24 Feet	10.5 GPM	4,000 PSI	1/4" QC	6.1 x 7'8"	195° F	14.2 lbs.	55

# PRESSURE CLEANING ACCESSORIES



## The Giraffe Telescoping Wands Aluminum

**Product Group: I**

GIRAFFE - TELESCOPING WANDS - ALL ALUMINUM POLE, DCLTG18A IS IN 3 SECTIONS, DCLTG44 IS IN 4 SECTIONS. 5/6" DOUBLE BRAID, 4,000 PSI HOSE, LIGHTWEIGHT POLES, NEW COMPENSATING GUN AND WAND BELT INCLUDED.

MODEL	LENGTH	GPM	MAX	OUTLET	RETRACTED DIMENSIONS	MAX TEMP	SHW WT	PALLET QTY
DCLTG18A	18 Feet	10.5 GPM	4,000 PSI	1/4" QC	6.8" x 6'5"	195° F	13.0 lbs.	55
DCLTG24A4	24 Feet	10.5 GPM	4,000 PSI	1/4" QC	6.8" x 6'8"	195° F	16.5 lbs.	55

GIRAFFE ACCESSORY - PRODUCT GROUP N

PART NUMBER	DESCRIPTION
D20015	Wand Belt, decreases strain on your back and shoulders. Attaches to all GP telescoping wands.



YLS12T

YLS12T

ZOFOAM

## Foamers

**Product Group: N**

FOAMERS

MODEL	DESCRIPTION	GPM	RATED	MAX	SHW WT	BOX QTY
YLS12	Foamer Lance with 1.5 mm Injector	6.5 GPM	2,900 PSI	3,200 PSI	1.5 lbs.	45
YLS12T	Foamer Lance with 1.5 mm Injector (1 qt. tank)	6.5 GPM	2,900 PSI	3,200 PSI	1.5 lbs.	5
YLS12T2	Foamer Lance with 1.5mm Injector (2 ltr tank)	6.5 GPM	2,900 PSI	3,200 PSI	1.7 lbs.	5
YLS12FEI25	Foamer Lance with external injector, 2.5mm Injector	6.5 GPM	2,900 PSI	3,200 PSI	1.7 lbs.	5
YLS31T	Foamer Lance with 1.25 mm Injector	5.3 GPM	2,300 PSI	2,600 PSI	1.0 lbs.	5
ZOFOAM	Foamer Nozzle Kit with Tank	4.0 GPM	1,450 PSI	1,450 PSI	1.5 lbs.	N/A

NEW!



YROTBRUSH

## Brushes

**Product Group: N**

BRUSHES

MODEL	DESCRIPTION	MAX	INLET	MAX TEMP	SHW WT	BOX QTY
YROTBRUSH	Natural Bristle Rotating Brush	435 PSI	1/4" BSP-M	140° F	1.8 lbs.	21
190091	YROTBRUSH with Lance					



D80040

## Pressure Washer Carts

**Product Group:**

BRUSHES

MODEL	DESCRIPTION
D80040	Small Cart, no Wheels, up to 6.5 HP Gas
D80041	Large Cart, no Wheels, up to 13 HP Gas
DP80009	1 Wheel, 10"
DP80010	1 Wheel, 13"

SPRAY GUNS & LANCES



# SPRAY TIPS

## Spray Tips



925055M



925055Q



925055S

Product Group: O

### SPRAY TIPS - THROUGH-HARDENED STAINLESS STEEL ORIFICE IN A STAINLESS STEEL HOUSING

Part Number Examples:

9	4	0	0	3	0	M
Spray Tip	Tip Angle = 40°		Tip Size = 03		Connection = 1/4" Male	
9	1	5	0	5	5	S
Spray Tip	Tip Angle = 15°		Tip Size = 055		Connection = 1/8" Male	
9	0	0	0	6	0	Q
Spray Tip	Tip Angle = 0°		Tip Size = 06		Connection = Quick Disconnect	

NOZZLE SIZE	SIZE	0° Red	15° Yellow	25° Green	40° White
	020	900020	915020	925020	940020
025	900025	915025	925025	940025	
030	900030	915030	925030	940030	
032	900032	915032	925032	940032	
035	900035	915035	925035	940035	
037	900037	915037	925037	940037	
040	900040	915040	925040	940040	
045	900045	915045	925045	940045	
050	900050	915050	925050	940050	
055	900055	915055	925055	940055	
060	900060	915060	925060	940060	
065	900065	915065	925065	940065	
070	900070	915070	925070	940070	
075	900075	915075	925075	940075	
080	900080	915080	925080	940080	
085	900085	915085	925085	940085	
090	900090	915090	925090	940090	
100	900100	915100	925100	940100	

	GPM @ PSI				
	1,000 PSI	2,000 PSI	3,000 PSI	4,000 PSI	5,000 PSI
1.0	1.41	1.73	2.00	2.24	
1.25	1.77	2.17	2.50	2.80	
1.50	2.12	2.60	3.00	3.35	
1.63	2.30	2.81	3.25	3.63	
1.75	2.47	3.03	3.50	3.91	
1.88	2.65	3.25	3.75	4.17	
2.0	2.83	3.46	4.00	4.47	
2.25	3.18	3.90	4.50	5.03	
2.50	3.54	4.33	5.00	5.59	
2.75	3.89	4.70	5.50	6.15	
3.0	4.24	5.20	6.00	6.70	
3.25	4.60	5.63	6.50	7.27	
3.50	4.95	6.06	7.00	7.83	
3.75	5.30	6.50	7.50	8.39	
4.00	5.66	6.93	8.00	8.94	
4.25	6.01	7.36	8.50	9.50	
4.5	6.36	7.79	9.00	10.06	
5.0	7.07	8.66	10.00	11.18	

## Standard Nozzles



Assorted Nozzles

Product Group: O

### STANDARD NOZZLES

MODEL	DESCRIPTION	SHP WGHT
F - Style	Spray Nozzle, 1/4" Female	0.1 lbs.
M - Style	Spray Nozzle, 1/4" NPT-M	0.1 lbs.
S - Style	Spray Nozzle, 1/8" NPT-M	0.1 lbs.
Q - Style	Spray Nozzle, 1/4" Quick Disconnect	0.1 lbs.

Please call your GP Sales Representative for additional nozzle sizes.

**NEW!**



HXNOZ

## HYDRO EXCAVATING NOZZLE

- STANDARD 1/2" NPT CONNECTION (FEMALE)
- HIGH IMPACT - 0 DEGREE NOZZLES (THREE)
- URETHANE COATED FOR DURABILITY AND OPERATOR PROTECTION
- STAINLESS STEEL BODY
- HARDENED STAINLESS NOZZLE INSERTS FOR LONG LIFE
- EASILY CHANGE WORN NOZZLES
- DIMENSIONS: 1-3/4" LONG X 2-1/4" WIDE
- FLOW TO 30 GPM, PRESSURE TO 4,000 PSI
- MULTIPLE COLOR OPTIONS AVAILABLE (with volume purchase)

**Product Group:**

TRIPLE-STREAM HYDRO EXCAVATING NOZZLE											
MODEL	NOZZLE 1	NOZZLE 2	NOZZLE 3	NOZZLE EQUIVALENT	FLOW - GPM						
					1000 PSI	1500 PSI	2000 PSI	2500 PSI	3000 PSI	3500 PSI	4000 PSI
<b>HXNOZ</b>											
HX212	900020SH	900010SH	900020SH	#5.0	2.50 GPM	3.06 GPM	3.54 GPM	3.95 GPM	4.33 GPM	4.68 GPM	5.00 GPM
HX222	900020SH	900020SH	900020SH	#6.0	3.00 GPM	3.67 GPM	4.24 GPM	4.74 GPM	5.20 GPM	5.61 GPM	6.00 GPM
HX232	900020SH	900030SH	900020SH	#7.0	3.50 GPM	4.29 GPM	4.95 GPM	5.53 GPM	6.06 GPM	6.55 GPM	7.00 GPM
HX323	900030SH	900020SH	900030SH	#8.0	4.00 GPM	4.90 GPM	5.66 GPM	6.32 GPM	6.93 GPM	7.48 GPM	8.00 GPM
HX333	900030SH	900030SH	900030SH	#9.0	4.50 GPM	5.51 GPM	6.36 GPM	7.12 GPM	7.79 GPM	8.42 GPM	9.00 GPM
HX343	900030SH	900040SH	900030SH	#10.0	5.00 GPM	6.12 GPM	7.07 GPM	7.91 GPM	8.66 GPM	9.35 GPM	10.00 GPM
HX434	900040SH	900030SH	900040SH	#11.0	5.50 GPM	6.74 GPM	7.78 GPM	8.70 GPM	9.53 GPM	10.29 GPM	11.00 GPM
HX444	900040SH	900040SH	900040SH	#12.0	6.00 GPM	7.35 GPM	8.49 GPM	9.49 GPM	10.39 GPM	11.22 GPM	12.00 GPM
HX454	900040SH	900050SH	900040SH	#13.0	6.50 GPM	7.96 GPM	9.19 GPM	10.28 GPM	11.26 GPM	12.16 GPM	13.00 GPM
HX545	900050SH	900040SH	900050SH	#14.0	7.00 GPM	8.57 GPM	9.90 GPM	11.07 GPM	12.12 GPM	13.10 GPM	14.00 GPM
HX555	900050SH	900050SH	900050SH	#15.0	7.50 GPM	9.19 GPM	10.61 GPM	11.86 GPM	12.99 GPM	14.03 GPM	15.00 GPM
HX565	900050SH	900060SH	900050SH	#16.0	8.00 GPM	9.80 GPM	11.31 GPM	12.65 GPM	13.86 GPM	14.97 GPM	16.00 GPM
HX656	900060SH	900050SH	900060SH	#17.0	8.50 GPM	10.41 GPM	12.02 GPM	13.44 GPM	14.72 GPM	15.90 GPM	17.00 GPM
HX666	900060SH	900060SH	900060SH	#18.0	9.00 GPM	11.02 GPM	12.73 GPM	14.23 GPM	15.59 GPM	16.84 GPM	18.00 GPM
HX676	900060SH	900070SH	900060SH	#19.0	9.50 GPM	11.64 GPM	13.44 GPM	15.02 GPM	16.45 GPM	17.77 GPM	19.00 GPM
HX767	900070SH	900060SH	900070SH	#20.0	10.00 GPM	12.25 GPM	14.14 GPM	15.81 GPM	17.32 GPM	18.71 GPM	20.00 GPM
HX777	900070SH	900070SH	900070SH	#21.0	10.50 GPM	12.86 GPM	14.85 GPM	16.60 GPM	18.19 GPM	19.64 GPM	21.00 GPM
HX787	900070SH	900080SH	900070SH	#22.0	11.00 GPM	13.47 GPM	15.56 GPM	17.39 GPM	19.05 GPM	20.58 GPM	22.00 GPM
HX878	900080SH	900070SH	900080SH	#23.0	11.50 GPM	14.08 GPM	16.26 GPM	18.18 GPM	19.92 GPM	21.51 GPM	23.00 GPM
HX888	900080SH	900080SH	900080SH	#24.0	12.00 GPM	14.70 GPM	16.97 GPM	18.97 GPM	20.78 GPM	22.45 GPM	24.00 GPM
HX898	900080SH	900090SH	900080SH	#25.0	12.50 GPM	15.31 GPM	17.68 GPM	19.76 GPM	21.65 GPM	23.39 GPM	25.00 GPM
HX989	900090SH	900080SH	900090SH	#26.0	13.00 GPM	15.92 GPM	18.38 GPM	20.55 GPM	22.52 GPM	24.32 GPM	26.00 GPM
HX999	900090SH	900090SH	900090SH	#27.0	13.50 GPM	16.53 GPM	19.09 GPM	21.35 GPM	23.38 GPM	25.26 GPM	27.00 GPM
HX9109	900090SH	900100SH	900090SH	#28.0	14.00 GPM	17.15 GPM	19.80 GPM	22.14 GPM	24.25 GPM	26.19 GPM	28.00 GPM
HX10910	900100SH	900090SH	900100SH	#29.0	14.50 GPM	17.75 GPM	20.51 GPM	22.93 GPM	25.11 GPM	27.13 GPM	29.00 GPM
HX101010	900100SH	900100SH	900100SH	#30.0	15.00 GPM	18.37 GPM	21.21 GPM	23.72 GPM	25.98 GPM	28.06 GPM	30.00 GPM

# NOZZLES

## Chemical Nozzles



Assorted Nozzles

Product Group: O

CHEMICAL NOZZLES			
MODEL	DESCRIPTION	SHP WGHT	BOX QTY
915500MSS	#50 Orifice, 15° Spray Angle, Stainless Steel, 1/4" NPT-M	0.1 lbs.	250
915500QB	#50 Orifice, 15° Spray Angle, Brass, Q-Style	0.1 lbs.	250
965400M	#40 Orifice, 65° Spray Angle, 1/4" NPT-M	0.1 lbs.	250
965400Q	#40 Orifice, 65° Spray Angle, Q-Style, 100% Brass	0.1 lbs.	250
965400S	#40 Orifice, 65° Spray angle, 1/8" NPT-M	0.1 lbs.	250
925400M	#40 Orifice, 25° Spray Angle, 1/4" NPT-M	0.1 lbs.	250
925400Q	#40 Orifice, 15° Spray Angle, Q-Style, 100% Brass	0.1 lbs.	250
900400Q	#40 Orifice, 0° Spray Angle, Q-Style, 100% Brass	0.1 lbs.	250

## Nozzle 5-Packs 1/4" Quick Disconnect



Nozzle 5-Pack

Product Group: P

NOZZLE 5-PACKS - ONE EACH: 0°, 15°, 25°, 40°, PLUS ONE 65° #40 CHEMICAL		
MODEL	DESCRIPTION	SHP WGHT
105203	#2.5	0.5 lbs.
105082	#3.0	0.5 lbs.
105083	#3.5	0.5 lbs.
105084	#4.0	0.5 lbs.
105085	#4.5	0.5 lbs.
105086	#5.0	0.5 lbs.
105087	#5.5	0.5 lbs.
105088	#6.0	0.5 lbs.
105089	#6.5	0.5 lbs.
105090	#7.0	0.5 lbs.
105194	#7.5	0.5 lbs.

## Nozzle 4-Packs 1/4" Quick Disconnect



Nozzle 4-Pack

Product Group: P

NOZZLE 4-PACKS - ONE EACH: 0°, 15°, 25°, 40°		
MODEL	DESCRIPTION	SHP WGHT
105127	#3.0	0.5 lbs.
105120	#3.5	0.5 lbs.
105121	#4.0	0.5 lbs.
105122	#4.5	0.5 lbs.
105123	#5.0	0.5 lbs.
105124	#5.5	0.5 lbs.
105125	#6.0	0.5 lbs.
105126	#6.5	0.5 lbs.
105101	#9.0	0.5 lbs.



# NOZZLES



YHL20

## Adjustable Nozzles Variable Spray Angle and High/Low Pressure Setting

Product Group: A

ADJUSTABLE NOZZLES, VARIABLE SPRAY ANGLE AND HIGH/LOW PRESSURE SETTINGS							
MODEL	SIZE/COLOR	RATED	MAX	INLET	MAX TEMP	SHW WTGHT	BOX QTY
YHL20	#2.0/Light Green	3,650 PSI	4,050 PSI	1/4" BSP-F	195° F	0.4 lbs.	10
YHL25	#2.5/Pink	3,650 PSI	4,050 PSI	1/4" BSP-F	195° F	0.4 lbs.	10
YHL30	#3.0/White	3,650 PSI	4,050 PSI	1/4" BSP-F	195° F	0.4 lbs.	10
YHL35	#3.5/Brown	3,650 PSI	4,050 PSI	1/4" BSP-F	195° F	0.4 lbs.	10
YHL40	#4.0/Dark Yellow	3,650 PSI	4,050 PSI	1/4" BSP-F	195° F	0.4 lbs.	10
YHL45	#4.5/Blue	3,650 PSI	4,050 PSI	1/4" BSP-F	195° F	0.4 lbs.	10
YHL50	#5.0/Light Purple	3,650 PSI	4,050 PSI	1/4" BSP-F	195° F	0.4 lbs.	10
YHL55	#5.5/Dark Red	3,650 PSI	4,050 PSI	1/4" BSP-F	195° F	0.4 lbs.	10
YHL60	#6.0/Dark Green	3,650 PSI	4,050 PSI	1/4" BSP-F	195° F	0.4 lbs.	10
YHL70	#7.0/Orange	3,650 PSI	4,050 PSI	1/4" BSP-F	195° F	0.4 lbs.	10
YHL80	#8.0/Silver	3,650 PSI	4,050 PSI	1/4" BSP-F	195° F	0.4 lbs.	10



DHL4120

## Adjustable Spray High/Low Pressure Nozzles

Product Group: A

ADJUSTABLE SPRAY HIGH/LOW PRESSURE NOZZLES						
MODEL	SIZE/COLOR	RATED	INLET	MAX TEMP	SHW WTGHT	BOX QTY
DHL4086	0.86 mm/Green	3,200 PSI	1/4" NPT-F	195° F	0.5 lbs.	90
DHL4099	0.99 mm/Pink	3,200 PSI	1/4" NPT-F	195° F	0.5 lbs.	90
DHL4120	1.2 mm/Brown	3,200 PSI	1/4" NPT-F	195° F	0.5 lbs.	90
DHL4130	1.3 mm/Yellow	3,200 PSI	1/4" NPT-F	195° F	0.5 lbs.	90
DHL4140	1.4 mm/ Blue	3,200 PSI	1/4" NPT-F	195° F	0.5 lbs.	90
DHL4150	1.5 mm/Red	3,200 PSI	1/4" NPT-F	195° F	0.5 lbs.	90
DHL4160	1.6 mm/Green	3,200 PSI	1/4" NPT-F	195° F	0.5 lbs.	10
DHL4170	1.7 mm/Orange	3,200 PSI	1/4" NPT-F	195° F	0.5 lbs.	90
DHL4180	1.8 mm/Silver	3,200 PSI	1/4" NPT-F	195° F	0.5 lbs.	10



YHILO



ZOMULTIREG99

## Adjustable Nozzles, Premium High/Low Pressure Settings and Variable Spray Angles

Product Group: A

ADJUSTABLE NOZZLES, HIGH/LOW PRESSURE SETTINGS AND VARIABLE SPRAY ANGLES							
MODEL	SIZE/COLOR	RATED	MAX	INLET	MAX TEMP	SHW WTGHT	BOX QTY
YHILO110	#3.0/White	4,050 PSI	4,500 PSI	1/4" BSP-F	195° F	0.5 lbs.	10
YHILO120	#3.5/Brown	4,050 PSI	4,500 PSI	1/4" BSP-F	195° F	0.5 lbs.	10
YHILO130	#4.0/Yellow	4,050 PSI	4,500 PSI	1/4" BSP-F	195° F	0.5 lbs.	10
YHILO140	#4.5/Blue	4,050 PSI	4,500 PSI	1/4" BSP-F	195° F	0.5 lbs.	10
YHILO150	#5.5/Red	4,050 PSI	4,500 PSI	1/4" BSP-F	195° F	0.5 lbs.	10
YHILO160	#6.0/Dark Green	4,050 PSI	4,500 PSI	1/4" BSP-F	195° F	0.5 lbs.	10
YHILO170	#7.0/Orange	4,050 PSI	4,500 PSI	1/4" BSP-F	195° F	0.5 lbs.	10
YHL412	#12.0/Yellow	4,050 PSI	4,500 PSI	1/4" BSP-F	195° F	0.5 lbs.	10
ZOMULTIREG99*	5.5 GPM	3,000 PSI	3,000 PSI	1/4" BSP-F	195° F	1.1 lbs.	N/A

NEW

\*When ordering ZOMULTIREG99, specify nozzle as needed for application.

SPRAY TIPS & NOZZLES

# NOZZLES

## Rotating Nozzles



Y3K



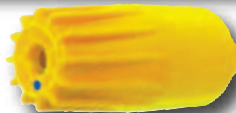
Y5K

Product Group: A

ROTATING NOZZLES

MODEL	SIZE	MAX	INLET	MAX TEMP	SHP WGHT	BOX QTY
Y3K020	2.0	3,000 PSI	1/4" BSP-F	194° F	.75 lbs.	5
Y3K030	3.0	3,000 PSI	1/4" BSP-F	194° F	.75 lbs.	5
Y3K035	3.5	3,000 PSI	1/4" BSP-F	194° F	.75 lbs.	5
Y3K040	4.0	3,000 PSI	1/4" BSP-F	194° F	.75 lbs.	5
Y3K045	4.5	3,000 PSI	1/4" BSP-F	194° F	.75 lbs.	5
Y3K050	5.0	3,000 PSI	1/4" BSP-F	194° F	.75 lbs.	5
Y3K055	5.5	3,000 PSI	1/4" BSP-F	194° F	.75 lbs.	5
Y3K060	6.0	3,000 PSI	1/4" BSP-F	194° F	.75 lbs.	5
Y3K065	6.5	3,000 PSI	1/4" BSP-F	194° F	.75 lbs.	5
Y3K070	7.0	3,000 PSI	1/4" BSP-F	194° F	.75 lbs.	5
Y5K020	2.0	5,000 PSI	1/4" BSP-F	194° F	1.75 lbs.	5
Y5K030	3.0	5,000 PSI	1/4" BSP-F	194° F	1.75 lbs.	5
Y5K035	3.5	5,000 PSI	1/4" BSP-F	194° F	1.75 lbs.	5
Y5K040	4.0	5,000 PSI	1/4" BSP-F	194° F	1.75 lbs.	5
Y5K045	4.5	5,000 PSI	1/4" BSP-F	194° F	1.75 lbs.	5
Y5K050	5.0	5,000 PSI	1/4" BSP-F	194° F	1.75 lbs.	5
Y5K055	5.5	5,000 PSI	1/4" BSP-F	194° F	1.75 lbs.	5
Y5K060	6.0	5,000 PSI	1/4" BSP-F	194° F	1.75 lbs.	5
Y5K065	6.5	5,000 PSI	1/4" BSP-F	194° F	1.75 lbs.	5
Y5K080	8.0	5,000 PSI	1/4" BSP-F	194° F	1.75 lbs.	5
Y5K090	9.0	5,000 PSI	1/4" BSP-F	194° F	1.75 lbs.	5
Y5K100	10.0	5,000 PSI	1/4" BSP-F	194° F	1.75 lbs.	5
Y5K120	12.0	5,000 PSI	1/4" BSP-F	194° F	1.75 lbs.	5
Y5K200	20.0	5,000 PSI	1/4" BSP-F	194° F	1.75 lbs.	5

## Rotating Nozzles



YR23K40



YR36K30



YR51K30

Product Group: A

ROTATING NOZZLES - SHOCK RESISTANT CERAMIC, INTERNAL STABILIZATION SPRING, CAN BE OPERATED IN ANY DIRECTION. YR23K IS DESIGNED FOR LOWER PRESSURES, YR36K IS DESIGNED TO OPERATE AT PRESSURES MOST COMMON IN THE MARKET AND YR51K IS FOR HIGHER PRESSURES AND MORE DEMANDING APPLICATIONS.

MODEL	SIZE	MIN PRESSURE	MAX PRESSURE	INLET	MAX TEMP	SHP WGHT	BOX QTY
YR23K20	2.0	435 PSI	2,300 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR23K25	2.5	435 PSI	2,300 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR23K30	3.0	435 PSI	2,300 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR23K35	3.5	435 PSI	2,300 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR23K40	4.0	435 PSI	2,300 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR23K45	4.5	435 PSI	2,300 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR23K50	5.0	435 PSI	2,300 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR23K55	5.5	435 PSI	2,300 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR23K60	6.0	435 PSI	2,300 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR23K65	6.5	435 PSI	2,300 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR23K70	7.0	435 PSI	2,300 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR23K80	8.0	435 PSI	2,300 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR36K30	3.0	1,150 PSI	3,650 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR36K35	3.5	1,150 PSI	3,650 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR36K40	4.0	1,150 PSI	3,650 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR36K45	4.5	1,150 PSI	3,650 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR36K50	5.0	1,150 PSI	3,650 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR36K55	5.5	1,150 PSI	3,650 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR36K60	6.0	1,150 PSI	3,650 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR36K65	6.5	1,150 PSI	3,650 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR36K70	7.0	1,150 PSI	3,650 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR36K80	8.0	1,150 PSI	3,650 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR51K30	3.0	2,600 PSI	5,100 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR51K35	3.5	2,600 PSI	5,100 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR51K40	4.0	2,600 PSI	5,100 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR51K45	4.5	2,600 PSI	5,100 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR51K50	5.0	2,600 PSI	5,100 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR51K55	5.5	2,600 PSI	5,100 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR51K60	6.0	2,600 PSI	5,100 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR51K65	6.5	2,600 PSI	5,100 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR51K70	7.0	2,600 PSI	5,100 PSI	1/4" BSP-F	212° F	0.9 lbs.	5
YR51K80	8.0	2,600 PSI	5,100 PSI	1/4" BSP-F	212° F	0.9 lbs.	5

# NOZZLES



ZROTOMAX1



ZRMAX581

## Adjustable Rotating Nozzles

Product Group: A

ADJUSTABLE ROTATING NOZZLES									
MODEL	COLOR	ORIFICE	GPM	RATED	MAX	INLET	MAX TEMP	SHP WGHT	BOX QTY
ZROTOMAX1	Red		2.1 to 2.6 GPM	1,450 PSI	3,500 PSI	1/4" BSP-F	176° F	1.1 lbs.	15
ZROTOMAX2	Light Blue		2.9 to 4.0 GPM	1,450 PSI	3,500 PSI	1/4" BSP-F	176° F	1.1 lbs.	15
ZROTOMAX3	Black		4.2 to 5.5 GPM	1,450 PSI	3,500 PSI	1/4" BSP-F	176° F	1.1 lbs.	15
ZRMAX581	Red	140	2.3 to 4.7 GPM	5,800 PSI	5,800 PSI	1/4" BSP-F	176° F	0.7 lbs.	N/A
ZRMAX583	Black	160	3.3 to 6.6 GPM	5,800 PSI	5,800 PSI	1/4" BSP-F	176° F	0.7 lbs.	N/A

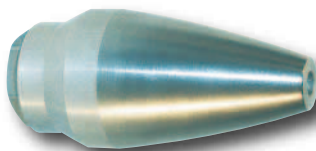


100467

## GP Viper Rotating Nozzles

Product Group: A

GP VIPER ROTATING NOZZLES						
MODEL	SIZE	MAX	MAX TEMP	SHP WGHT	BOX QTY	
100467	#5.5	5,000 PSI	190° F	1.1 lbs.	10	
100487	#4.5	5,000 PSI	190° F	1.1 lbs.	10	



Y7K045

## Rotating Nozzles Stainless Steel With Tungsten Carbide

Product Group: K

ROTATING NOZZLES - STAINLESS STEEL WITH TUNGSTEN CARBIDE						
MODEL	SIZE	MAX	INLET	MAX TEMP	SHP WGHT	BOX QTY
Y7K040	#4.0	7,000 PSI	1/4" BSP-F	194° F	1.5 lbs.	5
Y7K045	#4.5	7,000 PSI	1/4" BSP-F	194° F	1.5 lbs.	5
Y7K050	#5.0	7,000 PSI	1/4" BSP-F	194° F	1.5 lbs.	5
Y7K055	#5.5	7,000 PSI	1/4" BSP-F	194° F	1.5 lbs.	5
Y7K060	#6.0	7,000 PSI	1/4" BSP-F	194° F	1.5 lbs.	5
Y7K065	#6.5	7,000 PSI	1/4" BSP-F	194° F	1.5 lbs.	5
Y7K070	#7.0	7,000 PSI	1/4" BSP-F	194° F	1.5 lbs.	5



YRT87K20

## Rotating Nozzles Stainless Steel With Tungsten Carbide

Product Group: K

ROTATING NOZZLES- STAINLESS STEEL WITH TUNGSTEN CARBIDE						
MODEL	NOZZLE	MIN	MAX	INLET	MAX TEMP	SHP WGHT
YRT87K20	#2.0	2,600 PSI	8,700 PSI	1/4" BSP-F	195° F	1.2 lbs.
YRT87K30	#3.0	2,600 PSI	8,700 PSI	1/4" BSP-F	195° F	1.2 lbs.
YRT87K40	#4.0	2,600 PSI	8,700 PSI	1/4" BSP-F	195° F	1.2 lbs.
YRT87K50	#5.0	2,600 PSI	8,700 PSI	1/4" BSP-F	195° F	1.2 lbs.
YRT87K60	#6.0	2,600 PSI	8,700 PSI	1/4" BSP-F	195° F	1.2 lbs.
YRT87K70	#7.0	2,600 PSI	8,700 PSI	1/4" BSP-F	195° F	1.2 lbs.
YRT87K80	#8.0	2,600 PSI	8,700 PSI	1/4" BSP-F	195° F	1.2 lbs.



# NOZZLES

## Drain Cleaning Nozzles



Product Group: A

YDRNT

DRAIN CLEANING NOZZLES					
MODEL	DESCRIPTION	GPM	MAX	INLET	SHW WTGHT
YDRNT1	Microdrain, Brass, #3.5	2.3 GPM	1,750 PSI	1/4" BSP-M	0.2 lbs.
YDRNT2	Microdrain, Stainless Steel, #4.0	3.8 GPM	3,650 PSI	1/4" BSP-M	0.2 lbs.
YDRNT3	Microdrain, Stainless Steel, #6.0	5.7 GPM	3,650 PSI	3/8" BSP-M	0.2 lbs.
ZUDRNT	Drainet, Adjustable Equivalent Orifice Diameter	16.0 GPM	3,000 PSI	3/8" BSP-M	0.2 lbs.
ZUMDRNT1	Microdrain, #5.5, Equivalent Orifice Diameter	5.1 GPM	3,500 PSI	1/8" BSP-F	0.2 lbs.
ZUMDRNT2	Microdrain, #8.5, Equivalent Orifice Diameter	7.4 GPM	3,000 PSI	1/8" BSP-F	0.2 lbs.
2900003	Sewer Jet Nozzle, #3, 1 Front, 6 Rear	3.35 GPM	5,000 PSI	1/4" NPT-F	0.2 lbs.
2900004	Sewer Jet Nozzle, #3, 3 Rear	3.35 GPM	5,000 PSI	1/4" NPT-F	0.2 lbs.
2900005	Sewer Jet Nozzle, #3, 1 Front, 3 Rear	3.35 GPM	5,000 PSI	1/4" NPT-F	0.2 lbs.

## Adjustable Nozzle Holder



Product Group: H

YADJNOZ

ADJUSTABLE NOZZLE HOLDER					
MODEL	GPM	MAX	INLET	OUTLET	SHW WTGHT
YADJNOZ	8.0 GPM	3,650 PSI	1/4" BSP-F	1/4" BSP-F	0.5 lbs.

## Double Nozzle Holders



Product Group: H

YDBL

DOUBLE NOZZLE HOLDERS					
MODEL	GPM	MAX	INLET	OUTLET	SHW WTGHT
DDBL14	10.5 GPM	2,900 PSI	1/4" BSP-F	(2) 1/4" NPT-F	0.5 lbs.
YDBL14	10.5 GPM	2,900 PSI	1/4" BSP-F	(2) 1/4" NPT-F	0.5 lbs.
YDBL18	10.5 GPM	2,900 PSI	1/4" BSP-F	(2) 1/8" NPT-F	0.5 lbs.
ZUDBL	5.5 GPM	3,000 PSI	1/4" BSP-F	(2) 1/4" BSP-F	0.5 lbs.

## Steam Nozzle



Product Group: A

YSTN14F

STEAM NOZZLE					
MODEL	DESCRIPTION	MAX	INLET	SHW WTGHT	
YSTN14F	1.5 mm, .06 Nozzle	1,450 PSI	1/4" BSP-F	0.3 lbs.	

## Duct Cleaning Nozzle



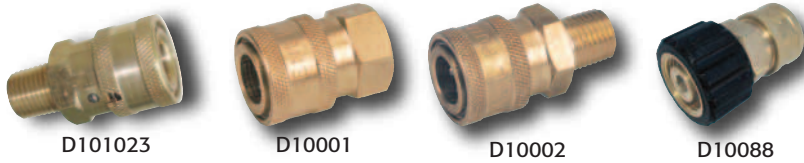
**NEW!**

DDC25020

Product Group: A

STEAM NOZZLE							
MODEL	DESCRIPTION	GPM	RATED	MAX	INLET	NOZZLE	SHW WTGHT
DDC25020	Duct Cleaning Nozzle, grease zirk on swivel	8.0 GPM	1,500 PSI	4,000 PSI	1/4" NPT-F	925020S (2)	12.0 lbs.

# COUPLERS & FITTINGS



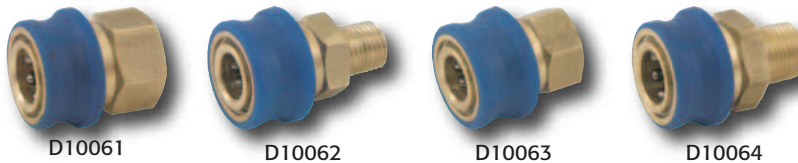
## Quick Disconnect Couplers EPDM O-Ring

Product Group: H

### QUICK DISCONNECT COUPLERS - EPDM O-RING

PART NUMBER	DESCRIPTION	MAX	MAX TEMP	BOX QTY
D10001	1/4" with 1/4" NPT-F	5,000 PSI	175° F	200
D10003	3/8" with 3/8" NPT-F	4,000 PSI	175° F	200
D10002	1/4" with 1/4" NPT-M	5,000 PSI	175° F	200
D10004	3/8" with 3/8" NPT-M	4,000 PSI	175° F	200
D10005	3/8" with 1/2" NPT-M	4,000 PSI	175° F	200
D10035	3/8" with M22 Plug	4,000 PSI	175° F	200
D10088	3/8" with M22-F	4,000 PSI	175° F	200
D10122	1/4" with 1/4" NPT- F, with Collar Stop	5,000 PSI	175° F	200
D10123	1/4" with 1/4" NPT- M, with Collar Stop	5,000 PSI	175° F	200
D10124	3/8" with 3/8" NPT- F, with Collar Stop	5,000 PSI	175° F	200
D10125	3/8" with 3/8" NPT- M, with Collar Stop	5,000 PSI	175° F	200
D10090L	1/2" with 1/2" NPT- F, with Collar Stop	5,000 PSI	175° F	200
D10091L	1/2" with 1/2" NPT- M, with Collar Stop	5,000 PSI	175° F	200
100880	O-ring Kit, 1/4", Contains 100 Pieces	5,000 PSI	175° F	200
100881	O-ring Kit, 3/8", Contains 100 Pieces	4,000 PSI	175° F	50

NEW!



## Quick Disconnect Couplers Easy-Grip

Product Group: H

### QUICK DISCONNECT COUPLERS - EASY GRIP

PART NUMBER	DESCRIPTION	MAX	MAX TEMP	BOX QTY
D10061	1/4" with 1/4" NPT-F, with Easy-Grip Feature	5,000 PSI	175° F	200
D10062	1/4" with 1/4" NPT-M, with Easy-Grip Feature	5,000 PSI	175° F	200
D10063	3/8" with 3/8" NPT-F, with Easy-Grip Feature	4,000 PSI	175° F	200
D10064	3/8" with 3/8" NPT-M, with Easy-Grip Feature	4,000 PSI	175° F	200



## Quick Disconnect Plugs

Product Group: H

### QUICK DISCONNECT PLUGS

PART NUMBER	DESCRIPTION	MAX	BOX QTY
D11006	1/4" Plug with 1/4" NPT-F, Hardened Steel, Zinc Plated	5,000 PSI	200
D11007	1/4" Plug with 1/4" NPT-M, Hardened Steel, Zinc Plated	5,000 PSI	200
D11008	3/8" Plug with 3/8" NPT-F, Hardened Steel, Zinc Plated	4,000 PSI	200
D11009	3/8" Plug with 3/8" NPT-M, Hardened Steel, Zinc Plated	4,000 PSI	200
D10089	3/8" Plug with M22-M, YZD Plated	4,000 PSI	200
520133	1/4" Plug with 1/4" NPT-F, Hardened Steel	5,500 PSI	200
520134	1/4" Plug with 1/4" NPT-M, Hardened Steel	5,500 PSI	200
520135	3/8" Plug with 3/8" NPT-F, Hardened Steel	5,000 PSI	200
520136	3/8" Plug with 3/8" NPT-M, Hardened Steel	5,000 PSI	150



## Quick Disconnect Couplers Stainless Steel

Product Group: H

### QUICK DISCONNECT COUPLERS - STAINLESS STEEL

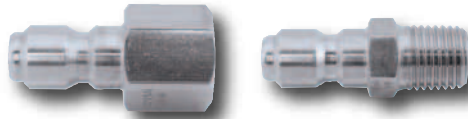
PART NUMBER	DESCRIPTION	MAX	MAX TEMP	BOX QTY
D10072	1/4" with 1/4" NPT-F, Stainless Steel	6,000 PSI	175° F	200
D10073	1/4" with 1/4" NPT-M, Stainless Steel	6,000 PSI	175° F	200
D10074	3/8" with 3/8" NPT-F, Stainless Steel	5,000 PSI	175° F	200
D10075	3/8" with 3/8" NPT-M, Stainless Steel	5,000 PSI	175° F	200
D10090	1/2" with 1/2" NPT-F, Stainless Steel	5,000 PSI	175° F	200
D10091	1/2" with 1/2" NPT-M, Stainless Steel	5,000 PSI	175° F	200

**High Pressure Quick Disconnect Coupler (not Stainless Steel)**

639829	Coupler Set, 1/2" NPT-F, Locking Collar, Stainless Steel	10,000 PSI	175° F	N/A
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# COUPLERS & FITTINGS

## Quick Disconnect Plugs Stainless Steel



D10076

D10077

Product Group: H

### QUICK DISCONNECT PLUGS - STAINLESS STEEL

PART NUMBER	DESCRIPTION	MAX	BOX QTY
D10076	1/4" Plug with 1/4" NPT-F, Stainless Steel	6,000 PSI	200
D10077	1/4" Plug with 1/4" NPT-M, Stainless Steel	6,000 PSI	200
D10078	3/8" Plug with 3/8" NPT-F, Stainless Steel	6,000 PSI	200
D10079	3/8" Plug with 3/8" NPT-M, Stainless Steel	6,000 PSI	200
D10092	1/2" Plug with 1/2" NPT-F, Stainless Steel	6,000 PSI	200
D10093	1/2" Plug with 1/2" NPT-M, Stainless Steel	6,000 PSI	200
<b>NEW!</b> D10126	3/8" Plug with 1/2" NPT-M, Stainless Steel	6,000 PSI	200

## Garden Hose Fittings



D10010

100275

D10084

Product Group: H

### GARDEN HOSE FITTINGS

PART NUMBER	DESCRIPTION	PORT	INLET	OUTLET	BOX QTY
D10010	Garden Hose Assembly	N/A	3/4" M Garden Hose	1/2" QD-M	200
D10011	Plug	N/A	3/4" M Garden Hose	1/2" QD-M	200
D10012	Coupler	N/A	3/4" F Garden Hose	1/2" QD	200
100275	Garden Hose Adapter Kit	N/A	3/4" Garden Hose	1/2" NPT-M	
100276	Garden Hose Adapter Kit	N/A	3/4" Garden Hose	1/2" NPT-M	
100277	Garden Hose Adapter Kit	N/A	3/4" Garden Hose	3/8" NPT-M	
D10084	Garden Hose Inlet, Long	1/4" NPT-F	3/4" Garden Hose	3/8" BSP-M	50
D10085	Garden Hose Inlet, Long	1/4" NPT-F	3/4" Garden Hose	1/2" NPT-M	50

## Garden Hose Fittings With Screens



D10017

D10032

700004

Product Group: H

### GARDEN HOSE FITTINGS - WITH SCREENS

PART NUMBER	DESCRIPTION	PORT	INLET	OUTLET	BOX QTY
D10016	Garden Hose Fitting with Screen	N/A	3/4" Garden Hose	1/2" NPT-F	200
D10017	Garden Hose Fitting with Screen	N/A	3/4" Garden Hose	3/8" NPT-F	200
D10032	Garden Hose Fitting with Screen	N/A	3/4" Garden Hose	1/2" NPT-M	100
D10033	Garden Hose Fitting with Screen	N/A	3/4" Garden Hose	3/8" NPT-F	
680006	Garden Hose Inlet for TP Series Pumps, with O-ring	N/A	3/4" Garden Hose	1/2" BSP-M	
680007	Garden Hose Assembly	1/4" NPT-F	3/4" Garden Hose	3/8" BSP-M	
680073	Garden Hose Inlet for TP/TT Series (short)	N/A	3/4" Garden Hose	1/2" BSP-M	
700034	Garden Hose Filter Washer, Stainless Steel, 30 Mesh	N/A	N/A	N/A	
700004	Garden Hose Filter Washer, Stainless Steel, 50 Mesh	N/A	N/A	N/A	10,000
720039	Garden Hose Retention Spring, Stainless Steel	N/A	N/A	N/A	

## Manifold Blocks



D10117

D10118

D10119

D10127

Product Group: H

### MANIFOLD BLOCKS

PART NUMBER	DESCRIPTION
D10117	3 Way, 1/2" NPT-F x 1/2" NPT-F x 3/8" NPT-F, 4,000 PSI
D10118	2 Way, 3/8" NPT-F x 3/8" NPT-F, Bolt-down, 5,500 PSI
D10119	3 Way, 3/8" NPT-F, Bolt-down, 4,000 PSI
<b>NEW!</b> D10127	2 Way, 1/2" NPT-F X 1/2" NPT-F, Bolt-Down, 5,000 PSI

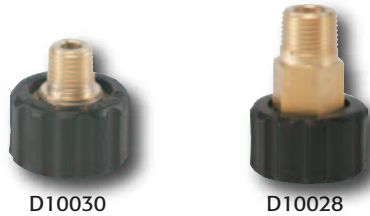




**Quick Disconnect Fittings  
 Twist Connect**

Product Group: H

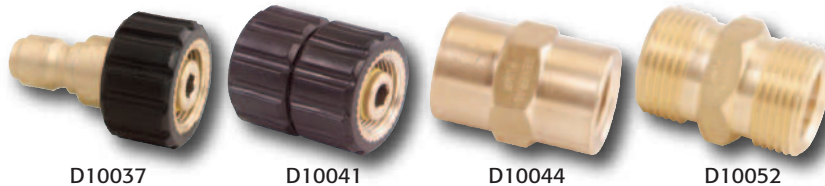
QUICK DISCONNECT FITTINGS - TWIST CONNECT					
PART NUMBER	DESCRIPTION	RATED	MAX	SHP WGHT	BOX QTY
ZMINA14F	1/4" F Plug	3,000 PSI	3,000 PSI	0.2 lbs.	30
ZMINA14M	1/4" M Plug	3,000 PSI	3,000 PSI	0.2 lbs.	30
ZMINA38F	3/8" F Plug	3,000 PSI	3,000 PSI	0.2 lbs.	30
ZMINB12M	1/2" M Coupler	3,000 PSI	3,000 PSI	0.2 lbs.	30
ZMINB14F	1/4" F Coupler	3,000 PSI	3,000 PSI	0.2 lbs.	30
ZMINB14M	1/4" M Coupler	3,000 PSI	3,000 PSI	0.2 lbs.	30
ZMINB38F	3/8" F Coupler	3,000 PSI	3,000 PSI	0.2 lbs.	30
ZMINB38M	3/8" M Coupler	3,000 PSI	3,000 PSI	0.2 lbs.	30
2510103	1/4" F Plug x M22	4,000 PSI	4,000 PSI	0.2 lbs.	100
D10021	1/4" M Plug x M22	4,000 PSI	4,000 PSI	0.2 lbs.	200
D10023	3/8" M Plug x M22	4,000 PSI	4,000 PSI	0.2 lbs.	200
D10024	3/8" F Plug x M22	4,000 PSI	4,000 PSI	0.2 lbs.	200



**Quick Disconnect Fittings  
 Twist Connect - EPDM O-Ring**

Product Group: H

QUICK DISCONNECT FITTINGS - TWIST CONNECT - EPDM O-RING					
PART NUMBER	DESCRIPTION	RATED	MAX	SHP WGHT	BOX QTY
D10027	1/4" F Coupler, 1 O-ring, M22	4,000 PSI	4,000 PSI	0.2 lbs.	200
D10028	1/4" M Coupler, 1 O-ring, M22	4,000 PSI	4,000 PSI	0.2 lbs.	200
D10029	3/8" F Coupler, 1 O-ring, M22	4,000 PSI	4,000 PSI	0.2 lbs.	200
D10030	3/8" M Coupler, 1 O-ring, M22	4,000 PSI	4,000 PSI	0.2 lbs.	200
100882	O-ring Kit, 14 mm, Contains 100 Pieces				
100909	O-ring Kit, 15 mm, Contains 100 Pieces				



**Quick Disconnect Fittings  
 Twist Connect**

Product Group: H

QUICK DISCONNECT FITTINGS - TWIST CONNECT					
PART NUMBER	DESCRIPTION	RATED	MAX	SHP WGHT	BOX QTY
D10040	M22 QD Plug x M22 QD Plug	4,000 PSI	4,000 PSI	0.1 lbs.	200
D10041	M22 Coupler x M22 Coupler	4,000 PSI	4,000 PSI	0.3 lbs.	200
D10043	Brass Pipe Thread Reducer, 3/8" NPT-M x 1/4" NPT-F	4,000 PSI	4,000 PSI	0.2 lbs.	200
D10044	Brass Pipe Coupling, 1/4" NPT-F	4,000 PSI	4,000 PSI	0.1 lbs.	200
D10037	M22 Coupler x 3/8" QD Plug	4,000 PSI	4,000 PSI	0.2 lbs.	200
D10052	Union, 3/8" NPT-M x 3/8" NPT-M, Steel	4,000 PSI	4,000 PSI	0.2 lbs.	200

# FILTERS & STRAINERS

## Inline High-Pressure Filters



100560

100622

100647

Product Group: G

INLINE HIGH-PRESSURE FILTERS							
PART NUMBER	DESCRIPTION	GPM	MAX	MAX TEMP	INLET	OUTLET	SHP WGHT
100560	100 Mesh Screen, 303 SS w/Brass Outlet	8.0 GPM	5,500 PSI	200° F	1/4" QD	1/4" NPT-M	0.5 lbs.
100622	200 Mesh Screen, Brass	8.0 GPM	5,000 PSI	200° F	1/4" NPT-M	1/4" NPT-M	0.5 lbs.
100647	100 Mesh Screen, Brass	8.0 GPM	5,000 PSI	200° F	1/4" NPT-F	1/4" NPT-M	0.5 lbs.

## Chemical Filters



YF00



YF00C



D40003



D40013



ZF1



ZF2

Product Group: G

CHEMICAL FILTERS			
PART NUMBER	DESCRIPTION	SHP WGHT	BOX QTY
Z0FILKIT	Chemical Hose and Filter	0.5 lbs.	N/A
YF00	Plastic Chemical Filter, 1/4" Hose Barb	0.3 lbs.	N/A
YF00C	Plastic Chemical Filter with Check Valve, 1/4" Hose Barb	0.3 lbs.	N/A
YF30	Plastic Chemical Filter with Stainless Steel Plug, 1/4" Hose Barb	0.3 lbs.	N/A
YF30C	Plastic Chemical Filter with Stainless Steel Plug, Check Valve, 1/4" Hose Barb	0.3 lbs.	N/A
D40001	Plastic Chemical Filter with Stainless Steel Plug, Check Valve, 1/4" Hose Barb, and 4' Hose	0.5 lbs.	N/A
D40003	Plastic Chemical Filter with Check Valve, Gray	0.3 lbs.	N/A
D40006	Plastic Two-Step Chemical Filter, No check Valve, Black	0.3 lbs.	N/A
D40013	Chemical Filter, Brass/Stainless Steel	0.5 lbs.	N/A
D40016	Inlet Suction Tank Filter, 3/8"-NPT-F, 40 Mesh, S304	0.5 lbs.	N/A
<b>NEW</b> D40017	Inlet Suction Tank Filter, 1/2"-NPT-F, 40 Mesh, S304	0.5 lbs.	N/A
ZF1	Plastic Filter with Brass, 1/4" Hose Barb	0.2 lbs.	30
ZF2	Plastic Filter with 1/4" Hose Barb and Check Valve	0.3 lbs.	30



## Inlet Filters

Product Group: G

INLET FILTERS							
PART NUMBER	DESCRIPTION	GPM	MAX	INLET	OUTLET	BYPASS	SHP WGHT
100649	Integrated Garden Hose Nut	8.0 GPM	150 PSI	3/4" GH	1/2" NPT-M	N/A	0.5 lbs.
100650	Integrated Garden Hose Nut	8.0 GPM	150 PSI	3/4" GH	3/8" NPT-M	N/A	0.5 lbs.
100651	Integrated Garden Hose Nut	8.0 GPM	150 PSI	3/4" GH	1/2" NPT-M	1/4"	0.5 lbs.
100652	Integrated Garden Hose Nut	8.0 GPM	150 PSI	3/4" GH	3/8" NPT-M	1/4"	0.5 lbs.
ZMFIL	Aluminum Body, 50 Mesh	5.8 GPM	145 PSI	1/2" BSP-F	1/2" BSP-M	(2)1/4" BSP-F	0.5 lbs.



**NEW!**

## Clear Bowl Filters

Product Group: G

CLEAR BOWL FILTERS							
PART NUMBER	DESCRIPTION	MAX	INLET	OUTLET	BYPASS	SHP WGHT	
DF05050	50 Mesh Screen	150 PSI	1/2" NPT-F	1/2" NPT-F	N/A	0.5 lbs	
DF07550	50 Mesh Screen	150 PSI	3/4" NPT-F	3/4" NPT-F	N/A	0.5 lbs	
DF10050	50 Mesh Screen	150 PSI	1" NPT-F	1" NPT-F	N/A	0.75 lbs	
DF12550	50 Mesh Screen	150 PSI	1-1/4" NPT-F	1-1/4" NPT-F	N/A	0.75 lbs	
DF15050	50 Mesh Screen	150 PSI	1-1/2" NPT-F	1-1/2" NPT-F	N/A	1.0 lbs.	
DF05080	80 Mesh Screen	150 PSI	1/2" NPT-F	1/2" NPT-F	N/A	0.5 lbs	
DF07580	80 Mesh Screen	150 PSI	3/4" NPT-F	3/4" NPT-F	N/A	0.5 lbs	
DF10080	80 Mesh Screen	150 PSI	1" NPT-F	1" NPT-F	N/A	0.75 lbs	
DF12580	80 Mesh Screen	150 PSI	1-1/4" NPT-F	1-1/4" NPT-F	N/A	0.75 lbs	
DF15080	80 Mesh Screen	150 PSI	1-1/2" NPT-F	1-1/2" NPT-F	N/A	1.0 lbs.	



## Inlet Strainers

Product Group: G

INLET STRAINERS							
PART NUMBER	DESCRIPTION	GPM	MAX	INLET	OUTLET	BYPASS	SHP WGHT
YF5BMF	Plastic Body, 50 Mesh	8.0 GPM	145 PSI	1/2" BSP-M	1/2" BSP-F	1/4"	0.5 lbs.
YF5MF	Plastic Body, 50 Mesh	8.0 GPM	145 PSI	1/2" BSP-M	1/2" BSP-F	N/A	0.5 lbs.
YFY1	Plastic Body, 50 Mesh	21.0 GPM	145 PSI	1" BSP-F	1" BSP-F	N/A	0.5 lbs.
YFY34	Plastic Body, 50 Mesh	21.0 GPM	145 PSI	3/4" BSP-F	3/4" BSP-F	N/A	0.5 lbs.
YYSTR12	Brass Body, 45 Mesh	15.0 GPM	175 PSI	1/2" NPT-F	1/2" NPT	N/A	0.5 lbs.



## Thermostats



100272



100438



Y29026035

Product Group: R

THERMOSTATS							
PART NUMBER	DESCRIPTION	GPM	MAX	MAX TEMP	INLET	OUTLET	SHP WGHT
100272	Flow Through Style	1 to 35 GPM	5,000 PSI	Amb.-200°	1/2" NPT	1/2" NPT	1.0 lbs.
<b>Probe Style Thermostats, Insulated SS Capillary Copper Immersion Bulb (UL/CSA Approved):</b>							
100438	16(4)A-380V Electric Rating	-	4,000 PSI	86-194° F	-	-	0.5 lbs.
100439	16(4)A-380V Electric Rating	-	4,000 PSI	86-320° F	-	-	0.5 lbs.
100538	16(4)A-380V Electric Rating	-	4,000 PSI	86-250° F	-	-	0.5 lbs.
100995	25 Amp, 250V Electric Rating	-	6,000 PSI	70-250° F	-	-	0.5 lbs.
<b>Thermostats Bulk Packaged (25 per box). Product Group B:</b>							
100438B	16(4)A-380V Electric Rating	-	4,000 PSI	86-194° F	-	-	0.5 lbs.
100439B	16(4)A-380V Electric Rating	-	4,000 PSI	86-320° F	-	-	0.5 lbs.
100538B	16(4)A-380V Electric Rating	-	4,000 PSI	86-250° F	-	--	0.5 lbs.
Y29026035	Probe Pocket	-	4,000 PSI	N/A	-	-	0.4 lbs.

## Pressure Switches



YPRESSWITCH



YPRESSWITCH535



YPRESSWITCHHP



ZMSIMPLEX3

Product Group: D

PRESSURE SWITCHES						
PART NUMBER	ACTIVATED PRESSURE	RATED PRESSURE	MAX TEMP	INLET	SHP WGHT	
<b>15 Amps, 250 Volts, 580 Switching Pressure, Brass Stem, Stainless Steel Nipple:</b>						
YPRESSWITCH	580 PSI	3,600 PSI	195° F	1/4" NPT-M	0.5 lbs.	
YPRSWITCHXL (67" lead)	580 PSI	3,600 PSI	195° F	1/4" NPT-M	0.5 lbs.	
<b>15 Amps, 250 Volts, 360 Switching Pressure, Brass Stem, Stainless Steel Nipple:</b>						
YPRESSWITCH1535	360 PSI	3,600 PSI	195° F	3/8" BSP-M	0.5 lbs.	
<b>15 Amps, 250 Volts, 580 Switching Pressure, Brass Stem, Stainless Steel Nipple:</b>						
YPRESSWITCH1564	580 PSI	3,600 PSI	195° F	3/8" BSP-M	0.5 lbs.	
<b>5 Amps, 250 Volts, 360 Switching Pressure, Brass Stem and Nipple:</b>						
YPRESSWITCH535	360 PSI	3,600 PSI	195° F	1/4" BSP-M	0.5 lbs.	
<b>5 Amps, 250 Volts, 580 Switching Pressure, Brass Stem and Nipple:</b>						
YPRESSWITCH564	580 PSI	3,600 PSI	195° F	1/4" BSP-M	0.5 lbs.	
<b>15 Amps, 250 Volts, 360 Switching Pressure, Stainless Steel Stem and Nipple:</b>						
YPRSWITCHHPL	360 PSI	8,700 PSI	195° F	3/8" BSP-M	0.5 lbs.	
<b>15 Amps, 250 Volts, 650 Switching Pressure, Stainless Steel Stem and Nipple:</b>						
YPRESSWITCHHP	650 PSI	8,700 PSI	195° F	3/8" BSP-M	0.5 lbs.	
<b>15 Amps, 250 Volts, 215 Switching Pressure, Stainless Steel Stem and Nipple:</b>						
YPRESSWITCH1521	215 PSI	3,600 PSI	195° F	1/4" NPT-M	0.5 lbs.	
<b>15 Amps, 250 Volts, 215 Switching Pressure, Stainless Steel Stem and Nipple:</b>						
YPRESSWITCH521	215 PSI	3,600 PSI	195° F	1/4" NPT-M	0.5 lbs.	
<b>15 Amps, 250 Volts, 435 Switching Pressure, Stainless Steel Stem and Nipple:</b>						
ZMSIMPLEX3	725 PSI	3,000 PSI	195° F	1/4" BSP-M	0.5 lbs.	



100975

100879

## Flow Switches Reedless

Product Group: D

TMT INLINE FLOW SWITCHES, 5 AMP MICROSWITCH, MINIMUM ACTIVATION FLOW,  
 48" 18 AWG LEAD, NO SPRING, USES MAGNETS FOR ALL MOVEMENTS

PART NUMBER	GPM	MAX	MAX TEMP	INLET	OUTLET	VOLTAGE	MATERIAL	SHP WGHT
100975	12.0 GPM	5,000 PSI	180° F	3/8" NPT-F	3/8" NPT-F	250 VAC	Brass	1.25 lbs.
100931	12.0 GPM	5,800 PSI	180° F	3/8" NPT-F	3/8" NPT-F	250 VAC	SS	1.5 lbs.
<b>With Pilot Feature (0.5 GPM Activation):</b>								
100879	12.0 GPM	4,000 PSI	180° F	3/8" NPT-F	3/8" NPT-F	250 VAC	Brass	1.5 lbs.
<b>Without Pilot Feature (0.5 GPM Activation):</b>								
100904	12.0 GPM	4,000 PSI	180° F	3/8" NPT-F	3/8" NPT-F	250 VAC	Brass	1.5 lbs.



101069

YFLOSWITCH

YFL7SWITCH

100329

## Flow Switches

Product Group: D

### FLOW SWITCHES

PART NUMBER	GPM	RATED PRESSURE	MAX PRESSURE	MAX TEMP	INLET	OUTLET	SHP WGHT
<b>3 Amp, 250 Volts, 36" Cord (Mounted in Vertical Position Only):</b>							
YFLOSWITCH	8.0 GPM	3,650 PSI	4,050 PSI	175° F	3/8" BSP-M	3/8" BSP-M	0.6 lbs.
<b>3 Amp, 250 Volts, 48" Cord, Gauge Port:</b>							
YFL3SWITCH	8.0 GPM	3,650 PSI	4,050 PSI	175° F	3/8" BSP-M	1/4" BSP-M	0.4 lbs.
<b>1 Amp, 250 Volts, 48" Cord, Flow Through Design:</b>							
YFL7SWITCH	8.0 GPM	5,100 PSI	5,100 PSI	175° F	3/8" BSP-F	3/8" BSP-F	0.5 lbs.
<b>3 Amp, 120 Volts AC, 96" Cord, No Pilot (5 Amp Max Carrying):</b>							
103011	.75 to 18.7 GPM	4,000 PSI	4,000 PSI	190° F	3/8" NPT-F	3/8" NPT-F	2.5 lbs.
<b>3 Amp, 120 Volts AC, 96" Cord with Pilot Feature (5 Amp Max Carrying):</b>							
100329	.75 to 16.0 GPM	4,000 PSI	4,000 PSI	190° F	3/8" NPT-F	3/8" NPT-F	2.5 lbs.
<b>5 Amp, 250 Volts, New High Flow Flow Switch, 4 gpm minimum activation, 12" 18 AWG LEAD:</b>							
NEW 101068	10.0 GPM		4,000 PSI	180° F	1/2" NPT- F	1/2" NPT- F	1.9 lbs.
	25.0 GPM		3,000 PSI	180° F	1/2" NPT- F	1/2" NPT- F	1.9 lbs.
<b>With Weatherpack connector:</b>							
NEW 101069	10.0 GPM		4,000 PSI	180° F	1/2" NPT- F	1/2" NPT- F	1.9 lbs.
	25.0 GPM		3,000 PSI	180° F	1/2" NPT- F	1/2" NPT- F	1.9 lbs.



101066

101094

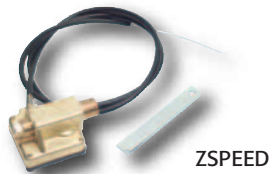
## High Limit Thermal Switches

### HIGH LIMIT THERMAL SWITCHES

PART NUMBER	MAX PRESSURE	VAC	INLET	CORDED	MAX TEMP	SHP WGHT
101066	5,000 PSI	300	3/8" NPT-M	No	160° F	.5 lbs.
101093	5,000 PSI	300	1/2" NPT-M	Yes, 68"	230° F	.5 lbs.
101094	5,000 PSI	300	1/2" NPT-M	Yes, 68"	122° F	.5 lbs.
101113	5,000 PSI	300	1/2" NPT-M	Yes, 68"	150° F	.5 lbs.
101116	5,000 PSI	300	3/8" NPT-M	Yes, 68"	130° F	.5 lbs.

# GAUGES & SWITCHES

## Throttle Control



Product Group: D

THROTTLE CONTROL FOR GASOLINE ENGINES				
PART NUMBER	RATED PRESSURE	MAX PRESSURE	INLET	SHP WGHT
ZSPEED	725 PSI	3,000 PSI	3/8" NPT-M	1.1 lbs.

## Gauges



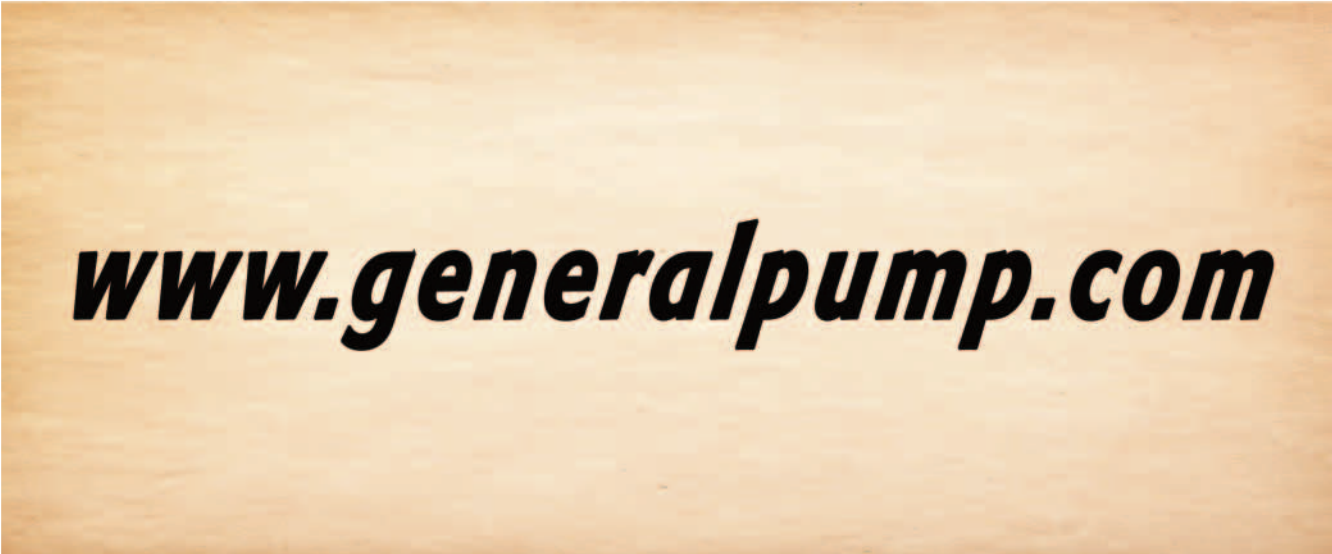
320001



320002

Product Group: D

GAUGES				
PART NUMBER	PRESSURE	PORT	PORT LOCATION	SHP WGHT
320005	2,000 PSI	1/4" NPT	Bottom Mount	0.7 lbs.
320000	3,000 PSI	1/4" NPT	Panel Mount	0.7 lbs.
320002	3,000 PSI	1/4" NPT	Bottom Mount	0.7 lbs.
320001	5,000 PSI	1/4" NPT	Panel Mount	0.7 lbs.
320003	5,000 PSI	1/4" NPT	Bottom Mount	0.7 lbs.
320004	20,000 PSI	1/2" NPT	Bottom Mount	1.0 lbs.





# MISCELLANEOUS ACCESSORIES

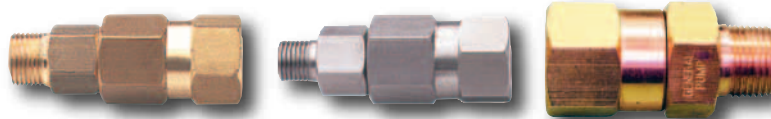


190031

## Valve Caps with Gauge Ports

Product Group: D

VALVE CAPS WITH GAUGE PORTS		
PART NUMBER	DESCRIPTION	SHP WGHT
190029	Valve Cap with Gauge Port for 47 Series Pumps	0.5 lbs.
190031	Valve Cap with Gauge Port for TT Series Pumps	0.5 lbs.
190107	Valve Cap with Gauge Port for EZ Series Pumps	0.5 lbs.
190358	Valve Cap with Gauge Port for 47 Series Pumps, Fine Thread	0.5 lbs.

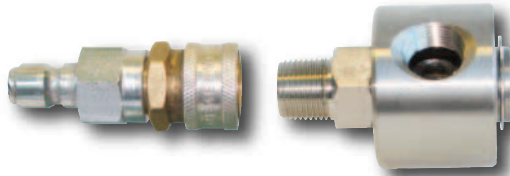


YSW38MFSB

YSW38MFSS

D10066

## Swivels High Pressure



D10071

D10114

Product Group: D

HIGH PRESSURE SWIVELS								
PART NUMBER	DESCRIPTION	GPM	RATED	MAX	INLET	OUTLET	WORKING TEMP	SHP WGHT
YSW38MFB	Medium Resistance, Brass	10.5 GPM	3,650 PSI	4,050 PSI	3/8" BSP-M	3/8" BSP-F	194° F	0.3 lbs.
YSW14MFB	Medium Resistance, Brass	10.5 GPM	3,650 PSI	4,050 PSI	1/4" BSP-M	1/4" BSP-F	194° F	0.3 lbs.
YSW38MFSS	Medium Resistance, SS	10.5 GPM	5,100 PSI	5,650 PSI	3/8" BSP-M	3/8" BSP-F	194° F	0.3 lbs.
YSW14MFSS	Medium Resistance, SS	10.5 GPM	5,100 PSI	5,650 PSI	1/4" BSP-M	1/4" BSP-F	194° F	0.3 lbs.
NEW: YSW9014SS	Medium Resistance, SS, 90 Deg	10.5 GPM	3,650 PSI	4050 PSI	1/4" BSP-M	1/4" BSP-F	194° F	0.3 lbs.
D10066	Brass	10.0 GPM	4,000 PSI	4,000 PSI	3/8" NPT-M	3/8" NPT-F	200° F	0.3 lbs.
D10099	Brass	10.0 GPM	4,000 PSI	4,000 PSI	3/8" NPT-F	3/8" NPT-F	200° F	0.3 lbs.
D10067	Stainless Steel	10.0 GPM	5,000 PSI	5,000 PSI	3/8" NPT-M	3/8" NPT-F	200° F	0.3 lbs.
D10070	Stainless Steel, QD	10.0 GPM	5,000 PSI	5,000 PSI	3/8" QD	3/8" QD Plug	200° F	0.3 lbs.
D10071	Brass, Steel. QD	10.0 GPM	4,000 PSI	4,000 PSI	3/8" QD	3/8" QD Plug	200° F	0.3 lbs.
D10114	Stainless Steel, 90°	10.0 GPM	3,000 PSI	3,000 PSI	3/8" NPT-M	3/8" NPT-F	200° F	0.3 lbs.

# MISCELLANEOUS ACCESSORIES

## Complete Electric Pressure Washers



PU1021

Product Group: E

### COMPLETE ELECTRIC PRESSURE WASHERS

PART NUMBER	DESCRIPTION	SHP WGHT
PU1021	BOXJET - Turbo 21 Aluminum Manifold, Complete Plastic Enclosure, 1,000 PSI	52.0 lbs.
PU1021B	BOXJET - Turbo 21 Brass Manifold, Complete Plastic Enclosure, 1,000 PSI	52.0 lbs.
PU1021QB	QUIKY - Turbo 21 Brass Manifold, Partial Plastic Enclosure, 1,000 PSI	52.0 lbs.

## Accumulators/ Pulsation Dampeners



ZMACC



686028



686010

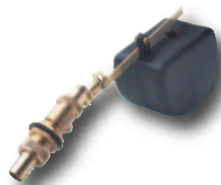
Product Group: K

### ACCUMULATORS / PULSATION DAMPENERS

PART NUMBER	DESCRIPTION	GPM	RATED	INLET	SHP WGHT
ZMACC	Rebuildable	10.0 GPM	1,350 PSI	3/4" NPT-M	0.5 lbs.
686028	Rechargeable	10.0 GPM	3,000 PSI	1/2" NPT-M	2.5 lbs.
686011	Non-rechargeable	10.0 GPM	3,000 PSI	1/2" NPT-M	2.5 lbs.
686010*	Rechargeable	40.0 GPM	3,000 PSI	1" NPT-M	7.0 lbs.

\* 190200 Recharge Kit for 686010

## Float Tank and Valves



YFLOATVALVE



YRG60FV



YRG30FV



YFLOATANK

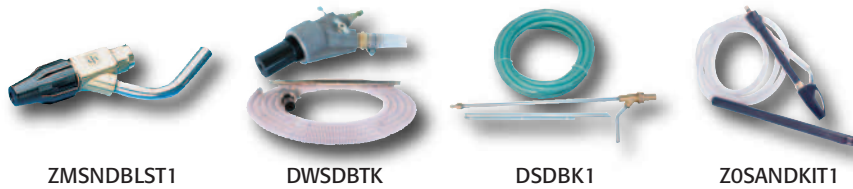
Product Group: N

### FLOAT TANK AND VALVES

PART NUMBER	DESCRIPTION	GPM	RATED	INLET	SHP WGHT	BOX QTY
YFLOATVALVE	Brass, Gray Float	7.0 GPM	145 PSI	3/8" BSP-M	0.8 lbs.	25
YRG60FV	Brass, Float	7.0 GPM	145 PSI	1/2" BSP-M	0.8 lbs.	25
YRG30FV	Plastic, Float	7.4/10.5 GPM	145 PSI	1/2" BSP-M	0.5 lbs.	25
YFLOATANK	1.05 Gallon Plastic Tank with Cover and Brass Float Valve			3/8" BSP-M	0.5 lbs.	N/A

# MISCELLANEOUS ACCESSORIES

## Sandblasting Nozzles



Product Group: N

SANDBLASTING NOZZLES		
PART NUMBER	DESCRIPTION	SHP WGHT
ZMSNDBLST0	1.5 mm / .059 Nozzle	2.5 lbs.
ZMSNDBLST1	1.6 mm / .063 Nozzle	2.5 lbs.
ZMSNDBLST2	1.7 mm / .067 Nozzle	2.5 lbs.
ZMSNDBLST3	1.85 mm / .073 Nozzle	2.5 lbs.
ZMSNDBLST5	2.3 mm / .091 Nozzle	2.5 lbs.
ZMSNDPOKER	Sand Poker	0.5 lbs.
DWSDBTK	Complete Wet Industrial Sandblast Kit, 5,500 PSI (1/4" Nozzle Not Included)	10.0 lbs.
2100206	Mixing Head, Sandblast	
2100208	Mixing Head and Nozzle, Sandblast	
DSDBK1	Complete Sandblast Kit, Steel and Brass, 3,500 PSI	3.5 lbs.
ZOSANDKIT1	BOXJET Electric Pressure Washer Sandblasting Kit with Hose Poker	1.0 lbs.



100783 Extraction Kit

## Service Products

Product Group: N

SERVICE PRODUCTS	
PART NUMBER	DESCRIPTION
KIT1S	Pump Service Video
KIT2S	Packing Insertion Kit and Pump Service Video
KIT3S	Packing Extraction Kit and Pump Service Video
KIT4S	Complete Tool Kit and Pump Service Video
KINSTX63	Packing Insertion Kit, 63 Series
KINSTSF66	Packing Insertion Kit, 66 Series, High Flow (TSF)
KINSTSP66	Packing Insertion Kit, 66 Series, High Pressure (TSP)
TOOLKITPRI	Complete Packing Replacement and Insertion Kit
ZMVALAT	Complete Tool Kit
ZMVTOOL	Packing Insertion Tool
F26019400	Packing Extractor, Slide Hammer
27124900	Packing Extractor, 18 mm
26093400	Packing Extractor, Socket, 20 mm
26407400	Packing Extractor, 15 mm
26093500	Packing Extractor, Socket, 22 mm
26093600	Packing Insertion Socket, 24 mm
100783	Extraction Kit, 13 mm through 24 mm
<b>Individual Items in 100783 Extraction Kit:</b>	
2530016	Handle
2530017	Bolt
2530018	Pin
2530019	13 mm Sleeve
2530020	15 mm Sleeve
2530021	18 mm Sleeve
2530022	20 mm Sleeve
2530023	22 mm Sleeve
2530024	24 mm Sleeve



# WARRANTY INFORMATION

## PUMP WARRANTY

January 1, 2019

The following statement is intended to assist our customers in understanding the terms of our warranty, the circumstances under which we will honor claims, and the procedure for making such claims.

GP Companies, Inc. warrants each pump manufactured by General Pump to be free of defects in material or workmanship for a period of five (5) years from the date of shipment, with the exception of Consumer Pumps and the hydraulic pump line. In addition, GP Companies, Inc. warrants all forged brass pump manifolds to be free of defects in material and workmanship and from damage resulting from freezing for the life of the pump. Liability under this warranty is on all non-wear parts and limited to the repair or replacement of any pump returned to General Pump/US which upon inspection, is judged to be defective due to workmanship or material failure. Any product returned to General Pump should be shipped freight prepaid to GP Companies, Inc. – 1174 Northland Drive – Mendota Heights, MN 55120 and must display a Return Authorization Number obtained from General Pump's Inside Sales Department (651) 454-6500, Fax (800) 535-1745.



# WARRANTY INFORMATION

In the course of marketing or servicing the customer or potential customer's needs, General Pump will use its best judgement in its recommendations. However, the ultimate responsibility for product application decisions shall rest with the customer. The sole and only warranty made by General Pump is the limited warranty described above. General Pump makes no other warranty of any kind, express or implied, including any implied warranty or merchantability or of fitness for a particular use or purpose. General Pump disclaims and denies any liability for any direct, indirect, special, incidental or consequential damages which may be suffered as a result of sale, delivery, servicing, use, loss of any product, downtime, labor, freight or other charges not expressly included herein. The only liability and the total liability of General Pump under this limited warranty or in any claim regarding or involving General Pump is expressly limited to the replacement or purchase price of the product.



The following items are not warranted, due to matters beyond GP Companies, Inc. control.

1. Normal wear and tear to parts that are considered standard wear parts.
2. Defects caused by the fault or negligence of the buyer or third party.
3. Use of unauthorized repair parts.
4. Modifications made by the customer.
5. Car wash series pumps are covered for damage caused by fresh water wash out for the life of the pump.

This warranty statement supercedes and replaces non-dated warranties or previously dated warranties.

## POWER UNIT(S) WARRANTY

January 1, 2019  
GP Companies, Inc. warrants each power unit in whole for 90 days from the date the unit is purchased. After 90 days, each pump manufactured by General Pump carries GP Companies, Inc. standard pump warranty. Each individual accessory on the power unit is covered by GP Companies, Inc. standard accessory warranty.

## ACCESSORY WARRANTY

January 1, 2019  
GP Companies, Inc. accessories are warranted by the manufacturer to the original purchaser to be free from defects in material and workmanship

under normal use and service. "Normal use and service" means not in excess of the recommended pressures and temperatures or handling fluids not compatible with component materials. This warranty shall not apply to any accessory that has been repaired or altered to affect the performance or reliability of the accessory.

Warranty does not apply to:

1. freight damage;
2. freeze damage;
3. damage caused by parts and/or accessories not obtained from or approved by General Pump;
4. damage caused by misuse and/or misapplication;
5. normal wear of moving parts or components affected by moving parts.

The period of warranty is 90 days from the date the product is purchased. Liability of manufacturer under the foregoing warranty is limited to repair or replacement at the option of the manufacturer of that product, which according to the manufacturer's investigation was deemed defective at the time of the shipment.

This warranty is in lieu of all other warranties, expressed or implied, including any warranty of merchantability and/or any and all other obligations or liabilities on the part of the manufacturer

# TERMS & CONDITIONS RETURN POLICY

## GP COMPANIES, INC. SALES POLICIES

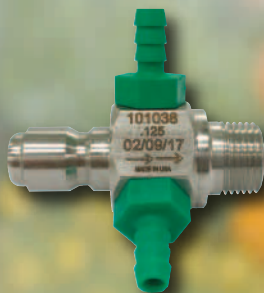
General Pump reserves the right to refuse to conduct business with any company not in good credit standing or that is not determined to be a qualified manufacturer, wholesaler or distributor.

## TERMS & CONDITIONS

- Credit terms are Net 30 days, subject to credit department approval
- All shipments are FOB, Mendota Heights, MN
- Pricing is subject to change without notice

## RETURN POLICY

- 1.** To expedite the Return Merchandise Authorization (RMA) process, please have your General Pump invoice number available when you contact the Customer Service Department.
- 2.** An RMA number must be acquired before returning product. To obtain an RMA number, please call General Pump's Customer Service Department at: (888)474-5487 ext. 199.
- 3.** An RMA number is valid for 60 days from the date of issue. If the product is not received within 60 days, a new RMA number must be issued.
- 4.** The RMA number must appear on the outside of the package. Items received without an RMA number will be refused.
- 5.** Freight for returns, except for products shipped in error by General Pump, is the responsibility of the customer.
- 6.** General Pump will repair or replace products qualified as defective under General Pump's warranty.
- 7.** For the safety of our employees, all products used in any type of chemical application must include the MSDS sheet for the chemical used.
- 8.** If you require immediate replacement for products submitted for warranty consideration, General Pump will ship and invoice at current price. Standard warranty policy will apply to returned products.





Temperature Conversion Table							
°C	°F	°C	°F	°C	°F	°C	°F
100	212.0	75	167.0	50	122.0	25	77.0
99	210.2	74	165.2	49	120.2	24	75.2
98	208.4	73	163.4	48	118.4	23	73.4
97	206.6	72	161.6	47	116.6	22	71.6
96	204.8	71	159.8	46	114.8	21	69.8
95	203.0	70	158.0	45	113.0	20	68.0
94	201.2	69	156.2	44	111.2	19	66.2
93	199.4	68	154.4	43	109.4	18	64.4
92	197.6	67	152.6	42	107.6	17	62.6
91	195.8	66	150.8	41	105.8	16	60.8
90	194.0	65	149.0	40	104.0	15	59.0
89	192.2	64	147.2	39	102.2	14	57.2
88	190.4	63	145.4	38	100.4	13	55.4
87	188.6	62	143.6	37	98.6	12	53.6
86	186.8	61	141.8	36	96.8	11	51.8
85	185.0	60	140.0	35	95.0	10	50.0
84	183.2	59	138.2	34	93.2	9	48.2
83	181.4	58	136.4	33	91.4	8	46.4
82	179.6	57	134.6	32	89.6	7	44.6
81	177.8	56	132.8	31	87.8	6	42.8
80	176.0	55	131.0	30	86.0	5	41.0
79	174.2	54	129.2	29	84.2	4	39.2
78	172.4	53	127.4	28	82.4	3	37.4
77	170.6	52	125.6	27	80.6	2	35.6
76	168.8	51	123.8	26	78.8	1	33.8
						0	32.0

Temperature Conversion formulas      °C = 5/9(°F-32)      °F = 9/5(°C+32)

## Hose Friction Loss

Water* Flow Gal/Min	Pressure Drop in PSI per 100 feet of Hose With Typical Water Flow Rates						
	Hose Inside Diameters, Inches						
	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"
0.5	16	5	2				
1.0	54	20	7	2			
2.0	180	60	25	6	2		
3.0	380	120	50	13	4	2	
4.0		220	90	24	7	3	
5.0		320	130	34	10	4	
6.0			220	52	16	7	1
8.0			300	80	25	10	2
10.0				120	38	14	3
15.0				250	80	30	7
20.0					121	50	12
25.0					200	76	19
40.0					410	162	42
60.0						370	93

\*At a fixed flow rate with a given size hose, the pressure drop across a given hose length will be directly proportional. A 50 foot hose will exhibit one-half the pressure drop of a 100 foot hose. Above values shown are valid at all pressure levels.

Suction, Head, Vapor Pressure						
Temp °F	Vapor	Suction lift or head @ altitude ft				
	Pressure	0	2000	4000	8000	12000
60	0.6 ft water	20	17.5	15.5	11.5	7.5
70	0.8 ft water	19.5	17	15	11	7
80	1.2 ft water	19.5	17	15	11	7
90	1.6 ft water	19	16.5	14.5	10.5	6.5
100	2.2 ft water	18.5	16	14	10	6
110	2.9 ft water	17.5	15	13	9	5
120	3.9 ft water	16.5	14	12	8	4
130	5.1 ft water	15.5	13	11	7	3
140	6.7 ft water	14	11.5	9.5	5.5	1.5
150	8.6 ft water	12	9.5	7.5	3.5	-0.5
160	10.9 ft water	9.5	7	5	1	...
170	13.8 ft water	6.5	4	2	-2	...
180	17.3 ft water	3	0.5	-1.5	...	...
190	21.6 ft water	-1	-3.5	-5.5	...	...
200	26.6 ft water	-6	-8.5	...	...	...
210	32.6 ft water	-12	...	...	...	...
212	34.0 ft water	-13.5	...	...	...	...

$$\text{GPM} = \frac{\text{HP} \times 1460}{\text{PSI}}$$

$$\frac{\text{Rated GPM}}{\text{Rated RPM}} = \frac{\text{Desired GPM}}{\text{Desired RPM}}$$

$$\text{PSI} = \frac{\text{HP} \times 1460}{\text{GPM}}$$

$$\frac{\text{Motor Pulley OD}}{\text{Pump RPM}} = \frac{\text{Pump Pulley OD}}{\text{Motor RPM}}$$

$$\text{Torque} = \frac{\text{HP} \times 5252}{\text{RPM}}$$

$$\text{Drive Ratio} = \frac{D}{d}$$

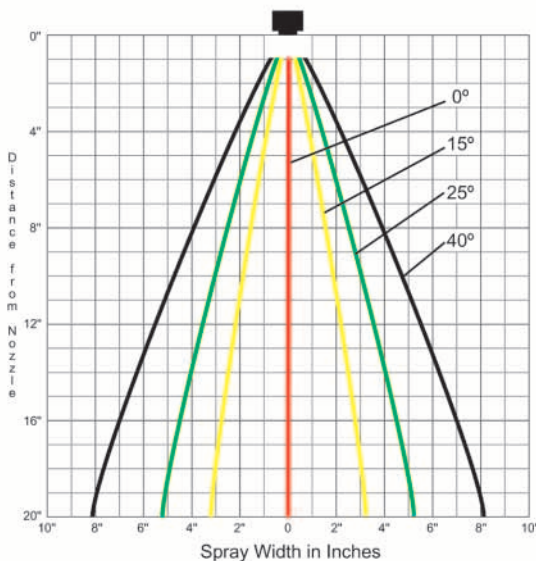
Friction Loss in Pipe Fittings in Equivalent Feet of Pipe							
Fitting	Fitting Size						
	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"
90° Std Elbow	1.6	2.1	2.6	3.5	4	5.5	6.2
90° Long Elbow	1	1.4	1.7	2.3	2.7	4.3	5.1
90° Street Elbow	3	3.4	4.4	5.8	6.7	8.6	10.3
45° Std Elbow	0.8	1.1	1.4	1.8	2.1	2.8	3.3
45° Street Elbow	1	1.8	2.3	3	3.5	4.5	5.4
Square Elbow	3	3.9	5	6.5	7.6	9.8	11.7
Std Tee Straight Run	1	1.4	1.7	2.3	2.7	4.3	5.1
Std Tee Branch Run	4	5.1	6	6.9	8.1	12	14.3
Gate Valve - Full Open	0.7	0.9	1.1	1.5	1.7	2.2	2.7

# REFERENCE

## Nozzle Chart

Nozzle Size	Orifice Dia.	40 PSI	100 PSI	250 PSI	500 PSI	600 PSI	700 PSI	800 PSI	1000 PSI	1200 PSI	1500 PSI	2000 PSI	2500 PSI	3000 PSI	3500 PSI	4000 PSI	5000 PSI
2	.034	0.20	0.32	0.50	0.71	0.77	0.84	0.89	1.00	1.10	1.22	1.41	1.58	1.73	1.87	2.00	2.24
2.5	.039	0.25	0.40	0.63	0.88	0.97	1.05	1.12	1.25	1.37	1.53	1.77	1.98	2.17	2.34	2.50	2.80
3	.043	0.30	0.47	0.75	1.06	1.16	1.25	1.34	1.50	1.64	1.84	2.12	2.37	2.60	2.81	3.00	3.35
3.25	.045	0.33	0.51	0.81	1.15	1.26	1.36	1.45	1.63	1.78	1.99	2.30	2.57	2.81	3.04	3.25	3.63
3.5	.048	0.35	0.55	0.88	1.24	1.26	1.46	1.57	1.75	1.92	2.14	2.47	2.77	3.03	3.27	3.50	3.91
3.75	.050	0.38	0.59	0.94	1.33	1.45	1.57	1.68	1.88	2.05	2.30	2.65	2.96	3.25	3.51	3.75	4.17
4	.052	0.40	0.63	1.00	1.41	1.45	1.67	1.79	2.00	2.19	2.45	2.83	3.16	3.46	3.74	4.00	4.47
4.5	.055	0.45	0.71	1.13	1.59	1.74	1.88	2.01	2.25	2.46	2.76	3.18	3.56	3.90	4.21	4.50	5.03
5	.057	0.50	0.79	1.25	1.77	1.94	2.09	2.24	2.50	2.74	3.06	3.54	3.95	4.33	4.68	5.00	5.59
5.5	.060	0.55	0.87	1.38	1.94	2.13	2.30	2.46	2.75	3.01	3.37	3.89	4.35	4.76	5.14	5.50	6.15
6	.062	0.60	0.95	1.50	2.12	2.32	2.51	2.68	3.00	3.29	3.67	4.24	4.74	5.20	5.61	6.00	6.71
6.5	.064	0.65	1.03	1.63	2.30	2.52	2.72	2.91	3.25	3.56	3.98	4.60	5.14	5.63	6.08	6.50	7.27
7	.067	0.70	1.11	1.75	2.47	2.71	2.93	3.13	3.50	3.83	4.29	4.95	5.53	6.06	6.55	7.00	7.83
7.5	.070	0.75	1.19	1.88	2.65	2.90	3.14	3.35	3.75	4.11	4.59	5.30	5.93	6.50	7.02	7.50	8.39
8	.072	0.80	1.26	2.00	2.83	3.10	3.35	3.58	4.00	4.38	4.90	5.66	6.32	6.93	7.48	8.00	8.94
8.5	.074	0.85	1.34	2.13	3.01	3.29	3.56	3.80	4.25	4.66	5.21	6.01	6.72	7.36	7.95	8.50	9.50
9	.076	0.90	1.42	2.25	3.18	3.49	3.76	4.02	4.50	4.93	5.51	6.36	7.12	7.79	8.42	9.00	10.06
9.5	.078	0.95	1.50	2.38	3.36	3.68	3.97	4.25	4.75	5.20	5.82	6.72	7.51	8.23	8.89	9.50	10.62
10	.080	1.00	1.58	2.50	3.54	3.87	4.18	4.47	5.00	5.48	6.12	7.07	7.91	8.66	9.35	10.00	11.18
11	.083	1.10	1.74	2.75	3.89	4.26	4.60	4.92	5.50	6.02	6.74	7.78	8.70	9.53	10.29	11.00	12.30
12	.087	1.20	1.90	3.00	4.24	4.65	5.02	5.37	6.00	6.57	7.35	8.49	9.49	10.39	11.22	12.00	13.42
12.5	.089	1.25	1.98	3.13	4.42	4.84	5.23	5.59	6.25	6.85	7.65	8.84	9.88	10.83	11.69	12.50	13.98
13	.091	1.30	2.06	3.25	4.60	5.03	5.44	5.81	6.50	7.12	7.96	9.19	10.28	11.26	12.16	13.00	14.53
14	.093	1.40	2.21	3.50	4.95	5.42	5.86	6.26	7.00	7.67	8.57	9.90	11.07	12.12	13.10	14.00	15.65
15	.096	1.50	2.37	3.75	5.30	5.81	6.27	6.71	7.50	8.22	9.19	10.61	11.86	12.99	14.03	15.00	16.77
20	.109	2.00	3.16	5.00	7.07	7.75	8.37	8.94	10.00	10.95	12.25	14.14	15.81	17.32	18.71	20.00	22.36
25	.125	2.50	3.95	6.25	8.84	9.68	10.46	11.18	12.50	13.69	15.31	17.68	19.76	21.65	23.39	25.00	27.95
30	.141	3.00	4.74	7.50	10.61	11.62	12.55	13.42	15.00	16.43	18.37	21.12	23.72	25.98	28.06	30.00	33.54
40	.156	4.00	6.32	10.00	14.14	15.49	16.73	17.89	20.00	21.91	24.49	28.28	31.62	34.64	37.42	40.00	44.72
50	.172	5.00	7.91	12.50	17.68	19.36	20.92	22.36	25.00	27.39	30.62	35.36	39.53	43.30	46.77	50.00	55.90
60	.188	6.00	9.49	15.00	21.21	23.24	25.10	26.83	30.00	32.86	36.74	42.43	47.43	51.96	56.12	60.00	67.08

GP Nozzle Spray Coverage



### Nozzles

Nozzle # =	GPM	.	$\sqrt{\frac{4000}{\text{PSI}}}$
GPM =	Nozzle #	.	$\sqrt{\frac{\text{PSI}}{4000}}$
PSI =	$\left(\frac{\text{GPM}}{\text{Nozzle}}\right)^2$	.	4000

### Horsepower

$\frac{\text{GPM} \cdot \text{PSI}}{1460}$	=	Electric Brake HP
$\frac{\text{GPM} \cdot \text{PSI}}{1714}$	=	Hydraulic HP
$\frac{\text{GPM} \cdot \text{PSI}}{1460} \cdot 1.5$	=	Gasoline HP (Industrial Engine)



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100059	75	100655	70	100995	94
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100075	34	100676	68	100999	30, 65
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100093	34	100678	67	101004	34
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100097	34	100680	67	101012	72
100145	72	100684	68	101018	35
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100172	59	100722	66	101026	35
100181	72	100723	66	101027	35
100214	60	100724	66	101028	35
100216	60	100726	66	101029	35
100217	60	100727	66	101030	35
100219	60	100728	66	101031	35
100256	60	100729	66	101032	35
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100264	60	100734	60	101034	35
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100534	66	100829	69	105084	84
100538	94	100830	69	105085	84
100543	67	100838	68	105086	84
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