



**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 36 years. General Pump is affiliated with the world's largest manufacturers 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 pump, 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 34 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 6000 PSI Safety Valve, the Quick Disconnect Injector Line, and our new 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**

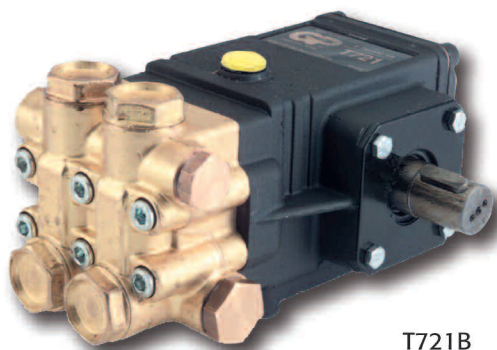
- Surface cleaning
- Paint removal
- Wet-sandblasting

## **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



T721B

**49 Series - Solid Shaft - Features:**

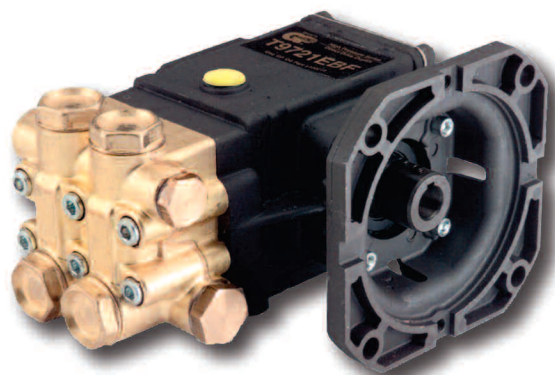
- Duplex plunger pump
- Forged brass manifold with an exclusive lifetime warranty
- Duplex plunging action for improved impacted cleaning
- Ideal for drain cleaning and jetting applications
- Die-cast, anodized aluminum oil-bath crankcase
- Solid ceramic plungers with continuously lubricated packings

**49 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.....8.8"x6.8"x5.4"  
 Crankcase Oil Capacity.....10.1 oz.  
 Use GP Series 100 Oil (see page 55)  
 Product Group.....U

**49 SERIES - 24 MM SOLID SHAFT**

Model	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
T721B	2.2 GPM	1,200 PSI	1450 RPM	.787 in./20 mm	.374 in./9.5 mm	1.8 EBHP	11.0 lbs.
T731B	3.0 GPM	1,200 PSI	1450 RPM	.787 in./20 mm	.472 in./12.0 mm	2.5 EBHP	11.0 lbs.
	3.5 GPM	1,000 PSI	1750 RPM	.787 in./20 mm	.462 in./12.0 mm	2.4 EBHP	11.0 lbs.
T9721B	2.1 GPM	1,000 PSI	1750 RPM	.787 in./20 mm	.307 in./7.8 mm	1.4 EBHP	11.0 lbs.
T9731B	2.85 GPM	1,000 PSI	1750 RPM	.787 in./20 mm	.414 in./10.5 mm	2.0 EBHP	11.0 lbs.



T9721EBF

**49 Series - Hollow Shaft Features:**

- Duplex plunger pump
- Hollow shaft w/ NEMA 56C flange for direct couple to electric motor
- Forged brass manifold with an exclusive lifetime warranty
- Duplex plunging action for improved impacted cleaning
- Specifically designed for the demands of the water jetting industry
- Die-cast, anodized aluminum oil-bath crankcase
- Solid ceramic plungers with continuously lubricated packings

**49 Series - Hollow Shaft - Specifications:**

Max. Inlet Pressure.....125 PSI  
 Max Fluid Pressure .....165° F  
 Inlet Port Thread .....1/2"-14 BSP-F  
 Discharge Port Thread.....3/8"-19 BSP-F  
 Solid Shaft.....5/8 (.625) in.  
 Pump Dimensions.....13.84"x9.8"x7.7"  
 Crankcase Oil Capacity.....10.1 oz.  
 Use GP Series 100 Oil (see page 55)  
 Product Group.....U

**49 SERIES - 5/8" HOLLOW SHAFT**

Model	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
T9711EBF	1.70 GPM	1,500 PSI	1750 RPM	.787 in./20 mm	.260 in./6.6 mm	1.7 EBHP	16.0 lbs.
T9721EBF	2.11 GPM	1,500 PSI	1750 RPM	.787 in./20 mm	.307 in./7.8 mm	2.2 EBHP	16.0 lbs.
T9731EBF	2.85 GPM	1,500 PSI	1750 RPM	.787 in./20 mm	.413 in./10.5 mm	2.9 EBHP	16.0 lbs.

**51 Series - Features:**

- Triplex plunger pump
- Forged brass manifold with 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



TT901

**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.....9/16 in./24 mm  
 Pump Dimensions.....7.0"x6.9"x5.1"  
 Crankcase Oil Capacity.....11.2 oz.  
 Use GP Series 100 Oil (see page 55)  
 Product Group.....U

51 SERIES - 24 MM SOLID SHAFT FOR PULLEY MOUNT OR DIRECT DRIVE WITH FLEX COUPLER AND BELL HOUSINGS							
Model	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TT9111	3.0 GPM	1,500 PSI	1750 RPM	.780 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.

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

Hollow Shaft .....5/8 (.625) in. or 3/4 (.750) in.  
 Pump Dimensions.....7.0"x7.2"x5.5"



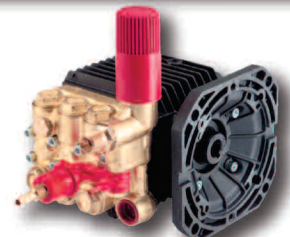
TT2021EBF

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.

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

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

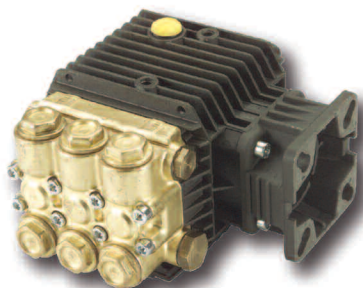


TT9061EBFU

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./5.9 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.
<b>Pump with Built-in Unloader and Downstream Injector</b>							
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.

51 SERIES - 3/4" HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO ELECTRIC MOTORS (NEMA-56C) W/ B/I UNLOADER AND DOWNSTREAM INJECTOR							
Model	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TT2035EBFU	3.5 GPM	2,000 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	4.8 EBHP	12.0 lbs.





TT9061GBF

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

Hollow Shaft.....3/4 (.750) in.  
 Pump Dimensions.....7.2"x7.2"x5.5"

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 GPM	3400 RPM	.591 in./15 mm	.197 in./5.0 mm	3.3 GHP	11.4 lbs.
TT2028GBF	2.8 GPM	2,000 GPM	3400 RPM	.591 in./15 mm	.260 in./6.6 mm	5.8 GHP	11.4 lbs.
TT9071GBF	2.8 GPM	1,500 GPM	3400 RPM	.591 in./15 mm	.260 in./6.6 mm	4.3 GHP	11.4 lbs.
TT2035GBF	3.5 GPM	2,000 GPM	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	7.2 GHP	11.4 lbs.
TT1540GBF	4.0 GPM	1,500 GPM	3400 RPM	.591 in./15 mm	.370 in./9.4 mm	6.2 GHP	11.4 lbs.



TP2520J34

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

Hollow Shaft.....3/4 (.750) in.  
 Pump Dimensions.....7.0"x7.2"x5.1"

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.



TP2530J34UIL

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

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

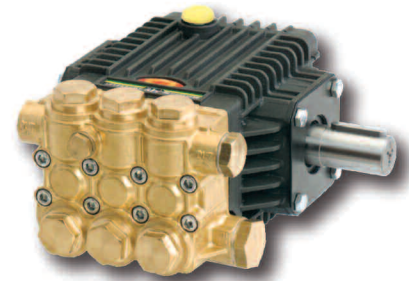
51 SERIES - 3/4" HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO GASOLINE ENGINES (SAE J609A), WITH BUILT-IN UNLOADER AND DOWNSTREAM INJECTOR							
Model	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TP2520J34UIL	1.9 GPM	2,500 PSI	3400 RPM	.591 in./15 mm	.197 in./5.0 mm	4.9 GHP	11.4 lbs.
TP2526J34UIL	2.6 GPM	2,700 PSI	3400 RPM	.591 in./15 mm	.256 in./6.5	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./8.9 mm	8.5 GHP	11.4 lbs.

**60 Series - Features:**

- Triplex plunger pump
- Compact design
- Forged brass manifold with 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  
 Shaft Diameter......945 in./24 mm  
 Gauge Port.....1/8"  
 Pump Dimensions.....7.6"x8.0"x4.9"  
 Crankcase Oil Capacity.....11.8 oz.  
 Use GP Series 100 Oil (see page 55)  
 Product Group.....U



TC1509S17

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.

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

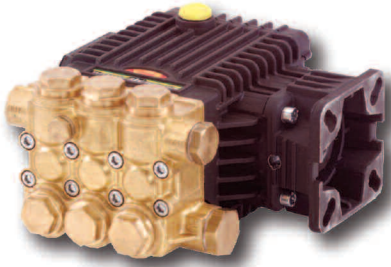
Hollow Shaft .....5/8 (.625) in. or 3/4 (.750) in.  
 Pump Dimensions.....7.8"x7.3"x5.5"



TC1508E175

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	.591 in./15 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	15.1 lbs.
TC1507E346	3.0 GPM	2,700 PSI	3400 RPM	.591 in./15 mm	.283 in./7.2 mm	5.55	15.1 lbs.
TC1508E346	3.3 GPM	2,500 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	5.65	15.1 lbs.



TC1506G

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

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

**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./8.9 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.



TC1506GUI

**60 Series - 3/4" Hollow Shaft w/ Built-in Unloader:**

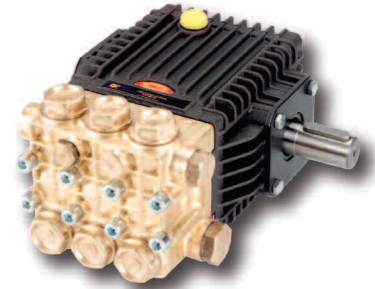
Hollow Shaft .....3/4 (.750) in.  
 Pump Dimensions .....10.4"x8.0"x7.7"

**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./8.9 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.

**63 Series - Features:**

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



TX1812S17

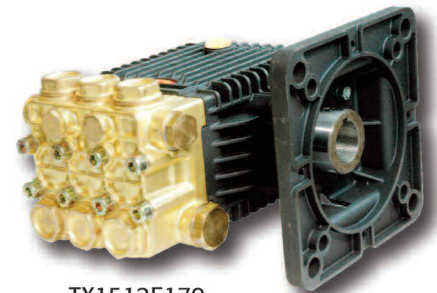
**63 Series - Solid Shaft - Specifications:**

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  
 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 55)  
 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.

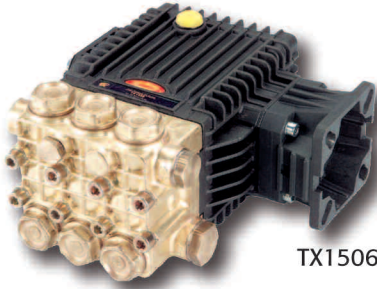
**63 Series - Hollow Shaft - Electric - Specifications:**

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



TX1512E179

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
TX1510E349	2.1 GPM	3,000 PSI	3400 RPM	.591 in./15 mm	.394 in./10 mm	4.3 EBHP	18 lbs.
TX1512E179	2.6 GPM	3,000 PSI	1750 RPM	.591 in./15 mm	.472 in./12 mm	5.3 EBHP	18 lbs.
TX1810E179	3.2 GPM	2,500 PSI	1750 RPM	.709 in./18 mm	.394 in./10 mm	4.4 EBHP	18 lbs.
TX1812E179	3.8 GPM	2,500 PSI	1750 RPM	.709 in./18 mm	.472 in./12 mm	5.2 EBHP	18 lbs.
TX1510E349	4.0 GPM	3,000 PSI	3400 RPM	.591 in./15 mm	.394 in./10 mm	8.2 EBHP	18 lbs.



TX1506G6

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

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

**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.



TX1506G8

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

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

**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.



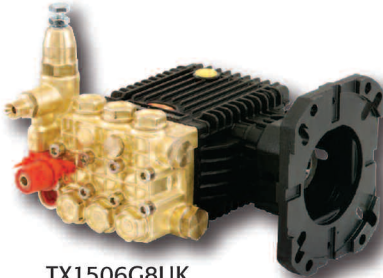
TX1508G8UIA

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

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

**63 SERIES - 1" HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO GASOLINE ENGINES (SAE J609B) - WITH BUILT IN UNLOADER AND LEFT SIDE 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.



TX1506G8UK

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

Hollow Shaft .....1 in.  
Pump Dimensions .....8.4"x8.3"x4.8"  
Inlet Port Thread .....1/2"-14BSP-F  
Discharge Port Thread .....3/8"-19 BSP-M

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

Model	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TX1506G8UK	2.6 GPM	3,000 PSI	3400 RPM	.591 in./15 mm	.256 in./6.5 mm	8.0 GHP	18.2 lbs.
TX1508G8UK	3.0 GPM	3,000 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	9.2 GHP	18.2 lbs.
TX1509G8UK	3.5 GPM	3,000 PSI	3400 RPM	.591 in./15 mm	.355 in./9.0 mm	10.8 GHP	18.2 lbs.
TX1510G8UK	4.0 GPM	3,000 PSI	3400 RPM	.591 in./15 mm	.394 in./10 mm	12.3 GHP	18.2 lbs.

**EZ Series - Features:**

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



EZ3036SN

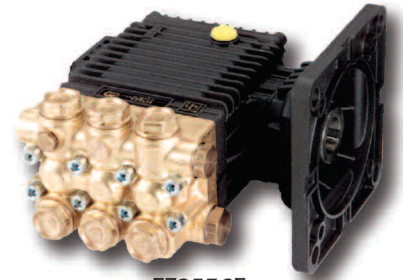
**EZ Series - Solid Shaft - Specifications:**

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......945 in./24mm  
 Pump Dimensions.....8.8"x8.8"x6.3"  
 Crankcase Oil Capacity.....14.0 oz.  
 Use GP Series 100 Oil (see page 55)  
 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	4.5 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.

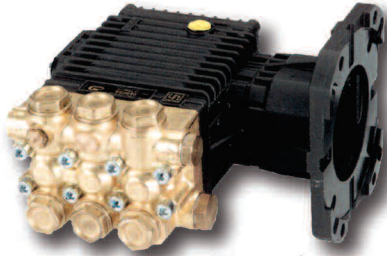
**EZ Series - Hollow Shaft - Electric - Specifications:**

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



EZ2536E

EZ 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
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.



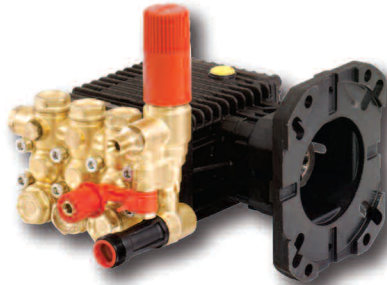
EZ3040G

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

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

**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.



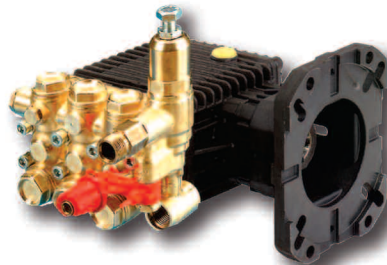
EZ3040GUI

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

Hollow Shaft ..... 1 in.  
Pump Dimensions.....8.8"x9.7"x6.5"  
Features Flow Sensitive Unloader

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



EZ3035GUK

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

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

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

Model	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
EZ3035GUK	3.5 GPM	3,000 PSI	3400 RPM	.591 in./15 mm	.335 in./8.5 mm	10.8 GHP	19.3 lbs.
EZ3040GUK	4.0 GPM	3,000 PSI	3400 RPM	.591 in./15 mm	.374 in./9.5 mm	12,3 GHP	19.3 lbs.

**EP Series - Features:**

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

**NEW SERIES!**



EP1510S17

**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 oz.  
 Use GP Series 100 Oil (see page 55)  
 Product Group.....W

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 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 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 "UI" to end of part number.

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

Hollow Shaft .....1-1/8 (1.125) in.  
 Pump Dimensions .....9.5"x8.38"x5.1"

**NEW SERIES!**



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 "UI" to end of part number.



**NEW  
SERIES!**



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 GAS 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	4.4 HP	15.8 lbs.
EP1506G6	2.9 GPM	3,045 PSI	3400 RPM	.591 in./15 mm	.236 in./6 mm	6.0 HP	15.8 lbs.
EP1508G6	3.4 GPM	3,045 PSI	3400 RPM	.591 in./15 mm	.315 in./8 mm	7.1 HP	15.8 lbs.

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

**NEW  
SERIES!**



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 GAS 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	6.0 HP	15.9 lbs.
EP1508G8	3.4 GPM	3,045 PSI	3400 RPM	.591 in./15 mm	.315 in./8 mm	7.1 HP	15.9 lbs.
EP1509G8	3.7 GPM	3,000 PSI	3400 RPM	.591 in./15 mm	.354 in./9 mm	7.6 HP	15.9 lbs.
EP1510G8	4.2 GPM	3,000 PSI	3400 RPM	.591 in./15 mm	.394 in./10 mm	8.8 HP	15.9 lbs.
EP1306G8	2.1 GPM	4,000 PSI	3400 RPM	.512 in./13 mm	.236 in./6 mm	5.8 HP	15.9 lbs.
EP1308G8	2.6 GPM	4,000 PSI	3400 RPM	.512 in./13 mm	.315 in./8 mm	7.1 HP	15.9 lbs.
EP1309G8	2.9 GPM	4,000 PSI	3400 RPM	.512 in./13 mm	.354 in./9 mm	7.9 HP	15.9 lbs.
EP1310G8	3.2 GPM	4,000 PSI	3400 RPM	.512 in./13 mm	.394 in./10 mm	8.8 HP	15.9 lbs.
EP1311G8	3.4 GPM	4,000 PSI	3400 RPM	.512 in./13 mm	.433 in./11 mm	9.3 HP	15.9 lbs.
EP1313G8	4.0 GPM	4,000 PSI	3400 RPM	.512 in./13 mm	.512 in./13 mm	10.0 HP	15.9 lbs.

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

**ES Series - Features:**

- Triplex plunger pump
- Advanced forged brass manifold , increases working pressure to 4,000 PSI
- Patent-pending plunger guide bushing
- Solid ceramic plungers with innovative dual guide system
- Optimized outlet valves
- Exclusive protection chamber between crankcase and manifold
- New dual lip oil seal

**NEW SERIES!**



ES2212S

**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 .....  
 Use GP Series 100 Oil (see page 55)  
 Product Group.....X

ES SERIES - 24 MM SOLID SHAFT							
Model	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
ES2212S	4.76 GPM	1,750 PSI	1450 RPM	.866 in./22 mm	.472 in./12 mm	5.6 EBHP	25.5 lbs.
ES2213S	5.55 GPM	1,450 PSI	1450 RPM	.866 in./22 mm	.512 in./13 mm	5.5 EBHP	25.5 lbs.
ES1810S	3.43 GPM	2,465 PSI	1750 RPM	.709 in./18 mm	.394 in./10 mm	5.7 EBHP	25.5 lbs.
ES2010S	3.96 GPM	2,175 PSI	1750 RPM	.787 in./20 mm	.394 in./10 mm	5.8 EBHP	25.5 lbs.
ES2012S	4.76 GPM	1,750 PSI	1750 RPM	.787 in./20 mm	.472 in./12 mm	5.6 EBHP	25.5 lbs.
ES2013S	5.55 GPM	1,450 PSI	1750 RPM	.787 in./20 mm	.512 in./13 mm	5.5 EBHP	25.5 lbs.

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

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

**NEW SERIES!**



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	25.5 lbs.
ESN2213S	5.55 GPM	3,045 PSI	1450 RPM	.866 in./22 mm	.512 in./13 mm	11.5 EBHP	25.5 lbs.
ESN1810S	3.43 GPM	3,625 PSI	1750 RPM	.709 in./18 mm	.394 in./10 mm	8.4 EBHP	25.5 lbs.
ESN2010S	3.96 GPM	3,625 PSI	1750 RPM	.787 in./20 mm	.394 in./10 mm	9.7 EBHP	25.5 lbs.
ESN2012S	4.76 GPM	3,625 PSI	1750 RPM	.787 in./20 mm	.472 in./12 mm	11.7 EBHP	25.5 lbs.
ESN2013S	5.55 GPM	3,625 PSI	1750 RPM	.787 in./20 mm	.512 in./13 mm	13.6 EBHP	25.5 lbs.

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

Hollow Shaft.....1 in.  
 Pump Dimensions .....10.4"x8.8"x5.4"

**NEW SERIES!**



ESN1310G

ES SERIES - 1" HOLLOW SHAFT NICKEL-PLATED, FLANGED FOR GASOLINE ENGINES (SAE J609-B)							
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	9.3 GHP	25.5 lbs.
ESN1313G	3.96 GPM	4,000 PSI	3400 RPM	.512 in./13 mm	.512 in./13 mm	10.7 GHP	25.5 lbs.
ESN1510G	4.49 GPM	3,625 PSI	3400 RPM	.591 in./15 mm	.394 in./10 mm	11.0 GHP	25.5 lbs.
ESN1512G	5.28 GPM	3,625 PSI	3400 RPM	.591 in./15 mm	.472 in./12 mm	13.0 GHP	25.5 lbs.



T991

**50 Series - Features:**

- Triplex plunger pump
- Forged brass manifold with 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./24mm  
 Pump Dimensions.....9.3"x8.3"x5.4"  
 Max. Inlet Vacuum: .....9 ft. water (7.9 in. Hg)  
 Crankcase Oil Capacity.....15.2 oz.  
 Use GP Series 8090 Oil (see page 55)  
 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**

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

**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.....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 55)  
 Product Group.....X



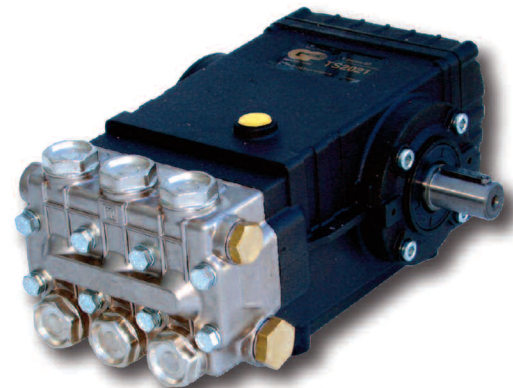
TSS1511

**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.
	3.5 GPM	2,100 PSI	1450 RPM	.787 in./20 mm	.394 in./10mm	5.0 EBHP	33.8 oz	32.0 lbs.
TS1331	4.0 GPM	2,000 PSI	1750 RPM	.787 in./20 mm	.394 in./10mm	5.5 EBHP	33.8 oz	32.0 lbs.
	3.5 GPM	2,700 PSI	1450 RPM	.787 in./20 mm	.394 in./10mm	6.5 EBHP	40.6 oz	32.0 lbs.
TS1711*	4.0 GPM	2,000 PSI	1450 RPM*	.787 in./20 mm	.472 in./12mm	5.5 EBHP	33.8 oz	32.0 lbs.
	4.5 GPM	1,500 PSI	1750 RPM	.787 in./20 mm	.472 in./12mm	4.9 EBHP	33.8 oz	32.0 lbs.
TSS1511	4.0 GPM	3,500 PSI	1450 RPM	.787 in./20 mm	.472 in./12mm	9.6 EBHP	40.6 oz	32.0 lbs.
TS1321*	4.75 GPM	2,100 PSI	1450 RPM	.866 in./22 mm	.472 in./12mm	6.8 EBHP	40.6 oz	32.0 lbs.
TS921	4.75 GPM	1,800 PSI	1450 RPM	.866 in./22 mm	.472 in./12mm	5.9 EBHP	33.8 oz	32.0 lbs.
TS1811	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.

**47 Series - Nickel-Plated Brass Manifold**

Pump Dimensions.....12.6x9.2x6.9  
 Shaft Diameter.....945 in./24 mm  
 Oil Capacity.....40.6 oz.



TS2021

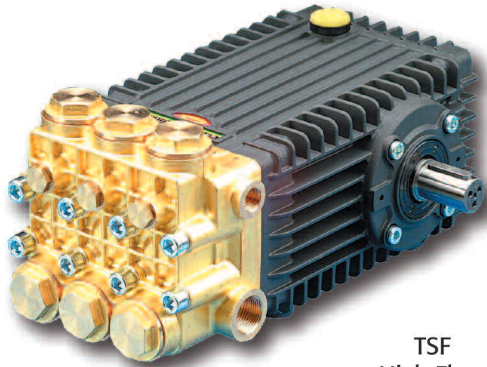
**47 SERIES - 24 MM NICKEL-PLATED MANIFOLD**

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./12mm	9.6 EBHP	40.6 oz	32.0 lbs.
	4.75 GPM	2,300 PSI	1750 RPM	.787 in./20 mm	.394 in./10 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./12mm	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.

\* To achieve the lower RPM, these pumps are available with a 1" gearbox for mounting to J609B gas engines.

# PRESSURE CLEANING PUMPS 66 SERIES

## UP TO 12 GPM



TSF  
High Flow

### 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

### 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......945 in./24 mm  
 Pump Dimensions.....14.94"x9.78"x6.99"  
 Crankcase Oil Capacity.....40.6 oz.  
 Use GP Series 100 Oil (see page 55)  
 Product Group.....X

### 66 SERIES - TSF High Flow - 24 MM

Model	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TSF2019	6.3 GPM	3,600 PSI	1450 RPM	.787 in./20 mm	.748 in./19 mm	15.5 EBHP	40.7 lbs.
	7.6 GPM	3,600 PSI	1750 RPM	.787 in./20 mm	.748 in./19 mm	18.7 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.
	8.8 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	3,600 PSI	1750 RPM	.787 in./20 mm	.748 in./19 mm	15.5 EBHP	44.0 lbs.



TSP  
High Pressure

### 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

### 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......945 in./24 mm  
 Pump Dimensions.....13.84"x9.8"x7.7"  
 Min. Inlet Pressure:.....30 PSI  
 Crankcase Oil Capacity.....40.6 oz.  
 Use GP Series 100 Oil (see page 55)  
 Product Group.....X

### 66 SERIES - TSP High Pressure - 24 MM

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	17.2 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 - Features:**

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

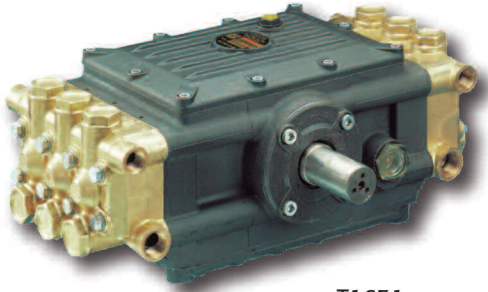


T41

**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 100 Oil (see page 55)  
 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	.845 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.



T1631

**48 Series 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 55)  
 Product Group.....Y

**48 SERIES - 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.

# AGRICULTURE SERIES

**AT0033:**

- 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 oz.  
 Use GP Series 100 Oil (see page 55)  
 Product Group.....Y



AT0033

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

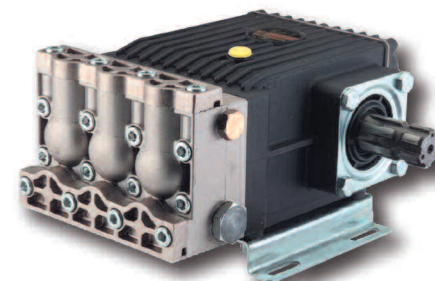
AT SERIES 75 DUPLEX - 1-3/8" SPLINED SHAFT							
Model	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
AT0033	7.93 GPM	435 PSI	650 RPM	1.417 in./36 mm	.945 in./24 mm	2.4 EBHP	28.0 lbs.

**AT0055:**

- Triplex 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 Stainless Steel inlet and discharge valves
- Solid ceramic plungers with continuously lubricated packings

**AT0055 - Splined Shaft - Specifications:**

Shaft Diameter .....1.375 in./34.9 mm ASAE Splined  
 Pump Dimensions.....13"x14"x7.5"  
 Crankcase Oil Capacity.....51.0 oz.  
 Use GP Series 100 Oil (see page 55)  
 Product Group .....X



AT0055

AT0055 TRIPLEX - 1-3/8" ASAE SPLINED SHAFT							
Model	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
<i>Single PTO shaft, right side:</i>							
AT0055	13.22 GPM	725 PSI	650 RPM	1.417 in./36 mm	.945 in./24 mm	6.6 EBHP	36.0 lbs.
<i>Dual shaft, splined PTO on right, solid shaft on left side:</i>							
AT0055DS	13.22 GPM	725 PSI	650 RPM	1.417 in./36 mm	.945 in./24 mm	6.6 EBHP	36.0 lbs.
<i>Dual shaft, solid shaft on right, splined PTO on left side:</i>							
AT0055DSL	13.22 GPM	725 PSI	650 RPM	1.417 in./36 mm	.945 in./24 mm	6.6 EBHP	36.0 lbs.

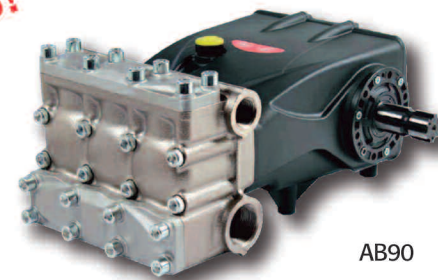
**AB Series Features:**

- Triplex plunger pump
- Specifically designed for the agricultural 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" BSPP  
 Discharge Port Thread.....1" BSPP  
 Shaft Diameter .....1.375 in./34.9 mm ASAE  
 Pump Dimensions .....17.48"x17"x8.29"  
 Oil Capacity.....77.8 oz.  
 Use GP Series 100 Oil (see page 55)  
 Product Group.....Y

**NEW SERIES!**



AB90

AB SERIES TRIPLEX - 1-3/8" ASAE SPLINED SHAFT							
Model	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
AB90	23.9 GPM	870 PSI	650 RPM	1.42 in./36 mm	1.78 in./45 mm		90.4 lbs.
AB120	31.7 GPM	870 PSI	550 RPM	1.78 in./45 mm	1.78 in./45 mm		90.4 lbs.
AB180	47.6 GPM	870 PSI	650 RPM	1.97 in./50 mm	1.78 in./45 mm		90.4 lbs.



# EMPEROR PUMPS



**Emperor**

*Pumps That Rule Any Environment*

## **Automotive**

Municipal vehicle maintenance  
Bug and tar removal  
General exterior cleaning

## **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 application  
Pre-soak systems  
Weep systems

Foam application

## **Tunnel wash**

Prep station  
Brush wetting  
Detergent application  
Spot-free rinse application  
Bay wash-down

## **Mobile vehicle wash**

Truck mounted wash units  
Spot-free rinse application

## **Household cleaning**

Carpet cleaning

## **Household exterior cleaning**

Mildew removal  
Storm cleanup

Pool decks  
Gutter cleaning

## **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

**HTC Series 60HT:**

- 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
- Specifically 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 60 - 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 55)  
 Product Group.....X



HTC1506S17

HTC SERIES 60HT - SOLID SHAFT DIAMETER .945 in./24 mm							
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	3.5 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)" 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:**

- 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
- Specifically 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 oz.  
 Use GP Series 100 Oil (see page 55)  
 Product Group.....X

HTXS SERIES 63HT SOLID SHAFT DIAMETER .5 in./24 mm							
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 HP	18 lbs.
HTXS1810S	3.1 GPM	2,000 PSI	1750 RPM	.709 in./18 mm	.394 in./10 mm	4.2 HP	18 lbs.
HTXS1812S	3.8 GPM	2,000 PSI	1750 RPM	.709 in./18 mm	.472 in./12 mm	5.2 HP	18 lbs.



HTS2210S

**HTS Series 47HT Features:**

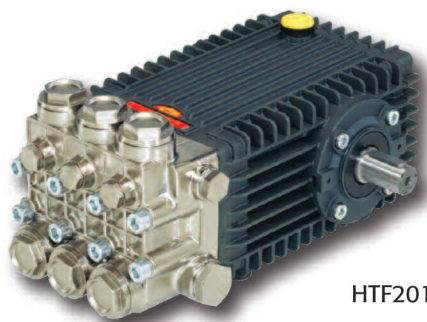
- Triplex plunger pump, Solid Shaft
- Features patented "high tech" packings
- Patented inlet/outlet valve cage
- Nickel-plated forged brass manifold with exclusive lifetime warranty
- Specifically designed to handle rigorous duty cycles, high temperatures and chemicals
- Ideal for use in carpet cleaning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

**HTS 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 55)  
 Product Group.....X

**HTS SERIES 47HT - 24 MM SOLID SHAFT**

Model	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
HTS2215S	5.0 GPM	2,300 PSI	1200 RPM	.866 in./22 mm	.591 in./15 mm	4.1/7.5 HP	32.0 lbs.
HTS2210S	4.0 GPM	2,300 PSI	1450 RPM	.866 in./22 mm	.394 in./10 mm	4.1/6/3 HP	32.0 lbs.
HTS2212S	4.75 GPM	2,300 PSI	1450 RPM	.866 in./22 mm	.472 in./12 mm	5.0/7.5 HP	32.0 lbs.
HTS2016S	5.6 GPM	3,000 PSI	1450 RPM	.787 in./20 mm	.630 in./16 mm	10.2 HP	32.0 lbs.



HTF2018S

**HTF Series 66HT Features:**

- Triplex plunger pump, Solid Shaft
- Includes all Emperor features
- 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 55)  
 Product Group.....X

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

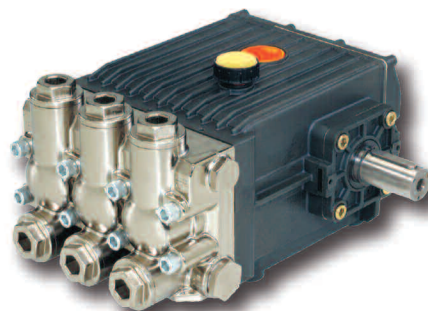
Model	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
HTF2018S	7.5 GPM	3,600 PSI	1750 RPM	.787 in./20 mm	.748 in./18 mm	10/12/18.5 HP	41.0 lbs.
HTF2221S	10.2 GPM	3,000 PSI	1750 RPM	.866 in./22 mm	.826 in./21 mm	17.5/21 HP	41.0 lbs.
HTF2421S	10.0 GPM	3,000 PSI	1450 RPM	.945 in./24 mm	.826 in./21 mm	20.5 HP	41.0 lbs.
	12.0 GPM	2,500 PSI	1750 RPM	.945 in./24 mm	.826 in./21 mm	20.5 HP	41.0 lbs.

**HTW Series 69HT:**

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

**HTW Series 69HT - Specifications:**

Max. Inlet Pressure.....125 PSI  
 Max Fluid Temperature .....185° F  
 Inlet Port Thread.....1"-11 BSP-F  
 Discharge Port Thread.....3/4"-14 BSP-F  
 Shaft Diameter.....1.378 in./35 mm  
 Pump Dimensions .....13"x11.9"x7.3"  
 Crankcase Oil Capacity.....50.7 oz.  
 Use GP Series 100 Oil (see page 55)  
 Product Group.....X



HTW3624S

HTW SERIES 69HT - 35 MM SHAFT							
Model	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
HTW3624S	18.0 GPM	1,200 PSI	1000 RPM	1.417 in./36 mm	.946 in./24 mm	19.5 HP	57.0 lbs.

**HTCK Series 70HT:**

- Triplex Plunger Pump
- Includes all Emperor features
- Designed for rollover car wash 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" NTP-F  
 Discharge Port Thread.....1/2" NTP-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 55)  
 Product Group.....X



HTCK3623S

HTCK SERIES 70HT - 30 MM SHAFT							
Model	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
HTCK3623S	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	22.0 HP	79.6 lbs.

**HTCK Series 71HT:**

- Triplex Plunger Pump
- Includes all Emperor features
- Designed for rollover car wash systems
- 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" NTP-F  
 Discharge Port Thread.....1" NTP-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 55)  
 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 SHAFT							
Model	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
HTCK4050S	36.0 GPM	1,500 PSI	800 RPM	1.6 in./40 mm	1.9 in./50 mm	38.0 HP	157 lbs.
	40.5 GPM	1,500 PSI	900 RPM	1.6 in./40 mm	1.9 in./50 mm	41.6 HP	157 lbs.

# Vehicle & Carpet Cleaning Applications



## 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 application
- Pre-soak systems
- Weep systems
- Foam application

## Tunnel wash

- Prep station
- Brush wetting
- Detergent application
- Spot-free rinse application
- Bay wash-down

## Mobile vehicle wash

- Truck mounted wash units
- Spot-free rinse application

## Carpet Cleaning

# EMPEROR SERIES

**HTXS Series 63HT:**

- 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



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 oz.  
 Use GP Series 100 Oil (see page 55)  
 Product Group.....X

HTXS SERIES 63HT - 24 MM SOLI D 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 lbs.
HTXS1812S	3.8 GPM	2,000 PSI	1750 RPM	.709 in./18 mm	.472 in./12 mm	5.2 HP	18 lbs.
HTXS1813S	3.5 GPM	2,500 PSI	1450 RPM	.709 in./18 mm	.512 in./13 mm	6 HP	18 lbs.

**HTS Series 47HT Features:**

- Triplex plunger pump, Solid Shaft
- 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



HTS2210S

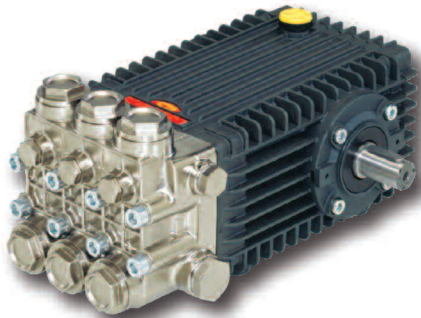
**HTS Series - Specifications:**

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 55)  
 Product Group.....X

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	5.0 GPM	2,300 PSI	1200 RPM	.866 in./22 mm	.591 in./15 mm	7.5 GP	32.0 lbs.
HTS2016S	5.6 GPM	3,000 PSI	1450 RPM	.787 in./20 mm	.630 in./16 mm	10.2 HP	32.0 lbs.

See pages 29-33 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.



HTF2018S

**HTF Series 66HT Features:**

- Triplex plunger pump, Solid Shaft
- 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
- Specifically 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 55)  
 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 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.
HTF2018S	7.5 GPM	3,600 PSI	1750 RPM	.787 in./20 mm	.748 in./18 mm	10/12/18.5 HP	41.0 lbs.
HTF2221S	10.2 GPM	3,000 PSI	1750 RPM	.866 in./22 mm	.826 in./21 mm	17.5/21 HP	41.0 lbs.



HTW3624S

**HTW Series 69HT Features:**

- Triplex plunger pump, Solid Shaft
- 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
- Specifically 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

**HTW Series 69HT - Specifications:**

Max. Inlet Pressure.....125 PSI  
 Max Fluid Temperature ..... 185° F  
 Inlet Port Thread.....1"-11 BSP-F  
 Discharge Port Thread.....3/4"-14 BSP-F  
 Shaft Diameter .....1.378 in./35 mm  
 Pump Dimensions .....13"x11.9"x7.3"  
 Crankcase Oil Capacity.....50.7 oz.  
 Use GP Series 100 Oil (see page 55)  
 Product Group.....X

**HTW SERIES 69HT - 35 MM SOLID SHAFT**

Model	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
HTW3624S	18.0 GPM	1,200 PSI	1000 RPM	1.417 in./36 mm	.946 in./24 mm	19.5 HP	57.0 lbs.

See pages 29 - 33 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.

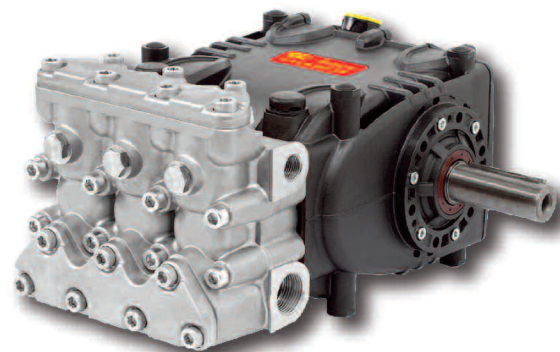
# EMPEROR SERIES

**HTCK Series 70HT:**

- Triplex Plunger Pump
- Features patent-pending "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

**HTCK Series 70HT - Specifications:**

Max. Inlet Pressure.....125 PSI  
 Max Fluid Temperature .....185° F  
 Inlet Port Thread.....1" NTP-F  
 Discharge Port Thread.....1/2" NTP-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 55)  
 Product Group.....X



HTCK3623S

HTCK SERIES 70HT 30 MM SOLID SHAFT							
Model	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
HTCK3623S	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	22.0 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:**

- 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 HT technology

**HTCK Series 71HT - Specifications:**

Max. Inlet Pressure.....125 PSI  
 Max Fluid Temperature .....185° F  
 Inlet Port Thread.....1-1/2" NTP-F  
 Discharge Port Thread.....1" NTP-F  
 Shaft Diameter .....1.575 in./40 mm  
 Pump Dimensions.....20.7"x14.5"x9.9"  
 Oil Capacity .....124.4 oz.  
 Use GP Series 220 Oil (see page 55)  
 Product Group.....X



HTCK4050S

HTCK SERIES 71HT							
Model	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
HTCK4050S*	36.0 GPM	1,500 PSI	800 RPM	1.6 in./40 mm	1.9 in./50 mm	38.0 HP	157 lbs.
	40.5 GPM	1,500 PSI	900 RPM	1.6 in./40 mm	1.9 in./50 mm	41.6 HP	157 lbs.
Rail Kits:							
HT150RCK - Converts Cat 3535							
HT150CWL - Converts CW1541 - Long Pump Stand							
HT150CWS - Converts CW1541 - Short Pump Stand							
638295 1" NP Plug, 3000 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 29 - 33 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 PUMPS CW 47 SERIES

UP TO 5.0 GPM



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
- Large capacity, die-cast, anodized aluminum oil-bath crankcase
- Over-sized connecting rods for maximum life
- Heavy-duty tapered roller bearing
- 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......945 in./24 mm (dual shaft)  
 Pump Dimensions..... 11.4"x10.8"x6.9"  
 Crankcase Oil Capacity.....33.8 oz.  
 Use GP Series 100 Oil (see page 55)  
 Product Group.....X

**CW 47 SERIES - 24 MM SOLID SHAFT**

Model	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
CW2040	5.0 GPM	2,500 PSI	1250 RPM	.787 in./20 mm	.630 in./16 mm	8.6 EBHP	30.0 lbs.
CW24	5.0 GPM	2,500 PSI	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./1- mm	5.5 EBHP	30.0 lbs.

**CW 47 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 29 - 33 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.....50.7oz.  
     Use GP Series 100 Oil (see page 55)  
 Product Group.....Y

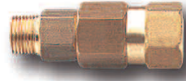
CW SERIES 69 - 35 MM SOLID SHAFT							
Model	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
CW1012	10.0 GPM	1,200 PSI	750 RPM	1.18 in./30 mm	.946 in./24 mm	8.2 EBHP	45.0 lbs.
	12.0 GPM	1,000 PSI	900 RPM	1.18 in./30 mm	.946 in./24 mm	8.2 EBHP	45.0 lbs.

See pages 29 - 33 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

## Swivels



YSW38MFB



YSW38MFSS

Product Group: H

BRASS & STAINLESS STEEL SWIVELS								
Model	DESCRIPTION	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHP WGHT
YSW38MFB	Medium Resistance, Brass	10.5 GPM	3,650 PSI	4,050 PSI	3/8" BSP-M	3/8" BSP-F	320° F	0.3 lbs.
YSW14MFSS	Medium Resistance, SS	10.5 GPM	5,100 PSI	5,650 PSI	3/8" BSP-M	3/8" BSP-F	320° F	0.3 lbs.
YSW38MFSS	Medium Resistance, SS	10.5 GPM	5,100 PSI	5,650 PSI	1/4" BSP-M	1/4" BSP-F	320° 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	320° F	0.3 lbs.

## Squeegees



560001

Product Group: I

SQUEEGEES	
Model	DESCRIPTION
560002	5 Foot Tapered Wood Handle
PXW2005	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

Product Group: I

NOZZLE PACKS	
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
105164	Nozzle Kit for Oasis, Front Bridge of 8530 Windvan, 16 Nozzles
105167	Nozzle Kit for Oasis 9120 Windvan, 24 Nozzles
105169	Nozzle Kit for Oasis Rocker Panel Sprayers, 10 Nozzles
105191	Nozzle Kit for Hydrospray Cobra-Tower, 16 Nozzles
105193	Nozzle Kit for Hydrospray Rainmaker-Tower, 9 Nozzles

# VEHICLE CLEANING ACCESSORIES



## Regulators - Great for Multiple Gun Prep Units

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	Stainless Steel, Viton, PTFE	13.0 GPM	1,000 PSI	3/8" NPT-F	1/2" NPT-F	190° F	2.0 lbs.
100999	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 SS	16.0 GPM	3,600 PSI	1/2" BSP-F	1/2" BSP-F	185° F	2.3 lbs.

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



## 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	8.0 GPM	1,450 PSI	1,750 PSI	(2) 3/8" BSP-F	(2) 3/8" BSP-F	195° F	1.7 lbs.
PLSR4HVNCV	8.0 GPM	2,300 PSI	2,600 PSI	(2) 3/8" BSP-F	(2) 3/8" BSP-F	195° F	1.7 lbs.
YBRV5325	53.0 GPM	2,600 PSI	2,900 PSI	3/4" BSP-F	1/2" BSP-F	195° F	2.0 lbs.



## 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	2.3 lbs.
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.
YU21235	21.0 GPM	2,200 PSI	2,450 PSI	(2) 3/8" NPT-F	1/2" NPT-F	(2) 1/2" NPT-F	200° F	3.1 lbs.
NEW! YVB5121B	21.0 GPM	4,050 PSI	4500 PSI	1/2" NPT-F	1/2" NPT-F	1/2" NPT-F	195° F	2.5 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.



## Check Valves

Product Group: T

VEHICLE CLEANING CHECK VALVES							
Model	DESCRIPTION	GPM	RATED	MAX	INLET	MAX TEMP	SHP WGHT
YCV14FSS	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	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	0.8 lbs.
YCV34FSS	Stainless Steel	47.6 GPM	5,800 PSI	6,500 PSI	3/4" BSP-F	195° F	0.8 lbs.

# VEHICLE CLEANING ACCESSORIES

## Accumulators



686010



686011



686028

Product Group: K

VEHICLE CLEANING ACCUMULATORS					
Model	DESCRIPTION	GPM	RATED	INLET	SHP WGHT
686011	Non-Rechargeable	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.

## Spray Guns



YRL2640W



YG4000WN



YG5000W



DG5010W

Product Group: I

VEHICLE CLEANING SPRAY GUNS								
Model	DESCRIPTION	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHP WGHT
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	10.0 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	1.7 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



YL20PNS



YL20PNB

Product Group: I

VEHICLE CLEANING INSULATED LANCES								
Model	DESCRIPTION	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHP 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



DL18FWBK



DL18FWBL



DL18FWRD

Product Group: I

VEHICLE CLEANING FLEXIBLE LANCES								
Model	DESCRIPTION	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHP 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.

# VEHICLE CLEANING ACCESSORIES



100975

100931

## Reedless Flow Switches

Product Group: D

VEHICLE CLEANING REEDLESS FLOW SWITCHES								
Model	GPM	MAX	MAX TEMP	INLET	OUTLET	VOLTAGE	MATERIALS	SHP WGHT
100975	12.0 GPM	5,000 PSI	180° F	3/8"-18 NPT-F	3/8"-18 NPT-F	250 VAC	Brass, SS	1.0 lbs.
100931	12.0 GPM	5,000 PSI	180° F	3/8"-18 NPT-F	3/8"-18 NPT-F	250 VAC	SS	1.0 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.



100334S

100541S

## Chemical Injectors

SS Body, SS Nozzle, Special Elastomers and SS Ball

Product Group: L

VEHICLE CLEANING CHEMICAL INJECTORS - SS BODY, SS NOZZLE, SPECIAL ELASTOMERS AND SS BALL								
Model	ORIFICE	GPM	MAX	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WGHT
100336S	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.
100334S	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.
100333S	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.
100339S	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.
100541S	2.1 mm	3.0 to 5.0 GPM	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4" Dual	0.5 lbs.

100781 Metering Tips

REPAIR KITS AVAILABLE

# VEHICLE CLEANING ACCESSORIES

## Chemical Injectors

SS Body, SS Nozzle,  
EPDM Elastomers and SS Ball



100541



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	SHP WGHT
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.
100541	2.1 mm	3.0 to 5.0 GPM	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4" Dual	0.5 lbs.

REPAIR KITS AVAILABLE

## Chemical Injectors

SS Body, SS Nozzle,  
Viton Elastomers and SS Ball



100334

Product Group: L

VEHICLE CLEANING CHEMICAL INJECTORS - SS BODY, SS NOZZLE, VITON ELASTOMERS AND SS BALL								
Model	ORIFICE	GPM	MAX	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WGHT
100336	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.
100094	1.6 mm	2.0 to 3.0 GPM	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100835	1.8 mm	2.0 to 3.0 GPM	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100334	2.2 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.
100333	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.
100339	2.3 mm	5.0 to 8.0 mm	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.

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	SHP WGHT
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

Stainless Steel Body, Nozzle,  
Kynar Hose Barb and Teflon Ball

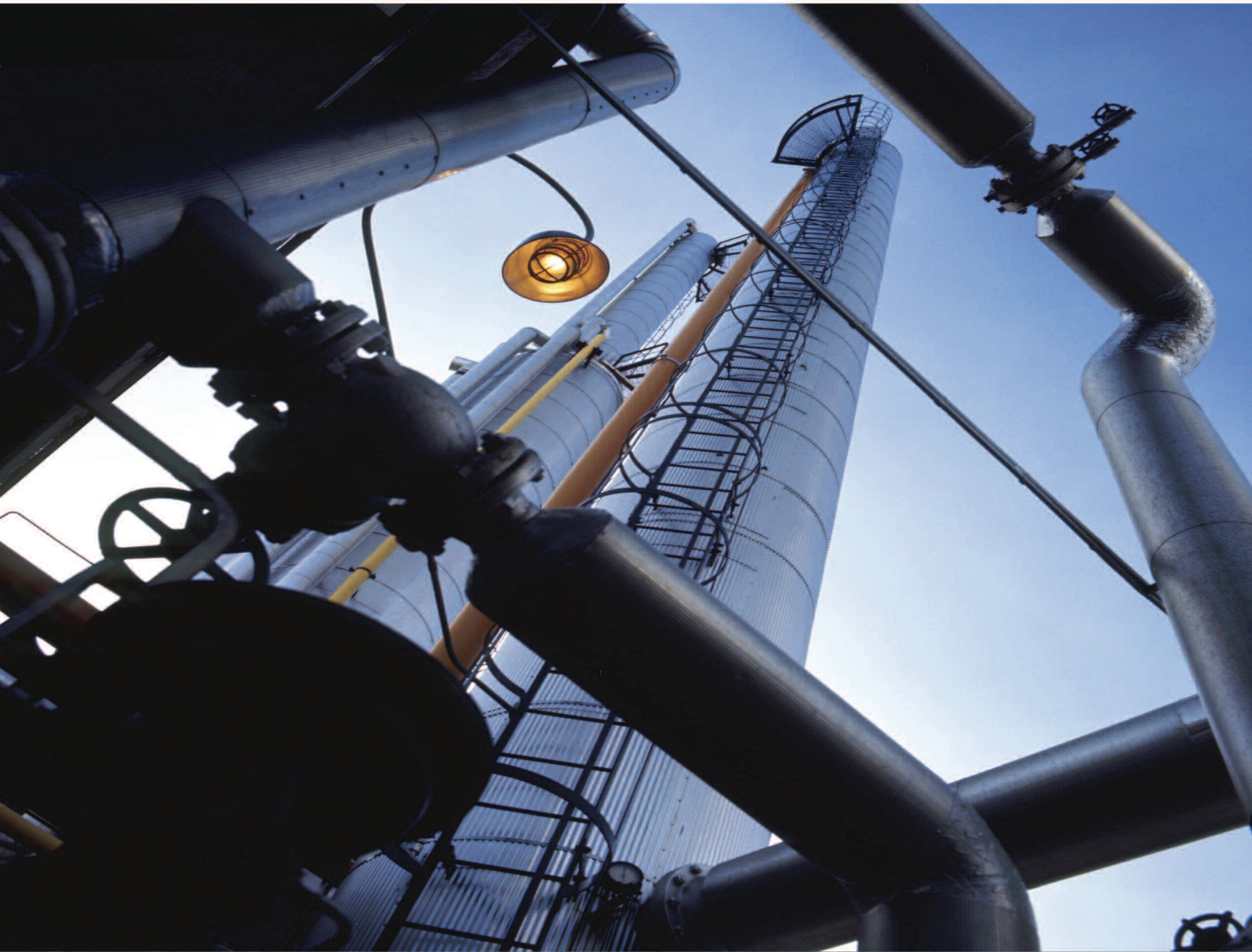


100096

Product Group: L

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

# INDUSTRIAL APPLICATIONS



## **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

## **Tank cleaning**

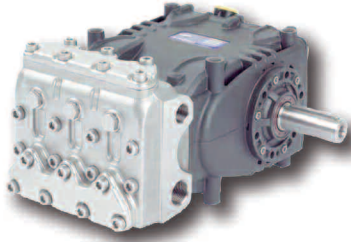
- Barrel reconditioning
- Wine making

## **Mining**

- Exploration Drilling
- Bentonite Pumping
- Core Sampling
- BOP
- Dyno/Dynamic Brake
- Coil Tubing
- Glycol
- Well Stimulation
- Waterblast
- Chemical Injection
- Accumulator Charging



# INDUSTRIAL PUMPS



**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

## 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 hydraulic drive bell housing and flexible couplers available

## 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 55)  
 Shipping Weight:.....88 lbs.  
 Product Group .....V

## KT Series - Features

- Double pressure packings
- Pressure packing design with integrated cooling system
- Horizontally fitted in-line valves
- Splash lubrication
- SAE-B hydraulic drive available

## KT Series - Specifications:

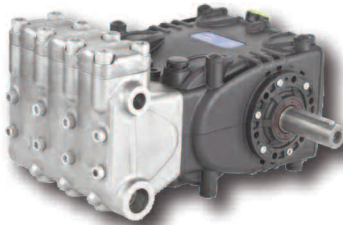
Max. Inlet Pressure .....45 PSI  
 Max Fluid Temperature.....\*140° F  
 Inlet Port Thread.....See specification sheet  
 Discharge Port Thread .....See specification sheet  
 Shaft Diameter .....1.181"/30 mm  
 Stroke:.....1.102"/26 mm  
 Pump Dimensions.....15.55"x13.4"x8.35"  
 Crankcase Oil Capacity.....67.63 oz./2 liters)  
 Use GP Series 220 Oil (see page 55)  
 Shipping Weight:.....100 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 hydraulic drive bell housing and flexible couplers available
- Available with external gear box (direct drive only)

## 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"x14.5"x9.4"  
 Crankcase Oil Capacity .....128.5 oz./3.8 liters)  
 Use GP Series 220 Oil (see page 55)  
 Shipping Weight:.....132 lbs.  
 Product Group .....V



**KT SERIES**

KT SERIES			
MODEL	GPM	PSI	RPM
KT16A	7.1 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	3,630 PSI	1750 RPM
KT24A	16.4 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



**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
HF22A	15.0 GPM	5,075 PSI	1000 RPM
HF25A	19.4 GPM	4,060 PSI	1000 RPM

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

# INDUSTRIAL PUMPS

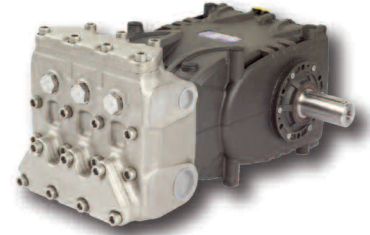
## **KF Series - Features**

- 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 bell housing and flexible couplers available
- Available with external gear box (direct drive only)

## **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 55)
Shipping Weight .....	150 lbs.
Product Group .....	V

## **KF SERIES**



KF SERIES			
MODEL	GPM	PSI	RPM
<b>KF28A</b>	24.5 GPM	3,050 PSI	1000 RPM
<b>KF30A</b>	28.0 GPM	2,900 PSI	1000 RPM
<b>KF32A</b>	31.7 GPM	2,600 PSI	1000 RPM
	32.2 GPM	2,300 PSI	800 RPM
<b>KF36A</b>	36.2 GPM	2,050 PSI	900 RPM
	40.0 GPM	2,000 PSI	1000 RPM
<b>KF40A</b>	45.0 GPM	1,600 PSI	900 RPM

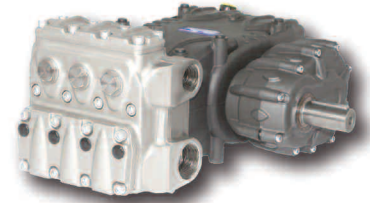
## **KS Series - Features**

- 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 hydraulic drive bell housing and flexible couplers available
- Available with external gear box (direct drive only)

## **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"x19"x11"
Crankcase Oil Capacity.....	162.3 oz./4.8 liters)
	Use GP Series 220 Oil (see page 55)
Shipping Weight .....	212 lbs.
Product Group .....	V

## **KS SERIES**



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

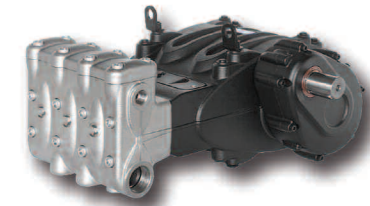
## **MW/MWS Series - Features**

- 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
- 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"x14.5"
Crankcase Oil Capacity.....	304.3 oz./9 liters)
	Use GP Series 220 Oil (see page 55)
Shipping Weight .....	540 lbs.
Product Group .....	V

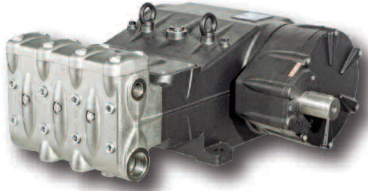
## **MW/MWS SERIES**



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

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

# INDUSTRIAL PUMPS



## MK SERIES

MK SERIES			
MODEL	GPM	PSI	RPM
MK40A	40.5 GPM	5,800 PSI	1500/1800 RPM
MK45A	51.0 GPM	4,350 PSI	1500/1800 RPM
MK50A	63.4 GPM	3,600 PSI	1500/1800 RPM
MK55A	76.7 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)

### 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 55)  
 Shipping Weight: .....833 lbs.  
 Product Group .....V



## MKS SERIES

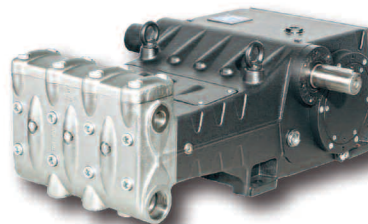
MKS SERIES			
MODEL	GPM	PSI	RPM
MKS40A	48.2 GPM	5,800 PSI	1500/1800/2200 RPM
MKS45A	61.0 GPM	4,350 PSI	1500/1800/2200 RPM
MKS50A	75.3 GPM	3,600 PSI	1500/1800/2200 RPM
MKS55A	91.1 GPM	2,900 PSI	1500/1800/2200 RPM
MKS60A	108.4 GPM	2,500 PSI	1500/1800/2200 RPM
MKS65A	127.0 GPM	2,175 PSI	1500/1800/2200 RPM

### 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-"D" hydraulic drive available (w/1800 RPM version only)

### 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 55)  
 Shipping Weight: .....833 lbs.  
 Product Group .....V



## 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

### LK Series - Features

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

### 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 55)  
 Shipping Weight: .....829 lbs.  
 Product Group .....V

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

# INDUSTRIAL PUMPS

## VF 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 mount available

## VF 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"x15"x9.0"
Crankcase Oil Capacity .....	128.5 oz./3.8 liters)
	Use GP Series 220 Oil (see page 55)
Shipping Weight .....	150 lbs.
Product Group .....	V

## VF SERIES



VF SERIES			
MODEL	GPM	PSI	RPM
VF12	3.3 GPM	21,750 PSI	750 RPM
	4.0 GPM	17,500 PSI	900 RPM
VF14	4.5 GPM	16,000 PSI	750 RPM
	6.0 GPM	11,600 PSI	1000 RPM

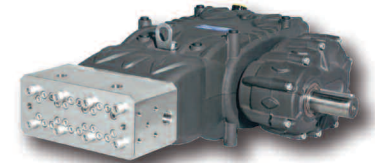
## VK Series - Features

- Low-high pressure packing design with integrated cooling system
- Horizontally fitted in-line valves
- Splash lubrication

## VK 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 55)
Shipping Weight .....	212 lbs.
Product Group .....	V

## VK SERIES



VK SERIES			
MODEL	GPM	PSI	RPM
VK12	5.3 GPM	21,750 PSI	1200 RPM
VK14	7.4 GPM	15,950 PSI	1200 RPM

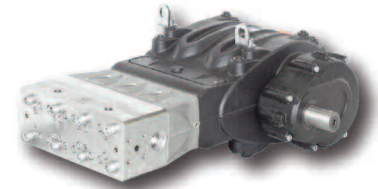
## SM Series - Features

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

## 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 .....	1.575"/40 mm
Stroke: .....	2.756"/70 mm
Pump Dimensions .....	34.6"x23"x14.13"
Crankcase Oil Capacity .....	304 oz./9 liters)
	Use GP Series 220 Oil (see page 55)
Shipping Weight .....	573 lbs.
Product Group .....	V

## SM SERIES



SM SERIES			
MODEL	GPM	PSI	RPM
SM14	6.9 GPM	21,750 PSI	1500/1800/2200/2600 RPM
SM16	9.0 GPM	14,400 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

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

# INDUSTRIAL PUMPS



## SK SERIES

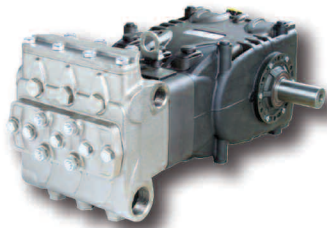
SK SERIES			
MODEL	GPM	PSI	RPM
SK2015	11.4 GPM	21,750 PSI	1500 RPM
SK2017	11.6 GPM	21,750 PSI	1750 RPM
SK2215	13.7 GPM	18,850 PSI	1500 RPM
SK2217	14.0 GPM	18,850 PSI	1750 RPM
SK2415	16.4 GPM	15,950 PSI	1500 RPM
SK2417	16.6 GPM	15,950 PSI	1750 RPM
SK2615	19.3 GPM	13,050 PSI	1500 RPM
SK2617	19.6 GPM	13,050 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

### 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

### 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"x26.4"x13.7"  
 Crankcase Oil Capacity.....473.4 oz./14 liters  
 Use GP Series 220 Oil (see page 55)  
 Shipping Weight: .....840 lbs.  
 Product Group .....V



## MUD PUMPS

KF50MA	SPEED			
	100 RPM	200 RPM	300 RPM	370 RPM
FLOW RATE	7.7 GPM	15.6 GPM	23.4 GPM	28.8 GPM
PRESSURE	1,300 PSI	1,300 PSI	1,300 PSI	1,300 PSI
HP	6.8 HP	13.8 HP	20.6 HP	25.5 HP

### KF50MA Series - Features

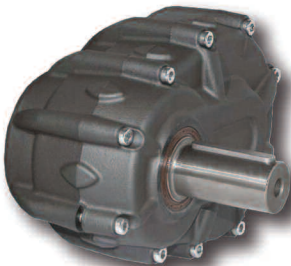
- High pressure "MUD" Pump
- Specifically designed to pump fluids and muds typical of the drilling industry
- Self cleaning ball valves
- Abrasion resistant packings and valves
- High heat dissipation power end
- Splash lubrication
- Quick servicing of packings (patent pending)
- Auxiliary PTO shaft available as an option
- SAE-"C" hydraulic flange and coupler available

### KF50MA 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:.....1.968/50" 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 55)  
 Shipping Weight: .....158 lbs.  
 Product Group .....V

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

## OPTIONAL GEARBOX



### OPTIONAL GEARBOX FOR THE KS, KF, HF and VF 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

**NEW  
SERIES!**

## TR and SR SERIES



### **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 - 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"x41"x28.5"
Crankcase Oil Capacity.....	9.24 gal. (vertical) 13.75 gal. (horizontal)
	Use GP Series 220 Oil (see page 55)
Shipping Weight.....	2,436 lbs.
Product Group.....	V

### **TR and SR Series - Materials:**

- Cast iron crankcase
- Stainless steel manifold
- Steel alloy crankshaft
- Forged steel connecting rods and connecting bushings

TR SERIES			
MODEL	GPM	PSI	RPM
TR26	28.5 GPM	21,755 PSI	520 RPM
TR30	37.8 GPM	17,404 PSI	520 RPM
TR36	55.0 GPM	10,877 PSI	520 RPM
TR50	105.0 GPM	5,801 PSI	520 RPM
TR60	157.4 GPM	4,351 PSI	520 RPM
TR70	206.0 GPM	3,190 PSI	520 RPM
TR75	236.0 GPM	2,755 PSI	520 RPM

SR SERIES			
MODEL	GPM	PSI	RPM
SR26	19.8 GPM	21,755 PSI	520 RPM
SR30	26.0 GPM	17,404 PSI	520 RPM
SR32	29.8 GPM	14,503 PSI	520 RPM
SR36	37.8 GPM	11,603 PSI	520 RPM
SR50	73.0 GPM	5,801 PSI	520 RPM
SR65	123.0 GPM	3,425 PSI	520 RPM
SR75	163.7 GPM	2,755 PSI	520 RPM

**CONTACT YOUR GENERAL PUMP  
SALES REPRESENTATIVE FOR  
FURTHER DETAILS**

# INDUSTRIAL PUMPS

## AGGRESSIVE ENVIRONMENT PUMPS



**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
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>			
WM2515S	2.5 GPM	1,500 PSI	1750 RPM
WM4215S	4.2 GPM	1,500 PSI	1750 RPM

### 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

### 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 55)  
 Shipping Weight: .....13.5 lbs.  
 Product Group .....V



**TX SERIES 63SS**

TX SERIES 63SS			
MODEL	GPM	PSI	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	2,000 PSI	1750 RPM

### TX Series 63SS - Features

- 316 stainless steel fluid end for maximum corrosion resistance
- Energized special pressure packings
- 316 stainless steel inlet and outlet valves
- Solid ceramic plungers
- Ball bearings on both sides
- Patented "high tech" low and high pressure seals

### TX Series 63SS - Specifications:

Max. Inlet Pressure.....115 PSI  
 Max Fluid Temperature (18mm).....\*185° F  
 Max Fluid Temperature (15mm).....\*140° 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 55)  
 Shipping Weight: .....22.3 lbs.  
 Product Group .....V



**T SERIES 47SS**

T SERIES 47SS			
MODEL	GPM	PSI	RPM
TS2012SS	4.75 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 steel manifold for maximum corrosion resistance
- 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 (22mm).....\*185° F  
 Max Fluid Temperature (20mm).....\*140° 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 55)  
 Shipping Weight: .....31.0 lbs.  
 Product Group .....V

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

# INDUSTRIAL PUMPS

## **TSF Series 66SS - Features**

- New improved 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"x6.280"  
 Crankcase Oil Capacity.....40.6 oz./1.2 liters)  
 Use GP Series 100 Oil (see page 55)  
 Shipping Weight.....42 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

## **KEZ 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 enable 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 55)  
 Shipping Weight.....88 lbs.  
 Product Group .....V

## **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

## **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 enable extra load at half the weight, reducing vibrations and off center loads for quieter operation
- Patented "high tech" low and high pressure seals

## **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"x14.5"x9.4"  
 Crankcase Oil Capacity.....128.5 oz./3.8 liters)  
 Use GP Series 220 Oil (see page 55)  
 Shipping Weight.....132 lbs.  
 Product Group .....V

## **HFN SERIES**

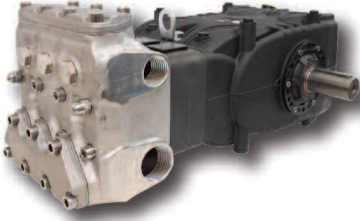


HFN SERIES			
MODEL	GPM	PSI	RPM
HFN25A	19.44 GPM	4,060 PSI	1000 RPM

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



# INDUSTRIAL PUMPS



**KFMZ SERIES**

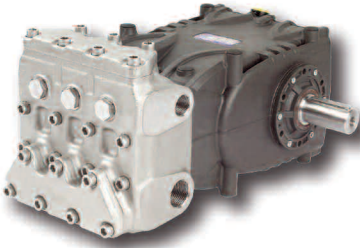
KFMZ SERIES			
MODEL	GPM	PSI	RPM
KFMZ40A	45.0 GPM	2,000 PSI	900 RPM

**KFMZ Series - Features**

- Specifically designed to pump saltwater for saltwater injection applications
- 17-4 stainless steel valves are guided to promote efficient delivery of fluids
- Energized packings/seals
- Extended crosshead features open design and double lip oil seals
- Patent-pending symmetrical power end featuring top and bottom mounting holes allowing for easy left to right shaft conversion
- New high performance aluminum alloy connecting rods and a floating wrist pin enable extra load at half the weight, reducing vibrations and off center loads for quieter operation

**KFMZ Series - Specifications:**

Max. Inlet Pressure .....45 PSI  
 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 .....25.6"x10"x9.9"  
 Crankcase Oil Capacity .....132.0 oz./4 liters)  
 Use GP Series 220 Oil (see page 55)  
 Shipping Weight: .....165 lbs.  
 Product Group .....V



**KFZ SERIES**

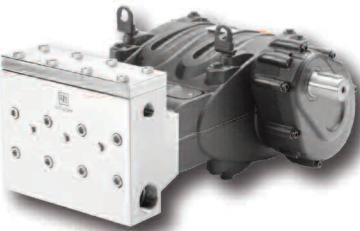
KFZ SERIES			
MODEL	GPM	PSI	RPM
KFZ28A	24.5 GPM	3,000 PSI	1000 RPM
KFZ30A	28.0 GPM	2,900 PSI	1000 RPM
KFZ36A	32.2 GPM	2,300 PSI	800 RPM
KFZ36A	36.2 GPM	2,050 PSI	900 RPM
KFZ36A	40.0 GPM	1,900 PSI	1000 RPM
KFZ40A	45.0 GPM	1,600 PSI	900 RPM

**KFZ 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 enable 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-F  
 Discharge Port Thread .....1" NPT-F  
 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 55)  
 Shipping Weight: .....150 lbs.  
 Product Group .....V



**MWN SERIES**

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

**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/priming valve kit included

**MWN Series - Specifications:**

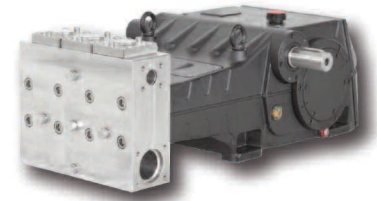
Max. Inlet Pressure .....45 PSI  
 Max. Fluid Temperature .....140° F  
 Inlet Port Thread .....See specification sheet  
 Discharge Port Thread .....See specification sheet  
 Shaft Diameter .....1.969"/50 mm  
 Stroke: .....2.756/70" mm  
 Pump Dimensions .....29.5"x23"x15.5"  
 Crankcase Oil Capacity .....304.35 oz./9 liters)  
 Use GP Series 220 Oil (see page 55)  
 Shipping Weight: .....540 lbs.  
 Product Group .....V

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

# INDUSTRIAL PUMPS

## 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



**LKN SERIES**

## 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 .....29.5"x23"x14.5"  
 Crankcase Oil Capacity.....304.35 oz./9 liters)  
 Use GP Series 220 Oil (see page 55)  
 Shipping Weight .....540 lbs.  
 Product Group .....V

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

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	40.0 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	1500 RPM
LKN6015	102.4 GPM	2,320 PSI	1750 RPM
LKN6017	111.7 GPM	2,320 PSI	1500 RPM

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# INDUSTRIAL ACCESSORIES

## Industrial Unloaders



RA2L



RA2



ZKX600



YVB16



ZK3608SS



YVRP12029

Product Group: K

### INDUSTRIAL UNLOADERS

MODEL	GPM	RATED	INLET	OUTLET	BYPASS	SHP WGHT
<i>Manual bypass lever and automatic operation</i>						
RA2L	61.0 GPM	3,050 PSI	1" BSP-F	3/4" BSP-F	1-1/4" BSP-F	12.0 lbs.
<i>Automatic only</i>						
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	3/4" BSP-F	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	7.92 GPM	3,600 PSI	3/8" BSP-F	3/8" BSP-F	(2) 3/8" BSP-F	2.3 lbs.
ZK7216SS	15.85 GPM	7,200 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 GM	2,900 PSI	(2) 1-1/4" BSP-F	1-1/4" BSP-F	1-1/2" BSP-F	6.5 lbs.

## Industrial Regulating Valves



R1/200



R2



R3HP/450



ZKTIMAX

Product Group: K

### INDUSTRIAL REGULATING VALVES

MODEL	GPM	MAX	INLET	OUTLET	BYPASS	SHP WGHT
YVS7250	21.0 GPM	7,250 PSI	1/2" BSP-F	N/A	3/8" NPT-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	6,500 PSI	1" BSP-F	N/A	1" BSP-F	13.2 lbs.
RV14/800	26.4 GPM	11,600 PSI	Flanged/Block/V5	1/2" G-F Special	1" BSP-M	22.0 lbs.
RV14/1500	26.4 GPM	21,750 PSI	Flanged/Block/V5	1/2" G-F Special	3/4" BSP-M	22.0 lbs.
RV14/1200VH	7.9 GPM	17,400 PSI	Flanged/Block/VF	1/2" G-F Special	3/4" BSP-M	22.0 lbs.
RV14/1500A	7.9 GPM	21,750 PSI	Flanged/Block/VF	1/2" G-F Special	3/4" BSP-M	22.0 lbs.
<i>Features manual bypass lever and automatic operation</i>						
R2L	61.0	3,050 PSI	1" BSP-F	3/4" BSP-F	1-1/4" BSP-F	11.0 lbs.
<i>1.125" I.D. Hose Barb</i>						
ZKTMAX	53.0 GPM	870 PSI	3/4" BSP-F	1/2" BSP-F	1" BSP-F	4.5 lbs.

## Industrial Regulating Valves

Stainless Steel



ZKSX1



R1X



RX3



YVS280SS

Product Group: K

### STAINLESS STEEL INDUSTRIAL REGULATING VALVES

MODEL	GPM	MAX	INLET	OUTLET	BYPASS	SHP WGHT
YVX235S	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.
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.
R1X600A	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	11.0 lbs.
YVS280SS	21.0 GPM	4,500 PSI	1/2" BSP-F	1/2" BSP-F	1/2" BSP-F	2.7 lbs.

# INDUSTRIAL ACCESSORIES



SV2



S723



SX3

## Industrial Safety Relief Valves

Product Group: K

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.	
SV3/200	132.0 GPM	2,900 PSI	3/4" BSP-M	Bottom	2.5 lbs.	
SV3/100	132.0 GPM	1,450 PSI	3/4" BSP-M	Bottom	2.5 lbs.	
SV3/300	132.0 GPM	4,350 PSI	3/4" BSP-M	Bottom	2.5 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	4,350 PSI		Bottom	2.5 lbs.	



S1503



S1510

## Industrial Safety Valves

Product Group: K

INDUSTRIAL RELIEF VALVES						
MODEL	GPM	MIN	MAX	INLET	OUTLET	SHP WGHT
S1503	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.

# INDUSTRIAL ACCESSORIES

## Industrial Pneumatic Valves



YRVPP26SS



FPN12

Product Group: K

### INDUSTRIAL PNEUMATIC VALVES

MODEL	GPM	MAX	INLET	OUTLET	BYPASS	SHP WGHT
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.
PN3/160	132.0 GPM	2,350 PSI	1-1/2" BSP-F	1-1/2" BSP-F	1-1/2" BSP-F	55.3 lbs.
PN3/240	111.0 GPM	3,500 PSI	1-1/2" BSP-F	1-1/2" BSP-M	1-1/2" BSP-M	55.0 lbs.
PN3/300	79.0 GPM	4,350 PSI	1-1/2" BSP-F	1-1/2" BSP-M	1-1/2" BSP-M	55.0 lbs.
PNRV14/800	26.4 GPM	11,600 PSI	Flanged/Block	3/4" BSP-F	1" BSP-F	17.6 lbs.
PNRV14/VH	26.4 GPM	17,400 PSI	Flanged/Block	1/2" BSP-F	1" BSP-F	17.6 lbs.
PNRV15/1500	26.4 GPM	21,750 PSI	Flanged/Block	3/4" BSP-F	1" BSP-F	17.6 lbs.
<b>Features Check Valve</b>						
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	17,400 PSI	3/8" BSP-F	3/8" BSP-F	3/8" BSP-F	55.3 lbs.
FPN14	21.0 GPM	21,750 PSI	3/8" BSP-F	3/8" BSP-F	3/3" BSP-F	55.3 lbs.

## Jetter Valves

For Use in Sewer Cleaning Applications



100315

Product Group: D

### JETTER VALVES

MODEL	DESCRIPTION	SHP WGHT
100315	Use with TT Pumps (Replaces Valve Cap)	0.7 lbs.
100316	Use with EZ Pumps (Replaces Valve Cap)	0.7 lbs.
100317	Use with 47 Series Pumps (Replaces Valve Cap, Coarse Thread)	0.7 lbs.
100071	Use with 47 Series Pumps (Replaces Valve Cap, Fine Thread)	0.7 lbs.

## Industrial Check Valve



UD1

Product Group: K

### INDUSTRIAL CHECK VALVE

MODEL	GPM	RATED	MAX	INLET	OUTLET	SHP WGHT
UD1	48.0 GPM	75 PSI	3,650 PSI	3/4" BSP-M	3/4" BSP-F	1.5 lbs.

## Industrial Foot Valve



VP12

Product Group: K

### INDUSTRIAL FOOT VALVE

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.

## Industrial Pulsation Dampeners



A4X

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 lbs.
A7*	Forged Steel	43.0 GPM	3,050 PSI	1/2" BSP-M	7.0 lbs.
A7S*	Forge Steel	43.0 GPM	4,750 PSI	3/4" BSP-M	12.0 lbs.
A7X*	316 Stainless Steel	43.0 GPM	2,150 PSI	3/4" BSP-M	8.5 lbs.
A15*	Forged Steel	105.6 GPM	4,750 PSI	3/4" BSP-M	15.0 lbs.
A15X*	316 Stainless Steel	105.6 GPM	2,150 PSI	3/4" BSP-M	15.0 lbs.

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

# INDUSTRIAL ACCESSORIES



## Industrial Spray Guns

Product Group: K

INDUSTRIAL SPRAY GUNS						
MODEL	DESCRIPTION	GPM	MAX	SHP WGHT		
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						
MODEL	DESCRIPTION	GPM	MAX	INLET	OUTLET	SHP WGHT
YG7207	Rear Entry Gun	7.5 GPM	8,000 PSI	3/8" NPT-F	1/2" NPT-F	1.6 lbs.
P12	Dump Gun	21.0 GPM	21,750 PSI	1/2" BSP-M	1/4" BSP-M	12.0 lbs.
P45	Gun with 20" Lance	21.0 GPM	7,250 PSI	1/2" BSP-F	1/4" BSP-F	5.0 lbs.
P47	Gun with 39" Lance	21.0 GPM	7,250 PSI	1/2" BSP-F	1/4" BSP-F	10.0 lbs.
PS12	Submersible Dump Gun	21.0 GPM	21,750 PSI	1/2" BSP-F	1/4" BSP-F	12.5 lbs.
YG7221	Rear Entry Gun	21.0 GPM	8,200 PSI	1/2" BSP-F	1/4" BSP-F	5.0 lbs.



## Industrial Spray Guns With Lance and Side Grips

Product Group: K

YG7221-L51

INDUSTRIAL SPRAY GUNS WITH LANCE AND SIDE GRIPS								
MODEL	DESCRIPTION	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHP WGHT
YG7221-L31	31" Lance	21.0 GPM	7,250 PSI	8,100 PSI	1/2" BSP-F	1/2" BS-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" BS-M	210° F	7.0 lbs.



Y5K100



YRT8720



ZRMAX112

## Industrial Rotating Nozzles

Product Group: K

INDUSTRIAL ROTATING NOZZLES							
MODEL	NOZZLE	MAX	INLET	MAX TEMP	SHP WGHT		
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 ROTATING NOZZLES						
MODEL	NOZZLE	MIN	MAX	INLET	MAX TEMP	SHP WGHT
YRT8720	#02	2,600 PSI	8,700 PSI	1/4" BSP-F	195° F	1.2 lbs.
YRT8730	#03	2,600 PSI	8,700 PSI	1/4" BSP-F	195° F	1.2 lbs.
YRT8740	#04	2,600 PSI	8,700 PSI	1/4" BSP-F	195° F	1.2 lbs.
YRT8750	#05	2,600 PSI	8,700 PSI	1/4" BSP-F	195° F	1.2 lbs.
YRT8760	#06	2,600 PSI	8,700 PSI	1/4" BSP-F	195° F	1.2 lbs.
YRT8770	#07	2,600 PSI	8,700 PSI	1/4" BSP-F	195° F	1.2 lbs.
YRT8780	#08	2,600 PSI	8,700 PSI	1/4" BSP-F	195° F	1.2 lbs.

INDUSTRIAL ROTATING NOZZLES						
MODEL	ORIFICE	GPM	MAX	INLET	MAX TEMP	SHP WGHT
ZRMAX112	1.10	2.02 to 4.73 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 Nozzle Seat



ZRMAX2220

Product Group: K

#### INDUSTRIAL ROTATING NOZZLES - TITANIUM NOZZLE SEAT

MODEL	ORIFICE	GPM	MAX	INLET	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	MESH/MICRON	INLET	OUTLET	SHP WGHT
F50/80	Stainless Steel, Two-stage	10.5 GPM	10/70	1" BSP-F	1" BSP-F	12.0 lbs.
F10	Aluminum	15.8 GPM	60/80	1-1/2" BSP-F	1-1/2" BSP-F	3.5 lbs.
F60	Stainless Steel	52.0 GPM	15 to 100	2" BSP-F	2" BSP-M	33.0 lbs.
F20	Aluminum	53.0 GPM	60/80/110	2" BSP-F	2" BSP-F	13.0 lbs.
F30	Plastic	53.0 GPM	50/100	2" BSP-M	2" BSP-M	3.8 lbs.
F40	Plastic	120.0 GPM	50/100	3" BSP-M	3" BSP-M	6.6 lbs.
639273	Plastic	55.0 GPM	50/297	2" NPT-F	2" NPT-F	4.0 lbs.
639276	Plastic	125.0 GPM	50/297	3" NPT-F	3" NPT-F	7.0 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 Series Pumps (includes 3 valves)
680096	Priming/Drain Valve Kit for LH/MK/MKS Series Pumps (includes 3 valves)
190600	Priming/Drain Valve Kit for MS Series Pumps (includes 3 valves)
190601	Priming/Drain Valve Kit for MS Series Pumps (single valve)

# INDUSTRIAL ACCESSORIES

## Tank Cleaning Nozzles



Y25450000



Y25460000



Y25459000



Y254300600



Y25438060



Y25482000

**Product Group: K**

**TANK CLEANING NOZZLES**

MODEL	DESCRIPTION	GPM	MAX	SHP WGHT
Y25450000	M63 Electric for Small Openings, 24 V	4.0 to 10.5 GPM	2,000 PSI	14.0 lbs.
Y25477000	M85 Electric for Large Openings, 24 V	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 to 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	A-80R 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 - 110 V	5.5 GPM	3,200 PSI	7.0 lbs.
Y25435060	M25E Electric for Barrel Cleaning - With suction capability - 110 V	6.5 GPM	2,300 PSI	9.0 lbs.
Y25438060	M28E Electric for Barrel Cleaning - With 90° motor for small area - With suction capability	6.5 GPM	2,300 PSI	9.0 lbs.



# ACCESSORIES



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

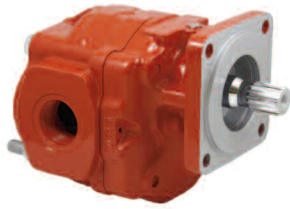
FLOW SWITCHES

SWIVELS

ACCUMULATORS

GAUGES

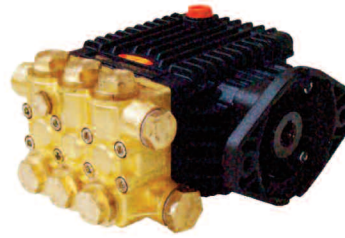
## HYDRAULIC VERSIONS OF 51(TT), 60(TC) and 63(TX) SERIES PUMPS SAE Type "A" Flange, 5/8" Straight Shaft



**639723\***  
Motor



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



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



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

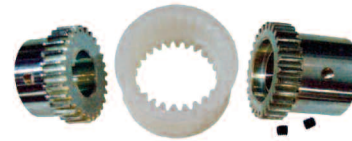
## HYDRAULIC FLANGE/COUPLER FOR 47, 66(TSF/TSP) SERIES PUMPS



**639664\***  
Muncie Motor



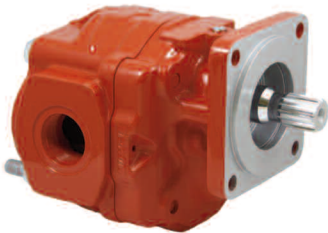
**ZFH47SB**  
SAE Type "B", 2 Bolt



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

\*Call GP  
for  
hydraulic  
motor  
requirements

## HYDRAULIC FLANGE/COUPLER FOR 70 (KE and KT) SERIES PUMPS



**639611\***  
Muncie Motor



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

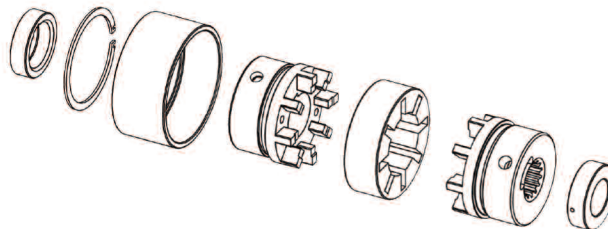


**ZGH70SB**  
SAE Type "B", 1" Straight Shaft

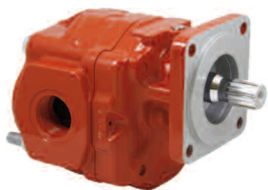
## HYDRAULIC FLANGE/COUPLER FOR 71 & 72 (KF, HF, VF, VK and KS) SERIES PUMPS



**ZFH71SC**  
SAE Type "C", 2 and 4 Bolt



For separate  
coupler pieces  
call GP



**639660\***  
Muncie

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

## 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 (Series 49 and 50 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	9.5 lbs.
ZGRS1125	2.2 to 1, 1-1/8" Shafted Engines, up to 25 HP, J609A Flange	9.5 lbs.
ZGRS1000H	2.2 to 1" Shaft, Honda® Approved for GX240-GX390	9.5 lbs.
YGR0750	2.3 to 1 Reduction, 3/4" Shafted Engines, 3 to 5 HP, J609A (Series 49 and 50 at 1450 RPM)	4.0 lbs.
YGR1000	2.2 to 1 Reduction, Dual Bearings, 1" Shafted Engines, 11 to 18 HP, J609B (Series 47 at 1450 RPM)	6.0 lbs.
YGR1000P	2.2 to 1 Reduction, Dual Bearings, 1" Shafted Engines, 11 to 24 HP J609B (Series 47 and 66 at 1450 RPM)	6.0 lbs.
YGR1125	2.2 to 1 Reduction, 1-1/8" Shaft, Dual Bearings, 11 to 18 HP, J609B (Series 47 and 48 at 1450 RPM)	6.0 lbs.
YGR1125P	2.2 to 1 Reduction, Dual Bearings, 1-1/8" Shafted Engines, 11 to 24 HP, J609B (Series 47, 48 and 66 at 1450 RPM)	6.0 lbs.
YGR1125P31	2.2 to 1 Reduction, Dual Bearings, 1-1/8" Shafted Engines, 20 to 31 HP, J609B (Series 47, 48 and 66 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	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
ZF184N	For NEMA-C Electric Motors 184TC Frame, Use with ZG184TC Coupler (Series 63 and 44)	3.5 lbs.
ZF184	For NEMA-C Electric Motors 184 TC Frame, 3 and 5 HP (Series 50 Pumps)	3.0 lbs.
ZF213215	For NEMA-C Electric Motors, 213 TC, 215TC and 184TC Frames, 5 and 7-1/2 HP (Series 47 and 48 Pumps)	4.0 lbs.
ZF56145	For NEMA-C Electric Motors, 56C, 145TC and 182TC Frames, 1-1/2 and 2 HP (Series 49 and 50 Pumps)	1.5 lbs.
ZF811	Gas Engine Flange for 8 to 11 HP Gas Engines (TT9351 or TT9441 Pumps)	3.0 lbs.
ZFWWS	Gas Engine Flange for 3.5 to 8 HP Gas Engines (TT/TP Series 51 Pumps)	2.0 lbs.
ZFWWU	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, HF, VF, KS Series), Call GP Sales For More Information	6.0 lbs.

# Drive Components



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 CW1541 to HTCK4050S conversion)	

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



100687



100976

## Clutches

**Product Group: C**

CLUTCHES		
Model	DESCRIPTION	SHP WGHT
100687	12 Volt Double "A" Groove Clutch Adapter Kit for 47 Series Pumps	11.0 lbs.
100688	12 Volt Double "A" Groove Clutch Adapter Kit for 44, 50, 63 and WM Series Pumps	11.0 lbs.
100717	12 Volt Single "A" Groove Clutch Adapter Kit for 47 Series Pumps	
100718	12 Volt Single "A" Groove Clutch Adapter Kit for 44, 50, 63 and WM Series Pumps	11.0 lbs.
100792	24 Volt Single "A" Groove Clutch Adapter Kit for 44, 50, 63 and WM Series Pumps	11.0 lbs.
100719	24 Volt Double "A" Groove Clutch Adapter Kit for 47 Series Pumps	11.0 lbs.
100720	24 Volt Double "A" Groove Clutch Adapter Kit for 44, 50, 63 and WM Series Pumps	11.0 lbs.
100172	12 Volt Double "A" Groove Clutch Adapter Kit for 47 and 66 Series Pumps, No Pulley	25.0 lbs.
100976	12 Volt Double "A" Groove Clutch Adapter Kit for 47 and 66 Series Pumps, 12.4" Pulley	31.0 lbs.
100977	12 Volt Single "A" Groove Clutch Adapter Kit for 47 and 66 Series Pumps, 12.4" Pulley	24.0 lbs.
100163	Clutch Assembly Tool for 7" Clutch	11.0 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 <b>(Product Group: B)</b>	25.0 lbs.
100553	BULK PACKAGED: Series 100 Oil, (2) 2-1/2 Gallons <b>(Product Group: B)</b>	50.0 lbs.
100219	BULK PACKAGED: Series 100 Oil, 15 Gallon Plastic Drum <b>(Product Group: B)</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 <b>(Product Group: B)</b>	7.0 lbs.
100217	BULK PACKAGED: Series 220 Industrial Oil, 5 Gallons <b>(Product Group: B)</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, 2.5 Gallon Twin Pack <b>(Product Group: B)</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, 66 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, VS 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	SHW WT	
<b>Lower Pressure Unloader, White Spring</b>									
PULSAR4LP	10.5 GPM	2,300 PSI	2,600 PSI	(2)3/8" NPT	3/8" NPT	(2)3/8" NPT	195° F	1.5 lbs	
PULSAR4KLP	10.5 GPM	2,300 PSI	2,600 PSI	(2)3/8" NPT	3/8" NPT	(2)3/8" NPT	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	3/8" NPT	(2)3/8" NPT	195° F	1.6 lbs.	
PULSAR4KHP	10.5 GPM	4,050 PSI	4,500 PSI	(2)3/8" NPT	3/8" NPT	(2)3/8" NPT	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	3/8" NPT	(2)3/8" NPT	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	3/8" NPT	(2)3/8" NPT	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	(2)3/8" NPT	3/8" NPT	(2)3/8" NPT	195° F	1.9 lbs.	
PULSAR4KHPMS	10.5 GPM	4,050 PSI	4,500 PSI	(2)3/8" NPT	3/8" NPT	(2)3/8" NPT	195° F	2.0 lbs.	
<b>Product Group: N</b>									
Y60014924	Pressure adjusting knob kit for PULSAR4 unloaders								0.1 lbs.



PLSR4LVNCV



YU2158NCV



YU2140SNCV

**Product Group: S**

TRAPPED PRESSURE UNLOADERS - NO CHECK VALVES								
Model	GPM	MAX	INLET	OUTLET	BYPASS	MAX TEMP	SHW WT	
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	(2)1/2" NPT-F	200° F	4.0 lbs.	
YUB2140SNCV	21.0 GPM	4,050 PSI	4,500 PSI	(2)1/2" NPT-F	1/2" NPT-F	200° F	3.1 lbs.	



YU21235



YU21405



YU5221



YU2158

**Product Group: S**

TRAPPED PRESSURE UNLOADERS								
Model	GPM	RATED	MAX	INLET	OUTLET	BYPASS	MAX TEMP	SHW WT
<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>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	(2)1/2" NPT-F	200° F	4.0 lbs.

**Product Group: K**

# 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	SHP WGT
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-F	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>								
YVB9KMSS	8.0 GPM	3,200 PSI	3,650 PSI	3/8" BSP-F	1/2" BSP-M	3/9" BSP-F	195° F	2.0 lbs.
<b>High Pressure Unloaders with Knob (YU4050K-Black, YU5075K-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.
YVB5121B	21.0 GPM	4,050 PSI	4,500 PSI	1/2" NPT-F	1/2" NPT-F	1/2" NPT-F	195° F	2.5 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-F	3/8" BSP-M	3/8" BSP-M	195° F	1.0 lbs.
YVB3KA	6.5 GPM	3,200 PSI	3,650 PSI	3/8" NPT-F	3/8" NPT-M	3/8" NPT-M	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-M	195° F	1.0 lbs.
<b>Unloader with Knob and 1.8, 2.1 or 2.3 mm Injector</b>								
YVB3KTTI18	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.
YVB3KTTI21	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.
YVB3KTTI23	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.

NEW!



ZKHM



ZK4010



ZK5813

Product Group: S

## TRAPPED PRESSURE UNLOADERS

Model	GPM	MAX	INLET	OUTLET	BYPASS	MAX TEMP	SHP WGT
2100242	8.0 GPM	4,000 PSI	(2) 3/8" NPT	3/8" NPT	(2) 3/8" NPT	195° F	2.0 lbs.
ZKHM	10.8 GPM	3,000 PSI	3/8" BSP-F	1/4" BSP-F & 3/8" BSP-M	(2) 3/8" BSP-F	195° F	2.5 lbs.
ZKHM1	10.8 GPM	3,000 PSI	3/8" BSP-F	1/4" BSP-F & 3/8" BSP-M	(2) 3/8" BSP-F	195° F	2.5 lbs.
ZK4010	2.11 to 10.5 GPM	4,000 PSI	3/8" BSP-F	3/8" BSP-M	(2)3/8" BSP-M	195° 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	195° F	6.2 lbs.



YU3678



YU3678MS

Product Group: S

## MODIFIED PRESSURE UNLOADERS

Model	GPM	RATED	MAX	INLET	OUTLET	HOSE BARB	MAX TEMP	SHP WGT
<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	1/2" NPT-M	3/8" NPT-F	195° F	2.5 lbs.

# CONTROL SET UNLOADERS



ZKW1



ZKW326



ZKW21



YVB351KDM



YVB75KDMN



YVB55KDM



YU4050KDM

**Product Group: S**

**DIRECT MOUNT, CONTROL SET UNLOADERS**

Model	GPM	RATED	MAX	INLET	OUTLET	HOSE BARB	MAX TEMP	SHW WT	SHW WT
<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.	
190443	ZKW2SC with Banjo Fittings								

**Product Group: S**

**DIRECT MOUNT, CONTROL SET UNLOADERS FOR TT/TP SERIES 51 PUMPS**

Model	GPM	RATED	MAX	INLET	OUTLET	INJECTOR	MAX TEMP	SHW WT	SHW WT	BOX QTY
YVB135KDM	6.5 GPM	2,300 PSI	2,600 PSI	3/8" BSP-F	3/8" BSP-M	N/A	195°	1.5 lbs.		20
YVB135KDMI18	6.5 GPM	2,300 PSI	2,600 PSI	3/8" BSP-F	3/8" BSP-M	1.8 mm	195°	1.8 lbs.		15
YVB135KDMI21	6.5 GPM	2,300 PSI	2,600 PSI	3/8" BSP-F	3/8" BSP-M	2.1 mm	195°	1.8 lbs.		25
YVB351KDM	6.5 GPM	3,200 PSI	3,650 PSI	3/8" BSP-F	1/4" BSP-F	N/A	195°	1.8 lbs.		24
YVB351KDMI18	6.5 GPM	3,200 PSI	3,650 PSI	3/8" BSP-F	1/4" BSP-F	1.8 mm	195°	1.9 lbs.		20
YVB351KDMI21	6.5 GPM	3,200 PSI	3,650 PSI	3/8" BSP-F	1/4" BSP-F	2.1 mm	195°	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°	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°	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	SHW WT	SHW WT	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°	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°	1.8 lbs.		15
YVB35KDMI21	6.5 GPM	3,200 PSI	3,650 PSI	1/2" BSP-F	3/8" BSP-M	1/4"	2.1 mm	195°	1.8 lbs.		15
YVB56KDM	8.0 GPM	3,200 PSI	3,650 PSI	1/2" BSP-F	3/8" BSP-F	N/A	N/A	195°	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°	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°	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°	2.1 lbs.		20
<b>EZ Series Only</b>											
YU4050KDM	10.0 GPM	4050 PSI	4,500 PSI	3/8" BSP-F	3/8" BSP-M	N/A	N/A	195°	3.0 lbs.		10

**Product Group: S**

**DIRECT MOUNT, CONTROL SET UNLOADERS FOR EP (58) SERIES PUMPS**

Model	GPM	RATED	MAX	INLET	OUTLET	HOSE BARB	INJECTOR	MAX TEMP	SHW WT	SHW WT	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°	1.5 lbs.		24

**NEW!**



# FLOW SENSITIVE UNLOADERS



ZK1



ZK3



ZK50



ZK7



ZK9

**Product Group: S**

**FLOW SENSITIVE UNLOADERS**

MODEL	GPM	MAX	INLET	OUTLET	BYPASS	MAX TEMP	SHW WHGT	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/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/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/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/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/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/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/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/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 6.0 GPM	3,500 PSI	3/8" BSP-F	3/8" BSP-M	3/8" BSP-F	165° F	5.0 lbs.	5
ZK71 (GPV)	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	3/8" BSP-F	3/8" 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



PZSRZ523MS



PULSARZ



PULSARZMS



PLSRZ2140



PLSRZ2140MS

**Product Group: I**

**FLOW SENSITIVE UNLOADERS**

MODEL	GPM	MAX	INLET	OUTLET	BYPASS	MAX TEMP	SHW WHGT	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>With 6 Amp Microswitch:</b>								
PLSR523MS*	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*	2.4-10.5 GPM	3,650 PSI	3/8" NPT-F	(2) 3/8" NPT-F	N/A	195° F	2.5 lbs.	12
190465	PULSARZ as above, with 3.5 and 4.5 orifice							
<b>With 6 Amp Microswitch:</b>								
PULSARZMS*	2.4-10.5 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	N/A	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

# BALANCED RELIEF & REGULATING VALVES



YBRV624D



YBRV5325

## Balanced Relief Valves

Product Group: T

BALANCED RELIEF VALVES								
MODEL	GPM	RATED	MAX	INLET	BYPASS	MAX TEMP	SHW WHGT	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 GPM	2,600 PSI	2,900 PSI	3/4" BSP-F	1/2" BSP-F	195° F	2.0 lbs.	4



YVRP15W



YVS5100B



YVB4021B



ZKSX1

## Regulating Valves

Product Group: T

REGULATING VALVES - GREAT FOR MULTIPLE GUN APPLICATIONS								
MODEL	GPM	RATED	INLET	OUTLET	BYPASS	MAX TEMP	SHW WHGT	BOX QTY
YVRP15W	8.9 GPM	1,450 PSI	(2) 3/8" NPT-F	3/8" NPT-F	N/A	195° F	1.3 lbs.	25
YVRP32B	8.9 GPM	3,200 PSI	(2) 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-M	1/2" BSP-M	N/A	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
YVB4021B	21.0 GPM	4,050 PSI	1/2" NPT	1/2" NPT	1/2" NPT	195° F	2.5 lbs.	1



100892



100998



100999



YR5221

## Regulators

Product Group: S

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

# SAFETY RELIEF VALVES



100722



100534



YRV2063



ZKS3



ZKSR

**Product Group: T**

**SAFETY RELIEF VALVES**

Model	GPM	MIN	MAX	INLET	OUTLET	MAX TEMP	SHW WT
ZKSR	1.3 to 10.8 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, with 50 piece minimum, add "P" to end of part number):</b>							
100724	6.0 GPM	2,000 PSI	6,000 PSI	1/4" NPT	Side w/ 1/4" Barb	195° F	1.0 lbs.
100723	6.0 GPM	2,000 PSI	6,000 PSI	3/8" NPT	Side w/ 1/4" Barb	195° F	1.0 lbs.
100722	6.0 GPM	2,000 PSI	6,000 PSI	1/2" NPT	Side w/ 1/4" Barb	195° F	1.0 lbs.
100611	6.0 GPM	800 PSI	3,000 PSI	1/4" NPT	Side w/ 1/4" Barb	195° F	1.0 lbs.
100799	6.0 GPM	800 PSI	3,000 PSI	3/8" NPT	Side w/ 1/4" Barb	195° F	1.0 lbs.
100980	6.0 GPM	800 PSI	3,000 PSI	1/2" NPT	Side w/ 1/4" Barb	195° F	1.0 lbs.
<b>Side Discharge without Hose Barb (available preset, with 50 piece minimum, add "P" to end of part number):</b>							
100726	6.0 GPM	2,000 PSI	6,000 PSI	3/8" NPT	Side	195° F	1.0 lbs.
100727	6.0 GPM	2,000 PSI	6,000 PSI	1/2" NPT	Side	195° F	1.0 lbs.
100610	6.0 GPM	800 PSI	3,000 PSI	1/4" NPT	Side	195° F	1.0 lbs.
100798	6.0 GPM	800 PSI	3,000 PSI	3/8" NPT	Side	195° F	1.0 lbs.
100963	6.0 GPM	800 PSI	3,000 PSI	3/8" NPT	Side	195° F	1.0 lbs.
<b>End Discharge (available preset, with 50 piece minimum, add "P" to end of part number):</b>							
100728	6.0 GPM	2,000 PSI	6,000 PSI	1/4" NPT	End	195° F	1.0 lbs.
100534	6.0 GPM	2,000 PSI	6,000 PSI	3/8" NPT	End	195° F	1.0 lbs.
100729	6.0 GPM	2,000 PSI	6,000 PSI	1/2" NPT	End	195° F	1.0 lbs.
100547	6.0 GPM	2,000 PSI	6,000 PSI	3/8" NPT	End 1/8" F	195° F	1.0 lbs.
100609	6.0 GPM	800 PSI	3,000 PSI	1/4" NPT	End	195° F	1.0 lbs.
100797	6.0 GPM	800 PSI	3,000 PSI	3/8" NPT	End	195° F	1.0 lbs.
100962	6.0 GPM	800 PSI	3,000 PSI	1/2" NPT	End	195° F	1.0 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 21.4 GPM	N/A	10,000 PSI	1/2" NPT-M	Side	284° F	2.0 lbs.



100972

**Product Group: T**

**HOT WATER SAFETY RELIEF VALVES - 303 STAINLESS**

Model	GPM	MAX	INLET	OUTLET	MAX TEMP	SHW WT
100981*	2.0 to 4.0 GPM	4,500 PSI	3/8" NPT-M	Side w/1/4" Barb	284° F	0.5 lbs.
100971*	3.0 to 7.0 GPM	4,500 PSI	3/8" NPT-M	Side w/1/4" Barb	284° F	0.5 lbs.
100982*	7.0 to 12.0 GPM	4,500 PSI	3/8" NPT-M	Side w/1/4" Barb	284° F	0.5 lbs.
100983*	2.0 to 4.0 GPM	4,500 PSI	1/2" NPT-M	Side w/1/4" Barb	284° F	0.5 lbs.
100972*	3.0 to 7.0 GPM	4,500 PSI	1/2" NPT-M	Side w/1/4" Barb	284° F	0.5 lbs.
100984*	7.0 to 12.0 GPM	4,500 PSI	1/2" NPT-M	Side w/1/4" Barb	284° F	0.5 lbs.

**\*Stainless Steel Seat and Ball**

**All sizes are available preset with 50 piece minimum. Add "P" to end of part number. For example 100971P.**

# MISCELLANEOUS VALVES



## Expansion Valves

Product Group: T

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 WHGT
100973	2.0 to 6.0 GPM	4,500 PSI	3/8" NPT-M	Side, 1/8" Hole	284° F	1.4 lbs.
100979	2.0 to 6.0 GPM	4,500 PSI	1/2" NPT-M	Side, 1/8" Hole	284° F	1.6 lbs.

*All sizes are available preset with 50 piece minimum. Add "P" to end of part number. Example: 100973P.*



## Pump Thermal Protectors

Product Group: Q

100512

100558

100156

PUMP THERMAL PROTECTORS - DISC

MODEL	DESCRIPTION	INLET	HOSE BARB	RELIEF TEMP	SHP WHGT
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	No Hose Barb	3/8" NPT	N/A	190° F	1.5 oz.
100678	No 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.

PUMP THERMAL PROTECTORS - PILL STYLE

MODEL	DESCRIPTION	INLET	HOSE BARB	RELIEF TEMP	SHP WHGT
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.



## Easy Start Valves

Product Group: T

100324

100543

100970

PUMP THERMAL PROTECTORS

MODEL	GPM	MAX	INLET	OUTLET	MAX TEMP	SHP WHGT
YESTVALVE	7.8 GPM	3,650 PSI	3/8" NPT-M	1/4" Hose Barb	176° F	0.25 lbs.
<b>Provides Easy Start for Manual Start Gas Engines:</b>						
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.
<b>Stainless Steel Seat and Ball:</b>						
100970	8.0 GPM	5,000 PSI	3/8" NPT-M	1/4" Hose Barb	195° F	0.25 lbs.



## Steam Valves

Product Group: T

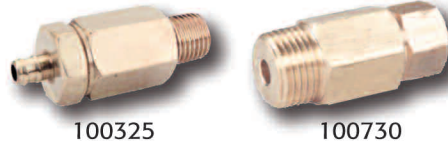
Y29092015

STEAM VALVES

MODEL	GPM	RATED	MAX	PANEL FITTING	INLET	OUTLET	MAX TEMP	SHP WHGT
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.

# MISCELLANEOUS VALVES

## Bleeder Valves



100325

100730

Product Group: T

### BLEEDER VALVES

MODEL	GPM	MAX	INLET	OUTLET	MAX TEMP	SHP WHGT
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-M	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.
<b>Provides Easy Start Function for Electric Start Gas Engines:</b>						
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	SHP WHGT
YCV14FB	Brass	6.5 GPM	2,200 PSI	2,300 PSI	1/4" BSP-F	195° F	0.5 lbs.
YCV14FSS	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	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	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	Stainless Steel	46.6 GPM	5,800 PSI	6,500 PSI	3/4" BSP-F	195° F	0.5 lbs.

## Needle Valves



100814

100838

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	SHP WHGT
100814	6.0 GPM	4,000 PSI	1/4" NPT-F	1/4" NPT-F	N/A	190° F	0.3 lbs.
<b>Metering Needle Valves - Adjustable SS Stem Allows Regulating the Opening in the Bore for Fine Control of Flow:</b>							
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

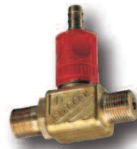
Product Group: D

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

MODEL	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHP WHGT
YPCV823	8.0 GPM	2,300 PSI	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.

**NEW!**

# INJECTORS



ZROBO



ZROBO1B



YAINJ18E

## Adjustable Chemical Injectors Brass

Product Group: L

ADJUSTABLE CHEMICAL INJECTORS - BRASS									
MODEL	ORIFICE	GPM	RATED	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WHGT	BOX QTY
<b>Inlet: 3/8" BSP-M Outlet: 3/8" BSP-M</b>									
ZROBO0	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
ZROBO1	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
ZROBO2	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
ZROBO3	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>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>									
	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
	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
	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 - STANDARD									
MODEL	ORIFICE	GPM	RATED	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WHGT	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 Stainless Steel

Product Group: L

ADJUSTABLE CHEMICAL INJECTORS - STAINLESS STEEL									
MODEL	ORIFICE	GPM	RATED	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WHGT	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	3/8" NPT-M	190° F	1/4"	0.5 lbs.	25



100810

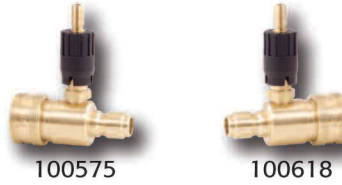
## Adjustable Chemical Injectors High Draw

Product Group: L

ADJUSTABLE CHEMICAL INJECTORS - HIGH DRAW - CHEMICAL DRAW UP TO 20%									
MODEL	ORIFICE	GPM	RATED	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WHGT	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

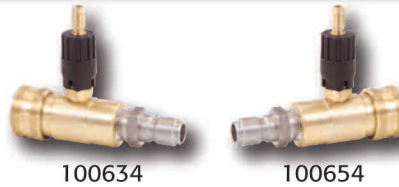


Product Group: L

### QUICK CONNECT ADJUSTABLE CHEMICAL INJECTORS - BRASS

MODEL	ORIFICE	GPM	RATED	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WHGT	BOX QTY
100575	1.8 mm	2.0 to 3.0 GPM	3,500 PSI	3/8" Male 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" Male 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" Male 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" Male 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" Male 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" Male 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	SHP WHGT	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	SHP WHGT	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 Injector Standard



Product Group: L

### FIXED CHEMICAL INJECTORS - STANDARD

MODEL	ORIFICE	GPM	RATED	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WHGT	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

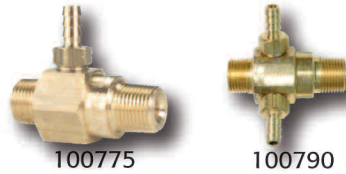
# INJECTORS



## Fixed Chemical Injectors Stainless Steel

Product Group: L

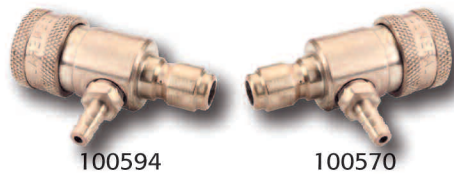
FIXED CHEMICAL INJECTORS - STAINLESS STEEL									
MODEL	ORIFICE	GPM	RATED	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WHGT	BOX QTY
100873	1.8 mm	2.0 to 3.0 GPM	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.	25
100874	2.1 mm	3.0 to 5.0 GPM	5,500 PSI	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.	25
100875	2.3 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.	25
100336	1.44 mm	1.0 to 2.0 GPM	5,500 PSI (MAX)	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.	25
100094	1.6 mm	2.0 to 3.0 GPM	5,500 PSI (MAX)	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.	25
100835	1.8 mm	2.0 to 3.0 GPM	5,500 PSI (MAX)	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.	25
100334	2.1 mm	2.0 to 4.0 GPM	5,500 PSI (MAX)	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.	25
100333	2.3 mm	3.0 to 5.0 GPM	5,500 PSI (MAX)	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.	25
100339	2.5 mm	5.0 to 8.0 GPM	5,500 PSI (MAX)	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.	25
100541	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
100781	Metering Tips								



## Fixed Chemical Injectors High Draw

Product Group: L

FIXED CHEMICAL INJECTORS - HIGH DRAW - CHEMICAL DRAW UP TO 20%									
MODEL	ORIFICE	GPM	MAX	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WHGT	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	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	1/4"	0.4 lbs.	25



## Quick Connect Fixed Chemical Injectors Brass

Product Group: L

FIXED CHEMICAL INJECTORS - HIGH DRAW - CHEMICAL DRAW UP TO 20%									
MODEL	ORIFICE	GPM	MAX	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WHGT	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	3.0 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	3.0 to 8.0 GPM	3,500 PSI	3/8" F Coupler	3/8" M Plug	190° F	1/4"	0.4 lbs.	25



ACCESSORIES - INJECTORS  
**INJECTORS**

**Quick Connect Fixed Chemical Injectors  
 Stainless Steel Plug**



100630

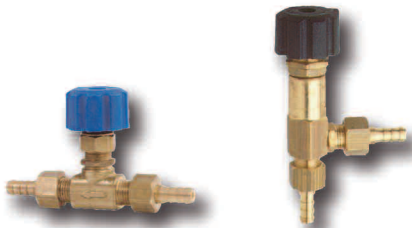
100636

Product Group: L

**QUICK CONNECT FIXED CHEMICAL INJECTORS - STAINLESS STEEL PLUG**

MODEL	ORIFICE	GPM	MAX	INLET	OUTLET	MAX TEMP	HOSE BARB	SHW WHGT	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 WHGT
Y29095400	90° Elbow	2.6 GPM	400 PSI	1/4" BSP-M	105° F	1/4"	0.5 lbs.
Y29094500	Straight	2.6 GPM	400 PSI	1/4" BSP-M	105° F	1/4"	0.4 lbs.

**High Pressure Soap Shooter**



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



## Pulse Pump

Product Group: S

100906

PULSE PUMP						
MODEL	GPM	RATED	INLET	OUTLET	MAX TEMP	SHP WHGT
100906	0.75 GPM	1,500 PSI	1/8" NPT-F	1/8" NPT-F	190° F	1.5 lbs.

ADAPTER FITTING FOR 100906		
PUMP SERIES	FITTING	VALVE
60 (TC, HTC)	520222	103036
47 and 50 (T, TT, TS, HTS)	520190	103035
44 (EZ)	520197	103036
63 (TX, HTXS)	520197	103036
66 (TSF, HTF)	520223	103090
310/3CP/5CP2 (Cat)	520279	N/A
5CP3/5CP5 (Cat)	520341	N/A
5CP6	520342	N/A



## Pulse Pump with Ball Valve

Product Group: S

100152

PULSE PUMP with BALL VALVE - 3,000 PSI when Ball Valve is Engaged						
MODEL	GPM	RATED	INLET	OUTLET	MAX TEMP	SHP WHGT
100152	0.75 GPM	1,500 PSI*	1/8" NPT-F	1/8" NPT-F	190° F	1.5 lbs.

ADAPTER FITTING FOR 100152		
PUMP SERIES	FITTING	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/5CP2 (Cat)	520282	N/A
5CP3/5CP5 (Cat)	520292	N/A
5CP6	520343	N/A

ACCESSORIES - GUNS & LANCES  
**SPRAY GUNS**

## Front Entry Spray Guns



ZGP11



YRL20

Product Group: I

### FRONT ENTRY SPRAY GUNS

MODEL	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHP WHGT
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



DG5010



YG4500S



YRL2640W



YG4000



YG5000



DG4512



DCG5010



YRL51



YRL56

Product Group: I

### REAR ENTRY SPRAY GUNS

MODEL	DESCRIPTION	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHP WHGT	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
YG4500ST	Strt., 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
DG4000S	Straight	8.0 GPM	4,000 PSI	4,000 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
YG5000ST	SS Inlet	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
<b>Chlorine Applications:</b>									
YG5000C	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
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
YG4010W	Weep Seat	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	10.0 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
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
DG5010W	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
DCG5010	Compensating	10.0 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.	8
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

# SPRAY GUNS



YG1635



YG1635SR

**NEW!**

## High Flow Rear Entry Wash Down Guns

Product Group: I

### REAR ENTRY SPRAY GUNS

MODEL	DESCRIPTION	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHP WHGT	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
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

**NEW!**

## Rear Entry Spray Guns Stainless Steel

Product Group: I

### REAR ENTRY SPRAY GUNS - Stainless Steel

MODEL	DESCRIPTION	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHP WHGT	BOX QTY
YG1732	Cartridge	32.0 GPM	1,740 PSI	1,950 PSI	1/2" BSP-F	1/2" BSP-F	320° 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	SHP WHGT
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	2.5 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" S3 Lance and 1/4" Quick Disconnect							3.0 lbs.
100751	YG5000 Assembled with 18" Lance and 1/4" Quick Disconnect							2.5 lbs.
100059	YG4010 Assembled with 36" Insulated Lance and 1/4" Quick Disconnect							3.0 lbs.
100160	DG5010 Assembled with 36" Insulated Lance and 1/4" Quick Disconnect							3.0 lbs.
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.
DG400038		8.0 GPM	4,000 PSI	4,000 PSI	3/8" NPT-F	M22-F	195° F	2.0 lbs.
101002	YG7207 Spray Gun, with 36" stainless steel lance							
DGLN3230M	Gun, Lance, 1.3 mm 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							

# LANCES

## Stainless Steel Lances



Product Group: I

YL8SS

STAINLESS STEEL LANCES								
MODEL	LENGTH	GPM	RATED	MAX	INLET	OUTLET	SHP WHGT	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

## Insulated Lances - Straight



Product Group: I

YL20PNS

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

## Insulated Lances - Bent



Product Group: I

YL20PNB

INSULATED LANCES - BENT									
MODEL	LENGTH	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHP WHGT	BOX QTY
YL36B	Vented 36"	10.5 GPM	3,650PSI	4,050 PSI	1/4" NPT-M	1/4 NPT-F	320° F	1.7 lbs.	20
YL20PNB	20"	10.5 GPM	3,650PSI	4,050 PSI	1/4" NPT-M	1/4 NPT-F	320° F	1.1 lbs.	25
YL24PNB	24"	10.5 GPM	3,650PSI	4,050 PSI	1/4" NPT-M	1/4 NPT-F	320° F	1.3 lbs.	25
YL27PNB	27"	10.5 GPM	3,650PSI	4,050 PSI	1/4" NPT-M	1/4 NPT-F	320° F	1.4 lbs.	25
YL35PNB	35"	10.5 GPM	3,650PSI	4,050 PSI	1/4" NPT-M	1/4 NPT-F	320° F	1.7 lbs.	25
YL47PNB	47"	10.5 GPM	3,650PSI	4,050 PSI	1/4" NPT-M	1/4 NPT-F	320° F	2.2 lbs.	25
YL59PNB	59"	10.5 GPM	3,650PSI	4,050 PSI	1/4" NPT-M	1/4 NPT-F	320° F	2.8 lbs.	10
YL67PNB	67"	10.5 GPM	3,650PSI	4,050 PSI	1/4" NPT-M	1/4 NPT-F	320° F	3.0 lbs.	10
YL79PNB	79"	10.5 GPM	3,650PSI	4,050 PSI	1/4" NPT-M	1/4 NPT-F	320° F	3.0 lbs.	10
ZZ15	59" Zinc	10.5 GPM	3,000 PSI	N/A	1/4" BSP-M	1/4" BSP-F	284° F	2.5 lbs.	N/A

**LANCES**

DL24ICS

**Insulated Lances  
Chrome Plated****Product Group: I****INSULATED LANCES - CHROME PLATED**

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



DL36VCS

**Vented Lances  
Chrome Plated****Product Group: I****VENTED LANCES - CHROME PLATED**

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



DL36VSSB

**Vented Lances  
Stainless Steel****Product Group: I****VENTED LANCES - CHROME PLATED**

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



YDL33

**Insulated Handle,  
Straight Double Lances****Product Group: I****INSULATED HANDLE, STRAIGHT DOUBLE LANCES**

MODEL	LENGTH	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHW WHGT	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

Product Group: I

BENT DOUBLE LANCES - STAINLESS STEEL									
MODEL	LENGTH	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHP WHGT	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	3,000 PSI	3,000 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								
ZZDBL72	72"	10.5 GPM	3,000 PSI	3,000 PSI	1/4" BSP-M	1/4" BSP-M	284° F	3.5 lbs.	50
100752	ZZDBL72 Lance Assembly with 1/4" QD Connector and 965400M Nozzle								

## Lances, Rectangle Handle, Vented Grip



YLD943

Product Group: I

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

## Lances



DLE1614

Product Group: I

LANCES								
MODEL	LENGTH	RATED	INLET	OUTLET	MAX TEMP	SHP WHGT	BOX QTY	
DLE1618	16"	3,200 GPM	M22-M	1/8" NPT-M	195° F	0.5 lbs.	12	
DLE2818	28"	3,200 GPM	M22-M	1/8" NPT-M	195° F	1.0 lbs.	12	
DLE1614	16"	3,200 GPM	M22-M	1/4" NPT-M	195° F	0.75 lbs.	12	
DLE2214	22"	3,200 GPM	M22-M	1/4" NPT-M	195° F	1.0 lbs.	12	
DLE2814	28"	3,200 GPM	M22-M	1/4" NPT-M	195° F	1.25 lbs.	12	

## Lance Accessories



D20011



D22000

Product Group: I

LANCE ACCESSORIES		
MODEL	DESCRIPTION	BOX QTY
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

# PRESSURE CLEANING ACCESSORIES



## Flat Surface Cleaners

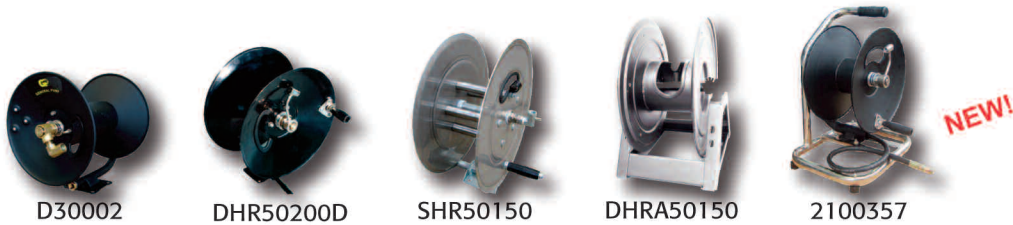
Product Group:

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

MODEL	BEARING	MAX GPM	RATED	MIN	DECK	INLET	NOZZLE	MAX TEMP	SHP WHGT	PALLET QTY
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

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

MODEL	BEARING	MAX GPM	RATED	MIN	DECK	INLET	NOZZLE	MAX TEMP	SHP WHGT	PALLET QTY
DCFSCS22	Sealed	8.0 GPM	4,000 PSI	1,000 PSI	22"	3/8" NPT-F	925020M (3)	180° F	28.0 lbs.	12
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



## Hose Reels

Product Group: N

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

MODEL	DESCRIPTION	TEMP	MAX	PALLET QTY
D30001	50' x 3/8", complete with mounting base, 10.5x6.7x7.4x11.5"	185° F	3,500 PSI	60
D30002	100' x 3/8", complete with mounting base, 10.5x12x7.5x15.2"	185° F	3,500 PSI	54
D30004	150' x 3/8", complete with mounting base, 13.4x9.8x8.8x10.8"	185° F	3,500 PSI	36
D30006	200' x 3/8", complete with mounting base, 13.4x15x9.8x19.7"	185° F	3,500 PSI	26
D30008	250' x 3/8", complete with mounting base, 13.4x14.8x9.9x18.6"	185° F	3,500 PSI	18
DHR50100D	Industrial, 100' x 3/8", complete with mounting base and pigtail, 16.2x13.7x14.8x10"	185° F	5,000 PSI	36
DHR50150D	Industrial, 150' x 3/8", complete with mounting base and pigtail, 16.2x13.7x14.8x10"	185° F	5,000 PSI	24
DHR50200D	Industrial, 200' x 3/8", complete with mounting base and pigtail, 19.8x14.3x14.8x10"	185° F	5,000 PSI	18
DHRA50150	Industrial, 150' x 3/8", "A" frame	300° F	5,000 PSI	18
DHRA50300	Industrial, 300' x 3/8", "A" frame	300° F	5,000 PSI	N/A
DHRP50150	Industrial, 150' x 3/8", Pedestal	185° F	5,000 PSI	N/A
SHR50150	High Temp, with Stainless Steel drum, 100' x 3/8" complete with mounting base	400° F	5,000 PSI	N/A
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	N/A



### SEWER JETTING HOSE REEL ATTACHMENT

MODEL	DESCRIPTION	TEMP	MAX
210358	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



# PRESSURE CLEANING ACCESSORIES

## Water Brooms



100870C



The Original  
TRIKLEENER®

2100306

**Product Group: I**

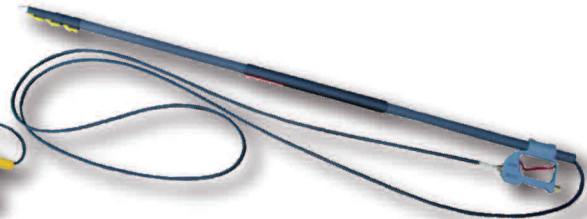
**WATER BROOMS**

MODEL	DESCRIPTION	NOZZLE PORTS	PRESSURE
100869	12" Water Broom with 65 degree nozzles	3	3,000 PSI
100870	16" Water Broom with 65 degree nozzles	4	3,000 PSI
100869C	100869 with 36" molded lance, 1/4" QC and high pressure Stainless Steel QC filter	3	3,000 PSI
100870C	100870 with 36" molded lance, 1/4" QC and high pressure Stainless Steel QC filter	4	3,000 PSI
2100306	TRIKLEENER® Water Broom, 12" adjustable height	3	4,500 PSI

## The Giraffe Telescoping Wands



DCLTG18



DCLTG24A4

**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 WHGT	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

**Product Group: I**

GIRAFFE - TELESCOPING WANDS - All ALUMINUM POLE, DLTG18A IS IN 3 SECTIONS, DLTG24A4 IS IN 4 SECTIONS. 5/16" DOUBLE BRAID, 4,000 PSI HOSE. LIGHTWEIGHT ALUMINUM POLE. NEW COMPENSATING GUN AND WAND BELT INCLUDED.

MODEL	LENGTH	GPM	MAX	OUTLET	RETRACTED DIMENSIONS	MAX TEMP	SHP WHGT	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.

# PRESSURE CLEANING ACCESSORIES



## Foamers

Product Group: N

FOAMERS						
MODEL	DESCRIPTION	GPM	RATED	MAX	SHP WHGT	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 (1qt. tank)	6.5 GPM	2,900 PSI	3,200 PSI	1.5 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



## Brushes

Product Group: N

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

# 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	0°	15°	25°	40°
	RED	YELLOW	GREEN	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	925040	940045
050	900050	915050	925045	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

NOZZLE SIZE	GPM @ PSI				
	1,000 PSI	2,000 PSI	3,000 PSI	4,000 PSI	5,000 PSI
020	1.00	1.41	1.73	2.00	2.24
025	1.25	1.77	2.17	2.50	2.80
030	1.50	2.12	2.60	3.00	3.35
032	1.63	2.30	2.81	3.25	3.63
035	1.75	2.47	3.03	3.50	3.91
037	1.88	2.65	3.25	3.75	4.17
040	2.00	2.83	3.46	4.00	4.47
045	2.25	3.18	3.90	4.50	5.03
050	2.50	3.54	4.33	5.00	5.59
055	2.75	3.89	4.70	5.50	6.15
060	3.00	4.24	5.20	6.00	6.70
065	3.25	4.60	5.63	6.50	7.27
070	3.50	4.95	6.06	7.00	7.83
075	3.75	5.30	6.50	7.50	8.39
080	4.00	5.66	6.93	8.00	8.94
085	4.25	6.01	7.36	8.50	9.50
090	4.5	6.36	7.79	9.00	10.06
100	5.0	7.07	8.66	10.00	11.18

## Standard Nozzles



ASSORTED NOZZLES

Product Group: O

STANDARD NOZZLES		
MODEL	DESCRIPTION	SHP WHGT
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.

# NOZZLES



ASSORTED NOZZLES

## Chemical Nozzles

**Product Group: O**

CHEMICAL NOZZLES			
PART NUMBER	DESCRIPTION	SHP WHGT	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, 100% Brass	0.1 lbs.	250
925400M	#40 Orifice, 25° Spray Angle, 1/4" NPT-M	0.1 lbs.	250
925400Q	#40 Orifice, 25° 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-Pack

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

**Product Group: P**

NOZZLE 5-PACKS - One Each: 0°, 15°, 25°, 40°, PLUS ONE 65° #40 CHEMICAL		
PART NUMBER	DESCRIPTION	SHP WHGT
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-Pack

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

**Product Group: P**

NOZZLE 5-PACKS - One Each: 0°, 15°, 25°, 40°		
PART NUMBER	DESCRIPTION	SHP WHGT
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.

# NOZZLES

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



YHL20

Product Group: A

ADJUSTABLE NOZZLES, VARIABLE SPRAY ANGLE and HIGH/LOW PRESSURE SETTINGS

MODEL	SIZE/COLOR	RATED	MAX	INLET	MAX TEMP	SHW WHGT	BOX QTY
YHL20	#2.0/Light Green	3,650 PSI	4,050 PSI	1/4" BSP-F	195° F	0.4 lbs.	
YHL25	#2.5/Pink	3,650 PSI	4,050 PSI	1/4" BSP-F	195° F	0.4 lbs.	
YHL30	#3.0/White	3,650 PSI	4,050 PSI	1/4" BSP-F	195° F	0.4 lbs.	100
YHL35	#3.5/Brown	3,650 PSI	4,050 PSI	1/4" BSP-F	195° F	0.4 lbs.	100
YHL40	#4.0/Dark Yellow	3,650 PSI	4,050 PSI	1/4" BSP-F	195° F	0.4 lbs.	100
YHL45	#4.5/Blue	3,650 PSI	4,050 PSI	1/4" BSP-F	195° F	0.4 lbs.	
YHL50	#5.0/Light Purple	3,650 PSI	4,050 PSI	1/4" BSP-F	195° F	0.4 lbs.	
YHL55	#5.5/Dark Red	3,650 PSI	4,050 PSI	1/4" BSP-F	195° F	0.4 lbs.	
YHL60	#6.0/Dark Green	3,650 PSI	4,050 PSI	1/4" BSP-F	195° F	0.4 lbs.	
YHL70	#7.0/Orange	3,650 PSI	4,050 PSI	1/4" BSP-F	195° F	0.4 lbs.	
YHL80	#8.0/Silver	3,650 PSI	4,050 PSI	1/4" BSP-F	195° F	0.4 lbs.	

## Adjustable Spray High/Low Pressure Nozzles



DHL4120

Product Group: A

ADJUSTABLE SPRAY HIGH/LOW PRESSURE NOZZLES

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

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



YHILO



ZOMULTIREG99

Product Group: A

ADJUSTABLE SPRAY HIGH/LOW PRESSURE NOZZLES

MODEL	SIZE/COLOR	RATED	MAX	INLET	MAX TEMP	SHW WHGT	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
ZOMULTIREG99*	5.5 GPM	3,000 PSI	3,000 PSI	1/4" BSP-F	140° F	1.1 lbs	N/A

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

# NOZZLES



Y3K



Y5K

## Rotating Nozzles

Product Group: A

ROTATING NOZZLES							
MODEL	SIZE	MAX	INLET	MAX TEMP	SHP WHGT	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	
Y3K065	6.0	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	
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	



YR23K40



YR36K30



YR51K30

## Rotating Nozzles

Product Group: A

ROTATING NOZZLES - SHOCK RESISTANT CERAMIC, INTERNAL STABILIZATION SPRING, CAN BE OPERATED IN ANY DIRECTION. YR23 IS DESIGNED FOR LOWER PRESSURES, YR35 IS DESIGNED TO OPERATE AT PRESSURES MOST COMMON IN THE MARKET AND YR51 IS FOR HIGHER PRESSURES AND MORE DEMANDING APPLICATIONS.

MODEL	SIZE	MIN PRESSURE	MAX PRESSURE	INLET	MAX TEMP	SHP WHGT	BOX QTY
YR23K20	2.0	1,150 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

## Adjustable Rotating Nozzles



ZROTOMAX1

ZRMAX581

Product Group: A

### ADJUSTABLE ROTATING NOZZLES

MODEL	COLOR	ORIFICE	GPM	RATED	MAX	INLET	MAX TEMP	SHP WHGT	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 6.6 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

## GP Viper Rotating Nozzles



100467

Product Group: A

### GP VIPER ROTATING NOZZLES

MODEL	SIZE	MAX	MAX TEMP	SHP WHGT	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

## Rotating Nozzles Stainless Steel With Tungsten Carbide



Y7K045

Product Group: K

### ROTATING NOZZLES STAINLESS STEEL

MODEL	SIZE	MAX	INLET	MAX TEMP	SHP WHGT	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

## Rotating Sewer Nozzles



YRT8720

Product Group: K

### INDUSTRIAL ROTATING NOZZLES

MODEL	NOZZLE	MIN	MAX	INLET	MAX TEMP	SHP WHGT
YRT8720	#02	2,600 PSI	8,700 PSI	1/4" BSP-F	195° F	1.2 lbs.
YRT8730	#03	2,600 PSI	8,700 PSI	1/4" BSP-F	195° F	1.2 lbs.
YRT8740	#04	2,600 PSI	8,700 PSI	1/4" BSP-F	195° F	1.2 lbs.
YRT8750	#05	2,600 PSI	8,700 PSI	1/4" BSP-F	195° F	1.2 lbs.
YRT8760	#06	2,600 PSI	8,700 PSI	1/4" BSP-F	195° F	1.2 lbs.
YRT8770	#07	2,600 PSI	8,700 PSI	1/4" BSP-F	195° F	1.2 lbs.
YRT8780	#08	2,600 PSI	8,700 PSI	1/4" BSP-F	195° F	1.2 lbs.

# NOZZLES



YDRNT

## Drain Cleaning Nozzles

Product Group: A

DRAIN CLEANING NOZZLES					
MODEL	DESCRIPTION	GPM	MAX	INLET	SHW WHGT
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	0.3 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.

NEW!



YADJNOZ

## Adjustable Nozzle Holder

Product Group: H

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



YDBL

## Double Nozzle Holders

Product Group: H

DOUBLE NOZZLE HOLDERS					
MODEL	GPM	MAX	INLET	OUTLET	SHW WHGT
DDBL14	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.



YSTN14F

## Steam Nozzle

Product Group: A

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



# COUPLERS & FITTINGS

## Quick Disconnect Couplers EPDM O-Ring



Product Group: H

### QUICK DISCONNECT COUPLERS - EPDM O-RING

MODEL	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	4,000 PSI	175° F	200
D10088	3/8" with M22-F	4,000 PSI	175° F	200
D10097	1/4" with 1/4" NPT-F (one touch)	4,000 PSI	175° F	100
D10098	3/8" with 3/8" NPT-F (one touch)	4,000 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

## Quick Disconnect Couplers Easy-Grip



Product Group: H

### QUICK DISCONNECT COUPLERS - EASY-GRIP

MODEL	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

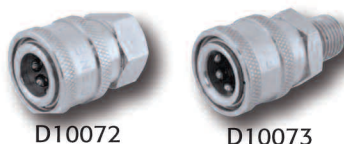


Product Group: H

### QUICK DISCONNECT PLUGS

MODEL	DESCRIPTION	MAX	BOX QTY
D10006	1/4" Plug with 1/4" NPT-F, Hardened Steel, Brass Plated	5,000 PSI	200
D10007	1/4" Plug with 1/4" NPT-M, Hardened Steel, Brass Plated	5,000 PSI	200
D10008	3/8" Plug with 3/8" NPT-F, Hardened Steel, Brass Plated	4,000 PSI	200
D10009	3/8" Plug with 3/8" NPT-M, Hardened Steel, Brass Plated	4,000 PSI	200
D10089	3/8" Plug with M22-M	4,000 PSI	200
520133	1/4" Plug with 1/4" NPT-F, Hardened Stainless Steel	5,500 PSI	200
520134	1/4" Plug with 1/4" NPT-M, Hardened Stainless Steel	5,500 PSI	200
520135	3/8" Plug with 3/8" NPT-F, Hardened Stainless Steel	5,000 PSI	200
520136	3/8" Plug with 3/8" NPT-M, Hardened Stainless Steel	5,000 PSI	150

## Quick Disconnect Couplers Stainless Steel

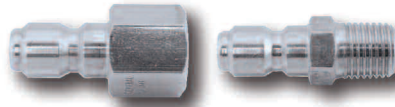


Product Group: H

### QUICK DISCONNECT COUPLERS - STAINLESS STEEL

MODEL	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

# COUPLERS & FITTINGS



## Disconnect Plugs Stainless Steel

Product Group: H

D10076

D10077

### 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



## Garden Hose Fittings

Product Group: H

D10010

680006

D10084

### GARDEN HOSE FITTINGS

PART NUMBER	DESCRIPTION	PORT	INLET	OUTLET	BOX QTY
D10010	Garde 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-F	
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

Product Group: H

D10017

D10032

700004

### 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 51 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

Product Group: H

D10117

D10118

D10119

### 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

# COUPLERS & FITTINGS

## Quick Disconnect Fittings Twist Connect

Product Group: H



QUICK DISCONNECT FITTINGS - TWIST CONNECT						
PART NUMBER	DESCRIPTION	RATED	MAX	SHW WT	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

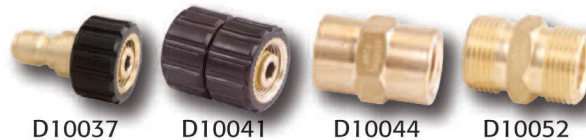
Product Group: H



QUICK DISCONNECT FITTINGS - TWIST CONNECT - EPDM O-RING						
PART NUMBER	DESCRIPTION	RATED	MAX	SHW WT	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 - EPDM O-RING						
PART NUMBER	DESCRIPTION	RATED	MAX	SHW WT	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	



100560                      100622                      100647

## Inline High-Pressure Filters

**Product Group: G**

INLINE HIGH-PRESSURE FILTERS							
PART NUMBER	DESCRIPTION	GPM	MAX	MAX TEMP	INLET	OUTLET	SHP WGHT
100560	100 Mesh Screen, 416 Stainless Steel	8.0 GPM	5,500 PSI	200° F	1/4" QD	1/4" NPT-M	0.5 lbs.
100622	100 Mesh Screen, Brass	8.0 GOM	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.



YF00                      YF00C                      D40003

D40013                      ZF1                      ZF2

## Chemical Filters

**Product Group: G**

CHEMICAL FILTERS			
PART NUMBER	DESCRIPTION	SHP WGHT	BOX QTY
ZOFILKIT	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 Check Valve, 1/4" Hose Barb and 4 foot 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/SS	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

# FILTERS & STRAINERS

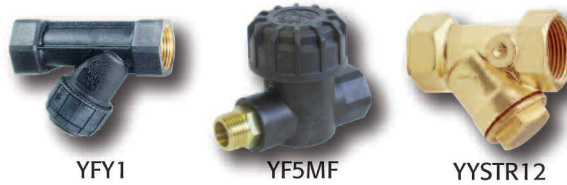
## Inlet Filters



Product Group: G

INLET FILTERS							
PART NUMBER	DESCRIPTION	GPM	MAX	INLET	OUTLET	BYPASS	SHW 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	N/A	0.5 lbs.

## Inlet Strainers



Product Group: G

INLET STRAINERS							
PART NUMBER	DESCRIPTION	GPM	MAX	INLET	OUTLET	BYPASS	SHW 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	1" 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	0.3 lbs.

# GAUGES & SWITCHES



100272



100438



Y29026035

## Thermostats

Product Group: R

THERMOSTATS							
PART NUMBER	DESCRIPTION	GPM	MAX	MAX TEMP	INLET	OUTLET	SHW WGHT
100272	Flow Through Style	1 to 35 GPM	5,000 PSI	-	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.
<b>Thermostats Bulk Packaged (25 Per Box). Product Group B:</b>							
100438B	16(4)A-380V Electric Rating	-	4,000 PSI	86-194° F	-	-	
100439B	16(4)A-380V Electric Rating	-	4,000 PSI	86-320° F	-	-	
100538B	16(4)A-380V Electric Rating	-	4,000 PSI	86-250° F	-	-	
Y29026035	Probe Pocket	-	4,500 PSI	N/A	-	-	0.4 lbs.



YPRESSWITCH



YPRESSWITCH535



YPRESSWITCHHP



ZMSIMPLEX3

## Pressure Switches

Product Group: D

PRESSURE SWITCHES						
PART NUMBER	ACTIVATED PRESSURE	RATED PRESSURE	MAX TEMP	INLET	SHW 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>NEW!</b>	<b>15 Amps, 250 Volts, 360 Switching Pressure, Stainless Steel Stem and Nipple:</b>					
YPRESSWITCHHPL	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, 215 Switching Pressure, Stainless Steel Stem and Nipple:</b>						
ZMSIMPLEX3	725 PSI	3,000 PSI		1/4" BSP-M	0.5 lbs.	

ACCESSORIES - GAUGES & SWITCHES

# GAUGES & SWITCHES

## Flow Switches Reedless



100975



100879

Product Group: D

TMT INLINE FLOWSWITCHES, 5 AMP MICROSWITCH, MINIMUM FLOW 1.0 GPM ACTIVATION, 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	5,000 PSI	180° F	3/8" NPT-F	3/8" NPT-F	250 VAC	Brass	0.3 lbs.
100931	12.0	5,800 PSI	180° F	3/8" NPT-F	3/8" NPT-F	250 VAC	SS	0.3 lbs.
<b>With Pilot Feature:</b>								
100879	10.0	4,000 PSI	180° F	3/8" NPT-F	3/8" NPT-F	250 VAC	Brass	1.5 lbs.
<b>Without Pilot Feature:</b>								
100904	10.0	4,000 PSI	180° F	3/8" NPT-F	3/8" NPT-F	250 VAC	Brass	1.5 lbs.

## Flow Switches



YFLOSWITCH



YFL7SWITCH



100329

Product Group: D

FLOW SWITCHES

PART NUMBER	GPM	RATED PRESSURE	MAX PRESSURE	MAX TEMP	INLET	OUTLET	SHP WGHT
<b>3 Amp, 230 Volts, 36" Cord (Mount 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>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, 250 Volts, 96" Cord (5 Amp Max Carrying):</b>							
103011	.75 to 18.7 GPM	4,000 PSI	4,000 PSI	165° F	3/8" NPT-F	3/8" NPT-F	2.5 lbs.
<b>3 Amp, 250 Volts, 96" Cord with Pilot Feature (5 Amp Max Carrying):</b>							
100329	.75 to 16.0 GPM	5,000 PSI	5,000 PSI	165° F	3/8" NPT-F	3/8" NPT-F	2.5 lbs.

## Throttle Control



ZSPEED

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

THROTTLE CONTROL FOR GASOLINE ENGINES

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.

ACCESSORIES - MISCELLANEOUS ACCESSORIES

# MISCELLANEOUS ACCESSORIES

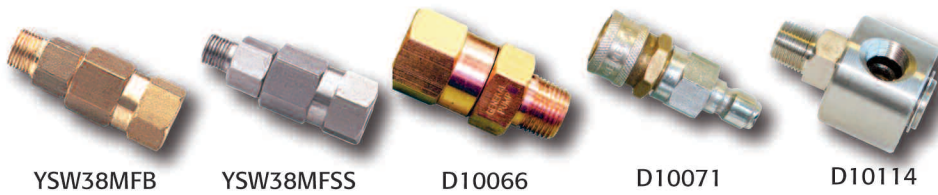


190031

## 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.



YSW38MFB

YSW38MFSS

D10066

D10071

D10114

## Swivels High Pressure

**Product Group: H**

HIGH PRESSURE SWIVELS								
Model	DESCRIPTION	GPM	RATED	MAX	INLET	OUTLET	MAX TEMP	SHP WGHT
YSW38MFB	Medium Resistance, Brass	10.5 GPM	3,650 PSI	4,050 PSI	3/8" BSP-M	3/8" BSP-F	320° 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	320° 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	320° F	0.3 lbs.
YSW14MFSS	Medium Resistance, SS	10.5 GPM	5,100 PSI	5,650 PSI	1/4" BSP-M	1/4" BSP-M	320° 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-F	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	8.0 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.

## Float Tank and Valves



YFLOATVALVE



YRG60FV



YRG30FV



YFLOATTANK

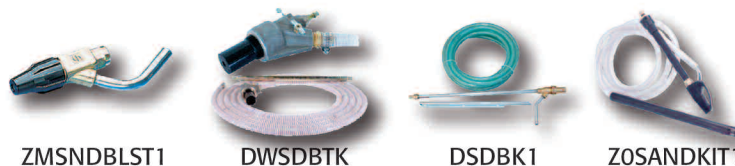
Product Group: N

### 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	0.8 lbs.	25
YRG30FV	Plastic, Float	7.4/10.5 GPM	145 PSI	1/2" BSP-M	0.5 lbs.	25
YFLOATTANK	1.05 Gallon Plastic Tank with Cover and Brass Float Valve			3/8" BSP-M	0.5 lbs.	N/A

ACCESSORIES - MISCELLANEOUS ACCESSORIES

# 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 Ressure Washer Sandblasting Kit with Hose Poker	3.0 lbs.



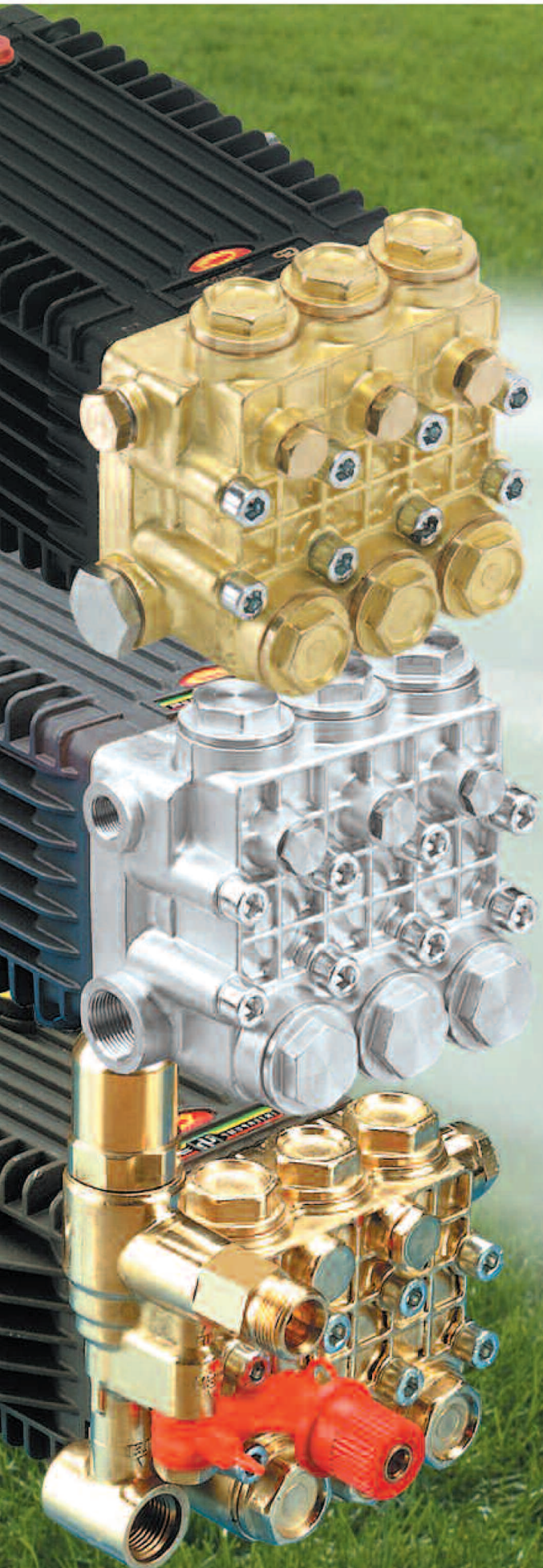
100783 Extraction Kit

## 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	
KIT3S	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 Took Kit	
ZMVT00L	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, 2014

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 TV/TH Series 57 Pumps, Consumer Pumps, the hydraulic pump line and the centrifugal 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 supersedes and replaces non-dated warranties or previously dated warranties.

## POWER UNIT(S) WARRANTY

January 1, 2014

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, 2014

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 the 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 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 inside sales department.
- 2 An RMA number must be acquired before returning product. To obtain an RMA number, please call General Pump's Inside Sales Department at (888) 474-5487 x199.
- 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 customer's responsibility.
- 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	...	...	...	...

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

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

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

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

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

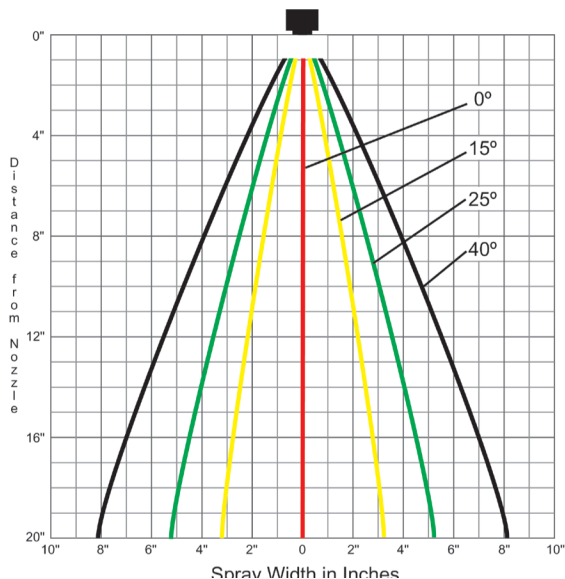
$$\text{Drive Ratio} = \frac{D}{d}$$

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

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