



**GENERAL PUMP**

**CATALOG**

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# Reasons to use General Pump



## Reliability

General Pump products have been industry-tested world-wide for over 40 years. General Pump's parent company is The Interpump Group, the world's largest manufacturer of high-pressure water plunger pumps and accessories. You can rely on General Pump's wide range of products that fill many niches in the market and cater to customers' specific needs. You can depend on the flexibility and efficiency of General Pump's manufacturing and distribution processes.

## Versatility

General Pump offers a variety of pump, accessory and nozzle models with flows up to 700 GPM and pressures to 22,000 PSI. General Pump has put millions of pumps into various applications over time. These pumps are complemented with a broad array of accessories and nozzles to meet specific customer requirements.



## Economic Quality

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



## Commitment to Support

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

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# Engineering & Manufacturing



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

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

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

## Dedicated Engineering

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

## In-House Design

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



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# PRESSURE CLEANING



## **Automotive**

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

## **Surface cleaning**

- Sidewalks
- Driveways

## **Household exterior cleaning**

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

## **Pre-painting surface preparation**

- Surface cleaning
- Paint removal

## **Heavy equipment maintenance**

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

## **Contract cleaning**

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

# EO/EM SERIES 83 - up to 3.45 GPM



EM12120S

### EM Series - Solid Shaft - Specifications:

Max. Inlet Pressure..... 125 PSI  
 Max. Fluid Temperature..... 140° F  
 Inlet Port Thread..... 1/4" BSPP-F  
 Discharge Port Thread..... 1/8" BSPP-F  
 Shaft Diameter..... 5/8" Solid  
 Pump Dimensions..... 6.2"x5.5"x6.4"  
 Shipping Weight..... 8 lbs.  
 Crankcase Oil Capacity..... 4.7 oz.  
 Use GP Series 100 Oil (see page 60)

### EM SERIES - 5/8" SOLID SHAFT

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
EM12120S	1.85	3,000	7.0	207	1750	12.0	12.0	3.8
	3.45	3,000	13.0	207	3400	12.0	12.0	7.1

### EM SERIES - HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO ELECTRIC MOTORS (NEMA56C) 1750 RPM

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
EM12048E	0.66	3,000	2.5	207	1750	12.0	4.8	1.4
EM12078E	1.19	3,000	4.5	207	1750	12.0	7.8	2.5
EM12095E	1.45	3,000	5.5	207	1750	12.0	9.5	3.0
EM12120E	1.85	3,000	7	207	1750	12.0	12	3.8

### EM SERIES - HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO ELECTRIC MOTORS (NEMA56C) 3400 RPM

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
EM12048E	1.32	3,000	5	207	3400	12.0	4.8	2.7
EM12078E	2.11	3,000	8	207	3400	12.0	7.8	4.4
EM12095E	2.64	3,000	10	207	3400	12.0	9.5	5.5
EM12120E	3.43	3,000	13	207	3400	12.0	12.0	7.1

### EM SERIES - 5/8" HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO GASOLINE ENGINES (SAE J609)

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	GHP
EM12100G6	2.91	3,000	11	207	3400	12.0	10.0	8.97
EM12115G6	3.17	3,000	12	207	3400	12.0	11.5	9.77

### OPTIONS



Available with built in unloader - add "U" to end of part number  
 Available with built in unloader and fixed injector - add "UI" to end of part number  
 Available with built in unloader, fixed injector and total-start/stop feature -add "UITS" to end of part number  
 Available in left-handed version - add "L" to end of p/n

# E1/ET SERIES 53 - up to 3.7 GPM

## ET Series - Solid Shaft - Specifications:

Max. Inlet Pressure..... 125 PSI  
 Max. Fluid Temperature..... 165° F  
 Inlet Port Thread..... 1/2"-14 BSP-F  
 Discharge Port Thread..... 3/8"-19 BSP-F  
 Shaft Diameter..... .945 in./24 mm  
 Pump Dimensions..... 8"x7.4"x4.7"  
 Shipping Weight ..... 11.0 lbs  
 Crankcase Oil Capacity..... 8.5 oz.  
 Use GP Series 100 Oil (see page 60)



ET1509S17

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

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>*ET1509S17</b>	2.1	2,610	8	180	1750	15.0	9.4	3.7
<b>ET1807S17</b>	2.4	2,320	9	160	1750	18.0	7.2	3.7
<b>*ET1511S17</b>	2.6	2,610	10	180	1750	15.0	11.5	4.7
<b>*ET1512S17</b>	2.9	2,610	11	180	1750	15.0	12.0	5.1
<b>ET1809S17</b>	3.2	2,320	12	160	1750	18.0	9.4	5.0
<b>ET1810S17</b>	3.4	2,320	13	160	1750	18.0	10.0	5.4
<b>ET1811S17</b>	3.7	2,320	14	160	1750	18.0	11.0	5.9

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

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>ET1305S34</b>	1.6	4,450	6	307	3400	13.0	5.0	4.8
<b>ET1306S34</b>	1.9	4,450	7	307	3400	13.0	6.5	5.6
<b>ET1307S34</b>	2.1	4,450	8	307	3400	13.0	7.2	6.4
<b>ET1308S34</b>	2.4	4,450	9	307	3400	13.0	8.0	7.2
<b>ET1309S34</b>	2.6	4,450	10	307	3400	13.0	9.0	8.1
<b>ET1310S34</b>	2.9	4,450	11	307	3400	13.0	10.0	8.9
<b>ET1311S34</b>	3.1	4,450	11.7	307	3400	13.0	11.0	9.7
<b>ET1312S34</b>	3.4	4,450	13	307	3400	13.0	11.5	10.5

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

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>*ET1505S34</b>	2.1	2,610	8	180	3400	15.0	5.0	3.7
<b>*ET1506S34</b>	2.6	2,610	10	180	3400	15.0	6.5	4.7
<b>*ET1507S34</b>	3.2	2,610	12	180	3400	15.0	7.2	5.6
<b>*ET1508S34</b>	3.4	2,610	13	180	3400	15.0	8.0	6.1





# E1/ET SERIES 53 - up to 3.7 GPM

## ET SERIES - HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO ELECTRIC MOTORS (NEMA56C)

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>*ET1509E17</b>	2.1	2,610	8	180	1700	15.0	9.4	3.7
<b>ET1807E17</b>	2.4	2,320	9	160	1700	18.0	7.2	3.8
<b>ET1809E17</b>	3.2	2,320	12	160	1700	18.0	9.4	5.0
<b>*ET1504E34</b>	1.85	2,610	7	180	3400	15.0	4.0	3.6
<b>*ET1504E34</b>	2.1	2,610	8.0	180	3400	15.0	5.0	3.7
<b>*ET1506E34</b>	2.9	2,610	11	180	3400	15.0	6.5	5.2
<b>*ET1507E34</b>	3.2	2,610	12	180	3400	15.0	7.2	5.6



## ET SERIES - HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO GASOLINE ENGINES (SAE J609A)

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	GHP
<b>*ET1505G6</b>	2.1	2,610	8	180	3400	15.0	5.0	5.7
<b>*ET1506G6</b>	2.9	2,610	11	180	3400	15.0	6.5	7.7
<b>*ET1507G6</b>	3.2	2,610	12	180	3400	15.0	7.2	8.6
<b>*ET1508G6</b>	3.4	2,610	13	180	3400	15.0	8.0	9.1



## OPTIONS



Available with built in unloader - add "U" to end of part number

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

Available with built in unloader, fixed injector and total-start/stop feature -add "UITS" to end of part number

Available in left-handed version - add "L" to end of p/n

\*High-temp packing kit, K312H, available for 15 mm bore models

ET1505E34, ET1506E34, ET1506G6, ET1507E34, ET1507G6, ET1509E17 and ET1809E17 available as "Pump Made Ready" (PMRET1505E34, etc.), including PULSAR4KHPEZ unloader, 4050 PSI, 10 GPM, 3/8" quick coupler and 3/8" plug, 3/4" garden hose inlet fitting with 1/4" side port and 3/8" hose barb and clamp keeps hose secure and sealed. Ready right out of the box!

# E1/ETB SERIES 53 - up to 3.0 GPM

## ETB Series - Solid Shaft - Specifications:

Max. Inlet Pressure..... 125 PSI  
 Max. Fluid Temperature..... 165° F  
 Inlet Port Thread..... 1/2"-14 BSP-F  
 Discharge Port Thread..... 3/8"-19 BSP-F  
 Shaft Diameter..... .945 in./24 mm  
 Pump Dimensions..... 8"x7.4"x4.7"  
 Shipping Weight ..... 11.0 lbs  
 Crankcase Oil Capacity..... 8.5 oz.

Use GP Series 100 Oil (see page 60)



ETB1511S17

## ETB SERIES - 24 MM SOLID SHAFT

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>*ETB1509S17</b>	2.1	2,610	8	180	1750	15.0	9.4	3.8
<b>*ETB1511S17</b>	2.67	2,610	10	180	1750	15.0	11.5	4.8
<b>ETB1809S17</b>	3.2	2,320	12	160	1750	18.0	9.4	5.1
<b>ETB1811S17</b>	3.7	2,320	14	160	1750	18.0	11.0	5.9
<b>*ETB1508S34</b>	3.47	2,610	13	180	3400	15.0	8.0	6.2

## ETB SERIES - HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO ELECTRIC MOTORS (NEMA56C)

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>*ETB1502E175</b>	0.25	2,500	1	172	1750	15.0	2.0	.75
<b>ETB1802E175</b>	0.5	2,200	2	152	1750	18.0	2.0	.75
<b>*ETB1509E175</b>	2.13	2,610	8	180	1750	15.0	9.4	3.8
<b>ETB1809E175</b>	3.2	2,320	12	160	1750	18.0	9.4	5.1
<b>*ETB1504E345</b>	1.75	2,700	7	186	3400	15.0	4.0	3.2
<b>*ETB1505E345</b>	2.13	2,610	8	180	3400	15.0	5.0	3.8
<b>*ETB1506E345</b>	2.93	2,610	11	180	3400	15.0	6.5	6.5
<b>*ETB1507E345</b>	3.0	2,610	11	180	3400	15.0	7.2	5.4
<b>*ETB1507E346</b>	3.2	2,610	12	180	3400	15.0	7.2	5.7



## ETB SERIES - HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO GASOLINE ENGINES (SAE J609A)

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>*ETB1506GUI</b>	2.9	2,610	11	180	3400	15.0	6.5	5.2
<b>*ETB1507G</b>	3.2	2,610	12	180	3400	15.0	7.2	5.7
<b>*ETB1509G</b>	4.0	2,610	15	180	3400	15.0	9.4	7.1

## ETB SERIES - 5/8" STRAIGHT SHAFT, TYPE "A" HYDRAULIC FLANGE

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	HHP
<b>ETB1809HA17</b>	3.2	2,320	12	160	3400	18.0	9.0	4.3



## OPTIONS

Available in left-handed version - add "L" to end of p/n

\*High-temp packing kit, K312H, available for 15 mm bore models

# SERIES 51 - up to 4.0 GPM



TT901

### 51 Series - Solid Shaft - Specifications:

Max. Inlet Pressure..... 125 PSI  
 Max. Fluid Temperature..... 165° F  
 Inlet Port Thread..... 3/8"-19 BSPP-F  
 Discharge Port Thread..... 1/4" 19 BSPP-F  
 Shaft Diameter..... 24 mm Solid  
 Pump Dimensions..... 7.0"x6.9"x5.1"  
 Shipping Weight..... 11.2 lbs.  
 Crankcase Oil Capacity..... 11.2 oz.  
 Use GP Series 100 Oil (see page 60)

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

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>TT901</b>	2.1	1,500	8	103	2800	15.0	6.0	2.2
<b>TT951</b>	2.5	1,500	9	103	2800	15.0	7.2	2.6
<b>TT931</b>	2.9	1,500	11	103	2800	15.0	8.0	3.0
<b>TT9111</b>	3.0	1,500	11	103	1750	18.0	9.4	3.1
<b>TT941</b>	3.43	1,500	13	103	2800	15.0	9.4	3.5
<b>540014</b>	Optional Rail							

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

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>T9051EBF</b>	2.1	1,500	8	103	1750	15.0	9.4	2.2
<b>TT2021EBF</b>	2.1	2,000	8	138	3400	15.0	5.0	2.9
<b>TT9061EBF</b>	2.1	1,500	8	103	3400	15.0	5.0	2.2
<b>TT2028EBF</b>	2.8	2,000	11	138	3400	15.0	6.6	3.8
<b>TT9071EBF</b>	2.8	2,000	11	138	3400	15.0	6.6	3.8
<b>TT9111EBF</b>	3.0	1,500	11	103	1750	18.0	9.4	3.1

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

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>TT2035EBF</b>	3.5	2,000	13	138	3400	15.0	8.0	11.5

*We'll find a way!*

# 51 SERIES - up to 4.0 GPM

## 51 SERIES - 3/4" HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO GASOLINE ENGINES (SAE J609A)

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	GHP
<b>TP2520J34</b>	1.9	2,500	7	172	3400	15.0	5.0	4.9
<b>TT9061GBF</b>	2.1	1,500	8	103	3400	15.0	5.0	3.3
<b>TP2526J34</b>	2.6	2,500	10	172	3400	15.0	6.6	6.7
<b>TT2028GBF</b>	2.8	2,000	11	138	3400	15.0	6.6	5.8
<b>TT9071GBF</b>	2.8	2,000	11	138	3400	15.0	6.6	5.8
<b>TP2530J34</b>	2.8	2,500	11	172	3400	15.0	7.2	7.2
<b>TP2533J34</b>	3.3	2,500	12.5	172	3400	15.0	8.0	8.5
<b>TT2035GBF</b>	3.5	2,000	13	138	3400	15.0	8.0	7.2
<b>TT1540GBF</b>	4.0	1,500	15	103	3400	15.0	9.4	6.2



## 51 SERIES - 5/8" STRAIGHT SHAFT, TYPE "A" HYDRAULIC FLANGE

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	HHP
<b>TT1509HA28</b>	3.4	2,175	13	150	2800	18.0	9.0	4.3



### OPTIONS



Available with built in unloader - add "U" to end of part number

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

Available in left-handed version - add "L" to end of p/n

TP2530J34 available as "Pump Made Ready" (PMRTP2530J34, including PULSAR4KHPEZ unloader, 4050 PSI, 10 GPM, 3/8" quick coupler and 3/8" plug, 3/4" garden hose inlet fitting with 1/4" side port and 3/8" hose barb and clamp keeps hose secure and sealed. Ready right out of the box!

# E2/EP SERIES 58 - up to 4.2 GPM



EP1510S17

### EP Series - Solid Shaft - Specifications:

Max. Inlet Pressure..... 125 PSI  
 Max. Fluid Temperature..... 165° F  
 Inlet Port Thread..... 1/2"-14 BSPP-F  
 Discharge Port Thread..... 3/8"-19 BSPP-F  
 Shaft Diameter..... 24 mm Solid  
 Pump Dimensions..... 9.5"x8.38"x5.1"  
 Shipping Weight..... 15.4 lbs.  
 Crankcase Oil Capacity..... 15.0 oz.  
 Use GP Series 100 Oil (see page 60)

### EP SERIES - 24 MM SOLID SHAFT

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>EP1313S17</b>	2.4	4,000	9	276	1750	13.0	13.0	6.5
<b>*EP1510S17</b>	2.4	3,045	9	210	1750	15.0	10.0	5.0
<b>*EP1512S17</b>	2.9	3,045	11	210	1750	15.0	12.0	6.0
<b>*EP1513S17</b>	3.2	3,045	12	210	1750	15.0	13.0	6.6
<b>EP1810S17</b>	3.4	2,500	13	172	1750	18.0	10.0	5.8
<b>EP1811S17</b>	3.7	2,500	14	172	1750	18.0	11.0	6.3
<b>EP1812S17</b>	4.0	2,500	15	172	1750	18.0	12.0	6.8
<b>EP1813S17</b>	4.2	2,900	16	200	1750	18.0	13.0	8.3
<b>*EP1505S34</b>	2.1	3,045	8	210	3400	15.0	5.0	4.4
<b>*EP1506S34</b>	2.9	3,045	11	210	3400	15.0	6.5	6.0
<b>*EP1508S34</b>	3.4	3,045	13	210	3400	15.0	8.0	7.1
<b>*EP1510S34</b>	4.2	3,045	16	210	3400	15.0	10.0	8.8
<b>EP1306S34</b>	2.1	4,000	8	276	3400	13.0	6.5	5.8
<b>EP1308S34</b>	2.6	4,000	10	276	3400	13.0	8.0	7.1
<b>EP1310S34</b>	3.2	4,000	12	276	3400	13.0	10.0	8.8
<b>EP1311S34</b>	3.4	4,000	13	276	3400	13.0	11.0	9.3
<b>EP1313S34</b>	4.0	4,000	15	276	3400	13.0	13.0	10.9

### EP SERIES - 1-1/8 (1.125") HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO ELECTRIC MOTORS



MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>*EP1510E17</b>	2.4	3,045	9	210	1750	15.0	10.0	5.0
<b>*EP1512E17</b>	2.9	3,045	11	210	1750	15.0	12.0	6.0
<b>EP1810E17</b>	3.4	2,500	13	172	1750	18.0	10.0	5.8
<b>EP1811E17</b>	3.7	2,500	14	172	1750	18.0	11.0	6.3
<b>EP1812E17</b>	4.0	2,500	15	172	1750	18.0	12.0	6.8

# E2/EP SERIES 58 - up to 4.2 GPM

## EP SERIES - 3/4" HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO GASOLINE ENGINES

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	GHP
<b>*EP1505G6</b>	2.1	3,045	8	210	3400	15.0	5.0	6.6
<b>*EP1506G6</b>	2.9	3,045	11	210	3400	15.0	6.0	9.0
<b>*EP1508G6</b>	3.4	3,045	13	210	3400	15.0	8.0	10.9



## EP SERIES - 1" HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO GASOLINE ENGINES

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	GHP
<b>EP1306G8</b>	2.1	4,000	8	276	3400	13.0	6.0	8.6
<b>EP1308G8</b>	2.6	4,000	10	276	3400	13.0	6.0	8.6
<b>*EP1506G8</b>	2.9	3,045	11	210	3400	15.0	6.0	9.0
<b>EP1309G8</b>	2.9	4,000	11	276	3400	13.0	9.0	11.9
<b>EP1310G8</b>	3.2	4,000	12	276	3400	13.0	10.0	13.2
<b>*EP1508G8</b>	3.4	3,045	13	210	3400	15.0	8.0	10.6
<b>EP1311G8</b>	3.4	4,000	13	276	3400	13.0	11.0	14.0
<b>*EP1509G8</b>	3.7	3,000	14	207	3400	15.0	9.0	11.4
<b>EP1313G8</b>	4.0	4,000	15	276	3400	13.0	13.0	16.4
<b>*EP1510G8</b>	4.2	3,000	16	207	3400	15.0	10.0	13.0



## EP SERIES - 5/8" STRAIGHT SHAFT, TYPE "A" HYDRAULIC FLANGE

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	HHP
<b>EP1812HA17</b>	4.2	2,900	16	200	1750	18.0	12.0	7.0



### OPTIONS



Available with built in unloader - add "U" to end of part number  
 Available with built in unloader and downstream injector - add "UI" to end of part number  
 Available in left-handed version - add "L" to end of p/n

\*High-temp packing kit, K312H, available for 15 mm bore models

EP1313G8, EP1508G8, EP1812E17 available as "Pump Made Ready" (PMREP1313G8, etc.), including PULSAR4KHPEZ unloader, 4050 PSI, 10 GPM, 3/8" quick coupler and 3/8" plug, 3/4" garden hose inlet fitting with 1/4" side port and 3/8" hose barb and clamp keeps hose secure and sealed. Ready right out of the box!

# EZ SERIES 44 - up to 5.5 GPM



EZ2536S

### **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./24 mm  
 Pump Dimensions..... 8.8"x8.8"x6.3"  
 Shipping Weight ..... 18.0 lbs.  
 Crankcase Oil Capacity..... 14.0 oz.  
 Use GP Series 100 Oil (see page 60)

### **EZ SERIES 44 - 24 MM SOLID SHAFT**

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>EZ2536S</b>	3.6	2,500	14	172	1750	18.0	11.0	6.2
<b>EZ2542S</b>	4.2	2,500	16	172	1750	18.0	13.0	7.2
<b>EZ3040S</b>	4.0	3,000	15	207	3400	15.0	9.5	8.2
<b>EZ2545S</b>	4.6	2,500	17	172	3400	15.0	11.0	7.9
<b>EZ2555S</b>	5.5	2,500	20	172	3400	15.0	13.0	9.4

#### **Premium Roller Bearings:**

<b>EZ3042S</b>	4.2	3,000	16.0	207	1750	18.0	13.0	8.6
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#### **Pump includes built-in unloader and downstream injector:**

<b>EZ2530SUI</b>	3.0	2,500	11	172	1750	15.0	13.0	5.1
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# EZ SERIES 44 - up to 5.5

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

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	GHP
<b>EZ3030G34</b>	3.0	3,200	11	220.5	3400	15.0	7.6	9.9
<b>EZ3035G</b>	3.5	3,000	13	207	3400	15.0	8.5	10.8
<b>EZ3040G</b>	4.0	3,000	15	207	3400	15.0	9.5	12.3
<b>EZ3045G</b>	4.6	3,000	17	207	3400	15.0	11.0	14.2
<b>EZ4030G34</b>	3.0	4,000	11	276	3400	13.0	9.5	12.3
<b>EZ4035G34</b>	3.5	4,000	13	276	3400	13.0	11.0	14.4
<b>EZ4040G</b>	4.0	4,200	15	290	3400	13.0	13.0	17.3



### OPTIONS



1" hollow shaft available with built in unloader and downstream injector - add "UI" to end of part number

Available in left-handed version - add "L" to end of p/n

EZ4035G34, EZ4040G, and EZ4040G available as "Pump Made Ready" (PMREZ4035G34, etc.), including PULSAR4KHPEZ unloader, 4050 PSI, 10 GPM, 3/8" quick coupler and 3/8" plug, 3/4" garden hose inlet fitting with 1/4" side port and 3/8" hose barb and clamp keeps hose secure and sealed. Ready right out of the box!



# E3/ES SERIES 59 - up to 5.55



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"  
 Shipping Weight ..... 21.0 lbs.  
 Crankcase Oil Capacity..... 22.0 oz.  
 Use GP Series 100 Oil (see page 60)

### ES SERIES - 24 MM SOLID SHAFT

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>ES2212S</b>	4.76	3,000	18	207	1450	22.0	12.0	9.8
<b>ES2213S</b>	5.55	3,000	21	207	1450	22.0	13.0	11.5
<b>ES1810S</b>	3.43	4,000	13	275.5	1750	18.0	10.0	9.4
<b>ES2010S</b>	3.96	4,000	15	275.5	1750	20.0	10.0	10.9
<b>ES2012S</b>	4.76	4,000	18	275.5	1750	20.0	12.0	13.0
<b>ES2013S</b>	5.55	3,600	21	250	1750	20.0	13.0	13.6

### ES SERIES - 24 MM SOLID SHAFT - NICKEL-PLATED MANIFOLD



MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>ESN2212S</b>	4.76	3,045	18	210	1450	22.0	12.0	9.8
<b>ESN2213S</b>	5.55	3,045	21	210	1450	22.0	13.0	11.5
<b>ESN1810S</b>	3.43	4,000	13	275.5	1750	18.0	10.0	9.4
<b>ESN2010S</b>	3.96	4,000	15	275.5	1750	20.0	10.0	10.9
<b>ESN2012S</b>	4.76	4,000	18	275.5	1750	20.0	12.0	13.0
<b>ESN2013S</b>	5.55	3,625	21	250	1750	20.0	13.0	13.6

### ES SERIES - 1" HOLLOW SHAFT - NICKEL-PLATED MANIFOLD, FLANGED FOR GASOLINE ENGINES (SAE J609B)



MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	GHP
<b>ESN1310G</b>	3.43	4,000	13	275.5	3400	13.0	10.0	14.0
<b>ESN1313G</b>	3.96	4,000	13	275.5	3400	13.0	13.0	16.3
<b>ESN1510G</b>	4.49	3,625	17	250	3400	15.0	10.0	16.7
<b>ESN1512G</b>	5.28	3,625	20	250	3400	15.0	12.0	19.7

# E3/ES SERIES 59 - up to 5.55 GPM

## ES SERIES - 24 MM SOLID SHAFT - NICKEL-PLATED MANIFOLD

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	HHP
<b>ES2012HYD</b>	4.76	4,000	18	234	1750	20.0	12.0	11.1
<b>ES2013HYD</b>	5.55	3,600	21	180	1750	20.0	13.0	11.7



## OPTIONS



Available in left-handed version - add "L" to end of p/n  
ES2012S, ESN1512G, ES2012HYD and ES2013HYD available as "Pump Made Ready" (PMREZ4035G34, etc.), including PULSAR4KHPEZ unloader, 4050 PSI, 10 GPM, 3/8" quick coupler and 3/8" plug, 3/4" garden hose inlet fitting with 1/4" side port and 3/8" hose barb and clamp keeps hose secure and sealed. Ready right out of the box!



# SERIES 47- up to 5.6 GPM



TS1331

### 47 Series - Brass Manifold - Specifications:

Max. Inlet Pressure..... 125 PSI  
 Max. Fluid Temperature..... 165° F  
 Inlet Port Thread ..... 1/2"-14 BSP-F  
 Discharge Port Thread..... 3/8"-19 BSP-F  
 Shaft Diameter..... .945 in./24 mm  
 Shipping Weight..... 32.0 lbs.  
 Pump Dimensions..... 12.2"x9.2"x6.9" (33.8 oz. versions)  
 Pump Dimensions..... 12.6"x9.2"x6.9" (37.2 oz. versions)  
 Use GP Series 100 Oil (see page 60)

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

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>T921</b>	5.0	1,700	19	117	1050	22.0	16.0	5.8
<b>T1621</b>	5.0	2,500	19	172	1050	22.0	16.0	8.6
<b>TSS1021</b>	4.5	3,500	17	241	1125	20.0	16.0	10.8
	5.6	1,700	21	117	1450	20.0	16.0	6.5
<b>T1011</b>	4.5	2,000	17	138	1125	20.0	16.0	6.2
	5.6	1,500	21	103	1450	20.0	16.0	5.8
<b>T1321</b>	5.5	2,100	21	145	1150	22.0	16.0	7.9
<b>TS1331</b>	3.5	2,100	13	145	1450	20.0	10.0	5.0
	4.0	2,000	15	138	1750	20.0	10.0	5.5
<b>TS1711</b>	3.5	2,700	13	186	1450	20.0	10.0	6.5
<b>TS1011</b>	4.0	2,000	15	138	1450	20.0	12.0	5.5
	4.75	1,500	18	103	1750	20.0	12.0	4.9
<b>TSS1511</b>	4.0	3,500	15	241	1450	20.0	12.0	9.6
<b>TS1321</b>	4.75	2,100	18	145	1450	22.0	12.0	6.8
<b>TS921</b>	4.75	1,800	18	124	1450	22.0	12.0	5.9
<b>TS1811</b>	4.0	3,500	13	241	1290	20.0	14.0	9.6
	4.5	3,500	15	241	1450	20.0	14.0	10.8
	5.0	3,500	19	241	1610	20.0	14.0	12.0

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# SERIES 47 - up to 5.6 GPM

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

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>TS2021</b>	4.5	3,500	17	241	1125	20.0	16.0	10.8
	5.6	3,500	21	241	1450	20.0	16.0	13.4
<b>TS2011</b>	4.0	3,500	15	241	1450	20.0	12.0	9.6
	4.75	2,300	18	158.5	1750	20.0	12.0	7.5
<b>TS1621</b>	4.75	2,500	18	172	1450	22.0	12.0	8.1
<b>T9211</b>	4.2	3,000	16	204	1750	20.0	10.0	8.6
<b>TS2013</b>	5.5	3,000	19	207	1750	20.0	13.0	11.3
<b>With ceramic-coated plungers:</b>								
<b>T9281</b>	4.0	4,000	15	275.5	1750	16.0	16.0	11.0



## OPTIONS



Available in left-handed version - add "L" to end of p/n

TS2021 and TSS1511 available as "Pump Made Ready" (PMRTS2021, etc.), including PULSAR4KHPEZ unloader, 4050 PSI, 10 GPM, 3/8" quick coupler and 3/8" Plug, 3/4" garden hose inlet fitting with 1/4" side port and 3/8" hose barb and clamp keeps hose secure and sealed. Ready right out of the box!



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# ME1 SERIES 81 - up to 4.6 GPM



ME11514S

### ME1 Series 81 - 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......946 in./24 mm  
 Pump Dimensions..... 10.3"x 8.9"x 4.5"  
 Shipping Weight ..... 23.5 lbs.  
 Crankcase Oil Capacity..... 16.9 oz.  
 Use GP Series 100 Oil (see page 60)

### ME1 SERIES 81 - 24MM SOLID SHAFT

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>ME11511S</b>	2.50	4,000	9	276	1750	15.0	11.0	6.84
<b>ME11514S</b>	2.64	4,000	10	276	1450	15.0	14.0	7.23
<b>ME11513S</b>	3.04	4,000	11.5	276	1750	15.0	13.0	8.32
<b>ME11811S</b>	3.57	2,900	13.5	200	1750	18.0	11.0	7.09
<b>ME11812S</b>	3.96	2,900	15	200	1750	18.0	12.0	7.86
<b>ME11813S</b>	4.22	2,900	16	200	1750	18.0	13.0	8.38
<b>ME11814S</b>	4.49	2,900	17	200	1750	18.0	14.0	8.91

### ME1 SERIES 81 - HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO ELECTRIC MOTORS (NEMA184 TC)



MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>ME11511E17</b>	2.50	4,000	9	276	1750	15.0	11.0	6.84
<b>ME11513E17</b>	3.04	4,000	11.5	276	1750	15.0	13.0	8.32
<b>ME11811E17</b>	3.57	2,900	13.5	200	1750	18.0	11.0	7.09
<b>ME11813E17</b>	4.22	2,900	16	200	1750	18.0	13.0	8.38

### ME1 SERIES 81 - HOLLOW SHAFT, FLANGED FOR DIRECT COUPLE TO GASOLINE MOTORS (SAE J609B)



MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	GHP
<b>ME11585G8</b>	3.48	3,045	13	210	3400	15.0	8.5	10.9
<b>ME11595G8</b>	3.96	3,045	15	210	3400	15.0	9.5	12.4
<b>ME11511G8</b>	4.60	3,045	17	210	3400	15.0	11.0	14.4

### OPTIONS



Available in left-handed version - add "L" to end of p/n  
 ME11511G8 available as "Pump Made Ready" (PMRME11511G8.), including PULSAR4KHPEZ unloader, 4050 PSI, 10 GPM, 3/8" quick coupler and 3/8" plug, 3/4" garden hose inlet fitting with 1/4" side port and 3/8" hose barb and clamp keeps hose secure and sealed. Ready right out of the box!

# TSF SERIES 66 - up to 12.0 GPM

## 66 Series - TSF - Specifications:

Max. Inlet Pressure..... 125 PSI  
 Max. Fluid Temperature..... 165° F  
 Inlet Port Thread..... 3/4"-14 BSP-F  
 Discharge Port Thread..... 3/8"-19 BSP-F  
 Shaft Diameter..... .945 in./24 mm  
 Pump Dimensions..... 14.94"x9.78"x6.99"  
 Shipping Weight..... 40.7 lbs.  
 Crankcase Oil Capacity..... 33.8 oz.  
 Use GP Series 100 Oil (see page 60)



TSF2021

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

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>TSF2019</b>	6.3	4,350	24	300	1450	20.0	19.0	18.7
	7.6	4,000	29	276	1750	20.0	19.0	20.8
<b>TSF2021</b>	7.0	3,600	26	248	1450	20.0	21.0	17.3
	8.5	3,600	32	248	1750	20.0	21.0	21.0
<b>TSF2219</b>	7.7	3,000	29	207	1450	22.0	19.0	15.8
	9.3	3,000	35	207	1750	22.0	19.0	19.1
<b>TSF2221</b>	8.5	3,000	32	207	1450	22.0	21.0	17.5
	10.2	3,000	39	207	1750	22.0	21.0	21.0
<b>TSF2421</b>	10.0	3,000	38	207	1450	24.0	21.0	17.1
	12.0	2,500	45	172	1750	24.0	21.0	20.5
<b>TSF2819</b>	12.1	2,200	46	152	1450	28.0	19.0	18.2
<b>TSF1819</b>	6.3	4,350	24	300	1750	18.0	19.0	18.8
<b>Dual Shaft</b>								
<b>TSF2019DS</b>	7.6	4,000	29	276	1750	20.0	19.0	20.8

### 66 SERIES - TSF - SAE TYPE "B" HYDRAULIC FLANGE

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	HHP
<b>TSF1819HYD</b>	6.3	4,350	24	300	1750	18.0	19.0	16.0
<b>TSF2019HYD</b>	7.6	4,000	29	276	1750	20.0	19.0	17.8
<b>TSF2021HYD</b>	8.5	3,600	32	248	1750	20.0	21.0	17.9
<b>TSF2219HYD</b>	9.3	3,000	35	207	1750	22.0	19.0	16.3
<b>TSF2221HYD</b>	10.2	3,000	39	207	1750	22.0	21.0	17.9
<b>TSF2819HYD</b>	12.1	2,200	46	152	1450	28.0	19.0	15.6
<b>TSF2421HYD</b>	12.0	2,500	45	172	1750	24.0	21.0	17.5



## OPTIONS



Available in left-handed version - add "L" to end of p/n  
 TSF2021 and TSF2021HYD available as "Pump Made Ready" (PMRTSF2021, PMRTSF2021HYD.), including PUL-SAR4KHPEZ unloader, 4050 PSI, 10 GPM, 3/8" quick coupler and 3/8" Plug, 3/4" garden hose inlet fitting with 1/4" side port and 3/8" hose barb and clamp keeps hose secure and sealed. Ready right out of the box!

# TSP SERIES 66 - up to 5.5 GPM



TSP1619

### 66 Series - TSP - Specifications:

Max. Inlet Pressure..... 125 PSI  
 Max. Fluid Temperature..... 165° F  
 Inlet Port Thread..... 1/2"-14 BSP-F  
 Discharge Port Thread..... 3/8"-19 BSP-F  
 Shaft Diameter..... .945 in./24 mm  
 Pump Dimensions..... 13.84"x9.8"x7.7"  
 Minimum Inlet Pressure..... 30 PSI  
 Shipping Weight..... 51.8 lbs.  
 Crankcase Oil Capacity..... 33.8 oz.  
 Use GP Series 100 Oil (see page 60)

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

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>TSP1619</b>	3.6	7,250	14	500	1450	16.0	19.0	17.8
	4.3	5,800	16	400	1750	16.0	19.0	17.0
<b>TSP1621</b>	4.3	6,525	16	450	1450	16.0	21.0	19.2
<b>TSP1819</b>	5.0	5,100	19	352	1450	18.0	19.0	17.5
<b>TSP1821</b>	5.5	5,100	21	352	1450	18.0	21.0	19.2

### Nickel-plated

<b>TSP1621N</b>	4.3	7,250	16	500	1450	16.0	21.0	21.4
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### 66 SERIES - TSP - HIGH PRESSURE - SAE TYPE "B" HYDRAULIC FLANGE

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	HHP
<b>TSP1821HYD</b>	5.5	5,000	21	345	1450	18.0	21.0	16.0

### OPTIONS

Available in left-handed version - add "L" to end of p/n

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[www.youtube.com/user/GeneralPump](http://www.youtube.com/user/GeneralPump)

# SERIES 69 - up to 12.0 GPM

## 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"  
 Shipping Weight ..... 46.0 lbs.  
 Crankcase Oil Capacity..... 50.7 oz.  
 Use GP Series 8090 Oil (see page 60)



T41

### 69 SERIES - 35 MM SOLID SHAFT

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>T41</b>	12.0	900	45	62	650	36.0	24.0	7.4
<b>TS1531</b>	7.9	2,175	30	150	1450	20.0	22.0	11.8
<b>TS1041</b>	8.0	1,600	30	110	1450	20.0	22.0	8.8

## OPTIONS

Available in left-handed version - add "L" to end of p/n

## Platinum By General Pump Emperor Series



• Nickel-plated, stainless steel manifold

• Nickel-plated crankcase

• Direct replacement for Cat 5CP2140, 310 & 5CP2120 Pumps

• Run dry / high-temp

• Perfect for self-serve / prep applications

• Cat 310/5CP stainless steel rail conversion kits

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# E4/EV SERIES 64 - up to 25.8 GPM



EV20A

### EV 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..... .1.102"/28 mm  
 Stroke ..... 1.379"/35 mm  
 Pump Dimensions..... 17.1"x12.1"x6.8"  
 Shipping Weight..... 65 lbs.  
 Crankcase Oil Capacity..... 60.7 oz./1.8 liters  
 Use GP Series 220 Oil (see page 60)

### EV SERIES SOLID SHAFT

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>EV16A</b>	8.2	5,800	31	400	1450	16.0	35.0	32.6
	9.8	5,800	37	400	1750	16.0	35.0	38.9
<b>EV18A</b>	10.3	4,640	39	320	1450	18.0	35.0	32.7
	12.4	4,640	47	320	1750	18.0	35.0	39.4
<b>EV20A</b>	12.6	3,770	48	260	1450	20.0	35.0	33.0
	15.3	3,770	58	260	1750	20.0	35.0	40.0
<b>EV22A</b>	15.3	3,000	58.	207	1450	22.0	35.0	32.0
	18.4	3,000	70	207	1750	22.0	35.0	38.0
<b>EV25A</b>	19.8	3,000	75	207	1450	25.0	35.0	41.0
	23.7	3,000	90	207	1750	25.0	35.0	49.0
<b>EV26A</b>	21.4	2,610	81	180	1450	26.0	35.0	38.0
	25.8	2,610	98	180	1750	26.0	35.0	46.0
<b>EV28A</b>	24.8	2,000	94	138	1450	28.0	35.0	34.0



# AGRICULTURE SERIES

## 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"  
 Shipping Weight ..... 28.0 lbs.  
 Crankcase Oil Capacity.....22.0 oz.  
 Use GP Series 100 Oil (see page 60)



AT0033

### AT SERIES AT0033 - 1-3/8" SPLINED SHAFT

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>AT0033</b>	7.93	435	30	30	650	36.0	24.0	2.4

## AT0055 - 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..... 13"x14"x7.5"  
 Shipping Weight ..... 36.0 lbs.  
 Crankcase Oil Capacity.....51.0 oz.  
 Use GP Series 100 Oil (see page 60)



AT0055

### AT SERIES AT0055 - 1-3/8" SPLINED AND 35 MM SOLID SHAFT

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>Single PTO shaft, right side</b>								
<b>AT0055DP</b>	13.22	725	50	50	650	36.0	24.0	6.6
<b>Dual shaft, splined PTO on right, solid shaft on left side:</b>								
<b>AT0055DS</b>	13.22	725	50	50	650	36.0	24.0	6.6
<b>Dual shaft, solid shaft on right, splined PTO on left side:</b>								
<b>AT0055DSL</b>	13.22	725	50	50.0	650	36.0	24.0	6.6

## AB Series Specifications:

Max. Inlet Pressure.....45 PSI  
 Max. Fluid Temperature..... 165° F  
 Inlet Port Thread.....1-1/2" BSP  
 Discharge Port Thread..... 1" BSP  
 Shaft Diameter.....1.375 in./34.9 mm ASAE  
 Pump Dimensions.....17.48"x17"x8.29"  
 Shipping Weight ..... 90.4 lbs.  
 Crankcase Oil Capacity..... 77.8 oz.  
 Use GP Series 100 Oil (see page 65)



AB90

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

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>AB90DP</b>	23.8	870	90	60	650	36.0	45.0	14.2
<b>AB100DP</b>	26.4	870	100	60	550	40.0	45.0	15.7
<b>AB120DP</b>	31.7	870	120	60	550	45.0	45.0	18.7
<b>AB180DP</b>	47.6	870	180	60	650	50.0	45.0	28.4

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

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>AB90PS*</b>	23.8	870	90	60	650	36.0	45.0	14.2
<b>AB100PS*</b>	26.4	870	100	60	550	40.0	45.0	15.7
<b>AB120PS*</b>	31.7	870	120	60	550	45.0	45.0	18.7
<b>AB180PS*</b>	47.6	870	180	60	650	50.0	45.0	28.4

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

# VEHICLE & CARPET CLEANING APPLICATIONS

VEHICLE  
CLEANING  
PUMPS



## **Self-service wash**

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

## **Automatic wash**

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

## **Tunnel Wash**

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

## **Mobile vehicle wash**

- Spot-free rinse applications

## **Carpet cleaning**

- Truck mounted cleaning systems

# EMPEROR SERIES - up to 5.6 GPM

VEHICLE  
CLEANING  
PUMPS

## EPHT Series - 58HT - 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  
 Ship Weight..... 18.0 lbs.  
 Pump Dimensions..... 9.5"x8.5"x5"  
 Dimensions With Rails..... 8.4"x8.3"x5.6"  
 Crankcase Oil Capacity..... 14.0 oz.  
 Use GP Series 100 Oil (see page 60)



EPHT1810S

### EPHT SERIES 58HT - 24 MM SOLID SHAFT

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>EPHT1810S</b>	3.3	2,465	12	170	1750	18.0	10.0	5.6
<b>EPHT1812S</b>	3.9	2,465	15	170	1750	18.0	12.0	6.6
<b>EPHT1813S</b>	3.4	2,465	13	170	1450	18.0	13.0	5.7

# Emperor

## HTS Series - 47HT - Specifications:

Max. Inlet Pressure..... 125 PSI  
 Max. Fluid Temperature..... 185° F  
 Inlet Port Thread..... 1/2"-14 BSP-F  
 Discharge Port Thread..... 3/8"-19 BSP-F  
 Shaft Diameter..... .945 in./24 mm  
 Ship Weight..... 32.0 lbs.  
 Pump Dimensions..... 12.2"x9.2"x6.9"  
 Dimensions With Rails..... 12.4"x10"x6.9"  
 Crankcase Oil Capacity..... 40.6 oz.  
 Use GP Series 100 Oil (see page 60)



HTS2210S

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

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>HTS2210S</b>	4.0	2,300	15	159	1450	22.0	10.0	6.3
<b>HTS2212S</b>	4.75	2,300	18	159	1450	22.0	12.0	7.5
<b>HTS2215S</b>	4.0	2,300	15	159	950	22.0	15.0	6.3
	5.0	2,300	19	159	1200	22.0	15.0	7.5
<b>HTS2016S</b>	5.6	3,000	21	207	1450	20.0	16.0	11.5

See pages 27-32 for Vehicle Cleaning Accessories.  
 All car wash pumps are covered under warranty for damage caused by fresh water wash-out for the life of the pump.

# EMPEROR SERIES - up to 12.0 GPM



HTF2018S

### 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"  
 Ship Weight..... 41.0 lbs.  
 Crankcase Oil Capacity..... 40.6 oz.  
 Use GP Series 100 Oil (see page 60)

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

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>HTF2421S</b>	10.0	3,000	38	207	1450	24.0	21.0	20.5
	12.0	2,500	45	172	1750	24.0	21.0	20.5
<b>HTF2018S</b>	7.5	3,600	28	248	1750	20.0	18.0	18.0
<b>HTF2221S</b>	10.2	3,000	38	207	1750	22.0	21.0	21.0



### PLATINUM SERIES



PEHT2010S

### PEHT Series - Specifications:

Max. Inlet Pressure..... 125 PSI  
 Max. Fluid Temperature..... 185° F  
 Inlet Port Thread..... 1/2"-11 BSP-F  
 Discharge Port Thread..... 3/8"-19 BSP-F  
 Shaft Diameter..... .945 in./24 mm  
 Pump Dimensions..... 10.4"x8.8"x5.4"  
 Ship Weight..... 21.0 lbs.  
 Crankcase Oil Capacity..... 22 oz.  
 Use GP Series 100 Oil (see page 60)

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

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>PEHT2010S</b>	4.0	3,000	15	207	1750	20.0	10.0	8.2
	3.4	3,000	13	207	1450	20.0	10.0	7.0
<b>PEHT2012S</b>	4.8	3,000	18	207	1750	20.0	12.0	9.8
	4.0	3,000	15	207	1450	20.0	12.0	8.1
<b>PEHT2213S</b>	2.6	3,000	10	207	950	20.0	12.0	5.4
	5.6	3,000	21	207	1450	22.0	13.0	11.4
<b>PEHT2214S</b>	3.4	3,000	13	207	950	22.0	13.0	7.0
	4.0	3,000	15	207	950	22.0	14.0	5.2
<b>101112</b>	Stainless steel rail kit converts to Cat 310/5CP							

See pages 27-32 for Vehicle Cleaning Accessories.  
 All car wash pumps are covered under warranty for damage caused by fresh water wash-out for the life of the pump.

# EMPEROR SERIES - up to 45.0 GPM

## HTCK Series - 70HT - Specifications:

Max. Inlet Pressure..... 125 PSI  
 Max. Fluid Temperature..... 185° F  
 Inlet Port Thread..... 1" NPT-F  
 Discharge Port Thread..... 1/2" NPT-F  
 Shaft Diameter..... 1.181 in./30 mm  
 Pump Dimensions..... 15.3"x13.4"x7.7"  
 Ship Weight ..... 79.6 lbs.  
 Crankcase Oil Capacity..... 64.2 oz.  
 Use GP Series 220 Oil (see page 60)



HTCK3623S

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

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>HTCK3623S</b>	18.0	1,500	68	103	1000	36.0	23.0	18.5
	21.0	1,500	79	103	1150	36.0	23.0	22.0
	25.0	1,300	95	90	1350	36.0	23.0	22.3

#### 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 - Specifications:

Max. Inlet Pressure..... 125 PSI  
 Max. Fluid Temperature..... 185° F  
 Inlet Port Thread..... 1-1/2" NPT-F  
 Discharge Port Thread..... 1" NPT-F  
 Shaft Diameter..... 1.575 in./40 mm  
 Pump Dimensions..... 20.7"x14.5"x9.9"  
 Ship Weight ..... 157.0 lbs.  
 Crankcase Oil Capacity..... 124.4 oz.  
 Use GP Series 220 Oil (see page 60)



HTCK4050S

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

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>HTCK4050S</b>	40.0	1,500	151	103	800	40.0	50.0	41.1
	45.0	1,500	170	103	900	40.0	50.0	46.2

#### Rail Kits:

HT150RCK - Converts Cat 3535K

HT150CWL - Converts CW1541 - typically used when pump is below motor

HT150CWS - Converts CW1541 - typically used when pump is above motor

638295 1" NPT plug, 3,000 PSI, 304 SS

638298 1-1/2" NPT plug, 150 PSI, 304 SS

203411 Bolts for pump

510476 Inlet fitting hose barb, 1-1/2" NPT-M x 2" hose barb, brass

See pages 27-32 for Vehicle Cleaning Accessories.

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

# CW 47 SERIES - up to 5.6 GPM

VEHICLE  
CLEANING  
PUMPS



CW2040

### CW 47 Series - 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  
 (CW2040 is dual shaft)  
 Pump Dimensions..... 11.4"x10.8"x6.9"  
 Dimensions With Rails ..... 11.4"x10.8"x7.9"  
 Ship Weight ..... 30.0 lbs  
 Crankcase Oil Capacity..... 33.8 oz.  
 Use GP Series 100 Oil (see page 60)

### CW 47 SERIES - 24 MM SOLID SHAFT

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>CW2040</b>	3.0	2,500	11	172	750	20.0	16.0	5.2
	4.0	2,000	15	138	1000	20.0	16.0	7.0
	5.0	1,500	19	103	1250	20.0	16.0	8.6
<b>CW24</b>	3.0	2,500	11	172	750	20.0	16.0	8.6
	5.0	1,500	19	103	1250	20.0	16.0	8.6
<b>CW3040</b>	5.0	3,000	19	103	1250	20.0	16.0	10.3
<b>CW3555</b>	5.6	3,500	21	241	1450	20.0	16.0	13.4
<b>CW2004</b>	4.0	2,000	15	138	1750	20.0	10.0	5.5

### CW 47 SERIES ASSEMBLIES

MODEL	
<b>190237</b>	CW2040 pump and retrofit rail and 24 mm H bushing for Cat 310 replacement
<b>190238</b>	CW2040 pump and retrofit rail and 8" OD pulley for Cat 310 replacement
<b>190239</b>	CW3040 pump and retrofit rail for Cat 530 replacement
<b>190245</b>	CW3040L pump and retrofit rail and H bushing for Cat 530 replacement

# CW 69 SERIES - up to 12.0 GPM

### CW 69 Series - Specifications:

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



CW1012

### CW 69 SERIES - 35 MM SOLID SHAFT

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>CW1012</b>	10.0	1,200	38	83	750	30.0	24.0	8.2
	12.0	1,000	45	70	900	30.0	24.0	8.2

See pages 27- 32 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.

# PHTCK 70 & 71 SERIES - up to 45.0 GPM

## **PHTCK Series - 70HT - Specifications:**

Max. Inlet Pressure..... 125 PSI  
 Max. Fluid Temperature..... 140° F  
 Inlet Port Thread..... 1" NPT-F  
 Discharge Port Thread..... 1/2" NPT-F  
 Shaft Diameter..... 1.181 in./30 mm  
 Pump Dimensions..... 15.3"x13.4"x7.7"  
 Ship Weight..... 79.6 lbs.  
 Crankcase Oil Capacity..... 64.2 oz.  
 Use GP Series 220 Oil (see page 60)



PHTCK3623S

### PHTCK SERIES 70HT - 30 MM SOLID SHAFT

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>PHTCK3623S</b>	18.0	1,500	68	103	1000	36.0	23.0	18.5
	21.0	1,500	79	103	1150	36.0	23.0	22.0
	25.0	1,300	95	90	1350	36.0	23.0	22.3

#### **Rail Kits:**

HT125RCK

HT125CW - Converts - CW pumps

510227 Inlet fitting hose barb, 1" NPT-M x 1-1/2" hose barb, brass

## **PHTCK Series - 71HT - Specifications:**

Max. Inlet Pressure..... 125 PSI  
 Max. Fluid Temperature..... 140° F  
 Inlet Port Thread..... 1-1/2" NPT-F  
 Discharge Port Thread..... 1" NPT-F  
 Shaft Diameter..... 1.575 in./40 mm  
 Pump Dimensions..... 20.7"x14.5"x9.9"  
 Ship Weight..... 157.0 lbs.  
 Crankcase Oil Capacity..... 124.4 oz.  
 Use GP Series 220 Oil (see page 60)



PHTCK4050S

### PHTCK SERIES 71HT - 40 MM SOLID SHAFT

MODEL	GPM	PSI	LPM	BAR	RPM	BORE (mm)	STROKE (mm)	EBHP
<b>PHTCK4050S</b>	40.0	1,500	151	103	800	40.0	50.0	41.1
	45.0	1,500	170	103	900	40.0	50.0	46.2

#### **Rail Kits:**

HT150RCK - Converts Cat 3535K

HT150CWS - Converts CW1541 - short pump stand

638295 1" NPT plug, 3,000 PSI, 304 SS

638298 1-1/2" NPT plug, 150 PSI, 304 SS

203411 Bolts for pump

510476 Inlet fitting hose barb, 1-1/2" NPT-M x 2" hose barb, brass



# VEHICLE CLEANING ACCESSORIES

## Swivels



### BRASS & STAINLESS STEEL SWIVELS

MODEL	DESCRIPTION	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	OUTLET	WORK TEMP	SHP WGHT
YSW38MFB	Medium resistance, brass	10.5	3,650	4,050	40	252	3/8" NPT-M	3/8" NPT-F	194° F	0.3 lbs.
YSW14MFSS	Medium resistance, SS	10.5	5,100	5,650	40	390	1/4" NPT-M	1/4" NPT-F	194° F	0.3 lbs.
YSW38MFSS	Medium resistance, SS	10.5	5,100	5,650	40	390	3/8" NPT-M	3/8" NPT-F	194° F	0.3 lbs.
YSW14MFB	Medium resistance, brass	10.5	3,650	4,050	40	252	1/4" NPT-M	1/4" NPT-F	194° F	0.3 lbs.
YSW9014SS	Medium resistance, SS, 90 deg	10.5	3,650	4,050	40	252	1/4" BSP-M	1/4" BSP-F	194° F	0.3 lbs.
SW14MFN	Nickel-plated brass	12.0	3,500	3,500	45	241	1/4"-18 NPT-M	1/4"-18 NPT-F	200° F	0.32 lbs.
SW38MF90N	Nickel-plated, 90 Deg	12.0	3,500	3,500	45	241	3/8"-18 NPT-M	3/8"-18 NPT-F	200° F	0.4 lbs.
SW38MFN	Nickel-plated	12.0	3,500	3,500	45	241	3/8"-18 NPT-M	3/8"-18 NPT-F	200° F	0.31 lbs.
SW38FFN	Stainless steel	12.0	3,500	3,500	45	241	3/8"-18 NPT-F	3/8"-18 NPT-F	200° F	1.3 lbs.

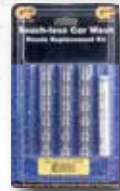
## Squeegees



### SQUEEGEES

MODEL	DESCRIPTION
560035	5 foot tapered wood handle
PXW20075	30" foam rubber squeegee head, cleans dirt out of the deepest cracks, even on rough surfaces
560001	Assembled squeegee head and handle

## Nozzle Packs



105140

### NOZZLE PACKS

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
105193	Nozzle kit for Hydrospray Rainmaker-Tower, 9 Nozzles

## Regulators - Great for Multiple Gun Prep Units



100892

100998/99

ZXS1

CWR4525/1003

YR5221

### VEHICLE CLEANING REGULATORS

MODEL	DESCRIPTION	GPM	PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	SHP WGHT
100892	Nickel-plated	5.0	2,000	19	138	3/8" NPT-F	1/4" NPT-F	200° F	1.4 lbs.
CWR1003	Brass, for rollover car washes (PP)	10.0	300	38	21	3/4" NPT-F	1/2" NPT-F	195° F	2.0 lbs.
100998	303 stainless steel, Viton, PTFE	13.0	1,000	49	69	3/8" NPT-F	1/2" NPT-F	190° F	2.0 lbs.
100999	303 stainless steel, Viton, PTFE	13.0	2,000.	49	138	3/8" NPT-F	1/2" NPT-F	190° F	2.0 lbs.
ZKSX1	316 stainless steel	16.0	3,600	60	248	1/2" BSP-F	1/2" BSP-F	185° F	4.5 lbs.
CWR4525	Brass, for rollover car washes (PP)	45.0	2,500	170	172	3/4" NPT-F	1/2" NPT-F	195° F	2.0 lbs.

MODEL	DESCRIPTION	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	MAX TEMP	SHP WGHT
YR5221	Designed for touch free car wash systems	53.0	2,200	2,450	201	152	1" NPT	200 F	4.5 lbs.

# VEHICLE CLEANING ACCESSORIES



PLSR4LVNCV



YBRV624



YBRV5325

## Balanced Relief Valves

VEHICLE CLEANING BALANCED RELIEF VALVES									
MODEL	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	SHP WGHT
YBRV624	6.3	2,200	2,450	24	152	3/8" BSP-F	3/8" BSP-F	195° F	0.8 lbs.
YBRV624D	6.3	2,200	2,450	24	152	(2) 3/8" BSP-F	3/8" BSP-F	195° F	1.0 lbs.
100268	6.3	300	N/A	24	14	(2) 3/8" BSP-F	3/8" BSP-F	195° F	1.0 lbs.
100269	6.3	300	N/A	24	14	3/8" BSP-F	3/8" BSP-F	195° F	0.8 lbs.
PLSR4LVNCV	10.0	1,450	1,500	38	100	(2) 3/8" BSP-F	(2) 3/8" BSP-F	195° F	1.0 lbs.
PLSR4HVNCV	10.0	2,300	2,600	38	159	(2) 3/8" BSP-F	(2) 3/8" BSP-F	195° F	1.0 lbs.
101088	30.0	350	N/A	114	24	3/4" NPT-F	3/4" NPT-F	195° F	2.0 lbs.
YBRV5325	53.0	2,600	2,900	201	179	3/4" NPT-F	1/2" NPT-F	195° F	2.0 lbs.



ZH1520



YU21235



YU5221



ZK4010



PULSAR4LP

## Unloaders

VEHICLE CLEANING UNLOADERS										
MODEL	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	OUTLET	BYPASS	MAX TEMP	SHP WGHT
ZK4010	10.5	4,000	4,000	40	276	3/8" BSP-F	3/8" BSP-M	(2) 3/8" BSP-F	185° F	2.3lbs.
PULSAR4LP	10.5	2,300	2,600	40	159	(2) 3/8" NPT-F	3/8" NPT-F	(2) 3/8" NPT-F	195° F	1.5 lbs.
PULSAR4KLP	10.5	2,300	2,600	40	159	(2) 3/8" NPT-F	3/8" NPT-F	(2) 3/8" NPT-F	195° F	1.5 lbs.
YU21235	21.0	2,300	2,600	79	159	(2) 1/2" NPT-F	1/2" NPT-F	(2) 1/2" NPT-F	200° F	3.1 lbs.
YVB5121HT	21.0	5,100	5,650	79	352	1/2" NPT-F	1/2" NPT-F	1/2" NPT-F	195° F	2.5 lbs.
ZH168	21.0	2,320	2,320	79	160	(2) 1/2" NTP-F	1/2" NTP-F	1/2" NTP-F	200° F	3.1 lbs
ZH288	21.0	4,000	4,000	79	276	(2) 1/2" NTP-F	1/2" NTP-F	1/2" NTP-F	200° F	3.1 lbs
YU3723	37.0	2,300	2,600	140	159	3/4" NPT-F	3/4" NPT-F	3/4" NPT-F	195° F	4.1 lbs.
YU5221	53.0	2,200	2,450	201	152	1" NPT-F	1" NPT-F	1" NPT-F	200° F	4.5 lbs.
ZH2820	52.8	4,500	4,500	200	310	1" NPT-F	1" NPT-F	1" NPT-F	185° F	4.4 lbs.
ZH1520	52.0	2,175	2,175	197	150	1" NPT-F	1" NPT-F	1" NPT-F	185° F	4.5 lbs.



Brass



303 Stainless Steel



## Check Valves

VEHICLE CLEANING CHECK VALVES									
MODEL	DESCRIPTION	GPM	RATED PSI	MAX PSI	LPM	BAR	OUTLET	MAX TEMP	SHP WGHT
YCV14FSS	303 stainless steel	6.5	5,800	6,500	25	400	1/4" BSP-F	195° F	0.5 lbs.
YCV38FSS	Stainless steel	10.5	5,800	6,500	40	400	3/8" BSP-F	195° F	0.5 lbs.
YCV12FB	Brass	21.0	2,200	2,300	79	152	1/2" BSP-F	195° F	0.5 lbs.
YCV12FSS	303 stainless steel	21.0	5,800	6,500	79	400	1/2" BSP-F	195° F	0.5 lbs.
YCV34FB	Brass	48.0	2,200	2,300	182	152	3/4" BSP-F	195° F	0.8 lbs.
YCV34FSS	303 stainless steel	48.0	5,800	6,500	182	400	3/4" BSP-F	195° F	0.8 lbs.



686010



ZMACC1



686028

## Accumulators

VEHICLE CLEANING ACCUMULATORS								
MODEL	DESCRIPTION	GPM	PSI	LPM	BAR	INLET	SHP WGHT	
686011	Non-rechargeable (pre-set on request)	10.0	3,000	38	207	1/2" NPT-M	2.5 lbs.	
686028	Rechargeable	10.0	3,000	38	207	1/2" NPT-M	2.5 lbs.	
ZMACC1	Rechargeable	21.1	3,600	79	248	1/2" NPT-M	2.5 lbs.	
686010	Rechargeable	40.0	3,000	151	207	1" NPT-M	7.0 lbs.	

# VEHICLE CLEANING ACCESSORIES

## Spray Guns



YRL2640W

YG4000WN

YG5000W

DG5010W

### VEHICLE CLEANING SPRAY GUNS

MODEL	DESCRIPTION	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	SHP WGHT
YRL2640	Rear entry	8.0	3,650	4,050	30	252	3/8" NPT-F	1/4" NPT-F	320° F	1.0 lbs.
YRL2640W	Rear entry, weep seat	8.0	3,650	4,050	30	252	3/8" NPT-F	1/4" NPT-F	320° F	1.0 lbs.
YG4000	Rear entry	10.5	4,500	5,000	40	310	3/8" NPT-F	1/4" NPT-F	320° F	1.8 lbs.
YG4000WN	Rear entry, weep seat	10.5	4,500	5,000	40	310	3/8" NPT-F	1/4" NPT-F	320° F	1.0 lbs.
YG4010	Rear entry	10.5	4,500	5,000	40	310	3/8" NPT-F	1/4" NPT-F	320° F	1.2 lbs.
YG5000	Rear entry	10.0	5,000	5,000	38	345	3/8" NPT-F	1/4" NPT-F	320° F	1.2 lbs.
YG5000W	Rear entry, weep seat	10.0	5,000	5,000	38	345	3/8" NPT-F	1/4" NPT-F	320° F	1.2 lbs.
DG5010	Rear entry	10.0	5,000	5,000	38	345	3/8" NPT-F	1/4" NPT-F	320° F	1.4 lbs.
DG5010W	Rear entry, weep seat	10.0	5,000	5,000	38	345	3/8" NPT-F	1/4" NPT-F	320° F	1.4 lbs.

## Insulated Lances



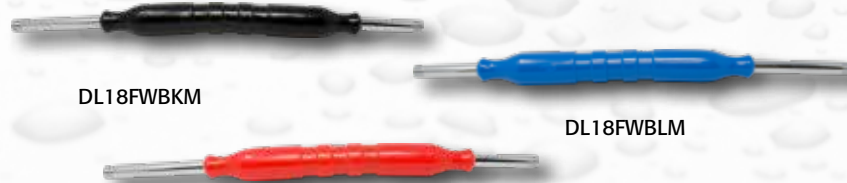
YL20PNS

YL20PNB

### VEHICLE CLEANING INSULATED LANCES

MODEL	DESCRIPTION	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	SHP WGHT
YL20PNS	20", straight	10.5	3,650	4,050	40	252	1/4" NPT-M	1/4" NPT-F	320° F	1.1 lbs.
YL24PNS	24", straight	10.5	3,650	4,050	40	252	1/4" NPT-M	1/4" NPT-F	320° F	1.3 lbs.
YL27PNS	27", straight	10.5	3,650	4,050	40	252	1/4" NPT-M	1/4" NPT-F	320° F	1.4 lbs.
YL20PNB	20", bent	10.5	3,650	4,050	40	252	1/4" NPT-M	1/4" NPT-F	320° F	1.1 lbs.
YL24PNB	24", bent	10.5	3,650	4,050	40	252	1/4" NPT-M	1/4" NPT-F	320° F	1.3 lbs.
YL27PNB	27", bent	10.5	3,650	4,050	40	252	1/4" NPT-M	1/4" NPT-F	320° F	1.4 lbs.

## Flexible Lances



DL18FWBKM

DL18FWBLM

DL18FWRDM

### VEHICLE CLEANING FLEXIBLE LANCES

MODEL	DESCRIPTION	GPM	RATED PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	SHP WGHT
DL18FWRD	18", Red	10.0	3,000	38	207	1/4" NPT-M	1/8" NPT-F	140° F	1.1 lbs.
DL18FWBL	18", Blue	10.0	3,000	38	207	1/4" NPT-M	1/8" NPT-F	140° F	1.1 lbs.
DL18FWBK	18", Black	10.0	3,000	38	207	1/4" NPT-M	1/8" NPT-F	140° F	1.1 lbs.
DL18FWRDM	18", Red	10.0	3,000	38	207	1/4" NPT-M	1/4" NPT-M	140° F	1.1 lbs.
DL18FWBLM	18", Blue	10.0	3,000	38	207	1/4" NPT-M	1/4" NPT-M	140° F	1.1 lbs.
DL18FWBKM	18", Black	10.0	3,000	38	207	1/4" NPT-M	1/4" NPT-M	140° F	1.1 lbs.
DL18FWBLMSS	18", Blue, SS	10.0	3,000	38	207	1/4" NPT-M	1/4" NPT-M	140° F	1.1 lbs.

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

# VEHICLE CLEANING ACCESSORIES



101069

## High Flow Switches

FLOW SWITCHES								
PART NUMBER	GPM	MAX PSI	LPM	BAR	MAX TEMP	INLET	OUTLET	SHP WGHT
<b>5 Amp, 250 volts, high flow flow switch, 4 gpm minimum activation, 12" 18 AWG lead:</b>								
101068	12.0	4,000	45	276	180° F	1/2" NPT- F	1/2" NPT- F	1.9 lbs.
	25.0	3,000	95	207	180° F	1/2" NPT- F	1/2" NPT- F	1.9 lbs.
<b>With Weatherpack connector:</b>								
101069	12.0	4,000	45	276	180° F	1/2" NPT- F	1/2" NPT- F	1.9 lbs.
	25.0	3,000	95	207	180° F	1/2" NPT- F	1/2" NPT- F	1.9 lbs.



100879



100975



100931

## Reedless Flow Switches

TMT INLINE FLOW SWITCHES, 5 AMP MICROSWITCH, MINIMUM ACTIVATION FLOW, 48" 18 AWG LEAD, NO SPRING, USES MAGNETS FOR ALL MOVEMENTS										
PART NUMBER	GPM	MAX PSI	LPM	BAR	MAX TEMP	INLET	OUTLET	VOLTAGE	MATERIAL	SHP WGHT
100975	12.0	5,000	45	345	180° F	3/8" NPT-F	3/8" NPT-F	250 VAC	Brass	1.25 lbs.
100931	12.0	5,800	45	400	180° F	3/8" NPT-F	3/8" NPT-F	250 VAC	SS	1.5 lbs.
<b>With pilot feature (0.5 GPM Activation):</b>										
100879	12.0	4,000	45	276	180° F	3/8" NPT-F	3/8" NPT-F	250 VAC	Brass	1.5 lbs.
<b>Without pilot feature (0.5 GPM Activation):</b>										
100904	12.0	4,000	45	276	180° F	3/8" NPT-F	3/8" NPT-F	250 VAC	Brass	1.5 lbs.



100948

## Chemical Injectors

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

VEHICLE CLEANING CHEMICAL INJECTORS - HIGH DRAW, BRASS BODY, SS NOZZLE, VITON ELASTOMERS AND CERAMIC BALL										
MODEL	ORIFICE	GPM	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WGHT
100947	1.45 mm	1.5 to 2.5	4,500	9.5	310	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100948	1.8 mm	2.0 to 3.0	4,500	11	310	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100949	2.1 mm	3.0 to 5.0	4,500	19	310	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100950	2.3 mm	5.0 to 8.0	4,500	30	310	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

VEHICLE CLEANING CHEMICAL INJECTORS - BRASS BODY, SS NOZZLE, VITON ELASTOMERS AND SS BALL										
MODEL	ORIFICE	GPM	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WGHT
100913	1.45 mm	1.0 to 2.0	4,000	8	276	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100615	1.8 mm	2.0 to 3.0	4,000	11	276	3/8" NPT-M	3/8" NPT-M	190° F	N/A	0.4 lbs.
100511	2.1 mm	3.0 to 5.0	4,000	19	276	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

VEHICLE CLEANING CHEMICAL INJECTORS - BRASS BODY, SS NOZZLE, VITON ELASTOMERS AND TEFLON BALL										
MODEL	ORIFICE	GPM	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WGHT
100871	1.5 mm	1.0 to 2.0	4,000	8	276	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.
100872	2.3 mm	5.0 to 8.0	4,000	30	276	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.

# VEHICLE CLEANING ACCESSORIES

## Chemical Injectors

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



100075

### VEHICLE CLEANING CHEMICAL INJECTORS - SS BODY, SS NOZZLE, EPDM ELASTOMERS AND SS BALL

MODEL	ORIFICE	GPM	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WGT
100996	1.04 mm	1.0 to 2.0	5,500	8	379.	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
101004	1.3 mm	1.0 to 2.0	5,500	8	379	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100075	1.45 mm	1.0 to 2.0	5,500	8	379	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100093	2.1 mm	2.0 to 4.0	5,500	15	379	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100074	2.2 mm	3.0 to 5.0	5,500	19	379	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100076	2.5 mm	5.0 to 8.0	5,500	30	379	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
101010DG	3.18 mm	5.0 to 8.0	5,500	30	379	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.

REPAIR KITS AVAILABLE

## Chemical Injectors

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



100336RD



100094WT



100835OR



101010DG



100334GY



100339LG



100333BL



100781

### COLOR CODED KYNAR BARBS NEW SPECIAL ELASOMERS, CERAMIC BALL, HASTELOY SPRING. REPAIRABLE!

MODEL	ORIFICE	GPM	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WGT
100336RD	1.45 mm	1.0 to 2.0	5,500	8	379	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100094WT	1.6 mm	2.0 to 3.0	5,500	11	379	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100835OR	1.8 mm	2.0 to 3.0	5,500	11	379	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100334GY	2.1 mm	2.0 to 4.0	5,500	15	379	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100333BL	2.2 mm	3.0 to 5.0	5,500	19	379	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100339LG	2.3 mm	5.0 to 8.0	5,500	30	379	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100541GY	2.1 mm	3.0 to 5.0	5,500	19	379	3/8" NPT-M	3/8" NPT-M	190° F	1/4" (2)	0.4 lbs.
101010DG	3.2 mm	8.0 to 10.0	5,500		379	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4lbs.
100781	<i>Metering Tips</i>									

REPAIR KITS AVAILABLE

## Chemical Injectors

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



100938

### VEHICLE CLEANING CHEMICAL INJECTORS - CPVC BODY, CPVC NOZZLE, KYNAR HOSE BARB AND TEFLON BALL

MODEL	ORIFICE	GPM	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WGT
100938	1.6 mm	2.0 to 3.0	250	11	17	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.
100853	2.1 mm	3.0 to 5.0	250	19	17	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.
100955	1.4 mm	1.0 to 2.0	250	8	17	1/2" NPT-M	1/2" NPT-M	190° F	1/4"	0.4 lbs.
100956	1.6 mm	2.0 to 3.0	250	11	17	1/2" NPT-M	1/2" NPT-M	190° F	1/4"	0.4 lbs.
100957	2.1 mm	3.0 to 5.0	250	19	17	1/2" NPT-M	1/2" NPT-M	190° F	1/4"	0.4 lbs.

## Chemical Injectors

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



100096

### VEHICLE CLEANING CHEMICAL INJECTORS - SS BODY, SS NOZZLE, EPDM O-RING, KYNAR HOSE BARB AND TEFLON BALL

MODEL	ORIFICE	GPM	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WGT
100096	1.45 mm	1.0 to 2.0	250	8	17	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100097	2.2 mm	3.0 to 5.0	250	19	17	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.

# VEHICLE CLEANING ACCESSORIES



101033



101038



101035



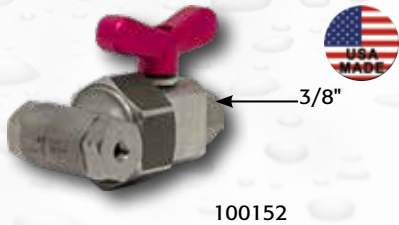
**Chemical Injectors**  
304 Stainless Steel,  
Kynar Hose Barb

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

MODEL	ORIFICE	GPM	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WGHT
101033	1.04 mm	1.0 to 2.0	500	8	34	3/8" M Plug	3/8" NPT-M	190° F	1/4" (1)	0.4 lbs.
101034	1.04 mm	1.0 to 2.0	500	8	34	3/8" M Plug	3/8" NPT-M	190° F	1/4" (2)	0.4 lbs.
101035	1.04 mm	1.0 to 2.0	500	8	34	3/8" M Plug	3/8" NPT-M	190° F	1/4" (3)	0.5 lbs.
101073	1.3 mm	1.0 to 2.0	500	8	34	3/8" M Plug	3/8" NPT-M	190° F	1/4" (1)	0.4 lbs.
101074	1.3 mm	1.0 to 2.0	500	8	34	3/8" M Plug	3/8" NPT-M	190° F	1/4" (2)	0.4 lbs.
101075	1.3 mm	1.0 to 2.0	500	8	34	3/8" M Plug	3/8" NPT-M	190° F	1/4" (3)	0.5 lbs.
101030	1.45 mm	1.0 to 2.0	500	8	34	3/8" M Plug	3/8" NPT-M	190° F	1/4" (1)	0.4 lbs.
101031	1.45 mm	1.0 to 2.0	500	8	34	3/8" M Plug	3/8" NPT-M	190° F	1/4" (2)	0.4 lbs.
101032	1.45 mm	1.0 to 2.0	500	8	34	3/8" M Plug	3/8" NPT-M	190° F	1/4" (3)	0.5 lbs.
101072	3.18 mm	5.0 to 8.0	500	30	34	3/8" M Plug	3/8" NPT-M	190° F	1/4" (3)	0.5 lbs.
101027	1.8 mm	2.0 to 3.0	500	11	34	3/8" M Plug	3/8" NPT-M	190° F	1/4" (1)	0.4 lbs.
101028	1.8 mm	2.0 to 3.0	500	11	34	3/8" M Plug	3/8" NPT-M	190° F	1/4" (2)	0.4 lbs.
101029	1.8 mm	2.0 to 3.0	500	11	34	3/8" M Plug	3/8" NPT-M	190° F	1/4" (3)	0.5 lbs.
101024	2.1 mm	2.0 to 3.0	500	11	34	3/8" M Plug	3/8" NPT-M	190° F	1/4" (1)	0.4 lbs.
101025	2.1 mm	2.0 to 3.0	500	11	34	3/8" M Plug	3/8" NPT-M	190° F	1/4" (2)	0.4 lbs.
101026	2.1 mm	2.0 to 3.0	500	11	34	3/8" M Plug	3/8" NPT-M	190° F	1/4" (3)	0.5 lbs.
101021	2.2 mm	2.0 to 3.0	500	11	34	3/8" M Plug	3/8" NPT-M	190° F	1/4" (1)	0.4 lbs.
101022	2.2 mm	2.0 to 3.0	500	11	34	3/8" M Plug	3/8" NPT-M	190° F	1/4" (2)	0.4 lbs.
101023	2.2 mm	2.0 to 3.0	500	11	34	3/8" M Plug	3/8" NPT-M	190° F	1/4" (3)	0.5 lbs.
101018	2.5 mm	5.0 to 8.0	500	30	34	3/8" M Plug	3/8" NPT-M	190° F	1/4" (1)	0.4 lbs.
101019	2.5 mm	5.0 to 8.0	500	30	34	3/8" M Plug	3/8" NPT-M	190° F	1/4" (2)	0.4 lbs.
101020	2.5 mm	5.0 to 8.0	500	30	34	3/8" M Plug	3/8" NPT-M	190° F	1/4" (3)	0.5 lbs.
101037	3.18 mm	5.0 to 8.0	500	30	34	3/8" M Plug	3/8" NPT-M	190° F	1/4" (1)	0.4 lbs.
101038	3.18 mm	5.0 to 8.0	500	30	34	3/8" M Plug	3/8" NPT-M	190° F	1/4" (2)	0.4 lbs.

\*Additional pulse pumps can be found on page 73

## Pulse Pumps



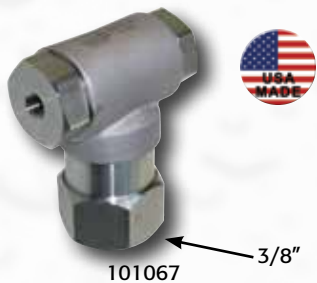
100152

### ADAPTER FITTINGS FOR 100906

PUMP SERIES	FITTING (1/4" NPT-M)	VALVE
60 (TC, HTC)	520222	103036
47 and 50 (T, TT, TS, HTS)	520190	103035
53 (ET, ETB)	101157 (COMPLETE KIT)	
58 (EP)	520197	103036
59 (ES, ESN)	520197	103036
44 (EZ)	520197	103036
63 (TX, HTXS)	520197	103036
66 (TSF, HTF)	520223	103090
310/3CP/5CP (Cat)	520279	N/A
5CP3, 5CPS (Cat)	520341	N/A
5CP6 (Cat)	520342	N/A

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

MODEL	GPM	RATED PSI	LPM	BAR	PULSE PUMP PORT INLET	WATER INLET	OUTLET	MAX TEMP	SHP WGHT
100152	0.75	1,500*	3	103	3/8" NPT-F	1/8" NPT-F	1/8" NPT-F	190° F	1.5 lbs.



101067

### ADAPTER FITTINGS FOR 101067

PUMP SERIES	FITTING (3/8" NPT-M)	VALVE
60 (TC)	520275	103036
53 (ET, ETB)	101158 (COMPLETE KIT)	
58 (EP)	520273	103036
59 (ES, ESN)	520273	103036
44 (EZ)	520273	103036
63 (TX)	520273	103036
47 (HTS)	520396	103035
66 (TSF)	520276	103090
310/3CP/5CP2 (Cat)	520282	N/A
5CP3/5CP5 (Cat)	520292	N/A
5CP6 (Cat)	520343	N/A

### NEW! HIGH PRESSURE PULSE PUMP

MODEL	GPM	MAX PSI	LPM	BAR	PULSE PUMP PORT INLET	WATER INLET	OUTLET	MAX TEMP	SHP WGHT
101067	See Note Below*	3,000	See Note	207	3/8" NPT-F	1/8" NPT-F	1/8" NPT-F	190° F	2.0 lbs.

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

# INDUSTRIAL APPLICATIONS

INDUSTRIAL  
PUMPS



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

## **Misting/Fogging**

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

## **Water jet technology**

- Coating removal
- Surface preparation
- Materials cutting/machining

## **Industrial Process**

- Hydraulic ram/press
- Hydrostatic testing

## **Industrial cleaning**

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

## **Food processing**

- Poultry deboning
- Sanitation
- Wine making

## **Agricultural**

- Hydro-seeding
- Fertilizer injection

## **Boats and pleasure craft**

- Watermaking
- Washdown
- Boat hull cleaning

## **Water treatment**

- Reverse osmosis
- Desalination
- Water purification

## **Sewer maintenance**

- Sewer jetting
- Root cutting
- Hydro Excavation

## **Tank cleaning**

- Barrel reconditioning
- Wine making

## **Mining/Oil & Gas**

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

# INDUSTRIAL PUMPS

## EV Series - Features:

- EV16A and EV18A feature a 420SS manifold- "HR" coating on manifold 30 times more resistance to salt water mist from road spray (EV20-EV28)
- Triplex plunger pump, available in 5 plunger diameters
- 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 no greasing required
- High volumetric efficient suction/delivery valves featuring new spherical design of sealing area
- Splash lubrication
- SAE-B hydraulic drive available with hollow splined shaft or bell housing



## EV SERIES



## EV 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.....1.102"/28 mm  
 Stroke.....1.379"/35 mm  
 Pump Dimensions.....17.1"x12.1"x6.8"  
 Crankcase Oil Capacity.....60.7 oz./1.8 liters  
 Use GP Series 220 Oil (see page 60)  
 Shipping Weight.....65 lbs.

KE SERIES					
MODEL	GPM	PSI	LPM	BAR	RPM
EV16A	8.2	5,800	31	400	1450
	9.8	5,800	37	400	1750
EV18A	10.3	4,640	39	320	1450
	12.4	4,640	47	320	1750
EV20A	12.6	3,770	48	260	1450
	15.3	3,770	58	260	1750
EV22A	15.3	3,000	58	207	1450
	18.4	3,000	70	207	1750
EV25A	19.8	3,000	75	207	1450
	23.7	2,610	90	180	1750
EV26A	21.4	2,610	81	180	1450
	25.8	2,000	98	138	1750
EV28A	24.8	1,450	94	100	1450

## KE Series - Features:

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

## KE SERIES



## KE Series - Specifications:

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

KE SERIES					
MODEL	GPM	PSI	LPM	BAR	RPM
KE20A	8.0	4,350	30	300	1450
KE22A	10.0	3,650	38	252	1450
KE24A	11.9	3,050	45	210	1450
KE28HA	16.1	2,170	61	150	1450
KE30HA	18.5	1,880	70	130	1450
KE36HA	26.4	1,450	100	100	1450





# INDUSTRIAL PUMPS



**KT SERIES**

**KT Series - Features:**

- Double pressure packings
- Pressure packing design with integrated cooling system
- Horizontally fitted in-line valves
- Splash lubrication
- SAE-B hydraulic drive options available
- 420 SS manifold (KT16A, 19A, 20A, 22A)
- Nickel-plated cast iron manifold (KT24A, 28A, 30A, 32A, 36A, 40A)
- HR coated manifold (KT24A, 28A, 30A, 32A)

**KT Series - Specifications:**

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

INDUSTRIAL PUMPS

KT SERIES					
MODEL	GPM	PSI	LPM	BAR	RPM
KT16A	7.2	7,250	27	500	1750
KT19A	9.5	5,800	36	400	1750
KT20A	11.4	4,650	43	321	1750
KT22A	13.7	3,650	52	252	1750
KT24A	16.3	2,900	62	200	1750
KT28A	22.2	2,540	84	175	1750
KT30A	25.4	2,175	96	150	1750
KT32A	29.1	1,750	110	120	1750
KT36A	33.1	1,813	125	125	1580
KT40A	37.5	1,450	142	100	1450



**KF SERIES**

**KF Series - Features:**

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

**KF Series - Specifications:**

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

KF SERIES					
MODEL	GPM	PSI	LPM	BAR	RPM
KF28A	24.5	3,050	93	211	1000
KF30A	28.0	2,900	106	200	1000
KF32A	31.7	2,600	120	179	1000
KF36A	40.0	2,000	151	138	1000
KF40A	45.0	1,600	170	110	900

ATEX Available



**KS SERIES**

Shown with optional gearbox

**KS Series - Features:**

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

**KS Series - Specifications:**

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

KS SERIES					
MODEL	GPM	PSI	LPM	BAR	RPM
KS28SA*	24.0	4,000	91	276	1000
KS28A	29.1	3,650	110	252	1200
KS32A	38.3	2,900	145	200	1200
KS36A	48.3	2,350	183	162	1200
KS40A	59.7	2,000	226	138	1200

\*intermittent duty only

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

# INDUSTRIAL PUMPS

## HF Series - Features:

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

## HF Series - Specifications:

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

## HF SERIES



HF SERIES					
MODEL	GPM	PSI	LPM	BAR	RPM
HF18A	8.1	8,700	31	600	800
	10.1	7,250	38	500	1000
HF20A	12.4	5,800	47	400	1000
HF22A	12.0	5,800	45	400	800
	15.0	5,075	57	350	1000
HF22JA*	19.7	4,000	75	276	1300
HF25A	19.4	4,060	73	280	1000

\*intermittent duty only

## HS Series - Features:

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

## HS Series - Specifications:

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

## HS SERIES



Shown with optional gearbox

HS SERIES					
MODEL	GPM	PSI	LPM	BAR	RPM
HS18A	12.1	8,700	46	600	1200
HS20A	15.1	7,250	57	500	1200

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# INDUSTRIAL PUMPS

INDUSTRIAL PUMPS



## MW/MWS SERIES

Gearbox standard

MW/MWS SERIES					
MODEL	GPM	PSI	LPM	BAR	RPM
MW32A	36.9	4,350	140	300	1500/1800/2200/2600
MW36A	45.2	3,900	171	269	1500/1800/2200/2600
MWS40A	55.7	3,050	211	210	1500/1800/2200/2600
MWS45A	70.5	2,500	267	172	1500/1800/2200/2600
MWS50A	87.2	2,000	330	138	1500/1800/2200/2600
MWS55A	105.4	1,450	399	100	1500/1800/2200/2600

### 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 (solid shaft)
- Includes drain/priming valve kit
- F2152 kit allows for easy adaptation to MSS mounting pattern
- SAE-C hydraulic shaft/flange option available: 1500/1800/2200 RPM
- HR coating for maximum corrosion resistance

### MW/MWS Series - Specifications:

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



## MF SERIES

Gearbox standard

MF SERIES					
MODEL	GPM	PSI	LPM	BAR	RPM
MF45A	71.0	2,900	269	200	1500/1800/2200/2600
MF50A	88.0	2,500	333	172	1500/1800/2200/2600
MF55A	106.0	2,030	401	140	1500/1800/2200/2600

### MF Series - Features:

- Packings/plungers serviceable without removing manifold
- Splash lubrication
- Gear ratios: 1500 RPM=1.876:1, 1800 RPM=2.238:1, 2200 RPM=2.722:1, 2600 RPM=3.25:1 (solid shaft)
- HR coating for maximum corrosion resistance
- F2152 kit allows for easy adaptation to MSS mounting pattern
- SAE-C hydraulic shaft/flange option available

### MF Series - Specifications:

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



## MK2 SERIES

Gearbox standard

MK SERIES					
MODEL	GPM	PSI	LPM	BAR	RPM
MK240A	40.5	5,800	153	400	1500/1800
MK245A	51.3	4,350	194	300	1500/1800
MK250A	63.4	3,630	240	250	1500/1800
MK255A	76.6	2,900	290	200	1500/1800
MK260A	91.4	2,470	346	170.	1500/1800
MK265A	107.3	2,160	406	149	1500/1800

### MK2 Series - Features:

- High pressure, Triplex Plunger Pump, available in 3 flows
- Low-high pressure packing design with integrated cooling system
- High volumetric efficient suction/delivery valves featuring new spherical design of sealing areas
- Splash lubrication
- Gear ratios: 1500 RPM=2.667:1, 1800 RPM=3.278:1 (solid shaft)  
 SAE C 14T: 2050RPM=3.75:1
- SAE D 13T: 1500 RPM=2.667:1
- Includes drain/priming valve kit
- HR coating for maximum corrosion resistance

### MK2 Series - Specifications:

Max. Inlet Pressure.....45 PSI  
 Max. Fluid Temperature.....\*140° F  
 Inlet Port Thread.....3" NPT-Flange  
 Discharge Port Thread.....1-1/4" NPT-F  
 Shaft Diameter (w/ gearbox).....2.165"/55 mm  
 Stroke.....2.835"/72 mm  
 Pump Dimensions.....33.11"x29.38"x14.25"  
 Crankcase Oil Capacity.....456.5 oz./13.5 liters  
 Use GP Series 220 Oil (see page 60)  
 Shipping Weight.....931 lbs.

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

# INDUSTRIAL PUMPS

## MKS2 Series - Features:

- Low-high pressure packing design with integrated cooling system
- High volumetric efficient suction/delivery valves featuring new spherical design of sealing areas
- Splash lubrication
- Gear ratios: 1500 RPM=2.2:1, 1800 RPM=2.667:1, 2200 RPM=3.278:1 (solid shaft)
- Includes drain/priming valve kit
- SAE-C 14T: 2500 RPM=3.75:1
- SAE-D 13T: 1800 RPM=2.667:1
- HR coating for maximum corrosion resistance

## MKS2 Series - Specifications:

Max. Inlet Pressure.....45 PSI  
 Max. Fluid Temperature.....\*140° F  
 Inlet Port Thread.....3" NPT-F  
 Discharge Port Thread.....1-1/4" NPT-F  
 Shaft Diameter.....2.165"/55 mm  
 Stroke.....2.835"/72 mm  
 Pump Dimensions.....33.11"x29.38"x14.25"  
 Crankcase Oil Capacity.....456.5 oz./13.5 liters  
 Use GP Series 220 Oil (see page 60)  
 Shipping Weight.....931 lbs.

## LK Series - Features:

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



ATEX Available

## LK Series - Specifications:

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

## KV Series - Features:

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

## KV Series - Specifications:

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

## MKS2 SERIES



MK2S50A-65A also available in 420 SS manifold

Gearbox standard

MKS SERIES					
MODEL	GPM	PSI	LPM	BAR	RPM
MKS240A	48.4	5,800	183	400	1500/1800/2200
MKS245A	61.2	4,350	232	300	1500/1800/2200
MKS250A	75.6	3,630	286	250	1500/1800/2200
MKS255A	91.6	2,900	347	200	1500/1800/2200
MKS260A	108.8	2,470	412	101	1500/1800/2200
MKS265A	127.8	2,180	484	150	1500/1800/2200

## LK SERIES



LK SERIES					
MODEL	GPM	PSI	LPM	BAR	RPM
LK3615	37.0	5,800	140	400	1500
LK3617	40.2	5,800	152	400	1750
LK3619	40.7	5,800	154	400	1900
LK4015	45.7	5,075	173	350	1500
LK4017	49.7	5,075	188	350	1750
LK4019	50.2	5,075	190	350	1900
LK4515	57.6	4,060	218	280	1500
LK4517	62.9	4,060	238	280	1750
LK4519	63.7	4,060	241	280	1900
LK5015	71.1	3,335	269	230	1500
LK5017	77.7	3,335	294	230	1750
LK5019	78.8	3,335	297	230	1900
LK5515	86.1	2,755	326	190	1500
LK5517	93.8	2,755	355	190	1750
LK5519	95.1	2,755	360	190	1900
LK6015	102.5	2,320	388	160	1500
LK6017	111.8	2,320	423	160	1750
LK6019	113.1	2,320	428	160	1900

## KV SERIES



KV SERIES					
MODEL	GPM	PSI	LPM	BAR	RPM
KV12	4.1	16,000	16	1103	1750
KV14	5.5	11,600	21	800	1750

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

# INDUSTRIAL PUMPS



## VFH SERIES

### VFH Series - Features:

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

### VFH Series - Specifications:

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

VF SERIES					
MODEL	GPM	PSI	LPM	BAR	RPM
VFH12	3.3	21,750	12.5	1500	750
	4.0	17,500	15	1207	900
VFH14	4.5	16,000	14	1103	750
	6.0	11,600	23	800	1000



## VKH SERIES

Shown with optional gearbox

### VKH Series - Features:

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

### VKH Series - Specifications:

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

VKH SERIES					
MODEL	GPM	PSI	LPM	BAR	RPM
VKH12	5.3	21,750	20	1500	1200
VKH14	7.4	15,950	28	1100	1200



## SM SERIES

Gearbox standard

### SM Series - Features:

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

### SM Series - Specifications:

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

SM SERIES					
MODEL	GPM	PSI	LPM	BAR	RPM
SM14	6.9	21,750	26	1500	1500/1800/2200/2600
SM16	9.0	17,400	34	1200	1500/1800/2200/2600
SM18	11.4	13,050	43	900	1500/1800/2200/2600
SM20	14.0	10,875	53	750	1500/1800/2200/2600
SM22	16.9	8,700	64	600	1500/1800/2200/2600
SM24	20.1	7,250	76	500	1500/1800/2200/2600

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

# INDUSTRIAL PUMPS

## SK Series - Features:

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

## SK SERIES



## SK Series - Specifications:

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

SK SERIES					
MODEL	GPM	PSI	LPM	BAR	RPM
SK2015	11.4	21,750	43	1500	1500
SK2017	11.6	21,750	44	1500	1750
SK2215	13.7	18,850	52	1300	1500
SK2217	14.0	18,850	53	1300	1750
SK2415	16.4	15,950	62	1100	1500
SK2417	16.6	15,950	53	1100	1750
SK2615	19.3	13,050	73	900	1500
SK2617	19.6	13,050	74	900	1750
SK2815	22.3	11,600	84	800	1500
SK2817	22.7	11,600	86	800	1750
SK3015	25.4	10,150	96	700	1500
SK3017	25.9	10,150	98	700	1750

## MUD PUMPS

## MUD Series - Features:

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



KT45M



KF5M



MF7M



MK9M

"M" SERIES					
MODEL	GPM	PSI	LPM	BAR	RPM
KT45M	19.6	750	74	52	600
KF5M5B	46.7	750	177	52	600
KF5M9B	46.7	1,160	177	80	600
MF7M5B	53.3	750	202	52	218
MF7M5D	67.1	750	254	52	274
MF7M7B	53.3	1090	202	75	218
MF7M7D	67.1	1090	254	75	274
MK9M5B	105	750	397	52	289
MK9M5D	105	750	397	52	289
MK9M8B	105	1090	397	75	289
MK9M8D	105	1090	397	75	289

## OPTIONAL GEARBOX



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

# INDUSTRIAL PUMPS



ATEX  
Available

## 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 - Materials:

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

### TR and SR Series - Specifications:

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

### INDUSTRIAL VALVES - FOR SR/TR SERIES

MODEL	GPM	MAX PSI	LPM	BAR	INLET	OUTLET	BYPASS	SHIP WTGT
<b>Pneumatic Valves:</b>								
<b>PNR4090LP</b>	255	3,190	965	220	Flanged Block	Flanged Block	2 1/2" BSP - F	81.5 lbs.
<b>PNR4090</b>	220	5,800	833	394	Flanged Block	Flanged Block	2 1/2" BSP - F	81.5 lbs.
<b>Regulating Valves:</b>								
<b>R4090LP</b>	255	3,190	965	541	Flanged Block	Flanged Block	2-1/2" BSP-F	81.5 lbs.
<b>R4090</b>	220	5,800	833	276	Flanged Block	Flanged Block	2-1/2" BSP-F	81.5 lbs.
<b>Safety Relief Valves:</b>								
<b>S4090/200</b>	251	2,900	950	200	1-1/2" BSP-M	Side	N/A	44.0 lbs.
<b>S4090/300</b>	251	4,350	950	300	1-1/2" BSP-M	Side	N/A	44.0 lbs.
<b>S4090/400</b>	251	5,800			1-1/2" BSP-M	Side	N/A	44.0 lbs.
	GPM	PSI						

### TR SERIES

MODEL	GPM	PSI	LPM	BAR	RPM
<b>TR26</b>	28.5	21,750	108	1500	1500/1800/2200
<b>TR30</b>	37.8	17,400	143	1200	1500/1800/2200
<b>TR32</b>	43.0	14,500	163	1000	1500/1800/2200
<b>TR36</b>	54.4	11,600	206	800	1500/1800/2200
<b>TR50</b>	105.0	5,800	394	400	1500/1800/2200
<b>TR55</b>	127.0	5,075	481	281	1500/1800/2200
<b>TR60</b>	152.0	4,350	575	300	1500/1800/2200
<b>TR65</b>	178.0	3,625	674	250	1500/1800/2200
<b>TR70</b>	206.0	3,190	780	220	1500/1800/2200
<b>TR75</b>	237.0	2,900	897	200	1500/1800/2200

### SR SERIES

MODEL	GPM	PSI	LPM	BAR	RPM
<b>SR26</b>	19.9	21,750	75	1500	1500/1800/2200
<b>SR30</b>	26.5	17,400	100	1200	1500/1800/2200
<b>SR32</b>	29.8	14,500	113	1000	1500/1800/2200
<b>SR36</b>	37.8	11,600	143	800	1500/1800/2200
<b>SR50</b>	73.0	5,800	276	400	1500/1800/2200
<b>SR55</b>	88.0	5,075	333	281	1500/1800/2200
<b>SR60</b>	105.0	4,350	397	300	1500/1800/2200
<b>SR65</b>	123.0	3,625	466	250	1500/1800/2200
<b>SR70</b>	143.0	3,190	541	220	1500/1800/2200
<b>SR75</b>	164.0	2,900	621	200	1500/1800/2200

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

# INDUSTRIAL PUMPS



ATEX  
Available

## VR SERIES



### VR Series - Features:

- Triplex plunger pump
- Up to 422.7 GPM and 5,800PSI
- 700 HP
- Internal gear reduction
- Forced oil lubrication with integrated cooler, filter and gauge
- Solid ceramic plungers
- Available in two gear ratios (520 internal RPM):  
1500 RPM=3.739:1, 1800 RPM=4.50:1,

### VR Series - Specifications:

VR Stroke..... 5.4"/137.7 mm  
 Pump Dimensions.....66.6"x50.7"x28.8"  
 Crankcase Oil Capacity.....26.4 gal.  
 Use GP Series 220 Oil (see page 60)  
 Shipping Weight..... 5,956 lbs.

### VR Series - Materials:

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

VR SERIES					
MODEL	GPM	PSI	LPM	BAR	RPM
VR70	171.2	5,800	648	400	1500/1800
VR80	223.7	4,640	847	320	1500/1800
VR90	282.9	3,770	1071	260	1500/1800
VR100	350.0	3,045	1325	210	1500/1800
VR110	422.7	2,465	1600	170	1500/1800

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# INDUSTRIAL PUMPS



## ZR SERIES



ATEX  
Available



### ZR Series - Features:

- Quintuplex plunger pump
- Up to 700 GPM and 5,800PSI
- 1200 HP
- Internal gear reduction
- Forced oil lubrication with integrated cooler, filter and gauge
- Solid ceramic plungers
- Available in two gear ratios (520 internal RPM):  
1500 RPM=3.739:1, 1800 RPM=4.50:1,
- Horizontal mounting only

### ZR Series - Specifications:

ZR Stroke ..... 5.4"/137.7 mm  
 Pump Dimensions..... 66.6"x70"x28.6"  
 Crankcase Oil Capacity.....35.6 gal.  
 Use GP Series 220 Oil (see page 60)  
 Shipping Weight..... 8,445 lbs.

### ZR Series - Materials:

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

ZR SERIES					
MODEL	GPM	PSI	LPM	BAR	RPM
ZR70	284.8	5,800	1078	400	1500/1800
ZR80	372.0	4,640	1408	320	1500/1800
ZR90	470.8	3,770	1782	260	1500/1800
ZR100	581.2	3,045	2200	210	1500/1800
ZR110	703.2	2,465	2662	170	1500/1800

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FOR FURTHER DETAILS**

# INDUSTRIAL PUMPS

## AGGRESSIVE ENVIRONMENT PUMPS

### EWM Series - Features:

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

### EWM Series - Specifications:

Max. Inlet Pressure..... 125 PSI  
 Max Discharge Pressure ..... 1500 PSI  
 Max Fluid Temperature..... \*185° F  
 Inlet Port Thread ..... 1/2" NPT-F  
 Discharge Port Thread..... 3/8" NPT-F  
 Shaft Diameter..... .5/8" Hollow  
 Pump Dimensions..... 7.6"x7.5"x5.5"  
 Crankcase Oil Capacity..... 8.5 oz./25 liters  
 Use GP Series 100 Oil (see page 60)  
 Shipping Weight..... 11.05 lbs.



**EWM SERIES**

WM SERIES					
MODEL	GPM	PSI	LPM	BAR	RPM
EWM0515C	0.5	1,500	2	103	1750
EWM0815C	0.8	1,500	3	103	1750
EWM1015C	1.1	1,500	4	103	1750
EWM1615C	1.6	1,500	6	103	1750
EWM2315C	2.3	1,500	9	103	1750
EWM3015C	3.0	1,500	11	103	1750
EWM3715C	3.7	1,500	14	103	1750
EWM4215C	4.2	1,500	16	103	1750
<b>24 mm Solid Shaft:</b>					
EWM2515S	2.5	1,500	9	103	1750
EWM4215S	4.2	1,500	16	103	1750

### ETSS Series - Features:

- 316 stainless steel fluid end for superior corrosion protection
- New generation seal package
- Dust protection chamber
- Solid ceramic plungers
- Oversized plunger guide
- Optimized inlet and outlet valves
- Oversized crankcase

### ETSS 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..... 8"x7.4"x4.7"  
 Shipping Weight ..... 13.2 lbs  
 Crankcase Oil Capacity..... 8.5 oz.  
 Use GP Series 100 Oil (see page 60)



**ETSS SERIES**

ETSS SERIES					
MODEL	GPM	PSI	LPM	BAR	RPM
ET1506S17SS	1.6	2,175	6	150	1750
ET1509S17SS	2.4	2,175	9	150	1750
ET1511S17SS	2.9	2,175	11	150	1750
ET1810S17SS	3.4	2,175	13	150	1750
ET1812S17SS	4.0	2,175	15	150	1750

### ESS Series - Features:

- 316 stainless steel fluid end for superior corrosion protection
- Solid ceramic plungers with advanced surface finish assure durability and longevity
- Patent-pending inlet/outlet valve cage
- Nickel-plated crankcase
- Heavy-duty tapered roller bearing
- Reverse osmosis, desalination, chemical injection, deionized water

### EWM Series - Specifications:

Max. Inlet Pressure..... 125 PSI  
 Max Discharge Pressure ..... 3,000 PSI  
 Max Fluid Temperature..... \*185° F  
 Inlet Port Thread ..... 1/2" NPT-F  
 Discharge Port Thread..... 3/8" NPT-F  
 Shaft Diameter..... .945"/24mm  
 Pump Dimensions..... 7.6"x7.5"x5.5"  
 Crankcase Oil Capacity..... 22.0 oz./65 liters  
 Use GP Series 100 Oil (see page 60)  
 Shipping Weight..... 22.0 lbs.



**ESS SERIES**

WM SERIES					
MODEL	GPM	PSI	LPM	BAR	RPM
ESS2010SS	4.0	3,000	15	207	1750
ESS2012SS	4.75	3,000	18	207	1750
ESS2212SS	5.5	3,000	21	207	1750
ESS2213SS	5.5	3,000	21	207	1450

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

# INDUSTRIAL PUMPS



**T SERIES 47SS**

T SERIES 47SS					
MODEL	GPM	PSI	LPM	BAR	RPM
TS2010SS	3.4	2,200	13	152	1450
TS2012SS	4.0	3,000	15	207	1750
TS2212SS	4.75	2,200	18	152	1450
TS2016SS	5.55	3,000	21	207	1450
TS2212SS	5.55	2,200	21	152	1750

T SERIES 47SS - HIGH TEMPERATURE					
MODEL	GPM	PSI	LPM	BAR	RPM
TS2016SSN	3.4	3,000	13	207	1450



**TSF SERIES 66SS**

TSF SERIES 66SS					
MODEL	GPM	PSI	LPM	BAR	RPM
TSF2019SS	7.5	3,000	28	207	1750
TSF2021SS	8.5	3,000	32	207	1750
TSF2221SS	10.2	3,000	39	207	1750
TSF2421SS	12.0	3,000	45	207	1750



**KEZ SERIES**



ATEX  
Available

KEZ SERIES					
MODEL	GPM	PSI	LPM	BAR	RPM
KEZ20A	8.0	3,000	30	207	1450
KEZ22A	10.0	3,000	38	207	1450
KEZ24A	11.9	3,000	44	207	1450
KEZ28HA	16.1	2,170	61	150	1450
KEZ30HA	18.5	1,880	70	130	1450
KEZ36HA	26.4	1,450	100	100	1450

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

## T Series 47SS - Features:

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

## T Series 47SS - Specifications:

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

## TSF Series 66SS - Features:

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

## TSF Series 66SS - Specifications:

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

## KEZ Series - Features:

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

## KEZ Series - Specifications:

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

# INDUSTRIAL PUMPS

## HFN Series - Features:

- Patent-pending symmetrical power end featuring top and bottom mounting holes allowing for easy left to right shaft conversion
- Low-high pressure packing design with integrated cooling system
- High volumetric efficiency suction/delivery valves
- Splash lubrication
- New high performance aluminum alloy connecting rods and a floating wrist pin enables extra load at half the weight, reducing vibrations and off center loads for quieter operation
- Patented "high tech" low and high pressure seals
- ASTM F51 SS manifold, 316 SS valves

## HFN Series - Specifications:

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

## KFZ Series - Features:

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

## KFZ Series - Specifications:

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

## HFN Series - Features:

- Patent-pending symmetrical power end featuring top and bottom mounting holes allowing for easy left to right shaft conversion
- Low-high pressure packing design with integrated cooling system
- High volumetric efficiency suction/delivery valves
- Splash lubrication
- New high performance aluminum alloy connecting rods and a floating wrist pin enables extra load at half the weight, reducing vibrations and off center loads for quieter operation
- SAE-C hydraulic drive available
- "R" Packings to allow small particles - ideal for salt water disposal

## HFN Series - Specifications:

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

## HFN SERIES



HFN SERIES					
MODEL	GPM	PSI	LPM	BAR	RPM
HFN22A	15.0	5,075	57	350	1000
HFN25A	19.44	4,060	66	280	1000



ATEX  
Available

## KFZ SERIES



KFZ SERIES					
MODEL	GPM	PSI	LPM	BAR	RPM
KFZ28A	24.5	3,000	93	207	1000
KFZ30A	28.0	2,900	106	200	1000
	32.2	2,300	122	158.5	800
KFZ36A	36.2	2,050	137	141	900
	40.0	1,900	151	131	1000
KFZ40A	45.0	1,600	170	110	900

## KFRZ SERIES



KFRZ SERIES					
MODEL	GPM	PSI	LPM	BAR	RPM
KFRZ36A	32.2	2,300	122	122	800
	36.2	2,050	137	137	900
	40.0	1,900	151	151	1000

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

# INDUSTRIAL PUMPS



ATEX  
Available

## MWN SERIES

### MWN Series - Features:

- Low-high pressure packing design with integrated cooling system
- Vertically fitted suction/delivery valves
- Splash lubrication
- Gear ratios: 1500 RPM=1.876:1, 1800 RPM=2.238:1, 2200 RPM=2.722:1, 2600 RPM=3.25:1
- Optional drain/prime valve kit included
- ASTM F51 SS manifold, 17/4 PH SS valves
- MWN45, MWN50 and MWN55 inlet and discharge flange sold separately

### MWN Series - Specifications:

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

MWN SERIES					
MODEL	GPM	PSI	LPM	BAR	RPM
MWN32	36.0	4,350	136	230	1500/1800,2200/2600
MWN36	45.4	3,500	172	241	1500/1800,2200/2600
MWN40	56.0	2,750	212	190	1500/1800,2200/2600
MWN45	71.0	2,250	269	155	1500/1800,2200/2600
MWN50	87.5	1,800	331	124	1500/1800,2200/2600
MWN55	106.0	1,450	401	100	1500/1800,2200/2600



ATEX  
Available

## LKN SERIES

### LKN Series - Features:

- Low-high pressure packing design with integrated cooling system
- Vertically fitted suction/delivery valves
- Splash lubrication
- Gear ratios: 1500 RPM=2.95:1, 1750 RPM=3.158:1, 1900 RPM=3.389:1
- ASTM F51 SS manifold, 17/4 PH SS valves
- LKN50, LKN55 and LKN60 inlet and discharge flange sold separately

### LKN Series - Specifications:

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

LKN SERIES					
MODEL	GPM	PSI	LPM	BAR	RPM
LKN3615	37.0	5,800	140	400	1500
LKN3617	40.1	5,800	152	400	1750
LKN4015	45.7	5,075	173	350	1500
LKN4017	49.7	5,075	188	350	1750
LKN4515	57.6	4,060	218	280	1500
LKN4517	62.8	4,060	238	280	1750
LKN5015	71.0	3,335	269	230	1500
LKN5017	77.6	3,335	294	230	1750
LKN5515	86.1	2,755	326	169	1500
LKN5517	93.7	2,755	355	169	1750
LKN6015	102.4	2,320	388	160	1500
LKN6017	111.7	2,320	423	160	1750

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

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

# INDUSTRIAL ACCESSORIES



RA2L RA2 ZKX600 YVB16 ZK3608SS YU5821 YVRP12029

## Industrial Unloaders

INDUSTRIAL UNLOADERS								
MODEL	GPM	RATED PSI	LPM	BAR	INLET	OUTLET	BYPASS	SHP WGHT
<b>Manual bypass lever and automatic operation</b>								
RA2L	61.0	3,050	231	210	1" BSP-F	3/4" BSP-F	1-1/4" BSP-F	12.0 lbs.
<b>Automatic only</b>								
RA2	61.0	3,050	231	210	1" BSP-F	3/4" BSP-F	1-1/4" BSP-F	10.0 lbs.
ZKX600	16.0	8,700	60.5	600	1/2" BSP-F	1/2" BSP-F	1/2" BSP-M	17.6 lbs.

INDUSTRIAL UNLOADERS								
MODEL	GPM	MAX PSI	LPM	BAR	INLET	OUTLET	BYPASS	SHP WGHT
YVB16	21.0	8,120	79.5	600	1/2" BSP-F	1/2" BSP-F	1/2" BSP-F	7.6 lbs.
YVB280SS	21.0	4,500	79.5	310	1/2" BSP-F	1/2" BSP-F	1/2" BSP-F	2.7 lbs.
YVB4021SS	21.0	4,500	79.5	310	1/2" BSP-F	1/2" BSP-F	1/2" BSP-F	2.0 lbs.
YU5821	21.0	5,800	79.5	400	1/2" BSP-F	1/2" BSP-F	1/2" BSP-F	2.2 lbs.
ZK3608SS (316 SS)	7.92	3,600	30	248	3/8" BSP-F	3/8" BSP-F	(2) 3/8" BSP-F	2.3 lbs.
ZK7216SS	16.0	7,250	60.5	500	1/2" BSP-F	1/2" BSP-F	(2) 1/2" BSP-F	5.9 lbs.
YVB5121HT	21.0	5,100	79.5	352	1/2" NPT-F	1/2" NPT-F	1/2" NPT-F	2.4 lbs.
ZH168	21.1	2,320	80	160	(2) 1/2" NPT-F	1/2" NPT-F	1/2" NPT-F	2.8 lbs.
ZH288	21.1	4,060	50	280	(2) 1/2" NPT-F	1/2" NPT-F	1/2" NPT-F	2.8 lbs.
ZKBH3030	29.0	3,050	110	210	1/2" BSP-F	1/2" BSP-F	3/4" BSP-F	5.5 lbs.
ZH2820	52.8	4,500	200	310	1" NPT-F	1" NPT-F	1" NPT-F	4.4 lbs.
ZH1520	52.0	2,175	197	150	1" NPT-F	1" NPT-F	1" NPT-F	4.5 lbs.
YVRP12029	120.0	2,900	454	200	(2) 1-1/4" BSP-F	1-1/4" BSP-F	1-1/2" BSP-F	6.5 lbs.



R1/200 R2 R3HP/450 ZKTIMAX R1503 R1510

## Industrial Regulating Valves

INDUSTRIAL REGULATORS								
MODEL	GPM	MAX PSI	LPM	BAR	INLET	OUTLET	BYPASS	SHP WGHT
R4090LP	255	3,190	965	220	Flanged Block	Flanged Block	2-1/2" BSP-F	81.5 lbs.
R4090	220	5,800	833	400	Flanged Block	Flanged Block	2-1/2" BSP-F	81.5 lbs.
YVS7250	21.0	7,250	79.5	500	1/2" BSP-F	N/A	3/8" BSP-F	3.2 lbs.
R1/200A	29.0	2,900	110	200	3/4" NPT-F	N/A	3/4" NPT-F	6.2 lbs.
R1/400A	29.0	5,800	110	400	3/4" NPT-F	N/A	3/4" NPT-F	6.2 lbs.
R1/600A	18.5	8,700	70	600	3/4" NPT-F	N/A	3/4" NPT-F	6.2 lbs.
R2	61.0	3,050	231	210	1" BSP-F	3/4" BSP-F	1-1/4" BSP-F	10.0 lbs.
R3LP/230	132.0	3,335	500	230	1-1/4" BSP-F	N/A	1-1/4" BSP-F	13.2 lbs.
R3HP/450	90.0	6,525	341	450	1" BSP-F	N/A	1" BSP-F	13.2 lbs.
R1503	7.9	21,750	30	1500	Flanged Block	1/2" BSP-F	1/2" BSP-M	14.3 lbs.
R1510	26.4	21,750	100	1500	Flanged Block	1/2" BSP-F	3/4" BSP-F	22.0 lbs.
R1520	63.4	21,750	240	1500	Flanged Block	1" BSP-F	1 1/4" BSP-M	22.0 lbs.
<b>Features manual bypass lever and automatic operation:</b>								
R2L	61.0 GPM	3,050	231	210	1" BSP-F	3/4" BSP-F	1-1/4" BSP-F	11.0 lbs.
<b>1.125" I.D. Hose Barb:</b>								
ZKTIMAX	53.0	870	201	60	3/4" BSP-F	1/2" BSP-F	1" BSP-F	4.5 lbs.



WMNV14SS WMR15SS ZKSX1 R1X RX3 YVS280SS YU2122SS

## Industrial Regulating Valves Stainless Steel

STAINLESS STEEL INDUSTRIAL REGULATING VALVES								
MODEL	GPM	MAX PSI	LPM	BAR	INLET	OUTLET	BYPASS	SHP WGHT
R1X/200A	29.0	2,900	110	200	3/4" NPT-F	N/A	3/4" NPT-F	6.2 lbs.
R1X/400A	29.0	5,800	110	400	3/4" NPT-F	N/A	3/4" NPT-F	6.2 lbs.
R1X/600A	18.5	8,700	70	600	3/4" NPT-F	N/A	3/4" NPT-F	6.2 lbs.
RX3/100	120.0	1,450	454	100	1" BSP-F	3/4" BSP-F	1-1/4" BSP-F	11.0 lbs.
RX3/300	132.0	4,350	500	300	1" BSP-F	3/4" BSP-F	1-1/4" BSP-F	11.2 lbs.
<b>316 Stainless Steel:</b>								
WMR15SS	5.5	1,500	21	103	3/8" NPT-F	3/8" NPT-F	N/A	1.0 lbs.
WMNV14SS	5.0	4,000	19	276	1/4" NPT-F	1/4" NPT-F	90 Deg. Flow Path	0.6 lbs.
YVS23SS	5.3	2,300	20	159	(2) 1/4" BSP-F	1/4" BSP-F	N/A	1.0 lbs.
ZKSX1	16.0	3,600	60.5	276	1/2" BSP-F	N/A	1/2" BSP-F	2.3 lbs.
YVS280SS	21.0	4,500	79	310	1/2" BSP-F	1/2" BSP-F	1/2" BSP-F	2.7 lbs.
YU2122SS	21.0	2,200	79	152	1/2" NPT	1/2" NPT	1/2" NPT	3.1 lbs.

# INDUSTRIAL ACCESSORIES

## Industrial Safety Relief Valves



SV2



S723



SX3

### INDUSTRIAL SAFETY RELIEF VALVES

MODEL	GPM	MAX PSI	LPM	BAR	INLET	DISCHARGE	SHP WGT
S723/100	60.8	1,450	230	100	1/2" BSP-M	Side	3.8 lbs.
S723/200	60.8	2,900	230	200	1/2" BSP-M	Side	3.8 lbs.
S723/300	60.8	4,350	230	300	1/2" BSP-M	Side	3.8 lbs.
S723/400	60.8	5,800	230	400	1/2" BSP-M	Side	3.8 lbs.
S723/500	60.8	7,250	230	500	1/2" BSP-M	Side	3.8 lbs.
S723/600	60.8	8,700	230	600	1/2" BSP-M	Side	3.8 lbs.
S723/700	60.8	10,150	230	700	1/2" BSP-M	Side	3.8 lbs.
S1520/800	63.7	11,600	241	800	1" BSP - M	Side	17.7 lbs.
S1520/1000	63.7	14,500	241	1000	1" BSP - M	Side	17.7 lbs.
S1520/1200	63.7	17,400	241	1200	1" BSP - M	Side	17.7 lbs.
S1520/1500	63.7	21,750	241	1500	1" BSP - M	Side	17.7 lbs.
S455/100	132.0	1,450	500	100	3/4" BSP-M	36 mm Hose Barb	11.7 lbs.
S455/200	132.0	2,900	500	200	3/4" BSP-M	36 mm Hose Barb	11.7 lbs.
S455/300	132.0	4,350	500	300	3/4" BSP-M	36 mm Hose Barb	11.7 lbs.
S455/400	132.0	5,800	500	400	3/4" BSP-M	36 mm Hose Barb	11.7 lbs.
S455/450	132.0	6,525	500	450	3/4" BSP-M	36 mm Hose Barb	11.7 lbs.
S4090/200	251.0	2,900	950	200	1-1/2" BSP-M	Side	44.0 lbs.
S4090/300	251.0	4,350	950	300	1-1/2" BSP-M	Side	44.0 lbs.
S4090/400	251.0	5,800	950	400	1-1/2" BSP-M	Side	44.0 lbs.
S1510/800	26.4	11,600	500	800	1/2" BSP-M	Bottom	2.5 lbs.
S1510/1000	26.4	14,500	100	1000	1/2" BSP-M	Bottom	2.5 lbs.
S1510/1100	26.4	15,950	100	1100	1/2" BSP-M	Bottom	2.5 lbs.
S1510/1250	26.4	18,125	100	1251	1/2" BSP-M	Bottom	2.5 lbs.
S1510/1500	26.4	21,750	100	1500	1/2" BSP-M	Bottom	2.5 lbs.
<b>Stainless Steel:</b>							
YVS23SS	5.3	2,300	20.0	159	1/4" BSP-F	1/4" BSP-F	0.5 lbs.
SX2/100	50.0	1,450	189	100	1/2" BSP-M	Bottom	2.5 lbs.
SX2/200	50.0	2,900	189	200	1/2" BSP-M	Bottom	2.5 lbs.
SX2/300	50.0	4,350	189	300	1/2" BSP-M	Bottom	2.5 lbs.
SX2/400	50.0	5,800	189	400	1/2" BSP-M	Bottom	2.5 lbs.
SX2/500	50.0	7,250	189	500	1/2" BSP-M	Bottom	2.5 lbs.
SX3/200	132.0	2,900	500	200	3/4" NPT-F	Bottom	2.5 lbs.
SX3/300	132.0	4350			3/4" NPT-F	Bottom	2.5 lbs.



S1503



S1510

## Industrial Safety Valves

### INDUSTRIAL SAFETY VALVES

MODEL	GPM	MIN PSI	SETTING PRESSURE PSI	LPM	SETTING BAR	*INLET	OUTLET	SHP WGT
S1503/700	2.6 to 7.9	10,150 PSI	10,150	10 to 30	700	1/2" BSP-M	14 mm Hose Barb	2.2 lbs.
S1503/800	2.6 to 7.9	10,150 PSI	11,600	10 to 30	800	1/2" BSP-M	14 mm Hose Barb	2.2 lbs.
S1503/1000	2.6 to 7.9	10,150 PSI	14,500	10 to 30	1000	1/2" BSP-M	14 mm Hose Barb	2.2 lbs.
S1503/1100	2.6 to 7.9	10,150 PSI	15,950	10 to 30	1100	1/2" BSP-M	14 mm Hose Barb	2.2 lbs.
S1503/1200	2.6 to 7.9	10,150 PSI	17,500	10 to 30	1207	1/2" BSP-M	14 mm Hose Barb	2.2 lbs.
S1503/1400	2.6 to 7.9	10,150 PSI	20,300	10 to 30	1400	1/2" BSP-M	14 mm Hose Barb	2.2 lbs.
S1503/1600	2.6 to 7.9	10,150 PSI	23,200	10 to 30	1600	1/2" BSP-M	14 mm Hose Barb	2.2 lbs.
S1503/1800	2.6 to 7.9	10,150 PSI	26,100	10 to 30	1800	1/2" BSP-M	14 mm Hose Barb	2.2 lbs.
S1510/800	5.2 to 26.4	6,960 PSI	11,600	20 to 100	800	1/2" BSP-M	25 mm Hose Barb	6.0 lbs.
S1510/1000	5.2 to 26.4	6,960 PSI	14,500	20 to 100	1000	1/2" BSP-M	25 mm Hose Barb	6.0 lbs.
S1510/1100	5.2 to 26.4	6,960 PSI	15,950	20 to 100	1100	1/2" BSP-M	25 mm Hose Barb	6.0 lbs.
S1510/1250	5.2 to 26.4	6,960 PSI	18,125	20 to 100	1250	1/2" BSP-M	25 mm Hose Barb	6.0 lbs.
S1510/1500	5.2 to 26.4	6,960 PSI	21,750	20 to 100	1500	1/2" BSP-M	25 mm Hose Barb	6.0 lbs.
S1510/1800	5.2 to 26.4	6,960 PSI	26,100	20 to 100	1800	1/2" BSP-M	25 mm Hose Barb	6.0 lbs.

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

# INDUSTRIAL ACCESSORIES



YRVPP26SS



FPN12

## Industrial Pneumatic Valves

INDUSTRIAL PNEUMATIC VALVES								
MODEL	GPM	MAX PSI	LPM	BAR	INLET	OUTLET	BYPASS	SHP WGHT
PNR/1503	7.9	21,750	30	1500	Flanged/Block	1/2" BSP - F	1/2" BSP-F	13.2 lbs.
YRVPP26SS	21.0	4,500	79	310	1/2" BSP-F	1/2" BSP-F	1/2" BSP-F	8.2 lbs.
PNRA2	61.0	3,050	231	210	1" BSP-F	3/4" BSP-F	1-1/4" BSP-M	11.0 lbs.
PNR2	61.0	3,050	231	210	1" BSP-F	3/4" BSP-F	1-1/4" BSP-M	11.0 lbs.
PNR1520	63.4	21,750	240	1500	Flanged Block	1" BSP - F	1 1/4" BSP-F	30.8 lbs.
PN4S/200	132.0	2,900	500	100	1-1/2" BSP-F	1-1/2" BSP-F	1-1/2" BSP-F	35.3 lbs.
PN4S/300	103.0	4,300	390	296	1-1/2" BSP-F	1-1/2" BSP-F	1-1/2" BSP-F	35.3 lbs.
PN4S/450	68.7	6,530	260	450	1" BSP-F	1" BSP-F	1-1/4" BSP-F	35.3 lbs.
PNR1510	24.4	21,755	100	1500				29.9 lbs.
PNR4090	255	3,190	965	220				81.5 lbs.
FPN12	21.0	21,750	79	1500	3/8" BSP-F	3/8" BSP-F	3/8" BSP-F	55.3 lbs.
<b>Features no check valve:</b>								
PN4/200NCV	132	2,900	500	100	1-1/2" BSP-F	1-1/2" BSP-F	1-1/2" BSP-F	35.3 lbs.
PN4/300NCV	103	4,350	390	300	1-1/2" BSP-F	1-1/2" BSP-F	1-1/2" BSP-F	35.3 lbs.
PN4/450NCV	68.7 GPM	6,530 PSI			1" BSP-F	1" BSP-F	1-1/4" BSP-F	35.3 lbs.



100315

## Jetter Valves

For Use in Sewer Cleaning Applications

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



UD1

## Industrial Check Valve

INDUSTRIAL CHECK VALVES								
MODEL	GPM	RATED PSI	LPM	BAR	MAX	INLET	OUTLET	SHP WGHT
UD1	48.0	75	182	5	2,900 PSI	3/4" BSP-M	3/4" BSP-M	1.5 lbs.



VP12



DFV5010

## Industrial Foot Valve

INDUSTRIAL FOOT VALVES								
MODEL	GPM	MAX PSI	LPM	BAR	INLET	OUTLET	BYPASS	SHP WGHT
VP12	21.0	21,750	79	1500	3/8" BSP-F	3/8" BSP-F	3/8" BSP-F	22.5 lbs.
DFV5010	10.0	5,000	38	345	3/8" NPT-F	1/4" NPT-F	N/A	12.0 lbs.



A4X

## Industrial Pulsation Dampeners

INDUSTRIAL PULSATION DAMPENERS							
MODEL	MATERIAL	GPM	RATED PSI	LPM	BAR	INLET	SHP WGHT
A4X *	316 Stainless Steel	16.0	3,050	60.5	210	1/2" BSP-M	7.0
A7*	Forged Steel	43.0	3,050	163	210	1/2" BSP-M	7.0
A7S*	Forged Steel	43.0	4,750	163	327.5	3/4" BSP-M	12.0
A7X*	316 Stainless Steel	43.0	2,150	163	148	3/4" BSP-M	8.5
A15*	Forged Steel	105.6	4,750	400	327.5	3/4" BSP-M	15.0
A15X*	316 Stainless Steel	105.6	2,150	400	148	3/4" BSP-M	15.0

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



# INDUSTRIAL ACCESSORIES

## HYDRO EXCAVATING NOZZLE



HXNOZ



101146

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

TRIPLE-STREAM HYDRO EXCAVATING NOZZLE

MODEL	NOZZLE 1	NOZZLE 2	NOZZLE 3	NOZZLE EQUIVALENT	FLOW - GPM/LPM						
					1000 PSI 69 BAR	1500 PSI 103 BAR	2000 PSI 138 BAR	2500 PSI 172 BAR	3000 PSI 207 BAR	3500 PSI 241 BAR	4000 PSI 276 BAR
HXNOZ											
HX212	900020SH	900010SH	900020SH	#5.0	2.50	3.06	3.54	3.95	4.33	4.68	5.00
HX222	900020SH	900020SH	900020SH	#6.0	3.00	3.67	4.24	4.74	5.20	5.61	6.00
HX232	900020SH	900030SH	900020SH	#7.0	3.50	4.29	4.95	5.53	6.06	6.55	7.00
HX323	900030SH	900020SH	900030SH	#8.0	4.00	4.90	5.66	6.32	6.93	7.48	8.00
HX333	900030SH	900030SH	900030SH	#9.0	4.50	5.51	6.36	7.12	7.79	8.42	9.00
HX343	900030SH	900040SH	900030SH	#10.0	5.00	6.12	7.07	7.91	8.66	9.35	10.00
HX434	900040SH	900030SH	900040SH	#11.0	5.50	6.74	7.78	8.70	9.53	10.29	11.00
HX444	900040SH	900040SH	900040SH	#12.0	6.00	7.35	8.49	9.49	10.39	11.22	12.00
HX454	900040SH	900050SH	900040SH	#13.0	6.50	7.96	9.19	10.28	11.26	12.16	13.00
HX545	900050SH	900040SH	900050SH	#14.0	7.00	8.57	9.90	11.07	12.12	13.10	14.00
HX555	900050SH	900050SH	900050SH	#15.0	7.50	9.19	10.61	11.86	12.99	14.03	15.00
HX565	900050SH	900060SH	900050SH	#16.0	8.00	9.80	11.31	12.65	13.86	14.97	16.00
HX656	900060SH	900050SH	900060SH	#17.0	8.50	10.41	12.02	13.44	14.72	15.90	17.00
HX666	900060SH	900060SH	900060SH	#18.0	9.00	11.02	12.73	14.23	15.59	16.84	18.00
HX676	900060SH	900070SH	900060SH	#19.0	9.50	11.64	13.44	15.02	16.45	17.77	19.00
HX767	900070SH	900060SH	900070SH	#20.0	10.00	12.25	14.14	15.81	17.32	18.71	20.00
HX777	900070SH	900070SH	900070SH	#21.0	10.50	12.86	14.85	16.60	18.19	19.64	21.00
HX787	900070SH	900080SH	900070SH	#22.0	11.00	13.47	15.56	17.39	19.05	20.58	22.00
HX878	900080SH	900070SH	900080SH	#23.0	11.50	14.08	16.26	18.18	19.92	21.51	23.00
HX888	900080SH	900080SH	900080SH	#24.0	12.00	14.70	16.97	18.97	20.78	22.45	24.00
HX898	900080SH	900090SH	900080SH	#25.0	12.50	15.31	17.68	19.76	21.65	23.39	25.00
HX989	900090SH	900080SH	900090SH	#26.0	13.00	15.92	18.38	20.55	22.52	24.32	26.00
HX999	900090SH	900090SH	900090SH	#27.0	13.50	16.53	19.09	21.35	23.38	25.26	27.00
HX9109	900090SH	900100SH	900090SH	#28.0	14.00	17.15	19.80	22.14	24.25	26.19	28.00
HX10910	900100SH	900090SH	900100SH	#29.0	14.50	17.75	20.51	22.93	25.11	27.13	29.00
HX101010	900100SH	900100SH	900100SH	#30.0	15.00	18.37	21.21	23.72	25.98	28.06	30.00

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

# INDUSTRIAL ACCESSORIES



## Industrial Spray Guns

SPRAY GUNS FOR HYDRO EXCAVATION							
MODEL	DESCRIPTION	GPM	MAX PSI	LPM	BAR	INLET	SHP WGT
DCG5010HE	Excavating spray gun	10.5	8,000	40	345	3/8" NPT-F	1.4 LBS.
YG4500S	Straight, rear-entry spray gun	10.5	4,500	40	310	3/8" NPT-F	1.3 lbs.
YG2527S	Straight, rear-entry spray gun	27.0	2,800	102	193	1/2" NPT-F	2.8 lbs.
YG4032S	Straight, rear-entry spray gun	32.0	4,050	121	279	1/2" NPT-F	2.8 lbs.



INDUSTRIAL SPRAY GUNS AND LANCE COMBINATIONS							
MODEL	DESCRIPTION	GPM	MAX PSI	LPM	BAR	INLET	SHP WGT
YG7221	Rear entry gun only	21.0	8,100	79	558	1/2" BSP-F	5.0 lbs.
YG7221/L31	YG7221 gun, with 31" lance	21.0	8,100	79	558	1/2" BSP-F	7.0 lbs.
YG7221/L51	YG7221 gun, with 48" lance	21.0	8,100	79	558	1/2" BSP-F	7.0 lbs.
YG7207	Rear entry spray gun only	7.5	8,000	28	552	3/8" NPT-F	1.6 lbs.
101002	YG7207 spray gun, with 36" stainless steel lance	7.5	8,000	28	552	3/8" NPT-F	2.6 lbs.
ZP87SS	Stainless steel professional gun only	15.85	8,700	60	600	1/2" BSP	3.5 lbs.
ZP87SSL29	ZP87SS gun, with 29" lance	15.85	8,700	60	600	1/2" BSP	4.9 lbs.
ZP87SSL39	ZP87SS gun, with 99" lance	15.85	8,700	60	600	1/2" BSP	6.1 lbs.
ZP87SSL29S	ZP87SS gun, with 29" lance and shoulder support	15.85	8,700	60	600	1/2" BSP	5.6 lbs.
ZP87SSL39S	ZP87SS gun, with 39" lance and shoulder support	15.85	8,700	60	600	1/2" BSP	7.2 lbs.
ZP15A	Gun with 29" lance	10.6	22,000	40	1517	Special	12.5 lbs.
ZP15AL10	Gun with 39" lance	10.6	22,000	40	1517	Special	12.0 lbs.
PS12	Submersible dump gun	21.0	21,750	79	1500	1/2" BSP-F	12.5 lbs.



YG26LA34

WASHDOWN GUNS/LANCE COMBINATIONS							
MODEL	DESCRIPTION	GPM	MAX PSI	LPM	BAR	INLET	SHP WGT
YG26LA34	Gun, 34" adjustable lance, #25 nozzle	21.0	2,600	79	179	1/2" NPT-F	7.0 lbs.
YG36LA37SW	Gun, 37" adjustable lance, #12 nozzle, inlet swivel	8.0	3,650	30	252	3/8" BSP-F	6.0 lbs.



## Industrial Lances

304 STAINLESS STEEL LANCES									
MODEL	LENGTH	GPM	MAX PSI	LPM	BAR	INLET	OUTLET	SHP WGT	BOX QTY
YL8SS	8"	10.5	4,050	40	279	1/4" NPT-M	1/4" NPT-M	0.5 lbs.	200
YL31SS	31"	10.5	4,050	40	279	1/4" NPT-M	1/4" NPT-M	0.7 lbs.	100
YL40SS	40"	10.5	4,050	40	279	1/4" NPT-M	1/4" NPT-M	1.0 lbs.	100
YL72SS	72"	10.5	4,050	40	279	1/4" NPT-M	1/4" NPT-M	1.8 lbs.	50
680267	36"	32.0	4,000	121	276	1/2" NPT-M	1/2" NPT-M	3.0 lbs.	N/A
680268	48"	32.0	4,000	121	276	1/2" NPT-M	1/2" NPT-M	4.0 lbs.	N/A
680269	60"	32.0	4,000	121	276	1/2" NPT-M	1/2" NPT-M	5.0 lbs.	N/A
680270	72"	32.0	4,000	121	276	1/2" NPT-M	1/2" NPT-M	6.0 lbs.	N/A
680358	96"	32.0	4,000	121	276	1/2" NPT-M	1/2" NPT-M	8.0 lbs.	N/A

# INDUSTRIAL ACCESSORIES



ZREX14025



Y5K100



YRT8720



ZRMAX112

## Industrial Rotating Nozzles



### INDUSTRIAL ROTATING NOZZLES - TUNGSTEN CARBIDE

MODEL	NOZZLE SIZE	MAX PSI	BAR	INLET	SHP WGHT
ZREX14025	#2.5	5,800	400	1/4" NPT-F	.75 lbs.
ZREX14030	#3.0	5,800	400	1/4" NPT-F	.75 lbs.
ZREX14035	#3.5	5,800	400	1/4" NPT-F	.75 lbs.
ZREX14040	#4.0	5,800	400	1/4" NPT-F	.75 lbs.
ZREX14045	#4.5	5,800	400	1/4" NPT-F	.75 lbs.
ZREX14050	#5.0	5,800	400	1/4" NPT-F	.75 lbs.
ZREX14055	#5.5	5,800	400	1/4" NPT-F	.75 lbs.
ZREX14060	#6.0	5,800	400	1/4" NPT-F	.75 lbs.
ZREX14065	#6.5	5,800	400	1/4" NPT-F	.75 lbs.
ZREX12025	#2.5	5,800	400	1/2" NPT-F	.75 lbs.
ZREX12040	#4.0	5,800	400	1/2" NPT-F	.75 lbs.
ZREX12045	#4.5	5,800	400	1/2" NPT-F	.75 lbs.
ZREX12050	#5.0	5,800	400	1/2" NPT-F	.75 lbs.
ZREX12055	#5.5	5,800	400	1/2" NPT-F	.75 lbs.
ZREX12060	#6.0	5,800	400	1/2" NPT-F	.75 lbs.
ZREX12065	#6.5	5,800	400	1/2" NPT-F	.75 lbs.
ZREX12070	#7.0	5,800	400	1/2" NPT-F	.75 lbs.
ZREX12080	#8.0	5,800	400	1/2" NPT-F	.75 lbs.
ZREX12100	#10.0	5,800	400	1/2" NPT-F	.75 lbs.

### INDUSTRIAL ROTATING NOZZLES

MODEL	NOZZLE	MAX PSI	BAR	INLET	MAX TEMP	SHP WGHT
Y5K100	#10	5,000	345	1/4" BSP-F	194° F	1.75 lbs.
Y5K120	#12	5,000	345	1/4" BSP-F	194° F	1.75 lbs.
Y5K150	#15	5,000	345	1/4" BSP-F	194° F	1.75 lbs.
Y5K200	#20	5,000	345	1/4" BSP-F	194° F	1.75 lbs.

### INDUSTRIAL TUNGSTEN CARBIDE ROTATING NOZZLES

MODEL	NOZZLE	MIN PSI	MAX PSI	BAR	INLET	MAX TEMP	SHP WGHT
YRT87K20	#02	2,600	8,700	179 / 600	1/4" BSP-F	194° F	1.2 lbs.
YRT87K30	#03	2,600	8,700	179 / 600	1/4" BSP-F	194° F	1.2 lbs.
YRT87K40	#04	2,600	8,700	179 / 600	1/4" BSP-F	194° F	1.2 lbs.
YRT87K50	#05	2,600	8,700	179 / 600	1/4" BSP-F	194° F	1.2 lbs.
YRT87K60	#06	2,600	8,700	179 / 600	1/4" BSP-F	194° F	1.2 lbs.
YRT87K70	#07	2,600	8,700	179 / 600	1/4" BSP-F	194° F	1.2 lbs.
YRT87K80	#08	2,600	8,700	179/600	1/4" BSP-F	194° F	1.2 lbs.

### INDUSTRIAL ROTATING NOZZLES

MODEL	ORIFICE	GPM	MAX PSI	LPM	BAR	INLET	MAX TEMP	SHP WGHT
ZRMAX112	1.10	2.02 to 4.74	11,000	8 to 18	758	3/8" BSP-F	176° F	2.2 lbs.
ZRMAX113	1.35	3.32 to 7.78	11,000	13 to 29	758	3/8" BSP-F	176° F	2.2 lbs.
ZRMAX114	1.55	4.44 to 10.40	11,000	17 to 39	758	3/8" BSP-F	176° F	2.2 lbs.
ZRMAX115	1.80	5.71 to 13.39	11,000	22 to 51	758	3/8" BSP-F	176° F	2.2 lbs.

## Industrial Rotating Nozzles Titanium Seat



ZRMAX2220

### INDUSTRIAL ROTATING NOZZLES - TITANIUM SEAT

MODEL	ORIFICE	GPM	INLET PSI	LPM	BAR	OUTLET	MAX TEMP	SHP WGHT
ZRMAX2220	.9	1.4 to 4.7	22,000	5 to 18	1517	M14 x 1/2"	140° F	2.64 lbs.
ZRMAX2225	1.0	1.8 to 6.0	22,000	7 to 23	1517	M14 x 1/2"	140° F	2.64 lbs.
ZRMAX2231	1.1	2.2 to 7.3	22,000	8.3 to 28	1517	M14 x 1/2"	140° F	2.64 lbs.
ZRMAX2245	1.2	2.6 to 8.6	22,000	10 to 33	1517	M14 x 1/2"	140° F	2.64 lbs.
ZRMAX2259	1.35	3.4 to 11.2	22,000	13 to 42	1517	M14 x 1/2"	140° F	2.64 lbs.

# INDUSTRIAL ACCESSORIES



## Industrial Filters

INDUSTRIAL FILTERS									
MODEL	DESCRIPTION	GPM	PSI	LPM	BAR	MESH/MICRON	INLET	OUTLET	SHF WGHT
<b>F50/80</b>	Stainless steel, two-stage	10.5	145	40	10	70/10 Mesh	1" BSP-F	1" BSP-F	12.0 lbs.
<b>F10</b>	Aluminum	26.4	435	100	30	60/250	1-1/2" BSP-F	1-1/2" BSP-F	3.5 lbs.
<b>F60</b>	Stainless steel, two-stage	52.0	145	197	10	70/25 Mesh	2" BSP-F	2" BSP-M	33.0 lbs.
<b>F20</b>	Aluminum	53.0	145	201	10	60/250	2" BSP-F	2" BSP-F	13.0 lbs.
<b>F30</b>	Plastic	53.0	116	201	8	50/297	2" BSP-M	2" BSP-M	3.8 lbs.
<b>F40</b>	Plastic	120.0	116	454	8	50/297	3" BSP-M	3" BSP-M	6.6 lbs.
<b>639830</b>	Plastic	30.0	150	114	10	50/400	1-1/2" NPT-F	1-1/2" NPT-F	2.5 lbs.
<b>639273</b>	Plastic	225.0	150	851	10	50/400	2" NPT-F	2" NPT-F	4.0 lbs.
<b>639276</b>	Plastic	500.0	150	892	10	50/400	3" NPT-F	3" NPT-F	7.0 lbs.



# MUD SERIES

## PAGE 40

GENERAL PUMP




General Pump's line of mud pumps are specifically designed to handle a wide variety of drilling fluids. The line includes four different power frames covering a wide range of flow rates up to 105 GPM and pressures up to 1300 PSI. Gearboxes and SAE hydraulic drives are available for most models.

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# INDUSTRIAL ACCESSORIES



101068



101069

## Flow Switches

INDUSTRIAL FLOW SWITCHES								
PART NUMBER	GPM	MAX PSI	LPM	BAR	MAX TEMP	INLET	OUTLET	SHP WGHT
<b>5 Amp, 250 Volts, New High Flow Flow Switch, 4 gpm minimum activation, 12" 18 AWG LEAD:</b>								
101068	10.0	4,000	38	276	180° F	1/2" NPT- F	1/2" NPT- F	1.9 lbs.
	25.0	3,000	95	207	180° F	1/2" NPT- F	1/2" NPT- F	1.9 lbs.
<b>With Weatherpack connector:</b>								
101069	10.0	4,000	38	276	180° F	1/2" NPT- F	1/2" NPT- F	1.9 lbs.
	25.0	3,000	95	207	180° F	1/2" NPT- F	1/2" NPT- F	1.9 lbs.



190601

## Industrial Accessories

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



Y25450000



Y25459000



Y25438060



Y25482000

## Tank Cleaning Nozzles

TANK CLEANING NOZZLES						
MODEL	DESCRIPTION	GPM	MAX PSI	LPM	BAR	SHP WGHT
Y25450000	M63 for small openings, 24V	4.0 to 10.5	2,000	15 to 40	138	14.0 lbs.
Y25477300	M85 electric for large openings, 24V	21.0	2,000	79	138	14.0 lbs.
Y25475000	M85 self-propelled for large openings	21.0	2,000	79	138	14.0 lbs.
Y25459000	M63 pneumatic for small openings	4.0 to 10.5	2,000	15 to 40	138	10.0 lbs.
Y25479000	M85 pneumatic for large openings	21.0	2,000	79	138	11.5 lbs.
Y25482000	A80R self-propelled <i>Request modified version when using non-rigid drop</i>	6.0 to 32.0	2,000	23 to 121	138	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	2,000	23 to 79	138	11.0 lbs.
Y25435060	M25E electric for barrel cleaning - With suction capability - 110V	6.5	2,300	25	159	9.0 lbs.
Y25438060	M28E electric for barrel cleaning - With 90° motor for small areas - With suction capability	6.5	2,300	25	159	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 DRIVE MOTORS

## FOR USE WITH 51 (TT), 53 (ETB) and 58 (EP) SERIES PUMPS, SAE TYPE "A", 2-BOLT FLANGE, 5/8" STRAIGHT SHAFT

MODEL	
637010	Salami, aluminum gear motor, 1.01 CID/17cc

## FOR USE WITH 59 (ES) SERIES PUMPS, SAE TYPE "B", 2/4-BOLT FLANGE, 7/8" STRAIGHT SHAFT

MODEL	
637012	Salami, aluminum gear motor, 1.53 CID/26cc

## FOR USE WITH 47 and 66 (TSF/TSP) SERIES PUMPS, SAE TYPE "B", 2/4-BOLT FLANGE, 7/8" STRAIGHT SHAFT

MODEL	
637018	Salami, aluminum gear motor, 1.97 CID/33cc
639664	Muncie, cast iron gear motor, 1.97 CID/33cc

## FOR USE WITH 64 and 70 SERIES PUMPS - SAE TYPE "B", 2/4-BOLT FLANGE, 7/8"-13T SPLINED SHAFT

MODEL	
637049	Salami, aluminum gear motor, 3.3 CID/54cc
637050	Salami, aluminum gear motor, 3.85 CID/63cc
637051	Salami, aluminum gear motor, 4.48 CID/73cc
637032	Muncie, cast iron gear motor, 2.92 CID/48cc
639692	Muncie, cast iron gear motor, 3.46 CID/57cc
637041	Muncie, cast iron gear motor, 4.44 CID/73cc
637045	SunFab, bent axis piston motor, 2.07 CID/34cc

## FOR USE WITH 71 AND 72 SERIES PUMPS - SAE TYPE "C", 4-BOLT FLANGE, 1-1/4"-14T SPLINED SHAFT

MODEL	
639823	Muncie, cast iron gear motor, 9.0 CID/148cc
637043	Muncie, cast iron gear motor, 10.25 CID/168cc
637046	SunFab, bent axis piston motor, 5.14 CID/84cc
637047	SunFab, bent axis piston motor, 6.59 CID/108cc

## FOR USE WITH MW, SM and MF SERIES PUMPS - SAE TYPE "C", 4-BOLT FLANGE, 1-1/4"-14T SPLINED SHAFT

MODEL	
639823	Muncie, cast iron gear motor, 9.0 CID/148cc
637042	Muncie, cast iron gear motor, 9.23 CID/152cc
637043	Muncie, cast iron gear motor, 10.25 CID/168cc
637047	SunFab, bent axis piston motor, 6.59 CID/108cc

## FOR USE WITH MK2 SERIES PUMPS

MODEL	
637047	SunFab, bent axis piston motor, 6.59 CID/108cc, SAE Type "C", 4-bolt flange, 1-1/4-14T splined shaft (2050 RPM gearbox only)
637048	SunFab, bent axis piston motor, 7.93 CID/130cc, SAE Type "D", 4-Bolt Flange, 1-1/4-14T splined shaft (1800 RPM gearbox only)

## FOR USE WITH MKS2 SERIES PUMPS

MODEL	
637047	SunFab, bent axis piston motor, 6.59 CID/108cc, SAE Type "C", 4-bolt flange, 1-1/4-14T splined shaft (2500 RPM gearbox only)
637048	SunFab, bent axis piston motor, 7.93 CID/130cc, SAE Type "D", 4-bolt flange, 1-1/4-14T splined shaft (1800 RPM gearbox only)

## FOR USE WITH KT SERIES MUD PUMPS - SAE TYPE "B", 2-BOLT FLANGE, 7/8"-13T SPLINED SHAFT

MODEL	
637052	Danfoss, orbital motor, 4.91 CID/80cc

## FOR USE WITH KF SERIES MUD PUMPS - SAE TYPE "B", 2-BOLT FLANGE, 1-1/4"-14T SPLINED SHAFT

MODEL	
637083	Danfoss, orbital motor, 9.64 CID/158cc

## FOR USE WITH KF, MF and MK2 SERIES MUD PUMPS - SAE TYPE "C", 4-BOLT FLANGE, 1-1/4"-14T SPLINED SHAFT

MODEL	
637053	Danfoss, orbital motor, 9.64 CID/158cc (1500 and 1800 RPM gearboxes only on MF Series)

## Revolution Counter



### REVOLUTION COUNTER

MODEL	
ZRPM-1	"One size fits all", adjusts for use with all GP direct hydraulic "HYD" pumps, works with both 12/24 VDC, Inductive pickup is unaffected by wet or dirty conditions

# DRIVE COMPONENTS



ZGRS1000

YGR1125P31

ZGRPTO

## Gear Reducers and Multipliers

GEAR REDUCERS AND MULTIPLIERS		
MODEL	DESCRIPTION	SHP WGHT
ZGR0750	2.4 to 1 reduction for 3/4" shafted engines, 3 to 5 HP, J609A (49 and 50 Series at 1450 RPM)	5.0 lbs.
ZGRS1000	2.2 to 1, 1" shafted engines, up to 25 HP, J609A flange, 47 and 66 Series pumps	9.5 lbs.
ZGRS1125	2.2 to 1, 1-1/8" shafted engines, up to 25 HP, J609A flange, 47 and 66 Series pumps	9.5 lbs.
YGR0750	2.3 to 1 reduction, 3/4" shafted engines, 3 to 5 HP, J609A (49 and 50 Series at 1450 RPM)	4.0 lbs.
YGR1000	2.2 to 1 reduction, dual bearings, 1" shafted engines, 11 to 18 HP, J609B (47 Series at 1450 RPM)	6.0 lbs.
YGR1000P	2.2 to 1 reduction, dual bearings, 1" shafted engines, 11 to 24 HP, J609B (47 and 66 Series at 1450 RPM)	6.0 lbs.
YGR1125	2.2 to 1 reduction, 1-1/8" shaft, dual bearings, 11 to 18 HP, J609F (47 Series at 1450 RPM)	6.0 lbs.
YGR1125P	2.2 to 1 reduction, dual bearings, 1-1/8" shafted engines, 11 to 24 HP, J609B (47 and 66 Series at 1450 RPM)	6.0 lbs.
YGR1125P31	2.2 to 1 reduction, dual bearings, 1-1/8" shafted engines, 20 to 31 HP, J609B (47 and 66 Series at 1450 RPM)	6.0 lbs.
ZGRPTO	1 to 1.9 multiplier, 540 RPM PTO, 1-3/8" spline shaft, up to 10 HP pumps (47 and 66 Series)	9.5 lbs.



ZGL100

ZG184TC

ZGG47SB

## Flex Couplers

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.
ZGH47SB	Couplers, SAE Type "B", 7/8" straight shaft (for 59, 47, 66 Series pumps)	1.5 lbs.
637034	Hydraulic coupler, SAE Type "B", 30 mm pump hub and 13T splined motor hub	1.5 lbs.
ZGH71SCB	Hydraulic coupler, SAE-C-1-1/4" parallel, 40 mm pump hub and 1-1/4" motor hub, blue insert, 46 HP max (For 70 and 71 Series pumps)	1.5 lbs.
ZGH71SCT	Hydraulic coupler, SAE-C-1-1/4" parallel, 40 mm pump hub and 1-1/4" motor hub, black insert, 46 HP+ (For 70 and 71 Series pumps)	1.5 lbs.
ZGH71SCR	Hydraulic coupler, SAE-C-1-1/4" parallel, 40 mm pump hub and 1-1/4" motor hub, red insert, 25 HP max (For 70 and 71 Series pumps)	1.5 lbs.
ZGH71SC14TB	Hydraulic coupler, SAE-C-14T 12/24DP, 40 mm pump hub and splined 14 tooth 12/24 motor hub, blue insert, 46 HP max (For 70 and 71 Series pumps)	1.5 lbs.
ZGH71SC14TT	Hydraulic coupler, SAE-C-14T 12/24DP, 40 mm pump hub and splined 14 Tooth 12/24 motor hub, black insert, 46 HP + (For 70 and 71 Series pumps)	1.5 lbs.
ZGH71SC14TR	Hydraulic coupler, SAE-C-14T 12/24DP, 40 mm pump hub and splined 14 tooth 12/24 motor hub, red insert, 25 HP max (For 70 and 71 Series pumps)	1.5 lbs.
ZGH71SC14TS	Hydraulic coupler, SAE-C-14T 12/24DP, features snap ring and groove for tach pickup (For 70 and 71 Series pumps)	1.5 lbs.



ZF184

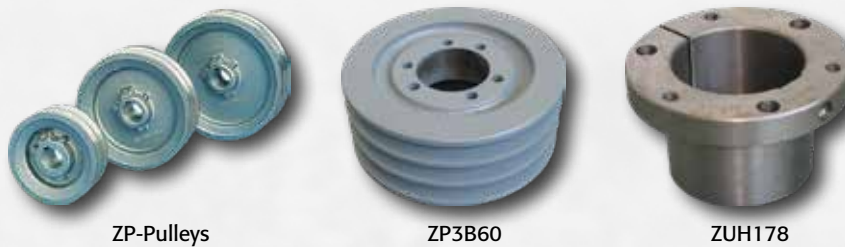
## Flanges

FLANGES - ENSURE PUMP & MOTOR RPMs MATCH WHEN SELECTING		
MODEL	DESCRIPTION	SHP WGHT
ZF151	For IEC112 electric motors (for 48, 48, 59, 66 Series pumps)	3.5 lbs.
ZF184N	For NEMA-C electric motors 184TC frame, use with ZG184TC coupler (for 44, 53, 58, 81 Series pumps)	3.5 lbs.
ZF184	For NEMA-C electric motors 184TC frame, 3 and 5 HP (Series 50 pumps)	3.0 lbs.
ZF213215	For NEMA-C electric motors, 213TC, 215 TC and 184TC frames, 5 and 7-1/2 HP (for 47, 48, 59, 66 Series pumps)	4.0 lbs.
ZF213215SS	For NEMA-C electric motors, 213TC, 215 TC and 184TC frames, 5 and 7-1/2 HP (for 47, 48, 59, 66 Series pumps), SS	4.0 lbs.
ZF56145	For NEMA-C electric motors, 56HC, 145TC and 184C frames, 1-1/2 and 2 HP (for 44, 51, 53, 58, 59, 60, 81, 82, 83 Series pumps)	1.5 lbs.
ZF56145EX	For NEMA C electric motors. Kit includes ZF56145, 63909 and 20025 M6 x 25 mm bolts for use with 44, 53, 58, 83 Series pumps	
ZFH47SB	Hydraulic flange, SAE-B (47, 66 Series), call GP Sales for more information	
ZFH70SB	Hydraulic flange, SAE-B (70 Series), call GP Sales for more information	6.0 lbs.
ZFH71SC	Hydraulic flange SAE-C (71, 72 Series), call GP Sales for more information	6.0 lbs.



# DRIVE COMPONENTS

## Pulleys



ZP-Pulleys

ZP3B60

ZUH178

PULLEYS		
MODEL	DESCRIPTION	SHP WGHT
ZP100	3.94 in. / 100 mm, 2 groove, A section, aluminum	1.0 lbs.
ZP140	5.51 in. / 140 mm, 2 groove, A section, aluminum	1.4 lbs.
ZP160	6.30 in. / 160 mm, 2 groove, A section, aluminum	1.8 lbs.
190225	Pulley and rail kit (includes 639015 and (2) 540014)	1.5 lbs.
639015	1 groove, B section, aluminum, 8" outer diameter, 24 mm hub	1.5 lbs.
ZP4140	4 groove, B section, aluminum, 32 mm	
ZP3B136	Pulley, 13.95 OD, 3 groove, SK (can be used in the CW1541 to HTCK4050S conversion)	
ZP3B60	Pulley, 6.35 OD, 3 groove, SD (can be used in the CE1541 to HTCK4050S conversion)	

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

## Clutches



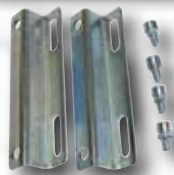
100687

100976

101046

CLUTCHES		
MODEL	DESCRIPTION	SHP WGHT
100687	12 volt double "A" groove clutch adapter kit for 47 and ES/ESN Series pumps	11.0 lbs.
100688	12 volt double "A" groove clutch adapter kit for 44, 50, 63, ET and EP Series pumps	11.0 lbs.
100717	12 volt single "A" groove clutch adapter kit for 47 and ES/ESN Series pumps	11.0 lbs.
100718	12 volt single "A" groove clutch adapter kit for 44, 50, 63, ET and EP Series pumps	11.0 lbs.
100719	24 volt double "A" groove clutch adapter kit for 47 and ES/ESN Series pumps	11.0 lbs.
100720	24 volt double "A" groove clutch adapter kit for 44, 50, 63, ET and EP Series pumps	11.0 lbs.
100172	12 volt double "A" groove clutch adapter kit for 47, 66 and ES/ESN Series pumps, no pulley	25.0 lbs.
100976	12 volt double "B" groove clutch adapter kit for 47, 66 and ES/ESN Series pumps, 12.4" pulley	31.0 lbs.
101046	12 volt double "B" groove clutch adapter kit for 47, 59, 66 and ES/ESN Series pumps, 9-3/4" pulley	33.5 lbs.
100977	12 volt single "B" groove clutch adapter kit for 47, 66 and ES/ESN Series pumps, 12.4" pulley	24.0 lbs.
C7030	12 volt clutch kit for 70 Series pumps,	
C7030L	12 volt clutch kit for 70 Series pumps, left hand	
100163	Clutch assembly tool for 7" clutch	11.0 lbs.

## Rail Kits



ZKRAIL138

PUMP FEET OPTIONS		
MODEL	DESCRIPTION	SHP WGHT
ZKRAIL078	Kit, rails, 7/8", 44, 63 Series, small	2.0 lbs.
ZKRAIL138	Kit, rails, 1-3/8", 47, 66 Series, large	2.0 lbs.
ZKRAIL258	Kit, rails, 2-5/8", 47, 66 Series, tall	2.0 lbs.
101112	Kit, rails for Emperor Platinum Pumps	2.0 lbs.
HT125RCK	Converts HTCK 70 Series pumps	2.0 lbs.
HT125CW	Converts CW pumps	2.0 lbs.
HT150RCK	Converts HTCK 71 Series pumps to Cat 3535	2.0 lbs.
HT150CWL	Converts HTCK 71 Series pumps to CW1541 - long pump stand	2.0 lbs.
HT150CWS	Converts HTCK 71 Series pumps CW1541 - short pump stand	2.0 lbs.
ZFEETEVO	Kit, rails, feet fasteners for EP, ET, ES Series pumps	2.0 lbs.
101156	Kit, rails, 3", 64 Series	

# DRIVE COMPONENTS



100295



100552

## Oil

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	25.0 lbs.
100553	BULK PACKAGED: Series 100 oil, (2) 2-1/2 gallons	50.0 lbs.
100219	BULK PACKAGED: Series 100 oil, 15 gallon plastic drum	117.0 lbs.

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	7.0 lbs.
100217	BULK PACKAGED: Series 220 industrial oil, 5 gallons	50.0 lbs.

SERIES 8090 OIL (80/90 GEAR LUBE)		
MODEL	DESCRIPTION	SHP WGHT
100734	Series 8090 oil, 2-1/2 gallons	25.0 lbs.
100735	BULK PACKAGED: Series 8090 oil (2) 2-1/2 gallons (twin pack)	50.0 lbs.

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.
800052	Industrial packing lubricant, 12 oz. tube	0.75 lbs.



Oil Drain Kit

## Oil Drain Kits

OIL DRAIN KITS		
MODEL	DESCRIPTION	SHP WGHT
190446	Oil drain kit, 1/4" for Series 60, 63, 47, 44, 50, 60, ET, ES, EP Series pumps	1.5 lbs.
190447	Oil drain kit, 3/8", for Series 69, 70, 76, 77 Series pumps	1.5 lbs.
190448	Oil drain kit, 1/2", for Series 71, 72, 73 Series pumps	1.5 lbs.

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

# TRAPPED PRESSURE UNLOADERS



## PULSAR4 TRAPPED PRESSURE UNLOADERS

MODEL	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	OUTLET	BYPASS	MAX TEMP	SHW WTGHT
<b>Lower pressure unloader, white spring</b>										
PULSAR4LP	10.5	2,300	2,600	40	159/179	(2) 3/8" NPT-F	3/8" NPT-F	(2) 3/8" NPT-F	195° F	1.5 lbs.
PULSAR4KLP	10.5	2,300	2,600	40	159/179	(2) 3/8" NPT-F	3/8" NPT-F	(2) 3/8" NPT-F	195° F	1.6 lbs.
<b>High pressure unloader, blue spring</b>										
PULSAR4HP	10.5	4,050	4,500	40	279/310	(2) 3/8" NPT-F	3/8" NPT-F	(2) 3/8" NPT-F	195° F	1.6 lbs.
PULSAR4KHP	10.5	4,050	4,500	40	279/310	(2) 3/8" NPT-F	3/8" NPT-F	(2) 3/8" NPT-F	195° F	1.7 lbs.
ZH284	10.5	4,060	4,060	40	280	3/8" NPT-F	3/8" NPT-F	(2) 3/8" NPT-F	194° F	2.9 lbs.
ZH284K	10.5	4,060	4,060	40	280	3/8" NPT-F	3/8" NPT-F	(2) 3/8" NPT-F	194° F	2.9 lbs.
ZH224	10.5	2,300	2,300	40	159	3/8" NPT-F	3/8" NPT-F	(2) 3/8" NPT-F	194° F	2.9 lbs.
ZH224K	10.5	2,300	2,300	40	159	3/8" NPT-F	3/8" NPT-F	(2) 3/8" NPT-F	194° F	2.9 lbs.
<b>With stainless steel check valve</b>										
PULSAR4KHPS	10.5	4,050	4,500	40	279/310	(2) 3/8" NPT-F	3/8" NPT-F	(2) 3/8" NPT-F	195° F	1.6 lbs.
<b>With EZ start and knob</b>										
PULSAR4KHPEZ	10.5	4,050	4,500	40	279/310	(2) 3/8" NPT-F	3/8" NPT-F	(2) 3/8" NPT-F	195° F	1.7 lbs.
ZH284KEZ	10.5	4,050	4,050	40	280	3/8" NPT-F	3/8" NPT-F	(2) 3/8" NPT-F	194° F	2.87 lbs.
<b>With microswitch - 16A resistive load, 6A inductive load</b>										
PULSAR4KHPMS	10.5	4,050	4,500	40	279/310	3/8" NPT-F	3/8" NPT-F	(2) 3/8" NPT-F	195° F	2.0 lbs.
PULSAR4KLPMS	10.5	2,300	2,600	40	159/179	3/8" NPT-F	3/8" NPT-F	(2) 3/8" NPT-F	195° F	2.0 lbs.
YUKNOB	Pressure Adjusting Knob Kit for PULSAR4 Unloaders									0.1 lbs.



## TRAPPED PRESSURE UNLOADERS - NO CHECK VALVES

MODEL	GPM	MAX PSI	LPM	BAR	INLET	OUTLET	BYPASS	MAX TEMP	SHW WTGHT
YVB3KA/NCV	6.5	3,650	25	252	3/8" NPT - M	3/8" NPT - M	3/8" NPT - F	195° F	1.0 lbs.
PLSR4HVNCV	10.5	4,050	40	279	(2) 3/8" NPT-F	3/8" NPT-F	3/8" NPT-F	195° F	1.6 lbs.
PLSR4LVNCV	10.5	2,600	40	179	(2) 3/8" NPT-F	3/8" NPT-F	3/8" NPT-F	194° F	1.6 lbs.
YU2158NCV	21.0	6,500	79	448	(2) 1/2" NPT-F	1/2" NPT-F	1/2" NPT-F	200° F	4.0 lbs.
YUB21405NCV	21.0	4,050	79	279	(2) 1/2" NPT-F	(2) 1/2" NPT-F	1/2" NPT-F	200° F	3.1 lbs.



## TRAPPED PRESSURE UNLOADERS

MODEL	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	OUTLET	BYPASS	MAX TEMP	SHW WTGHT
<b>Yellow spring</b>										
YU21235	21.0	2,300	2,600	79	159/179	(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	2,300	2,600	79	159/179	(2) 1/2" NPT-F	1/2" NPT-F	1/2" NPT-F	200° F	3.1 lbs.
ZH168	21.0	2,320	2,320	79	160	(2) 1/2" NPT-F	1/2" NPT-F	1/2" NPT-F	185° F	2.8 lbs.
<b>Green spring</b>										
YU21405	21.0	4,050	4,500	79	279/310	(2) 1/2" NPT-F	1/2" NPT-F	(2) 1/2" NPT-F	200° F	3.1 lbs.
<b>Green spring (features stainless steel outlet/bypass fittings)</b>										
YU21405S	21.0	4,050	4,500	79	279/310	(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	4,050	4,500	79	279/310	(2) 1/2" NPT-F	1/2" NPT-F	1/2" NPT-F	200° F	3.1 lbs.
ZH288	21.0	4,000	4,000	79	276	(2) 1/2" NPT-F	1/2" NPT-F	1/2" NPT-F	185° F	2.8 lbs.
<b>Hi-flow</b>										
YU5221	53.0	2,200	2,450	201	152/169	1" NPT-F	1" NPT-F	1" NPT-F	200° F	4.5 lbs.
ZH2820	52.8	4,500	4,500	200	310	1" NPT-F	1" NPT-F	1" NPT-F	185° F	4.4 lbs.
ZH1520	52.0	2,175	2,175	197	150	1" NPT-F	1" NPT-F	1" NPT-F	185° F	4.5 lbs.
<b>303 stainless steel</b>										
YU2158	21.0	5,800	6,500	79	400/448	(2) 1/2" NPT-F	1/2" NPT-F	1/2" NPT-F	200° F	4.0 lbs.
YU5821	21.0	5,800	6,400	79	400/441	1/2" BSP - F	1/2" BSP - F	1/2" BSP - F	194° F	2.2 lbs.
YU7221	21.0	7,250	8,000	79	500/552	1/2" BSP - F	1/2" BSP - F	1/2" BSP - F	194° F	2.3 lbs.
<b>316 stainless steel w/ Viton</b>										
YU2122SS	21.0	2,200	2,500	79	152/172	1/2" NPT	1/2" NPT	1/2" NPT	194° F	3.1 lbs.
<b>High temperature brass</b>										
YVB4021HT	21.0	4,050	4,500	79	279/310	1/2" NPT - F	1/2" NPT - F	1/2" NPT - F	195° F	2.4 lbs.
YVB5121HT	21.0	5,100	5,650	79	352/390	1/2" NPT - F	1/2" NPT - F	1/2" NPT - F	195° F	2.4 lbs.

# TRAPPED PRESSURE UNLOADERS



YVB5K



YVB9K



YVB9KMS2



YU4050K



YU5075K



YVB3K

## ADJUSTABLE TRAPPED PRESSURE UNLOADERS

MODEL	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	OUTLET	BYPASS	MAX TEMP	SHW WT
YVB7K	8.0	3,200	3,650	30	221/252	3/8" NPT-M	3/8" NPT-F	3/8" NPT-F	195° F	1.2 lbs.
<b>Includes panel mount feature</b>										
Y60225000	8.0	3,200	3,650	30	221/252	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	3,200	3,650	30	221/252	3/8" BSP-M	3/8" BSP-F	3/8" BSP-F	195° F	2.0 lbs.
<b>Includes 10 amp microswitch</b>										
YVB8KMS10	8.0	3,200	3,650	30	221/252	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	3,200	3,650	30	221/252	3/8" BSP-F	3/8" BSP-F	(2)3/8" BSP-F	195° F	2.0 lbs.
<b>Includes panel mount feature, 5 amp microswitch and stainless steel check valve</b>										
YVB9KMS5	8.0	3,200	3,650	30	221/252	3/8" BSP-F	1/2" BSP-M	3/8" BSP-F	195° F	2.0 lbs.
<b>High pressure unloaders with knob (YU4050K-black, YU5075K-red)</b>										
YU4050K	10.0	4,050	4,500	38	279/310	3/8" BSP-M	3/8" BSP-F	1/2" BSP-F	195° F	2.0 lbs.
YU5075K	10.0	5,075	5,650	38	350/390	3/8" BSP-M	3/8" BSP-F	1/2" BSP-F	195° F	2.0 lbs.
YU5075KS	10.0	5,075	5,650	38	350/390	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	5,075	5,650	38	350/390	3/8" BSP-M	3/8" BSP-F	3/8" BSP-F	195° F	2.0 lbs.
<b>Premium pressure - compensating unloader w/min-max setting, stainless steel check valve and brass knob</b>										
YU5075KMM	10.0	5,075	5,650	38	350/390	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	3,200	3,650	25	221/252	3/8" BSP-M	3/8" BSP-M	3/8" BSP-F	195° F	1.0 lbs.
YVB3KA	6.5	3,200	3,650	25	221/252	3/8" NPT-M	3/8" NPT-M	3/8" NPT-F	195° F	1.0 lbs.
YVB3KTT	6.5	3,200	3,650	25	221/252	1/4" NPT-M	3/8" NPT-M	3/8" NPT-F	195° F	1.0 lbs.
<b>Unloader with knob and 1.8, 2.1 or 2.3 mm injector</b>										
YVB3KTTI18	6.5	3,200	3,650	25	221/252	1/4" NPT-M	3/8" NPT-M	3/8" NPT-F	195° F	1.25 lbs.
YVB3KTTI21	6.5	3,200	3,650	25	221/252	1/4" NPT-M	3/8" NPT-M	3/8" NPT-F	195° F	1.25 lbs.
YVB3KTTI23	6.5	3,200	3,650	25	221/252	1/4" NPT-M	3/8" NPT-M	3/8" NPT-F	195° F	1.25 lbs.



ZKHM



ZK4010



ZK5813

## TRAPPED PRESSURE UNLOADERS

MODEL	GPM	MAX PSI	LPM	BAR	INLET	OUTLET	BYPASS	MAX TEMP	SHW WT
2100242	8.0	4,000	30	276	(2) 3/8" NPT	3/8" NPT	(2) 3/8" NPT	195° F	2.0lbs.
ZKHM	10.8	3,000	41	207	3/8" BSP-F	1/4 BSP-F & 3/8" BSP-M	(2) 3/8" BSP-F	185° F	2.5lbs.
ZKHM1 (no knob)	10.8	3,000	41	207	3/8" BSP-F	1/4 BSP-F & 3/8" BSP-M	(2) 3/8" BSP-F	185° F	2.5lbs.
ZK4010	2.11 to 10.5	4,000	8 to 40	276	3/8" BSP-F	3/8" BSP-M	(2) 3/8" BSP-M	185° F	2.3 lbs.
ZK5813	2.11 to 13.2	5,800	8 to 50	400	1/2" BSP-F	1/2" BSP-M	(2) 1/2" BSP-M	185° F	6.2 lbs.



YU3678



YU3678MS

## MODIFIED PRESSURE UNLOADERS

MODEL	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	OUTLET	BYPASS	MAX TEMP	SHW WT
<b>Includes panel mount feature</b>										
YU3678	8.0	3,200	3,650	30	221/252	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	3,200	3,650	30	221/252	3/8" NPT-F	3/8" NPT-F	3/8" NPT-F	195° F	2.5 lbs.

# CONTROL SET UNLOADERS



ZKW1



ZKW21



YVB135KDM



YVB75KDM



YVB55KDM



YU4050KDM

## DIRECT MOUNT, CONTROL SET UNLOADERS

MODEL	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	OUTLET	HOSE BARB	MAX TEMP	SHW WT
<b>Direct mount unloader with chemical gauge, pressure gauge and filter</b>										
ZOKR1	2.1	1,000	1,000	8	69	1/2" NPT-M	M22	1/4"	165° F	2.0 lbs.
<b>Direct mount unloader with 2 mm injector</b>										
ZKW1	3.0	1,600	1,600	11	110	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	1,600	1,600	11	110	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	3,000	3,000	10	207	1/2" BSP-F	3/8" BSP-M	1/4"	165° F	2.0 lbs.
ZKW340	4.0	3,000	3,000	15	207	1/2" BSP-F	3/8" BSP-M	1/4"	165° F	2.0 lbs.
ZKW355	5.5	3,000	3,000	21	207	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	3,000	3,000	17	207	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	3,000	3,000	17	207	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	3,000	3,000	23	207	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	3,000	3,000	23	207	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	3,000	3,000	17	207	1/2" BSP-F	3/8" BSP-M	1/4"	200° F	2.0 lbs.
190043	ZKW2SC With Banjo Fittings									2.0 lbs.

## DIRECT MOUNT, CONTROL SET UNLOADERS FOR TT/TP SERIES 51 PUMP

MODEL	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	OUTLET	INJECTOR	MAX TEMP	SHW WT	BOX QTY
YVB135KDM	6.5	2,300	2,600	25	159/179	3/8" BSP-F	3/8" BSP-M	N/A	195° F	1.5 lbs.	24
YVB135KDMI18	6.5	2,300	2,600	25	159/179	3/8" BSP-F	3/8" BSP-M	1.8 mm	195° F	1.8 lbs.	20
YVB135KDMI21	6.5	2,300	2,600	25	159/179	3/8" BSP-F	3/8" BSP-M	2.1 mm	195° F	1.8 lbs.	20
YVB351KDM	6.5	3,200	3,650	25	221/252	3/8" BSP-F	3/8" BSP-M	N/A	195° F	1.8 lbs.	24
YVB351KDMI18	6.5	3,200	3,650	25	221/252	3/8" BSP-F	3/8" BSP-M	1.8	195° F	1.9 lbs.	20
YVB351KDMI21	6.5	3,200	3,650	25	221/252	3/8" BSP-F	3/8" BSP-M	2.1	195° F	1.9 lbs.	20
YVB75KTPF21	8.0	3,200	3,650	30	221/252	3/8" BSP-F	3/8" BSP-M	2.1 mm	195° F	2.1 lbs.	20

## DIRECT MOUNT, CONTROL SET UNLOADERS FOR EZ, 47, 60 AND 63 SERIES PUMPS

MODEL	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	OUTLET	HOSE BARB	INJECTOR	MAX TEMP	SHW WT	BOX QTY
YVB35KDM	6.5	3,200	3,650	25	221/252	1/2" BSP-F	3/8" BSP-M	N/A	N/A	195° F	1.5 lbs.	24
YVB35KDMI18	6.5	3,200	3,650	25	221/252	1/2" BSP-F	3/8" BSP-M	1/4"	1.8 mm	195° F	1.8 lbs.	20
YVB35KDMI21	6.5	3,200	3,650	25	221/252	1/2" BSP-F	3/8" BSP-M	1/4"	2.1 mm	195° F	1.8 lbs.	20
YVB56KDM	8.0	3,200	3,650	30	221/252	1/2" BSP-F	3/8" BSP-F	N/A	N/A	195° F	2.5 lbs.	20
YVB56KDMI21	8.0	3,200	3,650	30	221/252	1/2" BSP-F	3/8" BSP-F	1/4"	2.1 mm	195° F	2.1 lbs.	20
YVB75KDMN	7.8	3,200	3,650	29.5	221/252	1/2" BSP-F	3/8" BSP-F	N/A	N/A	195° F	1.8 lbs.	20
YVB75KDMN21	7.8	3,200	3,650	29.5	221/252	1/2" BSP-F	3/8" BSP-F	1/4"	2.1 mm	195° F	2.1 lbs.	20
<b>ES, EZ Series only:</b>												
YU4050KDM	10.5	4,050	4,500	40	279/310	1/2" BSP-F	3/8" BSP-F	N/A	N/A	195° F	3.0 lbs.	10

## DIRECT MOUNT, CONTROL SET UNLOADERS FOR EP SERIES PUMPS

MODEL	GPM	RATED	MAX	LPM	BAR	INLET	OUTLET	HOSE BARB	INJECTOR	MAX TEMP	SHW WT	BOX QTY
YVB35KDME	6.5	3,200	3,650	25	221/252	1/2" BSP-F	3/8" BSP-F	N/A	N/A	195° F	1.5 lbs.	24
YVB35KDMEI21	6.5	3,200	3,650	25	221/252	1/2" BSP-F	3/8" BSP-F	N/A	N/A	195° F	1.5 lbs.	24

# FLOW SENSITIVE UNLOADERS



ZK1



ZK3



ZK50



ZK7



ZK9

FLOW SENSITIVE UNLOADERS										
MODEL	GPM	MAX PSI	LPM	BAR	INLET	OUTLET	BYPASS	MAX TEMP	SHP WGHT	BOX QTY
ZK1	2.3 to 10.8	3,600	9 to 41	248	3/8" BSP-F	1/2" BSP-M	1/2" BSP-M	165° F	2.3 lbs.	10
ZK138	2.3 to 10.8	3,600	9 to 41	248	3/8" BSP-F	3/8" BSP-M	1/2" BSP-M	165° F	2.3 lbs.	10
ZK30	2.1 to 3.0	1,500	8 to 11	103	3/8" BSP-F	3/8" BSP-M	3/4" BSP-M or 1/2" BSP-F	165° F	2.0 lbs.	10
ZK31	3.0 to 4.2	1,500	11 to 16	103	3/8" BSP-F	3/8" BSP-M	3/4" BSP-M or 1/2" BSP-F	165° F	2.0 lbs.	10
ZK32	4.2 to 5.5	1,500	16 to 21	103	3/8" BSP-F	3/8" BSP-M	3/4" BSP-M or 1/2" BSP-F	165° F	2.0 lbs.	10
ZK33	5.0 to 6.0	1,500	19 to 23	103	3/8" BSP-F	3/8" BSP-M	3/4" BSP-M or 1/2" BSP-F	165° F	2.0 lbs.	10
ZK50	2.1 to 3.0	3,000	8 to 11	207	3/8" BSP-F	3/8" BSP-M	3/4" BSP-M or 1/2" BSP-F	165° F	2.5 lbs.	10
ZK51	3.0 to 4.2	3,000	11 to 16	207	3/8" BSP-F	3/8" BSP-M	3/4" BSP-M or 1/2" BSP-F	165° F	2.5 lbs.	10
ZK52	4.2 to 6.6	3,000	16 to 25	207	3/8" BSP-F	3/8" BSP-M	3/4" BSP-M or 1/2" BSP-F	165° F	2.5 lbs.	10
ZK53	6.6 to 10.8	3,000	25 to 41	207	3/8" BSP-F	3/8" BSP-M	3/4" BSP-M or 1/2" BSP-F	165° F	2.5 lbs.	10
ZK70 (GPV)	2.1 to 3.0	3,500	8 to 11	241	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	3,500	11 to 16	241	3/8" BSP-F	3/8" BSP-M	3/8" BSP-F	165° F	5.0 lbs.	5
ZK72 (GPV)	4.2 to 6.6	3,500	16 to 25	241	3/8" BSP-F	3/8" BSP-M	3/8" BSP-F	165° F	5.0 lbs.	5
ZK73 (GPV)	6.6 to 10.8	3,500	25 to 41	241	3/8" BSP-F	3/8" BSP-M	3/8" BSP-F	165° F	5.0 lbs.	5
ZK9	2.5 to 13.2	5,800	9 to 50	400	1/2" BSP-F	1/2" BSP-M	1/2" BSP-F	165° F	11.0 lbs.	1
<b>ZK72 unloader with #1 bypass orifice:</b>										
190009	4.2 to 6.6	3,500	16 to 25	241	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	3,500	11 to 16	241	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	3,500	25 to 41	241	3/8" BSP-F	3/8" BSP-M	3/8" BSP-F	165° F	5.0 lbs.	5



PLSRZ523



PLSRZ523MS



PULSARZ



PULSARZMS



PLSRZ2140



PLSRZ2140MS

FLOW SENSITIVE UNLOADERS										
MODEL	GPM	MAX PSI	LPM	BAR	INLET	OUTLET	BYPASS	MAX TEMP	SHP WGHT	BOX QTY
PLSRZ523*	2.1 to 5.3	2,300	8 to 20	159	3/8" BSP-F	3/8" BSP-F	N/A	195° F	1.5 lbs.	15
<b>303 stainless steel:</b>										
PLSRZ36SS	2.4 - 16	3,600	9 to 61	248	1/2" BSP-F	1/2" BSP-F	1/2" BSP-F	195° F	4.6 lbs.	
PLSRZ87SS	2.4 - 16	8,700	9 to 61	600	1/2" BSP-F	1/2" BSP-F	1/2" BSP-F	195° F	4.6 lbs.	
<b>With 6 amp microswitch:</b>										
PLSRZ523MS*	2.1 to 5.3	2,300	8 to 20	159	3/8" BSP-F	3/8" BSP-F	N/A	195° F	1.7 lbs.	15
PULSARZ*	2.4 to 10.5	4,000	9 to 40	276	3/8" NPT-F	3/8" NPT-F	(2) 3/8" NPT-F	195° F	2.5 lbs.	12
190465	PULSARZ As Above, With 3.5 and 4.5 Orifice									
<b>With 6 amp microswitch:</b>										
PULSARZMS*	2.4 to 10.5	3,650	9 to 40	252	3/8" NPT-F	(2) 3/8" NPT-F	N/A	195° F	2.5 lbs.	12
PLSRZ2140*	5.3 to 21.0	4,050	20 to 79	279	1/2" BSP-F	1/2" BSP-F	1/2" BSP-F	195° F	3.8 lbs.	4
<b>With 6 amp microswitch:</b>										
PLSRZ2140MS*	5.3 to 21.0	4,050	20 to 79	279	1/2" BSP-F	1/2" BSP-F	N/A	195° F	4.0 lbs.	4

\*PULSARZ is patented

# BALANCED RELIEF & REGULATING VALVES

## Balanced Relief Valves



YBRV624D



YBRV624



YBRV5325

### BALANCED RELIEF VALVES

MODEL	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	BYPASS	MAX TEMP	SHW WT	BOX QTY
YBRV624	6.3	2,200	2,450	24	152/169	3/8" BSP-F	3/8" BSP-F	195° F	0.8 lbs.	40
YBRV624D	6.3	2,200	2,450	24	152/169	(2) 3/8" BSP-F	3/8" BSP-F	195° F	1.0 lbs.	40
YBRV631	6.3	3,200	3,650	24	221/252	3/8" BSP-F	3/8" BSP-F	195° F	0.8 lbs.	40
YBRV631D	6.3	3,200	3,650	24	221/252	(2) 3/8" BSP-F	3/8" BSP-F	195° F	1.0 lbs.	40
100268	6.3	300	N/A	24	21	(2) 3/8" BSP-F	3/8" BSP-F	195° F	1.0 lbs.	40
100269	6.3	300	N/A	24	21	3/8" BSP-F	3/8" BSP-F	195° F	0.8 lbs.	40
YBRV5325	53.0	2,600	2,900	201	179/200	3/4" BSP-F	1/2" BSP-F	195° F	2.0 lbs.	4

## Regulating Valves



YVRP15W



YVS5100B



YVB4021HT



ZKSX1

### REGULATING VALVES - GREAT FOR MULTIPLE GUN APPLICATIONS

MODEL	GPM	RATED PSI	LPM	BAR	INLET	OUTLET	BYPASS	MAX TEMP	SHW WT	BOX QTY
YVRP15W	7.9	1,450	30	100	3/8" NPT-F	3/8" NPT-F	N/A	195° F	1.3 lbs.	25
YVRP32B	7.9	3,200	30	221	3/8" NPT-F	3/8" NPT-F	N/A	195° F	1.3 lbs.	25
ZKSX1	16.0	3,600	60.5	248	1/2" BSP-F	N/A	1/2" BSP-F	195° F	2.3 lbs.	1
YVS5100B	6.5	5,600	25	386	3/8" BSP-F	3/8" BSP-F	3/8" BSP-F	195° F	1.0 lbs.	25
YVB4021HT	21.0	4,050	79	279	1/2" NPT-F	1/2" NPT-F	1/2" NPT-F	195° F	2.5 lbs.	1
YVB5121HT	21.0	5,550	79	383	1/2" NPT-F	1/2" NPT-F	1/2" NPT-F	195° F	2.5 lbs.	1

## Regulating Valves



WMR15SS



100892



100998



100999



YR5221

### REGULATORS

MODEL	DESCRIPTION	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	OUTLET	BYPASS	MAX TEMP	SHW WT
WMR15SS	Stainless Steel	5.5	1,500	N/A	21	103	3/8" NPT-F	3/8" NPT-F	N/A	195° F	1.0 lbs.
100892	Nickel Plated	5.0	2,000	N/A	19	138	3/8" NPT-F	N/A	1/4" NPT-F	220° F	1.4 lbs.
100998	Stainless Steel	13.0	1,000	N/A	49	69	3/8" NPT-F	N/A	1/2" NPT-F	190° F	2.0 lbs.
100999	Stainless Steel	13.0	2,000	N/A	49	138	3/8" NPT-F	N/A	1/2" NPT-F	190° F	2.0 lbs.
YR5221	Brass (No CV)	53.0	2,200	2,450	201	152	1" NPT-F	1" NPT-F	1" NPT-F	200° F	4.5 lbs.

# SAFETY RELIEF VALVES



100722



100534



YRV2063



ZKS3



ZKSR

## COLD WATER SAFETY RELIEF VALVES

MODEL	GPM	MIN PSI	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	SHP WGHT
ZKSR	1.3 to 10.0	N/A	3,000	5 to 38	207	3/8" BSP-M	1/4" BSP-F	165° F	1.5 lbs.
<b>Side discharge with hose barb (*available preset, see below):</b>									
100724	6.0	2,000	6,000	23	414	1/4" NPT	Side w/ 1/4" Barb	150° F	1.0 lbs.
100723	6.0	2,000	6,000	23	414	3/8" NPT	Side w/ 1/4" Barb	150° F	1.0 lbs.
100722	6.0	2,000	6,000	23	414	1/2" NPT	Side w/ 1/4" Barb	150° F	1.0 lbs.
100611	6.0	800	3,000	23	207	1/4" NPT	Side w/ 1/4" Barb	150° F	1.0 lbs.
100799	6.0	800	3,000	23	207	3/8" NPT	Side w/ 1/4" Barb	150° F	1.0 lbs.
100980	6.0	800	3,000	23	207	1/2" NPT	Side w/ 1/4" Barb	150° F	1.0 lbs.
<b>Side discharge without hose barb (*available preset, see below):</b>									
100725	6.0	2,000	6,000	23	414	1/4" NPT	Side	150° F	1.0 lbs.
100726	6.0	2,000	6,000	23	414	3/8" NPT	Side	150° F	1.0 lbs.
100727	6.0	2,000	6,000	23	414	1/2" NPT	Side	150° F	1.0 lbs.
100798	6.0	800	3,000	23	207	3/8" NPT	Side	150° F	1.0 lbs.
100963	6.0	800	3,000	23	207	3/8" NPT	Side	150° F	1.0 lbs.
<b>End discharge (*available preset, see below):</b>									
100728	6.0	2,000	6,000	23	414	1/4" NPT	End	150° F	1.0 lbs.
100534	6.0	2,000	6,000	23	414	3/8" NPT	End	150° F	1.0 lbs.
100729	6.0	2,000	6,000	23	414	1/2" NPT	End	150° F	1.0 lbs.
100547	6.0	2,000	6,000	23	414	3/8" NPT	End 1/8" F	150° F	1.0 lbs.
100609	6.0	800	3,000	23	207	1/4" NPT	End	150° F	1.0 lbs.
100797	6.0	800	3,000	23	207	3/8" NPT	End	150° F	1.0 lbs.
100962	6.0	800	3,000	23	207	1/2" NPT	End	150° F	1.0 lbs.
101136	6.0	2,000	6,000	23	414	3/8" BSP	End	150° F	1.0 lbs.
101148	6.0	2,000	6,000	23	414	1/4" BSP	End	150° F	1.0 lbs.
101152	6.0	2,000	6,000	23	414	1/8" BSP	End	150° F	1.0 lbs.
<b>316 stainless steel:</b>									
100993	6.0	N/A	3,500	23	241	3/8" NPT-M	End 1/4" F	150° F	0.5 lbs.
101070	6.0	N/A	6,000	23	414	3/8" NPT-M	End 1/4" F	150° F	0.5 lbs.
YRV2063	6.3	N/A	2,000	24	138	3/8" NPT-M	Side	150° F	1.5 lbs.
YRV3463	6.3	N/A	3,500	24	241	3/8" NPT-M	Side	150° F	1.5 lbs.
ZKS3	2.6 to 26.4	N/A	10,000	10 to 100	6900	1/2" BSP-M	Side	284° F	2.0 lbs.

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



100972

## HOT WATER SAFETY RELIEF VALVES - 303 STAINLESS

MODEL	GPM	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	SHP WGHT
100981*	2.0 to 4.0	4,500	8 to 15	310	3/8" NPT-M	Side w/ 3/8" Barb	284° F	0.5 lbs.
100971*	3.0 to 7.0	4,500	11 to 26	310	3/8" NPT-M	Side w/ 3/8" Barb	284° F	0.5 lbs.
100982*	6.0 to 12.0	4,500	23 to 45	310	3/8" NPT-M	Side w/ 3/8" Barb	284° F	0.5 lbs.
100983*	2.0 to 4.0	4,500	8 to 15	310	1/2" NPT-M	Side w/ 3/8" Barb	284° F	0.5 lbs.
100972*	3.0 to 7.0	4,500	11 to 26	310	1/2" NPT-M	Side w/ 3/8" Barb	284° F	0.5 lbs.
100984*	6.0 to 12.0	4,500	23 to 45	310	1/2" NPT-M	Side w/ 3/8" Barb	284° F	0.5 lbs.

**\*Stainless steel seat and ball**

**All sizes are available preset, see below.**

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



# MISCELLANEOUS VALVES

## Ball Valves



DBV501238

DBV501212

BALL VALVES								
MODEL	MAX FLOW	MAX FLOW	LPM	BAR	INLET	OUTLET	MAX TEMP	SHP WGHT
DBV501238	12.0	5,000	45	345	3/8" NPT-F	3/8" NPT-F	180° F	1.1 lbs.
DBV501212	12.0	5,000	45	345	1/2" NPT-F	1/2" NPT-F	180° F	1.4 lbs.

## Pump Thermal Protectors



100558

100156

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



100512

2100612

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



100324

100543

100970

## Easy Start Valves

EASY START VALVES								
MODEL	GPM	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	SHP WGHT
YESTVALVE	7.8	4,050	29.5	279	3/8" NPT-M	1/4" Hose Barb	176° F	0.25 lbs.
YESTVALVE14	7.8	4,050	29.5	279	1/4" BSP-M	1/4" Hose Barb	176° F	0.25 lbs.
<b>Provides easy start for manual start gas engines:</b>								
100323	8.0	5,000	30	345	3/8" NPT-M	1/4" Hose Barb	195° F	0.25 lbs.
100324	8.0	5,000	30	345	1/4" NPT-M	1/4" Hose Barb	195° F	0.25 lbs.
100543	8.0	5,000	30	345	1/4" NPT-M	1/8" NPT-F	195° F	0.25 lbs.
100544	8.0	5,000	30	345	3/8" NPT-M	1/8" NPT-F	195° F	0.25 lbs.
<b>Stainless steel seat and ball</b>								
100970	8.0	5,000	30	345	3/8" NPT-M	1/4" Hose Barb	195° F	0.25 lbs.

# MISCELLANEOUS VALVES

Y29092015



## Steam Valves

STEAM VALVES										
MODEL	GPM	RATED PSI	MAX PSI	LPM	BAR	PANEL FITTING	INLET	OUTLET	MAX TEMP	SHW WTGHT
Y29092008	2.3	3,650	4,050	9	252/279	3/4"	1/4" BSP-M	1/4" BSP-M	175° F	0.3 lbs.
Y29092012	3.4	3,650	4,050	13	252/279	3/4"	1/4" BSP-M	1/4" BSP-M	175° F	0.3 lbs.
Y29092015	4.0	3,650	4,050	15	252/279	3/4"	1/4" BSP-M	1/4" BSP-M	175° F	0.3 lbs.



## Bleeder Valves

BLEEDER VALVES									
MODEL	GPM	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	SHW WTGHT	
100326	8.0	5,000	30	345	3/8" NPT-M	1/8" Hose Barb	195° F	0.25 lbs.	
100546	8.0	5,000	30	345	3/8" NPT-M	1/8" NPT-F	195° F	0.25 lbs.	
<b>Provides easy start function for electric start gas engines:</b>									
100730	8.0	5,000	30	345	1/2" NPT-M	1/8" NPT-F	195° F	0.25 lbs.	
100684	8.0	5,000	30	345	3/8" NPT-M	1/8" Hose Barb	195° F	0.25 lbs.	



## Check Valves

CHECK VALVES									
MODEL	DESCRIPTION	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	MAX TEMP	SHW WTGHT
YCV14FB	Brass	6.5	2,200	2,300	25	152/159	1/4" BSP-F	195° F	0.5 lbs.
YCV14FSS	303 stainless steel	6.5	5,800	6,500	25	400/448	1/4" BSP-F	195° F	0.5 lbs.
YCV38FB	Brass	10.5	2,200	2,300	40	152/159	3/8" BSP-F	195° F	0.5 lbs.
YCV38FSS	303 stainless steel	10.5	5,800	6,500	40	400/448	3/8" BSP-F	195° F	0.5 lbs.
YCV12FB	Brass	21.0	2,200	2,300	79	152/159	1/2" BSP-F	195° F	0.5 lbs.
YCV12FSS	303 stainless steel	21.0	5,800	6,500	79	400/448	1/2" BSP-F	195° F	0.5 lbs.
YCV34FB	Brass	47.6	2,200	2,300	180	152/159	3/4" BSP-F	195° F	0.5 lbs.
YCV34FSS	303 stainless steel	47.6	5,800	6,500	180	400/448	3/4" BSP-F	195° F	0.5 lbs.
YCVHD34FB	Brass	37.0	4,000	4,500	140	276/310	3/4" BSP-F	195° F	1.9 lbs.
YCVHD1FB	Brass	53.0	4,000	4,500	201	276/310	1" BSP-F	195° F	3.0 lbs.



## Needle Valves

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

MODEL	GPM	MAX PSI	LPM	BAR	INLET	OUTLET	ADJUSTMENT	MAX TEMP	SHW WTGHT
<b>Metering needle valves - adjustable SS stem allows regulating the opening in the bore for fine control of flow:</b>									
WMNV14SS	5.0	4,000	19	276	1/4" NPT-F	1/4" NPT-F	N/A	150° F	0.3 lbs.
100814	6.0	4,000	23	276	1/4" NPT-F	1/4" NPT-F	N/A	190° F	0.3 lbs.
100838	6.0	4,000	23	276	1/4" NPT-F	1/4" NPT-F	Side	190° F	0.4 lbs.
100865	6.0	4,000	23	276	1/4" NPT-F	1/4" NPT-F	Bottom	190° F	0.4 lbs.
<b>Twin inlet (dual) chemical metering valve:</b>									
YRD6	.26	7.3	1	0.5				140°	.2 lbs.



YPCV823 & YPCV3240

## Pneumatic Control Valves

PNEUMATIC CONTROL VALVES									
MODEL	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	SHW WTGHT
YPCV823	8.0	2,300	2,550	30	159/176	1/4" BSP-F	1/4" BSP-F	195° F	1.2 lbs.
YPCV2175	21.0	7,250	8,000	79	500/552	1/2" BSP-F	1/2" BSP-F	195° F	5.8 lbs.
YPCV3240	32.0	4,050	4,500	121	279/310	3/4" BSP-F	3/4" BSP-F	195° F	5.0 lbs.

# INJECTORS

## Adjustable Chemical Injectors Brass



ZROBO1B



YAINJ18E

### ADJUSTABLE CHEMICAL INJECTORS - BRASS

MODEL	ORIFICE	GPM	RATED PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	HOSE BARB	SHW WT	BOX QTY
<b>Chemical Injectors with Brass Knob:</b>											
ZROBO0B	2.0mm/.078"	2.1 to 2.9	3,200	8 to 11	221	3/8" BSP-M	3/8" BSP-M	210° F	1/4"	0.8 lbs.	25
ZROBO1B	2.2mm/.086"	2.9 to 4.0	3,200	11 to 15	221	3/8" BSP-M	3/8" BSP-M	210° F	1/4"	0.8 lbs.	25
ZROBO2B	2.5mm/.098"	4.0 to 5.6	3,200	15 to 21	221	3/8" BSP-M	3/8" BSP-M	210° F	1/4"	0.8 lbs.	25
ZROBO3B	2.75mm/.108"	6.6 to 10.8	3,200	15 to 41	221	3/8" BSP-M	3/8" BSP-M	210° F	1/4"	0.8 lbs.	25
<b>EPDM O-Ring:</b>											
YAINJ18E	1.8mm/.070"	2.0 to 2.6	4,000	8 to 11	276	3/8" NPT-M	3/8" NPT-M	195° F	1/4"	0.4 lbs.	N/A
YAINJ21E	2.1mm/.082"	2.6 to 4.0	4,000	10 to 15	276	3/8" NPT-M	3/8" NPT-M	195° F	1/4"	0.4 lbs.	N/A
YAINJ23E	2.3mm/.090"	4.0 to 5.3	4,000	15 to 20	276	3/8" NPT-M	3/8" NPT-M	195° F	1/4"	0.4 lbs.	N/A

## Adjustable Chemical Injectors Standard



100823

### ADJUSTABLE CHEMICAL INJECTORS - BRASS

MODEL	ORIFICE	GPM	RATED PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	HOSE BARB	SHW WT	BOX QTY
100823	1.5mm/.059"	1.0 to 2.0	4,000	4 to 8	276	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25
100824	1.8mm/.070"	2.0 to 3.0	4,000	8 to 11	276	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25
100825	2.1mm/.082"	3.0 to 5.0	4,000	11 to 19	276	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25
100826	2.3mm/.090"	5.0 to 8.0	4,000	19 to 30	276	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25

## Adjustable Chemical Injectors 304 Stainless Steel



100861

### ADJUSTABLE CHEMICAL INJECTORS - STAINLESS STEEL

MODEL	ORIFICE	GPM	RATED PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	HOSE BARB	SHW WT	BOX QTY
100861	1.8mm/.070"	2.0 to 3.0	5,500	8 to 11	379	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.5 lbs.	25
100862	2.1mm/.082"	3.0 to 5.0	5,500	11 to 19	379	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.5 lbs.	25
100863	2.3mm/.090"	5.0 to 8.0	5,500	19 to 30	379	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.5 lbs.	25

## Adjustable Chemical Injectors High Draw



100810

### ADJUSTABLE CHEMICAL INJECTORS - HIGH DRAW - CHEMICAL DRAW UP TO 20%

MODEL	ORIFICE	GPM	RATED PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	HOSE BARB	SHW WT	BOX QTY
100810	1.5mm/.059"	1.0 to 2.0	4,500	4 to 8	310	3/8" NPT-M	3/8" NPT-M	195° F	1/4"	0.3 lbs.	25
100811	1.8mm/.070"	2.0 to 3.0	4,500	8 to 11	310	3/8" NPT-M	3/8" NPT-M	195° F	1/4"	0.3 lbs.	25
100812	2.1mm/.082"	3.0 to 5.0	4,500	11 to 19	310	3/8" NPT-M	3/8" NPT-M	195° F	1/4"	0.3 lbs.	25
100813	2.3mm/.090"	5.0 to 8.0	4,500	19 to 30	310	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	1.5mm/.059"	1.0 to 2.0	4,500	4 to 8	310	3/8" NPT-M	3/8" NPT-M	195° F	1/4"	0.3 lbs.	25
100828	1.8mm/.070"	2.0 to 3.0	4,500	8 to 11	310	3/8" NPT-M	3/8" NPT-M	195° F	1/4"	0.3 lbs.	25
100829	2.1mm/.082"	3.0 to 5.0	4,500	11 to 19	310	3/8" NPT-M	3/8" NPT-M	195° F	1/4"	0.3 lbs.	25
100830	2.3mm/.090"	5.0 to 8.0	4,500	19 to 30	310	3/8" NPT-M	3/8" NPT-M	195° F	1/4"	0.3 lbs.	25
<b>High Draw Chemical Injectors - Dual Port:</b>											
100785	2.1mm/.082"	3.0 to 5.0	4,500	19 to 30	310	3/8" NPT-M	3/8" NPT-M	195° F	(2) 1/4"	0.4 lbs.	25
100786	2.3mm/.090"	3.0 to 5.0	4,500	19 to 30	310	3/8" NPT-M	3/8" NPT-M	195° F	(2) 1/4"	0.4 lbs.	25

# INJECTORS



100618



100575

## Quick Connect Adjustable Chemical Injectors - Brass

QUICK CONNECT ADJUSTABLE CHEMICAL INJECTORS - BRASS											
MODEL	ORIFICE	GPM	RATED PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	HOSE BARB	SHW WT	BOX QTY
100575	1.8 mm/.070"	2.0 to 3.0	3,500	8 to 11	241	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25
100576	2.1 mm/.082"	3.0 to 5.0	3,500	11 to 19	241	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25
100577	2.3 mm/.090"	5.0 to 8.0	3,500	19 to 30	241	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25
100617	1.8 mm/.070"	2.0 to 3.0	3,500	8 to 11	241	3/8" F Coupler	3/8" M Plug	190° F	1/4"	0.4 lbs.	25
100618	2.1 mm/.082"	3.0 to 5.0	3,500	11 to 19	241	3/8" F Coupler	3/8" M Plug	190° F	1/4"	0.4 lbs.	25
100619	2.3 mm/.090"	5.0 to 8.0	3,500	19 to 30	241	3/8" F Coupler	3/8" M Plug	190° F	1/4"	0.4 lbs.	25



100654



100634

## Quick Connect Adjustable Chemical Injectors - Stainless Steel Plug

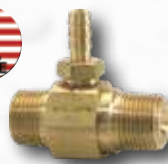
QUICK CONNECT ADJUSTABLE CHEMICAL INJECTORS - STAINLESS STEEL PLUG											
MODEL	ORIFICE	GPM	RATED PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	HOSE BARB	SHW WT	BOX QTY
100633	1.8 mm/.070"	2.0 to 3.0	3,500	8 to 11	241	3/8" F Coupler	3/8" M Plug	190° F	1/4"	0.4 lbs.	25
100634	2.1 mm/.082"	3.0 to 5.0	3,500	11 to 19	241	3/8" F Coupler	3/8" M Plug	190° F	1/4"	0.4 lbs.	25
100635	2.3 mm/.090"	5.0 to 8.0	3,500	19 to 30	241	3/8" F Coupler	3/8" M Plug	190° F	1/4"	0.4 lbs.	25
100653	1.8 mm/.070"	2.0 to 3.0	3,500	8 to 11	241	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25
100654	2.1 mm/.082"	3.0 to 5.0	3,500	11 to 19	241	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25
100655	2.3 mm/.090"	5.0 to 8.0	3,500	19 to 30	241	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25



100764

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

QUICK CONNECT ADJUSTABLE CHEMICAL INJECTORS - STAINLESS STEEL PLUG & COLLAR											
MODEL	ORIFICE	GPM	RATED PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	HOSE BARB	SHW WT	BOX QTY
100763	1.8 mm/.070"	2.0 to 3.0	4,500	8 to 11	310	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25
100764	2.1 mm/.082"	3.0 to 5.0	4,500	11 to 19	310	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25
100765	2.3 mm/.090"	5.0 to 8.0	4,500	19 to 30	310	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25



100821

## Fixed Chemical Injectors - Standard

FIXED CHEMICAL INJECTORS - STANDARD											
MODEL	ORIFICE	GPM	RATED PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	HOSE BARB	SHW WT	BOX QTY
100819	1.5 mm/.059"	1.0 to 2.0	4,250	4 to 8	293	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25
100820	1.8 mm/.070"	2.0 to 3.0	4,250	8 to 11	293	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25
100821	2.1 mm/.082"	3.0 to 5.0	4,250	11 to 19	293	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25
100822	2.3 mm/.090"	5.0 to 8.0	4,250	19 to 30	293	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25

# INJECTORS

## Chemical Injectors

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



100336RD



100094WT



100835OR



101010DG



100334GY



100339LG



100333BL



100781

REPAIR KITS AVAILABLE

COLOR CODED KYNAR BARBS NEW SPECIAL ELASOMERS, CERAMIC BALL, HASTELOY SPRING. REPAIRABLE!

MODEL	ORIFICE	GPM	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WGHT
100336RD	1.45 mm	1.0 to 2.0	5,500	8	379	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100094WT	1.6 mm	2.0 to 3.0	5,500	11	379	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100835OR	1.8 mm	2.0 to 3.0	5,500	11	379	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100334GY	2.1 mm	2.0 to 4.0	5,500	15	379	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100333BL	2.2 mm	3.0 to 5.0	5,500	19	379	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100339LG	2.3 mm	5.0 to 8.0	5,500	30	379	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4 lbs.
100541GY	2.1 mm	3.0 to 5.0	5,500	19	379	3/8" NPT-M	3/8" NPT-M	190° F	1/4" (2)	0.4 lbs.
101010DG	3.2 mm	8.0 to 10.0	5,500		379	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.4lbs.
100781	<i>Metering Tips</i>									

## Fixed Chemical Injectors - High Draw



101153



100775



100790

FIXED CHEMICAL INJECTORS - HIGH DRAW - CHEMICAL DRAW UP TO 20%

MODEL	ORIFICE	GPM	RATED PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WGHT	BOX QTY
100773	1.5 mm/.059"	1.0 to 2.0	4,500	4 to 8	310	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25
100774	1.8 mm/.070"	2.0 to 3.0	4,500	8 to 11	310	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25
100775	2.1 mm/.082"	3.0 to 5.0	4,500	11 to 19	310	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25
100776	2.3 mm/.090"	5.0 to 8.0	4,500	19 to 30	310	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25
101153	2.5 mm/.098"	5.0 to 8.0	4,500	19 to 30	310	1/2" NPT-M	1/2" NPT-M	190° F	1/4"	0.4 lbs.	25
101154	2.3 mm/.090"	5.0 to 8.0	4,500	19 to 30	310	1/2" NPT-M	1/2" NPT-M	190° F	1/4"	0.4 lbs.	25
101155	2.1 mm/.082"	3.0 to 5.0	4,500	11 to 19	310	1/2" NPT-M	1/2" NPT-M	190° F	1/4"	0.4 lbs.	25

High draw fixed chemical injectors with acid kit:

100947	1.5 mm/.059"	1.0 to 2.0	4,500	4 to 8	310	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25
100948	1.8 mm/.070"	2.0 to 3.0	4,500	8 to 11	310	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25
100949	2.1 mm/.082"	3.0 to 5.0	4,500	11 to 19	310	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25
100950	2.3 mm/.090"	5.0 to 8.0	4,500	19 to 30	310	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25

High draw dual port chemical injectors:

100790	2.1 mm/.082"	3.0 to 5.0	4,500	11 to 19	310	3/8" NPT-M	3/8" NPT-M	190° F	(2) 1/4"	0.4 lbs.	25
100791	2.3 mm/.090"	5.0 to 8.0	4,500	19 to 30	310	3/8" NPT-M	3/8" NPT-M	190° F	(2) 1/4"	0.4 lbs.	25

## Fixed Chemical Injectors - High Draw - SS



100873

FIXED CHEMICAL INJECTORS - HIGH DRAW - CHEMICAL DRAW UP TO 20%

MODEL	ORIFICE	GPM	RATED PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WGHT	BOX QTY
100873	1.8 mm/.070"	2.0 to 3.0	5,000	8 to 11	345	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25
100874	2.1 mm/.082"	3.0 to 5.0	5,000	11 to 19	345	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25
100875	2.2 mm/.086"	5.0 to 8.0	5,000	19 to 30	345	3/8" NPT-M	3/8" NPT-M	190° F	1/4"	0.3 lbs.	25

## Quick Connect Fixed Chemical Injectors - Brass



100594



100570

QUICK CONNECT FIXED CHEMICAL INJECTORS - BRASS

MODEL	ORIFICE	GPM	RATED PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WGHT	BOX QTY
100570	1.8 mm/.070"	1.0 to 3.0	3,500	4 to 11	241	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25
100571	2.1 mm/.082"	3.0 to 5.0	3,500	11 to 19	241	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25
100572	2.3 mm/.090"	5.0 to 8.0	3,500	19 to 30	241	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25
100594	1.8 mm/.070"	1.0 to 3.0	3,500	4 to 11	241	3/8" F Coupler	3/8" M Plug	190° F	1/4"	0.4 lbs.	25
100595	2.1 mm/.082"	3.0 to 5.0	3,500	11 to 19	241	3/8" F Coupler	3/8" M Plug	190° F	1/4"	0.4 lbs.	25
100616	2.3 mm/.090"	5.0 to 8.0	3,500	19 to 30	241	3/8" F Coupler	3/8" M Plug	190° F	1/4"	0.4 lbs.	25

# INJECTORS



## Quick Connect Fixed Chemical Injectors - Stainless Steel Plug

QUICK CONNECT FIXED CHEMICAL INJECTORS - STAINLESS STEEL PLUG											
MODEL	ORIFICE	GPM	RATED PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	HOSE BARB	SHP WGHT	BOX QTY
100690	1.5 mm/.059"	1.0 to 2.0	3,500	4 to 8	241	3/8" F Coupler	3/8" M Plug	190° F	1/4"	0.4 lbs.	25
100630	1.8 mm/.070"	2.0 to 3.0	3,500	8 to 11	241	3/8" F Coupler	3/8" M Plug	190° F	1/4"	0.4 lbs.	25
100631	2.1 mm/.082"	3.0 to 5.0	3,500	11 to 19	241	3/8" F Coupler	3/8" M Plug	190° F	1/4"	0.4 lbs.	25
100632	2.3 mm/.090"	5.0 to 8.0	3,500	19 to 30	241	3/8" F Coupler	3/8" M Plug	190° F	1/4"	0.4 lbs.	25
100636	1.8 mm/.070"	2.0 to 3.0	3,500	8 to 11	241	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25
100637	2.1 mm/.082"	3.0 to 5.0	3,500	11 to 19	241	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25
100638	2.3 mm/.090"	5.0 to 8.0	3,500	19 to 30	241	3/8" M Plug	3/8" F Coupler	190° F	1/4"	0.4 lbs.	25



## Chemical Valves

CHEMICAL VALVES									
MODEL	DESCRIPTION	GPM	RATED PSI	LPM	BAR	CONNECTIONS	MAX TEMP	HOSE BARB	SHP WGHT
Y29094500	Straight	2.6	400	10	26	1/4" BSP-M	105° F	1/4"	0.5 lbs.
Y29095400	90° Elbow	2.6	400	10	26	1/4" BSP-M	105° F	1/4"	0.4 lbs.



## Chemical Valves

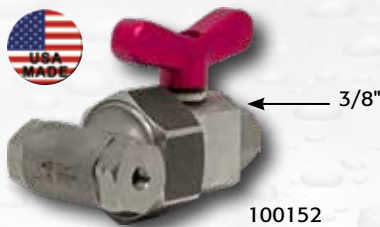
HIGH PRESSURE SOAP SHOOTER - Attaches to a QC on Lance or Extension Wand. Can Shoot soap up to 3 Stories!	
MODEL	NOZZLE SIZE
<b>Includes 30 Foot Hose, Filter and Nozzle:</b>	
100169	Includes 30 foot hose, filter and #3.5 stainless steel nozzle. 1/4" QC-M, 5,000 PSI MAX.
100145	Includes 30 foot hose, 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



ADAPTER FITTINGS FOR 100906		
PUMP SERIES	FITTING (3/8" NPT-M)	VALVE
60 (TC, HTC)	520275	103036
47 and 50 (T, TT, TS, HTS)	520274	103035
53 (ET, ETB)	101158 (COMPLETE KIT)	
58 (EP)	520273	103036
59 (ES, ESN)	520273	103036
44 (EZ)	520273	103036
63 (TX, HTXS)	520273	103036
66 (TSF, HTF)	520276	103090
310/3CP/5CP (Cat)	520282	N/A
5CP3, 5CPS (Cat)	520292	N/A
5CP6 (Cat)	520343	N/A

PULSE PUMP									
MODEL	GPM	RATED PSI	LPM	BAR	PULSE PUMP PORT INLET	WATER INLET	OUTLET	MAX TEMP	SHW WGHT
100906	0.75	1,500	3	103	1/4" NPT-F	1/8" NPT-F	1/8" NPT-F	190° F	1.5 lbs.



ADAPTER FITTINGS FOR 100152		
PUMP SERIES	FITTING (3/8" NPT-M)	VALVE
60 (TC, HTC)	520275	103036
47 and 50 (T, TT, TS, HTS)	520274	103035
53 (ET, ETB)	101158 (COMPLETE KIT)	
58 (EP)	520273	103036
59 (ES, ESN)	520273	103036
44 (EZ)	520273	103036
63 (TX, HTXS)	520273	103036
66 (TSF, HTF)	520276	103090
310/3CP/5CP (Cat)	520282	N/A
5CP3, 5CPS (Cat)	520292	N/A
5CP6 (Cat)	520343	N/A

PULSE PUMP with BALL VALVE - 3,000 PSI WHEN BALL VALVE IS ENGAGED									
MODEL	GPM	RATED PSI	LPM	BAR	PULSE PUMP PORT INLET	WATER INLET	OUTLET	MAX TEMP	SHW WGHT
100152	0.75	1,500*	3	103	3/8" NPT-F	1/8" NPT-F	1/8" NPT-F	190° F	1.5 lbs.



ADAPTER FITTINGS FOR 101067		
PUMP SERIES	FITTING (3/8" NPT-M)	VALVE
60 (TC)	520275	103036
53 (ET, ETB)	101158 (COMPLETE KIT)	
58 (EP)	520273	103036
59 (ES, ESN)	520273	103036
44 (EZ)	520273	103036
63 (TX)	520273	103036
47 (HTS)	520396	103035
		103035
66 (TSF)	520276	103090
310/3CP/5CP2 (Cat)	520282	N/A
5CP3/5CP5 (Cat)	520292	N/A
5CP6 (Cat)	520343	N/A

NEW! HIGH PRESSURE PULSE PUMP									
MODEL	GPM	MAX PSI	LPM	BAR	PULSE PUMP PORT INLET	WATER INLET	OUTLET	MAX TEMP	SHW WGHT
101067	See Note Below*	3,000	See Below	207	3/8" NPT-F	1/8" NPT-F	1/8" NPT-F	190° F	2.0 lbs.

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

# SPRAY GUNS



ZGP11



YRL20

## Front Entry Spray Guns

### FRONT ENTRY SPRAY GUNS

MODEL	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	SHP WGHT
YRL20	8.0	2,900	3,200	30	200/221	3/8" NPT-F	1/4" NPT-F	320° F	0.8 lbs.
ZGP11	10.5	3,000	3,000	40	207	3/8" BSP-F	1/4" BSP-F	285° F	1.2 lbs.



DGE5010SL



DG5010



YG4500S



YRL2640W



DGE4012NT



2100457

## Rear Entry Spray Guns



YG4000



YG5000



DGE4012



DCG5010



DGE5010



DCG5010HE



DCG5010SO



YRL56

### REAR ENTRY SPRAY GUNS

MODEL	DESCRIPTION	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	SHP WGHT	BOX QTY
YG4500ST	Straight, ss inlet	10.5	4,500	5,000	40	310/345	3/8" NPT-F	1/4" NPT-F	320° F	1.2 lbs.	20
DG5000S	Straight	10.5	5,000	5,000	40	345	3/8" NPT-F	1/4" NPT-F	300° F	1.2 lbs.	20
YRL2640	Standard	8.0	3,650	4,050	30	252/279	3/8" NPT-F	1/4" NPT-F	320° F	1.0 lbs.	20
YRL2640W	Weep seat	8.0	3,650	4,050	30	252/279	3/8" NPT-F	1/4" NPT-F	320° F	1.0 lbs.	20
YG5000	Standard	10.0	5,000	5,000	38	345	3/8" NPT-F	1/4" NPT-F	320° F	1.2 lbs.	20
YG5000W	Weep seat	10.0	5,000	5,000	38	345	3/8" NPT-F	1/4" NPT-F	320° F	1.2 lbs.	20
YG2527S	Straight	27.0	2,500	2,800	102	172/193	1/2" NPT-F	1/2" NPT-F	210° F	2.8 lbs.	1
YG4032S	Straight	32.0	4,050	4,500	121	279	1/2" NPT-F	1/2" NPT-F	210° F	2.8 lbs.	1
<b>Chlorine Applications:</b>											
YG4500S	Straight	10.5	4,500	5,000	40	310/345	3/8" NPT-F	1/4" NPT-F	320° F	1.2 lbs.	20
YG4500SW	Straight/weep	10.5	4,500	5,000	40	310/345	3/8" NPT-F	1/4" NPT-F	320° F	1.2 lbs.	20
YG4500STC	Ceramic ball and SS I/O	10.5	4,500	5,000	40	310/345	3/8" NPT-F	1/4" NPT-F	320° F	1.2 lbs.	20
YG4010	Standard	10.5	4,500	5,000	40	310/345	3/8" NPT-F	1/4" NPT-F	320° F	1.2 lbs.	15
YG4010SW	Swivel	10.5	4,500	5,000	40	310/345	3/8" BSP-F	1/4" BSP-F	320° F	1.2 lbs.	11
YG4000	Standard	10.5	4,500	5,000	40	310/345	3/8" NPT-F	1/4" NPT-F	320° F	1.8 lbs.	40
YG4000WN	Weep seat	10.5	4,500	5,000	40	279	3/8" NPT-F	1/4" NPT-F	320° F	1.8 lbs.	40
DG4000	Standard	8.0	4,000	4,000	30	276	3/8" NPT-F	1/4" NPT-F	320° F	1.1 lbs.	20
DG4000W	Weep seat	8.0	4,000	4,000	30	276	3/8" NPT-F	1/4" NPT-F	320° F	1.1 lbs.	20
DGE4012NT	No trigger	12.0	4,000	4,000	45	276	3/8" NPT-F	1/4" NPT-F	320° F	1.0 lbs.	20
DGE4012W	Weep seat	12.0	4,000	4,000	45	276	3/8" NPT-F	1/4" NPT-F	320° F	1.4 lbs.	20
DGE4012	Standard	12.0	4,000	4,000	45	276	3/8" NPT-F	1/4" NPT-F	320° F	1.3 lbs.	20
DG5010	Standard	10.0	5,000	5,000	38	345	3/8" NPT-F	1/4" NPT-F	320° F	1.4 lbs.	20
DG5010W	Weep seat	10.0	5,000	5,000	38	345	3/8" NPT-F	1/4" NPT-F	320° F	1.4 lbs.	20
DGE5010	Standard	10.5	5,000	5,000	40	345	3/8" NPT-F	1/4" NPT-F	300° F	1.4 lbs.	20
DGE5010SL	Locking trigger	10.5	5,000	5,000	40	345	3/8" NPT-F	1/4" NPT-F	300° F	1.4 lbs.	20
2100457	Locking, dual trigger	10.5	5,000	5,000	40	345	3/8" NPT-F	1/4" NPT-F	250° F	1.4 lbs.	20
DCG5010	Compensating	10.5	5,000	5,000	40	345	3/8" NPT-F	1/4" NPT-F	320° F	1.4 lbs.	20
DCG5010SO	Compensating	10.5	5,000	5,000	40	345	3/8" NPT-F	1/4" NPT-F	320° F	1.4 lbs.	20
YRL51	Compensating	13.2	3,650	4,050	50	252/279	3/8" NPT-F	1/4" NPT-F	320° F	1.5 lbs.	20
YRL56	Compensating	8.0	5,100	5,650	30	352/390	3/8" NPT-F	1/4" NPT-F	320° F	1.5 lbs.	8
DCG5010HE	Excavating	10.5	5,000	5,000	40	345	3/8" NPT-F	1/4" NPT-F	300° F	1.4 lbs.	

SPRAY GUNS & LANCES



# SPRAY GUNS

## High Flow Rear Entry Wash Down Spray Guns



YG1635SR YG1635SR YG1317S

### HIGH FLOW REAR ENTRY WASH DOWN SPRAY GUNS

MODEL	DESCRIPTION	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	SHW WT	BOX QTY
YG1317S	Wash down w/swivel	13.2	175	175	50	12	1/2" BSP-F		120° F	1 lbs.	
YG1635	Wash down	16.0	350	350	61	24	1/2" BSP-F	Adj. Cone Nozzle	195° F	2.1 lbs.	10
YG1635N	Wash down	16.0	350	350	61	24	1/2" NPT-F	Adj. Cone Nozzle			
YG1635S	Wash down w/swivel	16.0	350	350	61	24	1/2" BSP-F	Adj. Cone Nozzle	195° F	2.1 lbs.	10
YG1635SR	Wash down w/swivel, ss pin	16.0	350	350	61	24	1/2" BSP-F	Adj. Cone Nozzle	195° F	2.1 lbs.	10
YG1635SS	Wash down w/swivel, 316 ss	16.0	350	350	61	24	1/2" BSP-F	Adj. Cone Nozzle	195° F	2.1 lbs.	10
YG2635AS	Wash down w/swivel	26.5	350	350	100	24	1/2" BSP-F	Adj. Cone Nozzle	195° F	3.5 lbs.	10

## Rear Entry Spray Guns Stainless Steel



YG4060SS YG1732 YG2953B YG5200 YG7207

### REAR ENTRY SPRAY GUNS - STAINLESS STEEL

MODEL	DESCRIPTION	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	SHW WT	BOX QTY
YG1732	Brass housing	32.0	1,740	1,950	121	120/134	1/2" BSP-F	1/2" BSP-F	210° F	4.0 lbs.	20
YG2953B	Brass housing	53.0	2,900	3,200	201	200/221	3/4" BSP-F	1/2" BSP-F	210° F	5.0 lbs.	10
YG4060SS	Blue	10.5	4,500	5,000	40	310/345	3/8" NPT-F	1/4" NPT-F	320° F	2.0 lbs.	2
YG5200	Red	10.5	5,800	6,400	40	440/441	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	7,250	8,000	28	500/552	3/8" NPT-F	1/4" NPT-F	320° F	1.6 lbs.	1

## Spray Gun/Lance Combinations

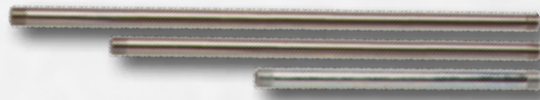


Y30256717 DG3200M 101002 YG26LA34

### SPRAY GUN/LANCE COMBINATIONS

MODEL	DESCRIPTION	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	SHW WT
YRL56L	42" Lance	8.0	5,100	5,650	30	352/390	3/8" NPT-F	1/4" NPT-F	320° F	3.3 lbs.
YG3000DS	16" Lance	10.5	2,750	3,050	40	190/210	3/8" NPT-F	1/8" NPT-F	140° F	2.0 lbs.
YG3000D	40" Lance	10.5	2,750	3,050	40	190/210	3/8" NPT-F	1/8" NPT-F	140° F	3.0 lbs.
Y30256717	YG5000 assembled with 36" 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" vented, 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.
101057	DG5010 assembled with 36" insulated lance and 1/4" quick disconnect									3.0 lbs.
101096	DG5010 assembled with 48" insulated lance and 1/4" quick disconnect									3.0 lbs.
101109	DGE5010 assembled with 24" insulated lance and 1/4" quick disconnect									3.0 lbs.
101110	DGE5010 assembled with 36" Insulated lance and 1/4" quick disconnect									3.0 lbs.
DG320014	Economy gun/lance 6.5 GPM 3,200 PSI 3,200 PSI	25	221	1/4" NPT-F	M22-F	195° F	1.5 lbs.			
DG320038	Economy gun/lance 6.5 GPM 3,200 PSI 3,200 PSI	25	221	3/8" NPT-F	M22-F	195° F	1.5 lbs.			
DG3200M	Economy gun/lance 6.5 GPM 3,200 PSI 3,200 PSI	25	221	M22-M	M22-F	195° F	1.5 lbs.			
101002	YG7207 spray gun with 36" stainless steel lance, 7.5 GPM, 7,250 PSI									
DGLN3230M	Gun, lance, 1.3mm nozzle, M22 inlet									
DGLN3299M	Gun, lance, 0.99 mm nozzle, M22 inlet									
DGLNH120	Gun, lance kit, 1.2 mm nozzle, M22 inlet, 1/4" hose									
YG36LA37SW	Gun, 37" adjustable lance, #12 nozzle, 8.0 GPM, 3,650 PSI, 195° F, 6.0 lbs.									
YG26LA34	Gun, 34" adjustable Lance, #25 nozzle, 21.0 GPM, 2,600 PSI, 109° F, 7.0 lbs.									

# LANCES



YL8SS

## Stainless Steel Lances

STAINLESS STEEL LANCES										
MODEL	LENGTH	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	OUTLET	SHW WGH	BOX QTY
YL8SS	8"	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-M	0.5 lbs.	200
YL31SS	31"	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-M	0.7 lbs.	100
YL40SS	40"	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-M	1.0 lbs.	100
YL72SS	72"	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-M	1.8 lbs.	50
680267	36"	32.0	4,000	4,000	121	276	1/2" NPT-M	1/2" NPT-M	3.0 lbs.	N/A
680268	48"	32.0	4,000	4,000	121	276	1/2" NPT-M	1/2" NPT-M	4.0 lbs.	N/A
680269	60"	32.0	4,000	4,000	121	276	1/2" NPT-M	1/2" NPT-M	5.0 lbs.	N/A
680270	72"	32.0	4,000	4,000	121	276	1/2" NPT-M	1/2" NPT-M	6.0 lbs.	N/A
680358	96"	32.0	4,000	4,000	121	276	1/2" NPT-M	1/2" NPT-M	8.0 lbs.	N/A



YL20PNS

## Insulated Lances - Straight

INSULATED LANCES - STRAIGHT											
MODEL	LENGTH	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	SHW WGH	BOX QTY
YL20PNS	20"	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-F	320° F	1.1 lbs.	25
YL24PNS	24"	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-F	320° F	1.3 lbs.	25
YL27PNS	27"	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-F	320° F	1.4 lbs.	25
YL35PNS	35"	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-F	320° F	1.7 lbs.	25
YL47PNS	47"	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-F	320° F	2.2 lbs.	25
YL59PNS	59"	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-F	320° F	2.8 lbs.	25
YL67PNS	67"	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-F	320° F	3.0 lbs.	25
YL79PNS	79"	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-F	320° F	3.4 lbs.	25



YL20PNB

## Insulated Lances - Bent

INSULATED LANCES - BENT											
MODEL	LENGTH	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	SHW WGH	BOX QTY
YL36B	Vented 36"	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-F	320° F	1.7 lbs.	10
YL20PNB	20"	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-F	320° F	1.1 lbs.	25
YL24PNB	24"	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-F	320° F	1.3 lbs.	25
YL27PNB	27"	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-F	320° F	1.4 lbs.	25
YL35PNB	35"	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-F	320° F	1.7 lbs.	25
YL47PNB	47"	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-F	320° F	2.2 lbs.	25
YL59PNB	59"	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-F	320° F	2.8 lbs.	10
YL67PNB	67"	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-F	320° F	3.0 lbs.	10
YL79PNB	79"	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-F	320° F	3.0 lbs.	10
ZZ15	59" zinc	10.5	3,500	N/A	40	241	1/4" BSP-M	1/4" BSP-M	284° F	2.5 lbs.	N/A

## Insulated Lances Chrome Plated



DL24ICS

### INSULATED LANCES - CHROME PLATED

MODEL	LENGTH	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	SHW WT	BOX QTY
DL24ICS	24"	10.0	5,000	5,000	38	345	1/4" NPT-M	1/4" NPT-M	220° F	1.3 lbs.	25
DL27ICS	27"	10.0	5,000	5,000	38	345	1/4" NPT-M	1/4" NPT-M	220° F	1.4 lbs.	25
DL36ICS	36"	10.0	5,000	5,000	38	345	1/4" NPT-M	1/4" NPT-M	220° F	1.7 lbs.	25
DL42ICS	42"	10.0	5,000	5,000	38	345	1/4" NPT-M	1/4" NPT-M	220° F	1.7 lbs.	25
DL47ICS	47"	10.0	5,000	5,000	38	345	1/4" NPT-M	1/4" NPT-M	220° F	2.2 lbs.	25
DL59ICS	59"	10.0	5,000	5,000	38	345	1/4" NPT-M	1/4" NPT-M	220° F	2.8 lbs.	25
DL79ICS	79"	10.0 GPM	5,000 PSI	5,000 PSI			1/4" NPT-M	1/4" NPT-M	220° F	3.4 lbs.	25

## Vented Lances Chrome Plated



DL36VCS

### VENTED LANCES - CHROME PLATED

MODEL	LENGTH	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	SHW WT	BOX QTY
DL36VCS	36"	10.0	5,000	5,000	38	345	1/4" NPT-M	1/4" QC-F & 1/4" Soap Noz.	320° F	1.7 lbs.	25
DL48VCS	48"	10.0	5,000	5,000	38	345	1/4" NPT-M	1/4" QC-F & 1/4" Soap Noz.	320° F	2.2 lbs.	25
DL60VCS	60"	10.0	5,000	5,000	38	345	1/4" NPT-M	1/4" QC-F & 1/4" Soap Noz.	320° F	2.7 lbs.	25

## Vented Lances Stainless Steel



DL36VSSB

### INSULATED LANCES - STAINLESS STEEL

MODEL	LENGTH	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	SHW WT	BOX QTY
DL36VSSB	36", bent	10.0	5,000	5,000	38	345	1/4" NPT-M	1/4" NPT-F	320° F	1.7 lbs.	25
DL36VSS	36", straight	10.0	5,000	5,000	38	345	1/4" NPT-M	1/4" NPT-F	320° F	1.7 lbs.	25

## Insulated Handle, Straight Double Lances



YDL33

### INSULATED HANDLE, STRAIGHT DOUBLE LANCES

MODEL	LENGTH	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	SHW WT	BOX QTY
YDL33	33"	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-F	320° F	2.2 lbs.	20
YDL41	41"	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-F	320° F	2.4 lbs.	20
YDL41SS	41", ss	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-F	320° F	2.4 lbs.	10
YDL33SSB	33", ss, bent	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-F	320° F	2.2 lbs.	20
YDL41SSB	41", ss, bent	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-F	320° F	2.4 lbs.	20

# LANCES



ZZDBL

DLD42VS

## Bent Double Lances Zinc Plated Steel

BENT DOUBLE LANCES - ZINC PLATED STEEL											
MODEL	LENGTH	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	SHW WT	BOX QTY
YDL33B	33"	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-F	320° F	2.2 lbs.	20
YDL41B	41"	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-F	320° F	2.4 lbs.	20
ZZDBL	36"	10.5	3,000	3,000	40	207	1/4" BSP-M	1/4" BSP-M	284° F	2.5 lbs.	300
100673	ZZDBL lance assembly with 1/4" QD connector and 965400M nozzle										
100673Q	ZZDBL lance assembly with 1/4" QD coupler and 965400M nozzle										
ZZDBL72	72"	10.5	3,000	3,000	40	207	1/4" BSP-M	1/4" BSP-M	284° F	3.5 lbs.	50
DLD33VS	33" vented	10.5	4,000	3,000	40	207	1/4" NPT-M	1/4" QC-F/soap	320° F	5.4 lbs.	10
DLD36VS	36" vented	10.5	4,000	3,000	40	207	1/4" NPT-M	1/4" QC-F/soap	320° F	5.4 lbs.	10
DLD42VS	42" vented	10.5	4,000	4,000	40	276	1/4" NPT-M	1/4" QC-F/soap	320° F	5.4 lbs.	10
100752	ZZDBL72 lance assembly with 1/4" QD connector and 965400M nozzle, 284° F										



YLD943

## Lances, Rectangle Handle Vented Grip

VENTED GRIP LANCES - RECTANGLE HANDLE											
MODEL	LENGTH	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	OUTLET	MAX TEMP	SHW WT	BOX QTY
YDL935	35"	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-F	320° F	2.6 lbs.	N/A
YLD943	43"	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" NPT-F	320° F	2.4 lbs.	N/A



DLE1614

## Lances

LANCES									
MODEL	LENGTH	RATED PSI	BAR	INLET	OUTLET	MAX TEMP	SHW WT	BOX QTY	
DLE1618	16"	3,200	221	M22-M	1/8" NPT-M	195° F	0.5 lbs.	12	
DLE2818	28"	3,200	221	M22-M	1/8" NPT-M	195° F	1.0 lbs.	12	
DLE1614	16"	3,200	221	M22-M	1/4" NPT-M	195° F	0.75 lbs.	12	
DLE2214	22"	3,200	221	M22-M	1/4" NPT-M	195° F	1.0 lbs.	12	
DLE2814	28"	3,200	221	M22-M	1/4" NPT-M	195° F	1.5 lbs.	12	



D20011

D22000

## Lance Accessories

LANCE ACCESSORIES		
MODEL	DESCRIPTION	BOX QTY
D20011	12" gutter cleaner, 1/4" QC connectors	50
D22000	Adjustable lance handle for 1/4" lances	200
D10036	Pivot coupler, mounts to any 1/4" QC lance and can lock position for difficult cleaning angles, 4500 PSI	100

# PRESSURE CLEANING ACCESSORIES

## Flat Surface Cleaners



DCFSCP20



DCFSCS22GZ



DFSCP24GZ



DFSCP12



DFSCGK

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

MODEL	BEARING	MAX GPM	RATED PSI	MIN PSI	LPM	BAR	DECK	INLET	NOZZLE	MAX TEMP	SHW WGHT	PALLET QTY
DFSCP12E	Sealed	4.0	3,000	1,000	15	207/69	12"	M22 M, 1/4"	925020S (2)	150° F	6.5 lbs.	100
DFSCP12	Sealed	6.5	3,500	1,000	25	241/69	12"	M22 M, 1/4"	925020S (2)	180° F	12.0 lbs.	99
DCFSCP18	Sealed	8.0	4,000	1,000	30	276/69	18"	3/8" NPT-F	925020M (2)	180° F	19.0 lbs.	12
DCFSCP18GZ	Grease zerk	8.0	4,000	1,000	30	276/69	18"	3/8" NPT-F	925020M (2)	180° F	19.0 lbs.	12
DCFSCP20	Sealed	8.0	4,000	1,000	30	276/69	20"	3/8" NPT-F	925020M (2)	180° F	24.0 lbs.	12
DCFSCP20GZ	Grease zerk	8.0	4,000	1,000	30	276/69	20"	3/8" NPT-F	925020M (2)	180° F	24.0 lbs.	12
DCFSCP24GZ	Grease zerk	8.0	4,000	1,000	30	276/69	24"	3/8" NPT-F	925020M (3)	190° F	26.0 lbs.	12
2100200	Caster kit, flat surface cleaner											

### FLAT SURFACE CLEANERS - STAINLESS STEEL - COMPENSATING GUN - INCLUDES CASTERS - AVAILABLE W/2 or 3 NOZZLE ARM

MODEL	BEARING	MAX GPM	RATED PSI	MIN PSI	LPM	BAR	DECK	INLET	NOZZLE	MAX TEMP	SHW WGHT	PALLET QTY
DCFSCS22Z	Grease zerk	8.0	5,000	1,000	30	345/69	22"	3/8" NPT-F	925020M (2)(3)	180° F	28.0 lbs.	12

## HOSE REELS

### Semi-Professional Hose Reels

- Direct hand-crank rewind with pin lock
- Solid steel construction
- Durable black powder coated finish
- Brass swivel with Stainless Steel internal stem
- Hardware provided for mounting to cart handle or bumper



### HOSE REELS - SEMI PROFESSIONAL

MODEL	3/8" CAPACITY	PSI	BAR	MAX TEMP	INLET	OUTLET	GROSS WGHT	BOX QTY/PALLET
D30001	50'	4,000	276	225° F	3/8" NPT-F	3/8" NPT-F	8.8 lbs.	72
D30002	100'	4,000	276	225° F	3/8" NPT-F	3/8" NPT-F	11.0 lbs.	54
D30004	150'	4,000	276	225° F	3/8" NPT-F	3/8" NPT-F	17.6 lbs.	42
D30006	200'	4,000	276	225° F	3/8" NPT-F	3/8" NPT-F	15.9 lbs.	28

### Professional Hose Reels

- Direct hand-crank rewind with pin lock
- Solid steel construction with one piece welded drum
- Durable black powder coated finish
- 5,000 PSI rated swivel



### HOSE REELS - PROFESSIONAL

MODEL	3/8" CAPACITY	PSI	BAR	MAX TEMP	INLET	OUTLET	GROSS WGHT	BOX QTY/PALLET
DHR50100	100'	5,000	345	300° F	3/8" NPT-M	3/8" NPT-F	17.6 lbs.	45
DHR50150	150'	5,000	345	300° F	3/8" NPT-M	3/8" NPT-F	18.7 lbs.	30

### Professional Hose Reels

- Full flow swivel
- Includes drum pin-lock and friction brake
- Durable high-gloss powder coated finish
- One-piece welded drum
- Direct hand-crank rewind with locking pin



### HOSE REELS - PROFESSIONAL - WALL MOUNT

MODEL	3/8" CAPACITY	PSI	BAR	MAX TEMP	INLET	OUTLET	GROSS WGHT	BOX QTY/PALLET
DHRWM50200	200'	4,000	276	225° F	1/2" NPT-F	3/8" NPT-F	15.0 lbs.	30

# HOSE REELS



- Includes drum pin-lock and friction brake
- Stainless steel 5,000 PSI swivel w/ internal ball bearing
- Durable powder coated finish
- One-piece welded drum
- Switchable swivel/handle
- HD steel welded frame and HD sealed axle bearings
- Stainless steel assembly hardware

## Industrial Hose Reels

INDUSTRIAL HOSE REELS								
MODEL	3/8" CAPACITY	PSI	BAR	MAX TEMP	INLET	OUTLET	GROSS WGHT	BOX QTY/ PALLET
DHRA50150	150'	5,000	345	250° F	3/8" NPT-F and 1/2" NPT-F	3/8" NPT-F and 1/2" NPT-F	36.46 lbs.	24
DHRA50300	300'	5,000	345	250° F	3/8" NPT-F and 1/2" NPT-F	3/8" NPT-F and 1/2" NPT-F	41.97 lbs.	16
DHRA50450	450'	5,000	345	250° F	3/8" NPT-F and 1/2" NPT-F	3/8" NPT-F and 1/2" NPT-F	47.6 lbs.	16



- Includes drum pin-lock and friction brake
- Stainless steel 5,000 PSI swivel w/ internal ball bearing
- Heavy duty stainless steel construction
- One-piece welded drum
- Switchable swivel/folding handle
- Stainless steel assembly hardware
- Comes with (2) 1/2" to 3/8" adapters



## Industrial Hose Reels - SS

INDUSTRIAL HOSE REELS - STAINLESS STEEL								
MODEL	3/8" CAPACITY	PSI	BAR	MAX TEMP	INLET	OUTLET	GROSS WGHT	BOX QTY/ PALLET
DHRA50150SS	150'	5,000	345	250° F	3/8" NPT-F	3/8" NPT-F	36.46 lbs.	24
DHRA50300SS	300'	5,000	345	250° F	3/8" NPT-F	3/8" NPT-F	41.97 lbs.	16
DHRA50450SS	450'	5,000	345	250°	3/8" NPT-F	3/8" NPT-F	48.0 lbs.	12



- Holds up to 150' of 1/4" hose, or 100' of 3/8" hose
- 5,000 PSI rated swivel
- Durable black powder coated finish
- Stainless steel hand carry base
- Stainless steel assembly hardware



## Hand Carry Hose Reels

HAND CARRY HOSE REELS								
MODEL	3/8" CAPACITY	PSI	BAR	MAX TEMP	INLET	OUTLET	GROSS WGHT	BOX QTY/ PALLET
DHRHC50100	100'	5,000	345	300° F	3/8" NPT-M	3/8" NPT-F	23.35 lbs.	20



- 5,000 PSI rated swivel
- Durable high-gloss powder coated finish
- HD pedestal stand - mount on wall, workbench or pressure washer
- One-piece welded drum

## Pedestal Hose Reels

SPRAY GUNS & LANCES

HAND CARRY HOSE REELS								
MODEL	3/8" CAPACITY	PSI	BAR	MAX TEMP	INLET	OUTLET	GROSS WGHT	BOX QTY/ PALLET
DHRP50150	150'	5,000	345	300° F	3/8" NPT-M	3/8" NPT-F	30.86 lbs.	24



- Low pressure garden hose
- Durable gray high-gloss powder coated finish
- HD pedestal stand - mount on wall, workbench or pressure washer
- One-piece welded drum



## Garden Hose Reels

LOW PRESSURE GARDEN HOSE REELS								
MODEL	3/8" CAPACITY	MAX PSI	MAX BAR	INLET	OUTLET	GROSS WGHT	BOX QTY/ PALLET	
DHRGH150	150'	150	7	3/8" GH-F	3/8" GH-M	22.0 lbs.		

# HOSE REELS



## Trailer Mount Hose Reels

- Full flow stainless steel swivel
- Durable high-gloss black powder coated finish
- 180° pivoting hose guide
- One-piece welded drum
- Direct hand-crank rewind with locking pin
- Robust folding handle

### TRAILER MOUNT HOSE REELS

MODEL	3/8" CAPACITY	PSI	BAR	MAX TEMP	INLET	OUTLET	GROSS WGHT	BOX QTY/PALLET
DHRTM50100	100	5,000	345	250° F	1/2" NPT-F	1/2" NPT-F	33.0 lbs.	16
DHRTM50200	200'	5,000	345	250° F	1/2" NPT-F	1/2" NPT-F	33.0 lbs.	16

## HOSE REEL ACCESSORIES



### A-FRAME HOSE REEL ACCESSORIES

MODEL	DESCRIPTION
<b>DMC12V</b>	Kit, 12 Volt DC, 30 amp variable speed controller rewind
<b>2103410</b>	Power rewind kit, 12 volt motor kit for A-frame hose reels, includes hardware motor and gear
<b>2100465</b>	Kit, cart for DHRA hose reels
<b>2100462</b>	Kit, hose guide, protects hose when hose pulled, fits DHRA50150
<b>2100463</b>	Kit, hose guide, protects hose when hose pulled, fits DHRA50300
<b>2100503</b>	Kit, hose guide, protects hose when hose pulled, fits DHRA50450
<b>2100462SS</b>	Kit, hose guide, stainless steel, protects hose when hose pulled, fits DHRA50150SS
<b>2100463SS</b>	Kit, hose guide, stainless steel, protects hose when hose pulled, fits DHRA50300SS
<b>2100503SS</b>	Kit, hose guide, stainless steel, protects hose when hose pulled, fits DHRA50450SS
<b>2100437</b>	Kit, hose reel stacking kit, fits DHRA models, stacks up to 4 high
<b>2100437SS</b>	Kit, hose reel stacking kit, stainless steel, fits DHRASS models, stacks up to 4 high

### HOSE REEL ACCESSORIES

MODEL	DESCRIPTION
<b>DHRUM</b>	Universal mounting kit for DHRTM50100 and DHRTM50200
<b>DHRFM</b>	Flat-based base for DHRTM50100 and DHRTM50200
<b>2100375</b>	Kit, cart for D3000 and DHR hose reels
<b>2100379</b>	Kit, wall mount with swivel plate for D3000 and DHR hose reels
<b>2100580</b>	2-piece collapsible frame only. Compatible with these hose reels: D30001, 2, 4 and 6, DHR50100, DHR50150 and DHRHC50100
<b>2100012</b>	Kit, sewer jetter, fits DHRHC50100, includes ball valve, 1/4" inlet/outlet gauge and 3 sewer jet nozzles



DSW9012SS



DSW9022MSS

### HIGH PRESSURE SWIVELS

PART NUMBER	DESCRIPTION	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	WORKING TEMP	SHF WGHT
<b>DSW9038SS</b>	Swivel 90°, SS, ball bearing	15.0	5,000	5,000	57	345	3/8" 18 NPT	250° F	1.1 lbs.
<b>DSW9012SS</b>	Swivel 90°, SS, ball bearing	25.0	5,000	5,000	95	345	1/2" 18 NPT	250° F	1.1 lbs.
<b>DSW9012MSS</b>	Swivel 90°, M22 X1.5-M, SS, ball bearing	25.0	5,000	5,000	95	345	1/2" NPT-F	250° F	1.1 lbs.
<b>DSW9022MSS</b>	Swivel 90°, M22 X1.5-M, SS, ball bearing	25.0	5,000	5,000	95	345	1/2" NPT-F	250° F	1.1 lbs.
<b>2103130</b>	Hose reel swivel	25.0	5,000	5,000	95	345	3/8" NPT-F	300° F	1.1 lbs.

# PRESSURE CLEANING ACCESSORIES



100870C

## The Original TRIKLEENER®



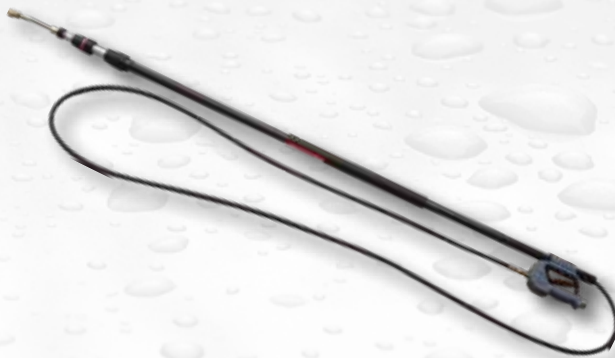
2100306



2100473

## Water Brooms

WATER BROOMS					
MODEL	DESCRIPTION	NOZZLE PORTS	PSI	BAR	
100869C	12" Water Broom with (3) 65 Degree Nozzles, 36" Molded, Insulated Lance and 1/4" QC	3	3,000	207	
100870C	16" Water Broom with (4) 65 Degree Nozzles, 36" Molded, Insulated Lance, 1/4" QC	4	3,000	207	
2100306	TRIKLEENER® Water Broom, 12" Adjustable Height	3	4,500	310	
2100473	BIKLEENER® Water Broom, 10" Width, Adjustable Height, Two Nozzles	2	3,000	207	



## The Giraffe Telescoping Wands

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 PSI	LPM	BAR	OUTLET	RETRACTED DIMENSIONS	MAX TEMP	SHP WGHT	PALLET QTY
DLTG12	12 feet	10.5	4,000	40	276	1/4" QC	6.1" x 7'-1/2"	195° F	9.2 lbs.	55
<b>Complete with the compensating gun feature:</b>										
DCLTG18	18 feet	10.5	4,000	40	276	1/4" QC	6.1" x 7'5"	195° F	11.6 lbs.	55
DCLTG24	24 feet	10.5	4,000	40	276	1/4" QC	6.1" x 7'8"	195° F	14.2 lbs.	55



## The Giraffe Telescoping Wands Aluminum

GIRAFFE - TELESCOPING WANDS - ALL ALUMINUM POLE, DCLTG18A IS IN 3 SECTIONS, DCLTG24A IS IN 4 SECTIONS. 5/6" DOUBLE BRAID, 4,000 PSI HOSE, LIGHTWEIGHT POLES, NEW COMPENSATING GUN AND WAND BELT INCLUDED.										
MODEL	LENGTH	GPM	MAX PSI	LPM	BAR	OUTLET	RETRACTED DIMENSIONS	MAX TEMP	SHP WGHT	PALLET QTY
DCLTG18A	18 Feet	10.5	4,000	40	276	1/4" QC	6.8" x 6'5"	195° F	13.0 lbs.	55
DCLTG24A	24 Feet	10.5	4,000	40	276	1/4" QC	6.8" x 6'8"	195° F	16.5 lbs.	55

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



# PRESSURE CLEANING ACCESSORIES

## Foamers



YLS12

YLS12T

ZOFOAM

### FOAMERS

MODEL	DESCRIPTION	GPM	RATED PSI	MAX PSI	LPM	BAR	SHP WGHT	BOX QTY
YLS12	Foamer lance with 1.5 mm injector	6.5	3,200	3,200	25	221	1.5 lbs.	45
YLS12T	Foamer lance with 1.5 mm injector (1 qt. tank)	6.5	3,200	3,200	25	221	1.5 lbs.	5
YLS12T2	Foamer lance with 1.5mm injector (2 ltr. tank)	6.5	3,200	3,200	25	221	1.7 lbs.	5
YLS12FEI25	Foamer lance with external injector, 2.5mm injector	6.5	2,900	3,200	25	200/221	1.7 lbs.	5
YLS31T	Foamer lance with 1.25 mm injector	3.2	2,600	2,600	12	179	1.0 lbs.	5
ZOFOAM	Foamer nozzle kit with tank	4.0	1,450	1,450	15	100	1.5 lbs.	N/A

## Brushes



YROTBRUSH

### BRUSHES

MODEL	DESCRIPTION	MAX PSI	BAR	INLET	MAX TEMP	SHP WGHT	BOX QTY
YROTBRUSHN 190092	Natural bristle rotating brush YROTBRUSH with lance	435 PSI	30	1/4" BSP-M	140° F	1.8 lbs.	21

## Pressure Washer Carts



D80040

### BRUSHES

MODEL	DESCRIPTION
D80040	Small cart, no wheels, up to 6.5 HP gas
D80041	Large cart, no wheels, up to 13 HP Gas
DP80009	1 wheel, 10"
DP80010	1 wheel, 13"

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# NOZZLES



## Spray Tips

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

#### Part Number Examples:

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

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	925045	940045
050	900050	915050	925050	940050
055	900055	915055	925055	940055
060	900060	915060	925060	940060
065	900065	915065	925065	940065
070	900070	915070	925070	940070
075	900075	915075	925075	940075
080	900080	915080	925080	940080
085	900085	915085	925085	940085
090	900090	915090	925090	940090
100	900100	915100	925100	940100

NOZZLE SIZE	GPM @ PSI				
	1,000 PSI	2,000 PSI	3,000 PSI	4,000 PSI	5,000 PSI
020	1.0	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	2.0	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	3.0	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



Assorted Nozzles

## Standard Nozzles

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

Please call your GP Sales Representative for additional nozzle sizes.

# NOZZLES

## HYDRO EXCAVATING NOZZLE



HXNOZ



101146

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

### TRIPLE-STREAM HYDRO EXCAVATING NOZZLE

MODEL	NOZZLE 1	NOZZLE 2	NOZZLE 3	NOZZLE EQUIVALENT	FLOW - GPM/LPM						
					1000 PSI 69 BAR	1500 PSI 103 BAR	2000 PSI 138 BAR	2500 PSI 172 BAR	3000 PSI 207 BAR	3500 PSI 241 BAR	4000 PSI 276 BAR
<b>HXNOZ</b>											
<b>HX212</b>	900020SH	900010SH	900020SH	#5.0	2.50	3.06	3.54	3.95	4.33	4.68	5.00
<b>HX222</b>	900020SH	900020SH	900020SH	#6.0	3.00	3.67	4.24	4.74	5.20	5.61	6.00
<b>HX232</b>	900020SH	900030SH	900020SH	#7.0	3.50	4.29	4.95	5.53	6.06	6.55	7.00
<b>HX323</b>	900030SH	900020SH	900030SH	#8.0	4.00	4.90	5.66	6.32	6.93	7.48	8.00
<b>HX333</b>	900030SH	900030SH	900030SH	#9.0	4.50	5.51	6.36	7.12	7.79	8.42	9.00
<b>HX343</b>	900030SH	900040SH	900030SH	#10.0	5.00	6.12	7.07	7.91	8.66	9.35	10.00
<b>HX434</b>	900040SH	900030SH	900040SH	#11.0	5.50	6.74	7.78	8.70	9.53	10.29	11.00
<b>HX444</b>	900040SH	900040SH	900040SH	#12.0	6.00	7.35	8.49	9.49	10.39	11.22	12.00
<b>HX454</b>	900040SH	900050SH	900040SH	#13.0	6.50	7.96	9.19	10.28	11.26	12.16	13.00
<b>HX545</b>	900050SH	900040SH	900050SH	#14.0	7.00	8.57	9.90	11.07	12.12	13.10	14.00
<b>HX555</b>	900050SH	900050SH	900050SH	#15.0	7.50	9.19	10.61	11.86	12.99	14.03	15.00
<b>HX565</b>	900050SH	900060SH	900050SH	#16.0	8.00	9.80	11.31	12.65	13.86	14.97	16.00
<b>HX656</b>	900060SH	900050SH	900060SH	#17.0	8.50	10.41	12.02	13.44	14.72	15.90	17.00
<b>HX666</b>	900060SH	900060SH	900060SH	#18.0	9.00	11.02	12.73	14.23	15.59	16.84	18.00
<b>HX676</b>	900060SH	900070SH	900060SH	#19.0	9.50	11.64	13.44	15.02	16.45	17.77	19.00
<b>HX767</b>	900070SH	900060SH	900070SH	#20.0	10.00	12.25	14.14	15.81	17.32	18.71	20.00
<b>HX777</b>	900070SH	900070SH	900070SH	#21.0	10.50	12.86	14.85	16.60	18.19	19.64	21.00
<b>HX787</b>	900070SH	900080SH	900070SH	#22.0	11.00	13.47	15.56	17.39	19.05	20.58	22.00
<b>HX878</b>	900080SH	900070SH	900080SH	#23.0	11.50	14.08	16.26	18.18	19.92	21.51	23.00
<b>HX888</b>	900080SH	900080SH	900080SH	#24.0	12.00	14.70	16.97	18.97	20.78	22.45	24.00
<b>HX898</b>	900080SH	900090SH	900080SH	#25.0	12.50	15.31	17.68	19.76	21.65	23.39	25.00
<b>HX989</b>	900090SH	900080SH	900090SH	#26.0	13.00	15.92	18.38	20.55	22.52	24.32	26.00
<b>HX999</b>	900090SH	900090SH	900090SH	#27.0	13.50	16.53	19.09	21.35	23.38	25.26	27.00
<b>HX9109</b>	900090SH	900100SH	900090SH	#28.0	14.00	17.15	19.80	22.14	24.25	26.19	28.00
<b>HX10910</b>	900100SH	900090SH	900100SH	#29.0	14.50	17.75	20.51	22.93	25.11	27.13	29.00
<b>HX101010</b>	900100SH	900100SH	900100SH	#30.0	15.00	18.37	21.21	23.72	25.98	28.06	30.00



# NOZZLES



Assorted Nozzles

## Chemical Nozzles

CHEMICAL NOZZLES			
MODEL	DESCRIPTION	SHP WGHT	BOX QTY
915500MSS	#50 orifice, 15° spray angle, stainless steel, 1/4" NPT-M	0.1 lbs.	250
915500QB	#50 orifice, 15° spray angle, brass, Q-style	0.1 lbs.	250
965400M	#40 orifice, 65° spray angle, 1/4" NPT-M	0.1 lbs.	250
965400Q	#40 orifice, 65° spray angle, Q-style, 100% brass	0.1 lbs.	250
965400S	#40 orifice, 65° spray angle, 1/8" NPT-M	0.1 lbs.	250
925400M	#40 orifice, 25° spray angle, 1/4" NPT-M	0.1 lbs.	250
925400Q	#40 orifice, 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

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



Nozzle 4-Pack

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

NOZZLE 4-PACKS - ONE EACH: 0°, 15°, 25°, 40°		
MODEL	DESCRIPTION	SHP WGHT
105127	#3.0	0.5 lbs.
105120	#3.5	0.5 lbs.
105121	#4.0	0.5 lbs.
105122	#4.5	0.5 lbs.
105123	#5.0	0.5 lbs.
105124	#5.5	0.5 lbs.
105125	#6.0	0.5 lbs.
105126	#6.5	0.5 lbs.
105135	#70	0.5 lbs.
105101	#9.0	0.5 lbs.

# NOZZLES

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



YHL20

### ADJUSTABLE NOZZLES, VARIABLE SPRAY ANGLE AND HIGH/LOW PRESSURE SETTINGS

MODEL	SIZE/COLOR	RATED PSI	MAX PSI	BAR	INLET	MAX TEMP	SHW WT	BOX QTY
YHL20	#2.0/Light Green	3,650	4,050	252/279	1/4" BSP-F	195° F	0.4 lbs.	10
YHL25	#2.5/Pink	3,650	4,050	252/279	1/4" BSP-F	195° F	0.4 lbs.	10
YHL30	#3.0/White	3,650	4,050	252/279	1/4" BSP-F	195° F	0.4 lbs.	10
YHL35	#3.5/Brown	3,650	4,050	252/279	1/4" BSP-F	195° F	0.4 lbs.	10
YHL40	#4.0/Dark Yellow	3,650	4,050	252/279	1/4" BSP-F	195° F	0.4 lbs.	10
YHL45	#4.5/Blue	3,650	4,050	252/279	1/4" BSP-F	195° F	0.4 lbs.	10
YHL50	#5.0/Light Purple	3,650	4,050	252/279	1/4" BSP-F	195° F	0.4 lbs.	10
YHL55	#5.5/Dark Red	3,650	4,050	252/279	1/4" BSP-F	195° F	0.4 lbs.	10
YHL60	#6.0/Dark Green	3,650	4,050	252/279	1/4" BSP-F	195° F	0.4 lbs.	10
YHL70	#7.0/Orange	3,650	4,050	252/279	1/4" BSP-F	195° F	0.4 lbs.	10
YHL80	#8.0/Silver	3,650	4,050	252/279	1/4" BSP-F	195° F	0.4 lbs.	10

## Adjustable Spray High/Low Pressure Nozzles



DHL4120

### ADJUSTABLE SPRAY HIGH/LOW PRESSURE NOZZLES

MODEL	SIZE/COLOR	RATED PSI	BAR	INLET	MAX TEMP	SHW WT	BOX QTY
DHL4086	#0.86/Green	3,200	221	1/4" NPT-F	195° F	0.4 lbs.	10
DHL4099	#0.99/Pink	3,200	221	1/4" NPT-F	195° F	0.4 lbs.	10
DHL4120	#1.2/Brown	3,200	221	1/4" NPT-F	195° F	0.4 lbs.	10
DHL4130	#1.3/Yellow	3,200	221	1/4" NPT-F	195° F	0.4 lbs.	10
DHL4140	#1.4/Blue	3,200	221	1/4" NPT-F	195° F	0.4 lbs.	10
DHL4150	#1.5/Red	3,200	221	1/4" NPT-F	195° F	0.4 lbs.	10
DHL4160	#1.6/Green	3,200	221	1/4" NPT-F	195° F	0.4 lbs.	10
DHL4170	#1.7/Orange	3,200	221	1/4" NPT-F	195° F	0.4 lbs.	10
DHL4180	#1.8/Silver	3,200	221	1/4" NPT-F	195° F	0.4 lbs.	10

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



YHILO



ZOMULTIREG99

### ADJUSTABLE NOZZLES, HIGH/LOW PRESSURE SETTINGS AND VARIABLE SPRAY ANGLES

MODEL	SIZE/COLOR	RATED PSI	MAX PSI	BAR	INLET	MAX TEMP	SHW WT	BOX QTY
YHILO110	#3.0/White	4,050	4,500	279/310	1/4" BSP-F	195° F	0.5 lbs.	10
YHILO120	#3.5/Brown	4,050	4,500	279/310	1/4" BSP-F	195° F	0.5 lbs.	10
YHILO130	#4.0/Yellow	4,050	4,500	279/310	1/4" BSP-F	195° F	0.5 lbs.	10
YHILO140	#4.5/Blue	4,050	4,500	279/310	1/4" BSP-F	195° F	0.5 lbs.	10
YHILO150	#5.5/Red	4,050	4,500	279/310	1/4" BSP-F	195° F	0.5 lbs.	10
YHILO160	#6.0/Dark Green	4,050	4,500	279/310	1/4" BSP-F	195° F	0.5 lbs.	10
YHILO170	#7.0/Orange	4,050	4,500	279/310	1/4" BSP-F	195° F	0.5 lbs.	10
YHL412	#12.0/Yellow	4,050	4,500	279/310	1/4" BSP-F	195° F	0.5 lbs.	10
ZOMULTIREG99*	5.5 GPM	3,600	3,600	248	1/4" BSP-F	140° F	0.5 lbs.	N/A

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

# NOZZLES



Y3K



Y5K

## Rotating Nozzles

ROTATING NOZZLES								
MODEL	SIZE	MIN PSI	MAX PSI	BAR	INLET	MAX TEMP	SHP WGHT	BOX QTY
Y3K020	2.0	1,150	3,000	79/207	1/4" BSP-F	194° F	.75 lbs.	5
Y3K030	3.0	1,150	3,000	79/207	1/4" BSP-F	194° F	.75 lbs.	5
Y3K035	3.5	1,150	3,000	79/207	1/4" BSP-F	194° F	.75 lbs.	5
Y3K040	4.0	1,150	3,000	79/207	1/4" BSP-F	194° F	.75 lbs.	5
Y3K045	4.5	1,150	3,000	79/207	1/4" BSP-F	194° F	.75 lbs.	5
Y3K050	5.0	1,150	3,000	79/207	1/4" BSP-F	194° F	.75 lbs.	5
Y3K055	5.5	1,150	3,000	79/207	1/4" BSP-F	194° F	.75 lbs.	5
Y3K060	6.0	1,150	3,000	79/207	1/4" BSP-F	194° F	.75 lbs.	5
Y3K065	6.5	1,150	3,000	79/207	1/4" BSP-F	194° F	.75 lbs.	5
Y3K070	7.0	1,150	3,000	79/207	1/4" BSP-F	194° F	.75 lbs.	5
Y5K020	2.0	2,600	5,000	179/345	1/4" BSP-F	194° F	1.75 lbs.	5
Y5K030	3.0	2,600	5,000	179/345	1/4" BSP-F	194° F	1.75 lbs.	5
Y5K035	3.5	2,600	5,000	179/345	1/4" BSP-F	194° F	1.75 lbs.	5
Y5K040	4.0	2,600	5,000	179/345	1/4" BSP-F	194° F	1.75 lbs.	5
Y5K045	4.5	2,600	5,000	179/345	1/4" BSP-F	194° F	1.75 lbs.	5
Y5K050	5.0	2,600	5,000	179/345	1/4" BSP-F	194° F	1.75 lbs.	5
Y5K055	5.5	2,600	5,000	179/345	1/4" BSP-F	194° F	1.75 lbs.	5
Y5K060	6.0	2,600	5,000	179/345	1/4" BSP-F	194° F	1.75 lbs.	5
Y5K065	6.5	2,600	5,000	179/345	1/4" BSP-F	194° F	1.75 lbs.	5
Y5K080	8.0	2,600	5,000	179/345	1/4" BSP-F	194° F	1.75 lbs.	5
Y5K090	9.0	2,600	5,000	179/345	1/4" BSP-F	194° F	1.75 lbs.	5
Y5K100	10.0	2,600	5,000	179/345	1/4" BSP-F	194° F	1.75 lbs.	5
Y5K120	12.0	2,600	5,000	179/345	1/4" BSP-F	194° F	1.75 lbs.	5
Y5K200	20.0	2,600	5,000	179/345	1/4" BSP-F	194° F	1.75 lbs.	5



YR23K40



YR36K30



YR51K30



YR58K10

## Rotating Nozzles

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

MODEL	SIZE	MIN PSI	MAX PSI	BAR	INLET	MAX TEMP	SHP WGHT	BOX QTY
YR23K20	2.0	435	2,300	30/159	1/4" BSP-F	212° F	0.9 lbs.	5
YR23K25	2.5	435	2,300	30/159	1/4" BSP-F	212° F	0.9 lbs.	5
YR23K30	3.0	435	2,300	30/159	1/4" BSP-F	212° F	0.9 lbs.	5
YR23K35	3.5	435	2,300	30/159	1/4" BSP-F	212° F	0.9 lbs.	5
YR23K40	4.0	435	2,300	30/159	1/4" BSP-F	212° F	0.9 lbs.	5
YR23K45	4.5	435	2,300	30/159	1/4" BSP-F	212° F	0.9 lbs.	5
YR23K50	5.0	435	2,300	30/159	1/4" BSP-F	212° F	0.9 lbs.	5
YR23K55	5.5	435	2,300	30/159	1/4" BSP-F	212° F	0.9 lbs.	5
YR23K60	6.0	435	2,300	30/159	1/4" BSP-F	212° F	0.9 lbs.	5
YR23K65	6.5	435	2,300	30/159	1/4" BSP-F	212° F	0.9 lbs.	5
YR23K70	7.0	435	2,300	30/159	1/4" BSP-F	212° F	0.9 lbs.	5
YR23K80	8.0	435	2,300	30/159	1/4" BSP-F	212° F	0.9 lbs.	5
YR36K30	3.0	1,150	3,650	79/252	1/4" BSP-F	212° F	0.9 lbs.	5
YR36K35	3.5	1,150	3,650	79/252	1/4" BSP-F	212° F	0.9 lbs.	5
YR36K40	4.0	1,150	3,650	79/252	1/4" BSP-F	212° F	0.9 lbs.	5
YR36K45	4.5	1,150	3,650	79/252	1/4" BSP-F	212° F	0.9 lbs.	5
YR36K50	5.0	1,150	3,650	79/252	1/4" BSP-F	212° F	0.9 lbs.	5
YR36K55	5.5	1,150	3,650	79/252	1/4" BSP-F	212° F	0.9 lbs.	5
YR36K60	6.0	1,150	3,650	79/252	1/4" BSP-F	212° F	0.9 lbs.	5
YR36K65	6.5	1,150	3,650	79/252	1/4" BSP-F	212° F	0.9 lbs.	5
YR36K70	7.0	1,150	3,650	79/252	1/4" BSP-F	212° F	0.9 lbs.	5
YR36K80	8.0	1,150	3,650	79/252	1/4" BSP-F	212° F	0.9 lbs.	5
YR51K30	3.0	2,600	5,100	179/352	1/4" BSP-F	212° F	0.9 lbs.	5
YR51K35	3.5	2,600	5,100	179/352	1/4" BSP-F	212° F	0.9 lbs.	5
YR51K40	4.0	2,600	5,100	179/352	1/4" BSP-F	212° F	0.9 lbs.	5
YR51K45	4.5	2,600	5,100	179/352	1/4" BSP-F	212° F	0.9 lbs.	5
YR51K50	5.0	2,600	5,100	179/352	1/4" BSP-F	212° F	0.9 lbs.	5
YR51K55	5.5	2,600	5,100	179/352	1/4" BSP-F	212° F	0.9 lbs.	5
YR51K60	6.0	2,600	5,100	179/352	1/4" BSP-F	212° F	0.9 lbs.	5
YR51K65	6.5	2,600	5,100	179/352	1/4" BSP-F	212° F	0.9 lbs.	5
YR51K70	7.0	2,600	5,100	179/352	1/4" BSP-F	212° F	0.9 lbs.	5
YR51K80	8.0	2,600	5,100	179/352	1/4" BSP-F	212° F	0.9 lbs.	5
YR58K10	10.0	2,600	5,800	179/400	1/4" BSP-F	212° F	0.9 lbs.	5
YR58K12	12.0	2,600	5,800	179/400	1/4" BSP-F	212° F	0.9 lbs.	5

# NOZZLES

## Adjustable Rotating Nozzles



ZROTOMAX1



ZRMAX581

ADJUSTABLE ROTATING NOZZLES											
MODEL	COLOR	ORIFICE	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	MAX TEMP	SHP WGHT	BOX QTY
ZROTOMAX1	Red		2.1 to 2.6	1,450	3,500	8 to 10	100/241	1/4" BSP-F	176° F	1.1 lbs.	15
ZROTOMAX2	Light Blue		2.9 to 4.0	1,450	3,500	11 to 15	100/241	1/4" BSP-F	176° F	1.1 lbs.	15
ZROTOMAX3	Black		4.2 to 5.5	1,450	3,500	16 to 21	100/241	1/4" BSP-F	176° F	1.1 lbs.	15
ZRMAX581	Red	140	2.3 to 4.7	5,800	5,800	9 to 18	400	1/4" BSP-F	176° F	0.7 lbs.	N/A
ZRMAX583	Black	160	3.3 to 6.6	5,800	5,800	12 to 25	400	1/4" BSP-F	176° F	0.7 lbs.	N/A

## Rotating Nozzles Stainless Steel With Tungsten Carbide



Y7K045

ROTATING NOZZLES - STAINLESS STEEL WITH TUNGSTEN CARBIDE							
MODEL	SIZE	MAX	BAR	INLET	MAX TEMP	SHP WGHT	BOX QTY
Y7K040	#4.0	7,000	483	1/4" BSP-F	194° F	1.5 lbs.	5
Y7K045	#4.5	7,000	483	1/4" BSP-F	194° F	1.5 lbs.	5
Y7K050	#5.0	7,000	483	1/4" BSP-F	194° F	1.5 lbs.	5
Y7K055	#5.5	7,000	483	1/4" BSP-F	194° F	1.5 lbs.	5
Y7K060	#6.0	7,000	483	1/4" BSP-F	194° F	1.5 lbs.	5
Y7K065	#6.5	7,000	483	1/4" BSP-F	194° F	1.5 lbs.	5
Y7K070	#7.0	7,000	483	1/4" BSP-F	194° F	1.5 lbs.	5

## Rotating Nozzles Stainless Steel With Tungsten Carbide



YRT87K20

ROTATING NOZZLES- STAINLESS STEEL WITH TUNGSTEN CARBIDE							
MODEL	NOZZLE	MIN PSI	MAX PSI	BAR	INLET	MAX TEMP	SHP WGHT
YRT87K20	#2.0	2,600	8,700	179/600	1/4" BSP-F	195° F	1.2 lbs.
YRT87K30	#3.0	2,600	8,700	179/600	1/4" BSP-F	195° F	1.2 lbs.
YRT87K40	#4.0	2,600	8,700	179/600	1/4" BSP-F	195° F	1.2 lbs.
YRT87K50	#5.0	2,600	8,700	179/600	1/4" BSP-F	195° F	1.2 lbs.
YRT87K60	#6.0	2,600	8,700	179/600	1/4" BSP-F	195° F	1.2 lbs.
YRT87K70	#7.0	2,600	8,700	179/600	1/4" BSP-F	195° F	1.2 lbs.
YRT87K80	#8.0	2,600	8,700	179/600	1/4" BSP-F	195° F	1.2 lbs.

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

# NOZZLES



101146



ZREX14025

## Rotating Nozzles

ROTATING NOZZLES - STAINLESS STEEL & TUNGSTEN CARBIDE							
MODEL	NOZZLE SIZE	GPM	MAX PSI	LPM	BAR	INLET	SHP WGHT
ZREX14025	#2.5	12.0	5,800	45	400	1/4" NPT-F	.75 lbs.
ZREX14030	#3.0	12.0	5,800	45	400	1/4" NPT-F	.75 lbs.
ZREX14035	#3.5	12.0	5,800	45	400	1/4" NPT-F	.75 lbs.
ZREX14040	#4.0	12.0	5,800	45	400	1/4" NPT-F	.75 lbs.
ZREX14045	#4.5	12.0	5,800	45	400	1/4" NPT-F	.75 lbs.
ZREX14050	#5.0	12.0	5,800	45	400	1/4" NPT-F	.75 lbs.
ZREX14055	#5.5	12.0	5,800	45	400	1/4" NPT-F	.75 lbs.
ZREX14060	#6.0	12.0	5,800	45	400	1/4" NPT-F	.75 lbs.
ZREX14065	#6.5	12.0	5,800	45	400	1/4" NPT-F	.75 lbs.
ZREX12025	#2.5	12.0	5,800	45	400	1/2" NPT-F	.75 lbs.
ZREX12040	#4.0	12.0	5,800	45	400	1/2" NPT-F	.75 lbs.
ZREX12045	#4.5	12.0	5,800	45	400	1/2" NPT-F	.75 lbs.
ZREX12050	#5.0	12.0	5,800	45	400	1/2" NPT-F	.75 lbs.
ZREX12055	#5.5	12.0	5,800	45	400	1/2" NPT-F	.75 lbs.
ZREX12060	#6.0	12.0	5,800	45	400	1/2" NPT-F	.75 lbs.
ZREX12065	#6.5	12.0	5,800	45	400	1/2" NPT-F	.75 lbs.
ZREX12070	#7.0	12.0	5,800	45	400	1/2" NPT-F	.75 lbs.
ZREX12080	#8.0	12.0	5,800	45	400	1/2" NPT-F	.75 lbs.
ZREX12100	#10.0	12.0	5,800	45	400	1/2" NPT-F	.75 lbs.



ZRCL14025

ROTATING NOZZLES - BRASS & TUNGSTEN CARBIDE							
MODEL	NOZZLE SIZE	GPM	MAX PSI	LPM	BAR	INLET	SHP WGHT
ZRCL14025	#2.5	12.0 GPM	5,800	45	400	1/4" NPT-F	.75 lbs.
ZRCL14030	#3.0	12.0 GPM	5,800	45	400	1/4" NPT-F	.75 lbs.
ZRCL14035	#3.5	12.0 GPM	5,800	45	400	1/4" NPT-F	.75 lbs.
ZRCL14040	#4.0	12.0 GPM	5,800	45	400	1/4" NPT-F	.75 lbs.
ZRCL14045	#4.5	12.0 GPM	5,800	45	400	1/4" NPT-F	.75 lbs.
ZRCL14050	#5.0	12.0 GPM	5,800	45	400	1/4" NPT-F	.75 lbs.
ZRCL14055	#5.5	12.0 GPM	5,800	45	400	1/4" NPT-F	.75 lbs.
ZRCL14060	#6.0	12.0 GPM	5,800	45	400	1/4" NPT-F	.75 lbs.
ZRCL14065	#6.5	12.0 GPM	5,800	45	400	1/4" NPT-F	.75 lbs.
ZRCL12070	#7.0	12.0 GPM	5,800	45	400	1/2" NPT-F	.75 lbs.



YDRNT

SJN0300F3B1

## Drain Cleaning Nozzles

DRAIN CLEANING NOZZLES							
MODEL	DESCRIPTION	GPM	MAX PSI	LPM	BAR	INLET	SHP WGHT
YDRNT1	Microdrain, brass, #3.5	2.3	1,750	9	121	1/4" BSP-M	0.2 lbs.
YDRNT2	Microdrain, stainless steel, #4.0	3.8	3,650	14	252	1/4" BSP-M	0.2 lbs.
YDRNT3	Microdrain, stainless steel, #6.0	5.7	3,650	22	252	3/8" BSP-M	0.2 lbs.
ZUDRNT	Drainet, adjustable equivalent orifice diameter	16.0	3,000	61	207	3/8" BSP-M	0.2 lbs.
ZUMDRNT1	Microdrain, #5.5, equivalent orifice diameter	5.1	3,000	19	207	1/8" BSP-F	0.2 lbs.
ZUMDRNT2	Microdrain, #8.5, equivalent orifice diameter	7.4	3,000	28	207	1/8" BSP-F	0.2 lbs.

SEWER JET NOZZLES - "FLUSHER" TYPE - 3 REAR FACING NOZZLES						
MODEL	NOZZLE SIZE	MAX PSI	BAR	INLET	SHP WGHT	
SJN0300F3B1	#3.0	5,000	345	1/4" NPT-F	.325 lbs.	
SJN0400F3B1	#4.0	5,000	345	1/4" NPT-F	.325 lbs.	
SJN0450F3B1	#4.5	5,000	345	1/4" NPT-F	.325 lbs.	
SJN0500F3B1	#5.0	5,000	345	1/4" NPT-F	.325 lbs.	
SJN0550F3B1	#5.5	5,000	345	1/4" NPT-F	.325 lbs.	

SEWER JET NOZZLES - "PENETRATOR" TYPE - 1 FORWARD NOZZLE, 3 REAR FACING NOZZLES						
MODEL	NOZZLE SIZE	MAX PSI	BAR	INLET	SHP WGHT	
SJN0301F3B1	#3.0	5,000	345	1/4" NPT-F	.325 lbs.	
SJN0401F3B1	#4.0	5,000	345	1/4" NPT-F	.325 lbs.	
SJN0451F3B1	#4.5	5,000	345	1/4" NPT-F	.325 lbs.	
SJN0501F3B1	#5.0	5,000	345	1/4" NPT-F	.325 lbs.	
SJN0551F3B1	#5.5	5,000	345	1/4" NPT-F	.325 lbs.	

SPRAY TIPS & NOZZLES



# NOZZLES

## Drain Cleaning Nozzles



SJNR0303B1

SEWER JET NOZZLES - "MULTI-NOZZLE" TYPE - 1 FORWARD NOZZLE, 6 REAR FACING NOZZLES					
MODEL	NOZZLE SIZE	MAX PSI	BAR	INLET	SHW WT
SJN0301F6B1	#3.0	5,000	345	1/4" NPT-F	.325 lbs.

SEWER JET NOZZLES - "ROTATING" TYPE					
MODEL	NOZZLE SIZE	MAX PRESSURE	BAR	INLET	SHW WT
SJNR0303B1	#3.0	5,000	345	1/4" NPT-F	.325 lbs.
SJNR0353B1	#4.0	5,000	345	1/4" NPT-F	.325 lbs.
SJNR0403B1	#4.5	5,000	345	1/4" NPT-F	.325 lbs.
SJNR0453B1	#5.0	5,000	345	1/4" NPT-F	.325 lbs.
SJNR0553B1	#5.5	5,000	345	1/4" NPT-F	.325 lbs.
SJNR0603B1	#6.0	5,000	345	1/4" NPT-F	.325 lbs.
SJNR0303B3	#3.0	5,000	345	3/8" NPT-F	.4 lbs.
SJNR0353B3	#3.5	5,000	345	3/8" NPT-F	.4 lbs.
SJNR0403B3	#4.0	5,000	345	3/8" NPT-F	.4 lbs.
SJNR0453B3	#4.5	5,000	345	3/8" NPT-F	.4 lbs.
SJNR0553B3	#5.5	5,000	345	3/8" NPT-F	.4 lbs.
SJNR0603B3	#6.0	5,000	345	3/8" NPT-F	.4 lbs.



YADJNOZ

## Adjustable Nozzle Holder

ADJUSTABLE NOZZLE HOLDER							
MODEL	GPM	MAX PSI	LPM	BAR	INLET	OUTLET	SHW WT
YADJNOZ	8.0	4,050	30	280	1/4" NPT-F	1/4" NPT-F	0.5 lbs.



YDBL

## Double Nozzle Holders

DOUBLE NOZZLE HOLDERS							
MODEL	GPM	MAX PSI	LPM	BAR	INLET	OUTLET	SHW WT
DDBL14	10.5	2,900	40	200	1/4" NPT-F	(2) 1/4" NPT-F	0.5 lbs.
YDBL14	10.5	3,200	40	220	1/4" BSP-F	(2) 1/4" NPT-F	0.5 lbs.
YDBL18	10.5	3,200	40	200	1/4" BSP-F	(2) 1/8" NPT-F	0.5 lbs.
ZUDBL	5.5	3,000	21	207	1/4" BSP-F	(2) 1/4" BSP-F	0.5 lbs.

## Multi Nozzle Holder



2560001

MULTI-NOZZLE HOLDER							
MODEL	GPM	MAX PSI	LPM	BAR	INLET	OUTLET	SHW WT
2560001	10.5	5,000	40	345	1/4" QC-M	1/4" NPT-F	0.5 lbs.

## Steam Nozzle



YSTN14F

STEAM NOZZLE						
MODEL	DESCRIPTION	MAX PSI	BAR	INLET	SHW WT	
YSTN14F	1.5 mm, .06 nozzle	1,450	100	1/4" BSP-F	0.3 lbs.	
DSN14F	Steam nozzle, blank			1/4" NPT-F	0.2 lbs.	

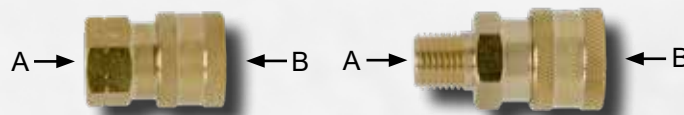
## Duct Cleaning Nozzle



DDC25020

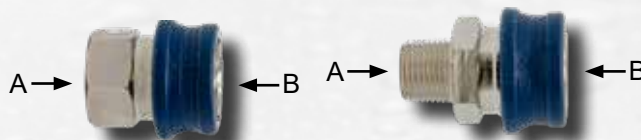
STEAM NOZZLE									
MODEL	DESCRIPTION	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	NOZZLE	SHW WT
DDC25020	Duct cleaning nozzle, grease zirc on swivel	8.0	1,500	4,000	30	103/276	1/4" NPT-F	925020S (2)	12.0 lbs.

# COUPLERS & FITTINGS



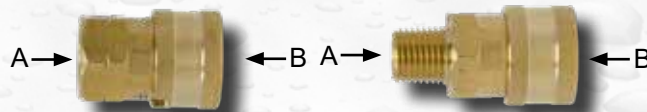
**Normal Brass Couplers  
EPDM O-ring**

NORMAL BRASS COUPLER, EPDM O-RING					
PART NUMBER	THREAD A	THREAD B	MAXIMUM PSI	BAR	BOX QTY
D10001	1/4" NPT-F	1/4" Coupler	5,000 PSI	345	200
D10002	1/4" NPT-M	1/4" Coupler	5,000 PSI	345	200
D10003	3/8" NPT-F	3/8" Coupler	4,000 PSI	276	200
D10004	3/8" NPT-M	3/8" Coupler	4,000 PSI	276	200
D10005	1/2" NPT-M	3/8" Coupler	4,000 PSI	276	200
D10013	1/2" NPT-F	3/8" Coupler	4,000 PSI	276	200
D10035	M22-M	3/8" Coupler	4,000 PSI	276	200
D10088	M22 Coupler, 14 mm	3/8" Coupler	4,000 PSI	276	200



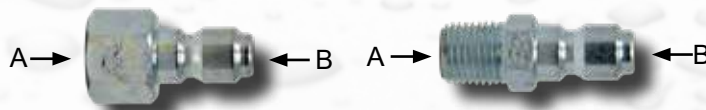
**EZ Grip  
Nickel-Plated Brass  
Couplers, EPDM O-Ring**

EZ GRIP BRASS COUPLER, EPDM O-RING					
PART NUMBER	THREAD A	THREAD B	MAXIMUM PSI	BAR	BOX QTY
D10061	1/4" NPT-F	1/4" Coupler	5,000	345	200
D10062	1/4" NPT-M	1/4" Coupler	5,000	345	200
D10063	3/8" NPT-F	3/8" Coupler	4,000	276	200
D10064	3/8" NPT-M	3/8" Coupler	4,000	276	200



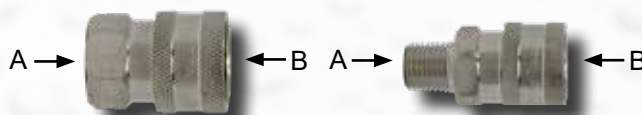
**Couplers, Collar Lock,  
Brass, EPDM O-ring**

COUPLER, COLLAR LOCKS, EPDM O-RING					
PART NUMBER	THREAD A	THREAD B	MAXIMUM PSI	BAR	BOX QTY
D10122	1/4" NPT-F	1/4" Coupler	5,000	345	200
D10123	1/4" NPT-M	1/4" Coupler	5,000	345	200
D10124	3/8" NPT-F	3/8" Coupler	4,000	276	200
D10125	3/8" NPT-M	3/8" Coupler	4,000	276	200



**Zinc-Plated Hardened  
Steel Plugs**

ZINC-PLATED HARDENED STEEL PLUG					
PART NUMBER	THREAD A	THREAD B	MAXIMUM PSI	BAR	BOX QTY
D11006	1/4" NPT-F	1/4" Plug	5,000	345	200
D11007	1/4" NPT-M	1/4" Plug	5,000	345	200
D11008	3/8" NPT-F	3/8" Plug	4,000	276	200
D11009	3/8" NPT-M	3/8" Plug	4,000	276	200
D10089	M22-M	3/8" Plug	4,000	276	200

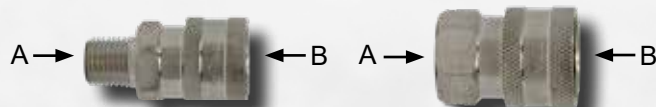


**Stainless Steel Couplers  
w/lock Feature, 304 SS**

ZINC-PLATED HARDENED STEEL PLUG					
PART NUMBER	THREAD A	THREAD B	MAXIMUM PSI	BAR	BOX QTY
D10130L	1/4" NPT-F	1/2" Coupler	5,000	345	200
D10131L	1/4" NPT-M	1/2" Coupler	5,000	345	200
D10132L	3/8" NPT-F	1/2" Coupler	5,000	345	200
D10133L	3/8" NPT-M	1/2" Coupler	5,000	345	200
D10074L	3/8" NPT-F	3/8" Coupler	5,000	345	200
D10075L	3/8" NPT-M	3/8" Coupler	5,000	345	200
D10090L (FKM O-ring)	1/2" NPT-F	1/2" Coupler	5,000	345	200
D10091L (FKM O-ring)	1/2" NPT-M	1/2" Coupler	5,000	345	200

# COUPLERS & FITTINGS

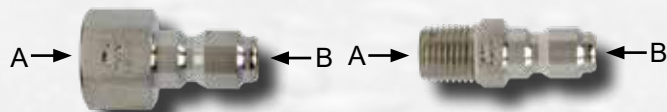
## Stainless Steel Couplers, 304SS



STAINLESS STEEL COUPLERS, 304SS

PART NUMBER	THREAD A	THREAD B	MAXIMUM PSI	BAR	BOX QTY
D10072	1/4" NPT-F	1/4" Coupler	6,000	414	200
D10073	1/4" NPT-M	1/4" Coupler	6,000	414	200
D10074	3/8" NPT-F	3/8" Coupler	6,000	414	200
D10075	3/8" NPT-M	3/8" Coupler	6,000	414	200
D10090	1/2" NPT-F	1/2" Coupler	5,000	345	200
D10091	1/2" NPT-M	1/2" Coupler	5,000	345	200

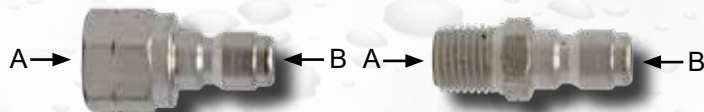
## Stainless Steel Plugs, 304SS



STAINLESS STEEL PLUGS, 304SS

PART NUMBER	THREAD A	THREAD B	MAXIMUM PSI	BAR	BOX QTY
D10076	1/4" NPT-F	1/4" Plug	6,000	414	200
D10077	1/4" NPT-M	1/4" Plug	6,000	414	200
D10078	3/8" NPT-F	3/8" Plug	6,000	414	200
D10079	3/8" NPT-M	3/8" Plug	6,000	414	200
D10092	1/2" NPT-F	1/2" Plug	5,000	345	200
D10093	1/2" NPT-M	1/2" Plug	5,000	345	200
D10134	1/4" NPT-F	1/2" Plug	5,000	345	200
D10135	1/4" NPT-M	1/2" Plug	5,000	345	200
D10136	3/8" NPT-F	1/2" Plug	5,000	345	200
D10137	3/8" NPT-M	1/2" Plug	5,000	345	200

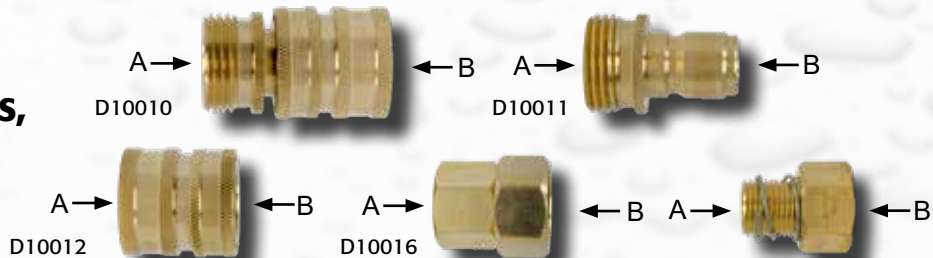
## Stainless Steel Plugs, 416SS Hardened



STAINLESS STEEL PLUGS, 416SS HARDENED

PART NUMBER	THREAD A	THREAD B	MAXIMUM PSI	BAR	BOX QTY
520134	1/4" NPT-M	1/4" Plug	6,000	414	200
520135	3/8" NPT-F	3/8" Plug	6,000	414	200
520136	3/8" NPT-M	3/8" Plug	6,000	414	200

## Garden Hose Fittings, Brass



GARDEN HOSE FITTINGS, BRASS

PART NUMBER	THREAD A	THREAD B	RUBBER WASHER	BOX QTY
D10010	3/4" GH-M	3/4" GH-F	Included	200
D10011	3/4" GH-M	1/2" Plug	Not Included	200
D10012	3/4" GH-F	1/2" Coupler	Included	200
D10016	1/2" NPT-F	3/4" GH-F	Included	200
D10017	3/8" NPT-F	3/4" GH-F	Included	
D10032	1/2" NPT-M	3/4" GH-F	Included	
D10033	3/8" NPT-M	3/4" GH-F	Included	

# COUPLERS & FITTINGS



**Garden Hose Inlet Fittings, Brass**

GARDEN HOSE INLET FITTINGS - BRASS				
PART NUMBER	THREAD A	THREAD B	PORT C	BOX QTY
D10084	3/8" BSP-M	3/4" GH-F	1/4" NPT-F	
D10085	1/2" NPT-M	3/4" GH-F	1/4" NPT-F	
680006	1/2" BSP-M	3/4" GH-F	N/A	
680007	3/8" BSP-M	3/4" GH-F	1/4" NPT-F	
680073	1/2" BSP-M	3/4" GH-F	N/A	



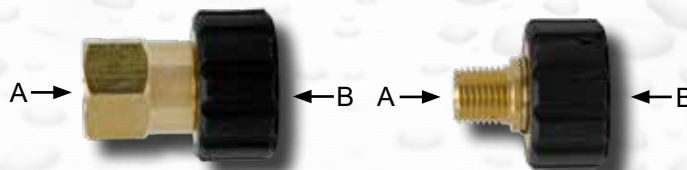
**M22 Brass Plugs**

M22 BRASS PLUGS					
PART NUMBER	THREAD A	THREAD B	MAXIMUM PSI	BAR	BOX QTY
D10021	1/4" NPT-M	M22 Plug	4,000	276	
D10023	3/8" NPT-M	M22 Plug	4,000	276	
D10024	3/8" NPT-F	M22 Plug	4,000	276	
D10040	M22-M	M22 Plug	4,000	276	



**M22 Adapters, Brass**

M22 ADAPTERS - BRASS					
PART NUMBER	THREAD A	THREAD B	MAXIMUM PSI	BAR	BOX QTY
2510103	1/4" NPT-F	M22 Plug	4,000	276	200
2510253	3/8" NPT-F	M22 Plug	4,000	276	200
D10037	3/8" Steel Plug	M22-F	4,000	276	200



**M22 Couplers, Brass**

M22 COUPLERS - BRASS					
PART NUMBER	THREAD A	THREAD B	MAXIMUM PSI	BAR	BOX QTY
D10027	1/4" NPT-F	M22 Coupler, 14 mm	4,000	276	
D10028	1/4" NPT-M	M22 Coupler, 14 mm	4,000	276	
D10029	3/8" NPT-F	M22 Coupler, 14 mm	4,000	276	
D10030	3/8" NPT-M	M22 Coupler, 14 mm	4,000	276	
D10041	M22 Coupler, 14 mm	M22 Coupler, 14 mm	4,000	276	



**High Pressure Swivels**

M22 COUPLERS - BRASS						
PART NUMBER	THREAD A	THREAD B	MATERIAL	MAXIMUM PSI	BAR	BOX QTY
D10066	3/8" NPT-M	3/8" NPT-F	Brass	4,000	276	
D10099	3/8" NPT-F	3/8" NPT-F	Brass	4,000	276	
D10067	3/8" NPT-M	3/8" NPT-F	Stainless Steel	5,000	345	
D10114	3/8" NPT-M	3/8" NPT-F	Stainless Steel	5,000	345	
DSWG385S	3/8" NPT-M	3/8" NPT-F	Stainless Steel	5,000	345	

# COUPLERS & FITTINGS

## Quick Disconnect Fittings Twist Connect



ZMINA-B

D10023

D10024

### QUICK DISCONNECT FITTINGS - TWIST CONNECT

PART NUMBER	DESCRIPTION	RATED PSI	MAX PSI	BAR	SHW WGHT	BOX QTY
ZMINA14F	1/4" F Plug	3,000	3,000	207	0.2 lbs.	30
ZMINA14M	1/4" M Plug	3,000	3,000	207	0.2 lbs.	30
ZMINA38F	3/8" F Plug	3,000	3,000	207	0.2 lbs.	30
ZMINB12M	1/2" M Coupler	3,000	3,000	207	0.2 lbs.	30
ZMINB14F	1/4" F Coupler	3,000	3,000	207	0.2 lbs.	30
ZMINB14M	1/4" M Coupler	3,000	3,000	207	0.2 lbs.	30
ZMINB38F	3/8" F Coupler	3,000	3,000	207	0.2 lbs.	30
ZMINB38M	3/8" M Coupler	3,000	3,000	207	0.2 lbs.	30
2510103	1/4" F Plug x M22	4,000	4,000	276	0.2 lbs.	100
D10021	1/4" M Plug x M22	4,000	4,000	276	0.2 lbs.	200
D10023	3/8" M Plug x M22	4,000	4,000	276	0.2 lbs.	200
D10024	3/8" F Plug x M22	4,000	4,000	276	0.2 lbs.	200

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



D10030

D10028

### QUICK DISCONNECT FITTINGS - TWIST CONNECT - EPDM O-RING

PART NUMBER	DESCRIPTION	RATED PSI	MAX PSI	BAR	SHW WGHT	BOX QTY
D10027	1/4" F Coupler, 1 O-ring, M22	4,000	4,000	276	0.2 lbs.	200
D10028	1/4" M Coupler, 1 O-ring, M22	4,000	4,000	276	0.2 lbs.	200
D10029	3/8" F Coupler, 1 O-ring, M22	4,000	4,000	276	0.2 lbs.	200
D10030	3/8" M Coupler, 1 O-ring, M22	4,000	4,000	276	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



D10037

D10041

D10044

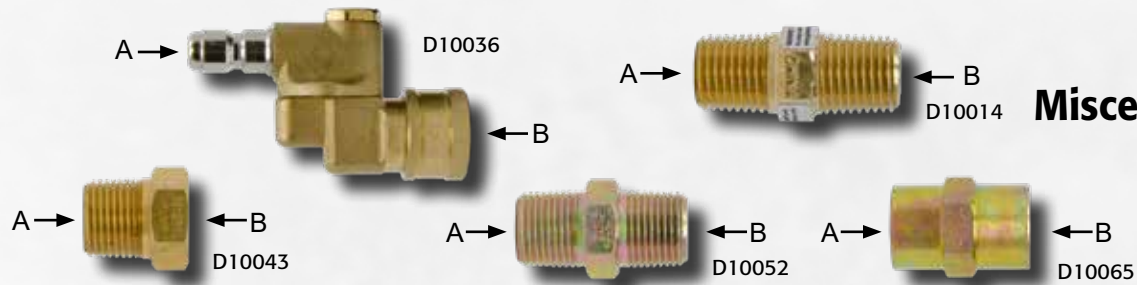
D10052

### QUICK DISCONNECT FITTINGS - TWIST CONNECT

PART NUMBER	DESCRIPTION	RATED PSI	MAX PSI	BAR	SHW WGHT	BOX QTY
D10040	M22 QD Plug x M22 QD Plug	4,000	4,000	276	0.1 lbs.	200
D10041	M22 Coupler x M22 Coupler	4,000	4,000	276	0.3 lbs.	200
D10043	Brass Pipe Thread Reducer, 3/8" NPT-M x 1/4" NPT-F	4,000	4,000	276	0.2 lbs.	200
D10037	M22 Coupler x 3/8" QD Plug	4,000	4,000	276	0.2 lbs.	200
D10052	Union, 3/8" NPT-M x 3/8" NPT-M, steel	4,000	4,000	276	0.2 lbs.	200

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# COUPLERS & FITTINGS



## Miscellaneous Fittings

STAINLESS STEEL COUPLERS, 304SS					
PART NUMBER	THREAD A	THREAD B	MAXIMUM PSI	BAR	BOX QTY
D10036	1/4" Plug	1/4" Coupler	4,000	276	200
D10014	1/4" NPT-M	1/4" NPT-M	4,000	276	200
D10043	3/8" NPT-M	1/4" NPT-F	4,000	276	200
D10052	3/8" NPT-M	3/8" NPT-M	5,000	245	200
D10065	3/8" NPT-F	3/8" NPT-F	5,000	245	200



## Manifold Blocks

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
D10127	2 way, 1/2" NPT-F X 1/2" NPT-F, bolt-Down, 5,000 PSI

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# FILTERS & STRAINERS

## Inline High-Pressure Filters



INLINE HIGH-PRESSURE FILTERS									
PART NUMBER	DESCRIPTION	GPM	MAX	LPM	BAR	MAX TEMP	INLET	OUTLET	SHP WGHT
100560	100 mesh screen, 303 ss w/brass outlet	8.0	5,500	30	379	200° F	1/4" QD	1/4" NPT-M	0.5 lbs.
100622	100 mesh screen, brass	8.0	5,000	30	345	200° F	1/4" NPT-M	1/4" NPT-M	0.5 lbs.
100647	100 mesh screen, brass	8.0	5,000	30	345	200° F	1/4" NPT-F	1/4" NPT-M	0.5 lbs.
101146	100 mesh screen, 303 ss	40.0	5,000	151	345	200° F	1/2" NPT-F	1/2" NPT-M	0.7 lbs.
D40014	100 mesh screen, brass	12.0	4,000	45	276	250° F	3/8" NPT-F	3/8" NPT-M	0.33 lbs.
D40015	100 mesh screen, 303 ss w/brass outlet	12.0	5,000	45	345	250° F	3/8" NPT-F	3/8" NPT-M	0.33 lbs.

## Chemical Filters



CHEMICAL FILTERS			
PART NUMBER	DESCRIPTION	SHP WGHT	BOX QTY
ZOFILKIT	Chemical hose and filter	0.5 lbs.	N/A
YF00	Plastic chemical filter	0.3 lbs.	N/A
YF00C	Plastic chemical filter with check valve	0.3 lbs.	N/A
YF30	Plastic chemical filter with SS plug	0.3 lbs.	N/A
YF30C	Plastic chemical filter with SS plug, check valve	0.3 lbs.	N/A
D40001	Plastic chemical filter with SS plug, check valve, 1/4" hose barb, and 4' Hose	0.5 lbs.	N/A
D40003	Plastic chemical filter with check valve, gray, dual barb for 1/4"(6mm) or 5/16" (8mm) hose	0.3 lbs.	N/A
D40006	Plastic chemical filter, no check valve, black, dual barb for 1/4"(6mm) or 5/16" (8mm) hose	0.3 lbs.	N/A
D40013	Chemical filter, brass/SS, 1/4" hose barb	0.5 lbs.	N/A
D40016	Inlet suction tank filter, 3/8"-NPT-F, 40 mesh, S304	0.5 lbs.	N/A
D40017	Inlet suction tank filter, 1/2"-NPT-F, 40 mesh, S304	0.5 lbs.	N/A
ZF1	Plastic filter with brass, 1/4" hose barb	0.2 lbs.	30
ZF2	Plastic filter with 1/4" hose barb and check valve	0.3 lbs.	30

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# FILTERS & STRAINERS



## Inlet Filters

INLET FILTERS									
PART NUMBER	DESCRIPTION	GPM	MAX PSI	LPM	BAR	INLET	OUTLET	BYPASS	SHP WGHT
100649	Integrated garden hose nut	8.0	150	30	10	3/4" GH	1/2" NPT-M	N/A	0.5 lbs.
100650	Integrated garden hose nut	8.0	150	30	10	3/4" GH	3/8" NPT-M	N/A	0.5 lbs.
100651	Integrated garden hose nut	8.0	150	30	10	3/4" GH	1/2" NPT-M	1/4"	0.5 lbs.
100652	Integrated garden hose nut	8.0	150	30	10	3/4" GH	3/8" NPT-M	1/4"	0.5 lbs.
2100472	Aluminum body, 50 mesh	8.0	145	30	10	1/2" NTP-F	1/2" NTP-M	(2)1/4" BSP-F	0.5 lbs.
2100472GH	Aluminum body, 50 mesh	8.0	145	30	10	1/2" NTP-F	1/2" NTP-M	(2)1/4" BSP-F	0.5 lbs.
ZMFIL	Aluminum body, 50 mesh	5.8	145	22	10	1/2" BSP-F	1/2" BSP-M	(2)1/4" BSP-F	0.5 lbs.



## Clear Bowl Filters

DF Filters

CLEAR BOWL FILTERS							
PART NUMBER	DESCRIPTION	MAX PSI	BAR	INLET	OUTLET	BYPASS	SHP WGHT
DF05050	50 Mesh Screen	150	10	1/2" NPT-F	1/2" NPT-F	N/A	0.5 lbs
DF07550	50 Mesh Screen	150	10	3/4" NPT-F	3/4" NPT-F	N/A	0.5 lbs
DF10050	50 Mesh Screen	150	10	1" NPT-F	1" NPT-F	N/A	0.75 lbs
DF12550	50 Mesh Screen	150	10	1-1/4" NPT-F	1-1/4" NPT-F	N/A	0.75 lbs
DF15050	50 Mesh Screen	150	10	1-1/2" NPT-F	1-1/2" NPT-F	N/A	1.0 lbs.
DF05080	80 Mesh Screen	150	10	1/2" NPT-F	1/2" NPT-F	N/A	0.5 lbs
DF07580	80 Mesh Screen	150	10	3/4" NPT-F	3/4" NPT-F	N/A	0.5 lbs
DF10080	80 Mesh Screen	150	10	1" NPT-F	1" NPT-F	N/A	0.75 lbs
DF12580	80 Mesh Screen	150	10	1-1/4" NPT-F	1-1/4" NPT-F	N/A	0.75 lbs
DF15080	80 Mesh Screen	150	10	1-1/2" NPT-F	1-1/2" NPT-F	N/A	1.0 lbs.



## Inlet Strainers

YFY1

YF5MF

YYSTR12

INLET STRAINERS									
PART NUMBER	DESCRIPTION	GPM	MAX PSI	LPM	BAR	INLET	OUTLET	BYPASS	SHP WGHT
YF5BMF	Plastic Body, 50 Mesh	8.0	145	30	10	1/2" BSP-M	1/2" BSP-F	1/4"	0.5 lbs.
YF5MF	Plastic Body, 50 Mesh	8.0	145	30	10	1/2" BSP-M	1/2" BSP-F	N/A	0.5 lbs.
YFY1	Plastic Body, 50 Mesh	21.0	145	79	10	1" BSP-F	1" BSP-F	N/A	0.5 lbs.
YFY34	Plastic Body, 50 Mesh	21.0	145	79	10	3/4" BSP-F	3/4" BSP-F	N/A	0.5 lbs.
YYSTR12	Brass Body, 45 Mesh	10.6	175	40	12	1/2" NPT-F	1/2" NPT-F	N/A	0.5 lbs.
639742	Plastic Body, 40 Mesh, Banjo	N/A	150	N/A	10		3/4" NPT-F	N/A	0.3 lbs.
639930	Plastic Body, 40 Mesh, Banjo	N/A	150	N/A	10		1" NPT-F	N/A	0.9 lbs.



# GAUGES & SWITCHES

## Thermostats



100272



100438



Y29026035

THERMOSTATS									
PART NUMBER	DESCRIPTION	GPM	MAX PSI	LPM	BAR	MAX TEMP	INLET	OUTLET	SHP WGHT
100272	Flow through style	1 to 35	5,000	To132	345	Amb.-200°	1/2" NPT	1/2" NPT	1.0 lbs.
<b>Probe Style Thermostats, Insulated SS Capillary Copper Immersion Bulb (UL/CSA Approved):</b>									
100438	20A, 120/240V electric rating	-	4,000		276	86-195° F	-	-	0.5 lbs.
100439	20A, 120/240V electric rating	-	4,000		276	86-302° F	-	-	0.5 lbs.
100538	20A, 120/240V electric rating	-	4,000		276	86-250° F	-	-	0.5 lbs.
100995	25 Amp, 250V electric rating	-	6,000		414	70-250° F	-	-	0.5 lbs.
<b>Thermostats Bulk Packaged (25 per box). Product Group B:</b>									
100438B	20A, 120/240V electric rating	-	4,000		276	86-194° F	-	-	0.5 lbs.
100439B	20A, 120/240V electric rating	-	4,000		276	86-320° F	-	-	0.5 lbs.
100538B	20A, 120/240V electric rating	-	4,000		276	86-250° F	-	--	0.5 lbs.
Y29026035	Probe pocket	-	4,000		276	N/A	-	-	0.4 lbs.

## Pressure Switches



YPRESSWITCH



YPRESSWITCH535



YPRESSWITCHHP

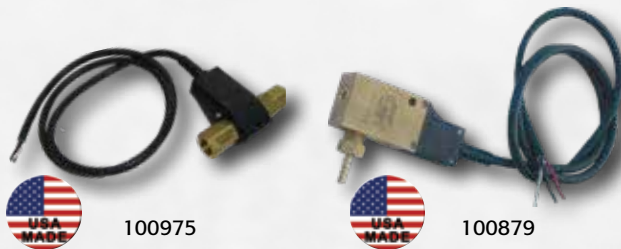


ZMSIMPLEX3

NOTE: amp ratings are resistive, not inductive

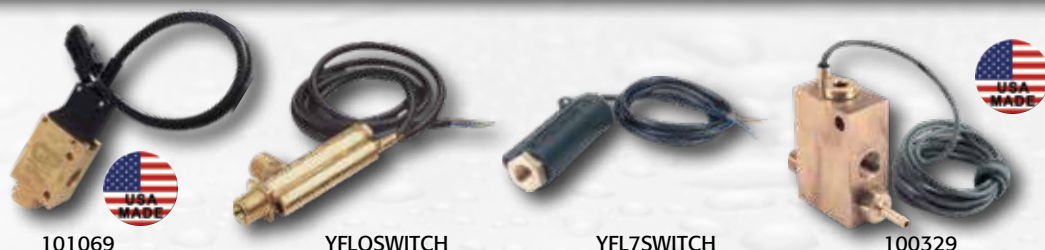
PRESSURE SWITCHES							
PART NUMBER	ACTIVATED PSI	RATED PSI	MAX PSI	BAR	MAX TEMP	INLET	SHP WGHT
<b>16 amps, 250 volts, 580 switching pressure, brass stem, stainless steel nipple:</b>							
YPRESSWITCH	580	3,650	5,000	40/252/345	194° F	1/4" NPT-M	0.5 lbs.
YPRSWITCHXL (67" lead)	580	3,650	5,000	40/252/345	194° F	1/4" NPT-M	0.5 lbs.
<b>16 amps, 250 volts, 360 switching pressure, brass stem, stainless steel nipple:</b>							
YPRESSWITCH1535	360	3,650	5,000	25/252/345	194° F	3/8" BSP-M	0.5 lbs.
<b>16 amps, 250 volts, 580 switching pressure, brass stem, stainless steel nipple:</b>							
YPRESSWITCH1564	580	3,650 PSI	5,000	40/252/345	194° F	3/8" BSP-M	0.5 lbs.
<b>6 amps, 250 volts, 360 switching pressure, brass stem and nipple:</b>							
YPRESSWITCH535	360	3,650	5,000	25/252/345	194° F	1/4" BSP-M	0.5 lbs.
<b>6 amps, 250 volts, 580 switching pressure, brass stem and nipple:</b>							
YPRESSWITCH564	580	3,650	5,000	40/252/345	194° F	1/4" BSP-M	0.5 lbs.
<b>16 amps, 250 volts, 360 switching pressure, stainless steel stem and nipple:</b>							
YPRSWITCHHPL	360	8,700	9,570	25/600/660	194° F	3/8" BSP-M	0.5 lbs.
<b>16 amps, 250 volts, 650 switching pressure, stainless steel stem and nipple:</b>							
YPRESSWITCHHP	650	8,700	9,570	45/600/660	194° F	3/8" BSP-M	0.5 lbs.
<b>16 amps, 250 volts, 215 switching pressure, stainless steel stem and nipple:</b>							
YPRESSWITCH1521	220	3,650	5,000	15/252/345	194° F	1/4" NPT-M	0.5 lbs.
<b>6 amps, 250 volts, 215 switching pressure, stainless steel stem and nipple:</b>							
YPRESSWITCH521	215	3,650	5,000	15/252/345	194° F	1/4" BSP-M	0.5 lbs.
<b>5 amps, 250 volts, 435 switching pressure, stainless steel stem and nipple:</b>							
ZMSIMPLEX3	435	3,000	3,000	30/207	195° F	1/4" BSP-M	0.5 lbs.

# GAUGES & SWITCHES



## Flow Switches Reedless

TMT INLINE FLOW SWITCHES, 5 AMP MICROSWITCH, MINIMUM ACTIVATION FLOW, 48" 18 AWG LEAD, NO SPRING, USES MAGNETS FOR ALL MOVEMENTS										
PART NUMBER	GPM	MAX PSI	LPM	BAR	MAX TEMP	INLET	OUTLET	VOLTAGE	MATERIAL	SHP WGHT
100975	12.0	5,000	45	345	180° F	3/8" NPT-F	3/8" NPT-F	250 VAC	Brass	1.25 lbs.
100931	12.0	5,800	45	400	180° F	3/8" NPT-F	3/8" NPT-F	250 VAC	SS	1.5 lbs.
<b>With pilot feature (0.5 GPM activation):</b>										
100879	12.0	4,000	45	276	180° F	3/8" NPT-F	3/8" NPT-F	250 VAC	Brass	1.5 lbs.
<b>Without pilot feature (0.5 GPM activation):</b>										
100904	12.0	4,000	45	276	180° F	3/8" NPT-F	3/8" NPT-F	250 VAC	Brass	1.5 lbs.



## Flow Switches

FLOW SWITCHES										
PART NUMBER	GPM	RATED PSI	MAX PSI	LPM	BAR	MAX TEMP	INLET	OUTLET	SHP WGHT	
<b>3 amp, 250 volts, 36" cord (mounted in vertical position only):</b>										
YFLOSWITCH	8.0	3,650	4,050	30	251/279	165° F	3/8" BSP-M	3/8" BSP-M	0.6 lbs.	
<b>3 amp, 250 volts, 48" cord, 1/4" BSP-F gauge port:</b>										
YFL3SWITCH	8.0	3,650	4,050	30	251/279	165° F	3/8" BSP-M	3/8" BSP-M	0.4 lbs.	
<b>3 amp, 230 volts, 49" cord, 1/4" BSP-F gauge port:</b>										
YFL12	26.4	4,000	4,500	100	276/310	165° F	3/4" NPT-F	3/4" NPT-F	0.4 lbs.	
<b>1 amp, 250 volts, 48" cord, flow through design:</b>										
YFL7SWITCH	8.0	5,100	5,650	30	352/390	165° F	3/8" BSP-F	3/8" BSP-F	0.86 lbs.	
<b>3 amp, 120 volts AC, 96" cord, no pilot:</b>										
103011	.75 to 18.7	4,000	4,000	3 to 71	276	190° F	3/8" NPT-F	3/8" NPT-F	2.5 lbs.	
<b>3 amp, 120 volts AC, 96" cord with pilot feature (5 amp max carrying):</b>										
100329	.75 to 18.7	4,000	4,000	3 to 71	276	190° F	3/8" NPT-M	3/8" NPT-F	2.5 lbs.	
<b>5 amp, 250 volts, new high flow flow switch, 4 gpm minimum activation, 48" 18 AWG lead:</b>										
101068	12.0	4,000	4,000	45	276	180° F	1/2" NPT- F	1/2" NPT- F	1.9 lbs.	
	25.0	3,000	3,000	95	207	180° F	1/2" NPT- F	1/2" NPT- F	1.9 lbs.	
<b>With Weatherpack connector:</b>										
101069	12.0		4,000	45	276	180° F	1/2" NPT- F	1/2" NPT- F	1.9 lbs.	
	25.0		3,000	95	207	180° F	1/2" NPT- F	1/2" NPT- F	1.9 lbs.	



## High Limit Thermal Switches

HIGH LIMIT THERMAL SWITCHES							
PART NUMBER	MAX PSI	BAR	VOLTAGE	INLET	CORDED	SWITCH TEMP	SHP WGHT
TS38250	5,000	345	5 AMPS @ 120 VAC	3/8" NPT	Yes, 68"	250° F	0.5 lbs.
TS12250	5,000	345	5 AMPS @ 120 VAC	1/2" NPT	Yes, 68"	250° F	0.5 lbs.
TS38230	5,000	345	5 AMPS @ 120 VAC	3/8" NPT	Yes, 68"	230° F	0.5 lbs.
TS12230	5,000	345	5 AMPS @ 120 VAC	1/2" NPT	Yes, 68"	230° F	0.5 lbs.
TS38190	5,000	345	5 AMPS @ 120 VAC	3/8" NPT	Yes, 68"	190° F	0.5 lbs.
TS12190	5,000	345	5 AMPS @ 120 VAC	1/2" NPT	Yes, 68"	190° F	0.5 lbs.
TS38150	5,000	345	5 AMPS @ 120 VAC	3/8" NPT	Yes, 68"	150° F	0.5 lbs.
TS12150	5,000	345	5 AMPS @ 120 VAC	1/2" NPT	Yes, 68"	150° F	0.5 lbs.

NOTE: extended probes available with an "EX" after part number

# GAUGES & SWITCHES

## Throttle Control



ZSPEED

### THROTTLE CONTROL FOR GASOLINE ENGINES

PART NUMBER	RATED PSI	MAX PSI	BAR	INLET	SHP WGHT
ZSPEED	725	3,000	50/207	3/8" NPT-M	1.1 lbs.

## Gauges



320001



320002

### GAUGES

PART NUMBER	PSI	BAR	PORT	PORT LOCATION	SHP WGHT
639617	200	14	1/4" NPT-M	Bottom mount	0.7 lbs.
320005	2,000	138	1/4" NPT	Bottom mount	0.7 lbs.
320000	3,000	207	1/4" NPT	Panel mount	0.7 lbs.
320002	3,000	207	1/4" NPT	Bottom mount	0.7 lbs.
320001	5,000	345	1/4" NPT	Panel mount	0.7 lbs.
320003	5,000	345	1/4" NPT	Bottom mount	0.7 lbs.
639566	5,000	345	1/4" NPT-M	Bottom mount	0.7 lbs.
320019	10,000	690	1/2" NPT-M	Bottom mount	0.7 lbs.
639159	15,000	1034	1/2" NPT-M	Bottom Mount	0.7 lbs.
320004	20,000	1379	1/2" NPT	Bottom Mount	1.0 lbs.



## MUD SERIES

PAGE 40

GENERAL PUMP




General Pump's line of mud pumps are specifically designed to handle a wide variety of drilling fluids. The line includes four different power frames covering a wide range of flow rates up to 105 GPM and pressures up to 1300 PSI. Gearboxes and SAE hydraulic drives are available for most models.

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# GAUGES & SWITCHES



190031

## Valve Caps with Gauge Ports

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, EP, ES Series pumps	0.5 lbs.
190358	Valve cap with gauge port for 47 Series pumps, fine thread	0.5 lbs.
190549	Valve cap with gauge port for ET Series pumps, fine thread	



YSW38MFB

YSW38MFSS

D10066

## Swivels High Pressure



DSW9012SS



DSWG38SS



D10114

HIGH PRESSURE SWIVELS										
PART NUMBER	DESCRIPTION	GPM	RATED PSI	MAX PSI	LPM	BAR	INLET	OUTLET	WORKING TEMP	SHP WGHT
YSW38MFB	Medium resistance, brass	10.5	3,650	4,050	40	252/279	3/8" NPT-M	3/8" BSP-F	194° F	0.3 lbs.
YSW14MFB	Medium resistance, brass	10.5	3,650	4,050	40	252/279	1/4" NPT-M	1/4" BSP-F	194° F	0.3 lbs.
YSW38MFSS	Medium resistance, SS	10.5	5,100	5,650	40	352/390	3/8" NPT-M	3/8" NPT-F	194° F	0.3 lbs.
YSW14MFSS	Medium resistance, SS	10.5	5,100	5,650	40	352/390	1/4" NPT-M	1/4" NPT-F	194° F	0.3 lbs.
YSW9014SS	Medium resistance, SS, 90 Deg	10.5	3,650	4050	40	252/279	1/4" BSP-M	1/4" BSP-F	194° F	0.3 lbs.
D10066	Brass	10.0	4,000	4,000	38	276	3/8" NPT-M	3/8" NPT-F	200° F	0.3 lbs.
D10099	Brass	10.0	4,000	4,000	38	276	3/8" NPT-F	3/8" NPT-F	200° F	0.3 lbs.
D10067	Stainless Steel	10.0	5,000	5,000	38	345	3/8" NPT-M	3/8" NPT-F	200° F	0.3 lbs.
D10114	Stainless Steel, 90°	10.0	3,000	3,000	38	207	3/8" NPT-M	3/8" NPT-F	200° F	0.3 lbs.
DSWG38SS	Stainless Steel	15.0	5,000	5,000	57	345	3/8" NPT-M	3/8" NPT-F	250° F	0.3 lbs.
DSW9038SS	Stainless Steel	15.0	5,000	5,000	57	345	3/8" NPT-F	3/8" NPT-F	250° F	1.1 lbs.
DSW9012SS	Stainless Steel	25.0	5,000	5,000	95	345	1/2" NPT-F	1/2" NPT-F	250° F	1.1 lbs.
DSW9022MSS	Swivel 90°, M22 X1.5-M, SS, ball bearing	25.0	5,000	5,000	95	345	1/2" NPT-F	M22-M	250° F	1.1 lbs.



PU1021

## Complete Electric Pressure Washers

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.

# MISCELLANEOUS ACCESSORIES

## Accumulators/ Pulsation Dampeners



ZMACC1

686028

686010

### ACCUMULATORS / PULSATION DAMPENERS

PART NUMBER	DESCRIPTION	GPM	RATED PSI	LPM	BAR	INLET	SHP WGHT
686028	Rechargeable	10.0	3,000	38	207	1/2" NPT-M	2.5 lbs.
686011	Non-rechargeable	10.0	3,000	38	207	1/2" NPT-M	2.5 lbs.
ZMACC	Rechargeable	21.0	3,600	79	248	1/2" NPT-M	2.5 lbs.
686010*	Rechargeable	40.0	3,000	151	207	1" NPT-M	7.0 lbs.

## Float Tank and Valves



YFLOATVALVE

YRG60FV

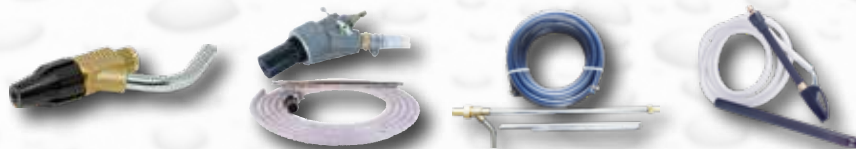
YRG30FV

YFLOATANK

### FLOAT TANK AND VALVES

PART NUMBER	DESCRIPTION	GPM	RATED PSI	LPM	BAR	INLET	SHP WGHT	BOX QTY
YFLOATVALVE	Brass, Gray Float	7.0	145	26	10	3/8" BSP-M	0.8 lbs.	25
YRG60FV	Brass, Float	7.0	145	26	10	1/2" BSP-M	0.8 lbs.	25
YRG30FV	Plastic, Float	7.4/10.5	145	28/40	10	1/2" BSP-M	0.5 lbs.	25
YFLOATANK	1.05 Gallon Plastic Tank with Cover and Brass Float Valve					3/8" BSP-M	0.5 lbs.	N/A

## Sandblasting Nozzles



ZMSNDBLST1

DWSDBTK

DSDBK1

ZOSANDKIT1

### SANDBLASTING NOZZLES

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

# MISCELLANEOUS ACCESSORIES



100783 Extraction Kit

## Service Products

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
KINSTX63	Packing Insertion Kit, 63 Series
KINSTSF66	Packing Insertion Kit, 66 Series, High Flow (TSF)
KINSTSP66	Packing Insertion Kit, 66 Series, High Pressure (TSP)
KINSHCK40LP	LP Seal Insertion Kit, 71 Series (HTCK4050S)
TOOLKITPRI	Complete Packing Replacement and Insertion Kit
ZMVALAT	Complete Tool Kit
ZMVT00L	Packing Insertion Tool
26083500	Oil Seal Insertion Tool, 47 Series
520298	Slide Hammer
F27516900	Valve Removal Tool, , KF Series
F27513600	Inlet Valve Bushing Removal Tool
660261	LP Seal Installation Tool, Plastic
27917200	Piston Guide Oil Seal Insertion Tool, 47 Series
27904900	Plunger Guide Oil Seal Insertion Tool, 71 Series
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
520351	Packing Extractor, Slide Hammer, Collet, 40 mm
100163	Clutch Centering Tool
27503900	Plunger Guide Extractor, 71 Series
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
2530062	16 mm Sleeve
2530021	18 mm Sleeve
2530022	20 mm Sleeve
2530023	22 mm Sleeve
2530024	24 mm Sleeve

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

# WARRANTY INFORMATION

## PUMP WARRANTY

January 1, 2022

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

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

# WARRANTY INFORMATION

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



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

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

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

## **POWER UNIT(S) WARRANTY**

January 1, 2022  
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, 2022  
GP Companies, Inc. accessories are warranted by the manufacturer to the original purchaser to be free from defects in material and workmanship

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

Warranty does not apply to:

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

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

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



# TERMS & CONDITIONS RETURN POLICY

## GP COMPANIES, INC. SALES POLICIES

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

## TERMS & CONDITIONS

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

## RETURN POLICY

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



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

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

## Hose Friction Loss

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

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

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

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

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

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

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

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

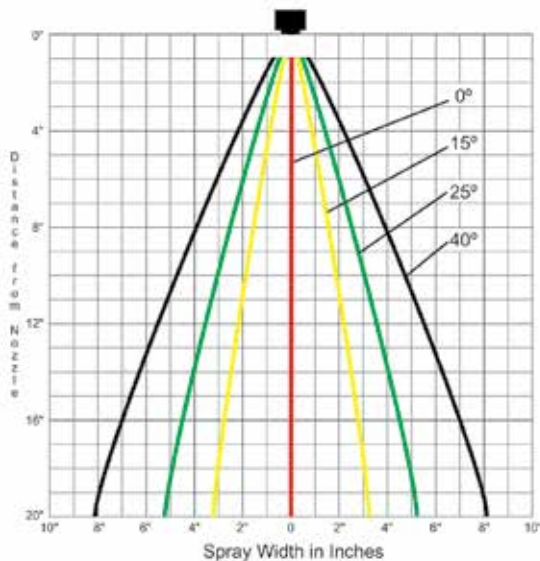
$$\text{Drive Ratio} = \frac{D}{d}$$

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

# REFERENCE

Nozzle Size	Orifice Diameter*	GALLONS PER MINUTE - GPM															
		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	0.032	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	0.036	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	0.04	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	0.042	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	0.043	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	0.045	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	0.046	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	0.049	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	0.052	0.50	0.79	1.25	1.77	1.94	2.09	2.24	2.60	2.74	3.06	3.54	3.95	4.33	4.68	5.00	5.59
5.5	0.054	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	0.057	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	0.059	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	0.062	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	0.063	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	0.065	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	0.069	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	0.07	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	0.072	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	0.073	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	0.077	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	0.081	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	0.082	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	0.084	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	0.087	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	0.09	1.50	2.37	3.75	5.30	5.91	6.27	6.71	7.50	8.22	9.19	10.61	11.86	12.99	14.03	15.00	16.77
20	0.104	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	0.117	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	0.129	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	0.149	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	0.167	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	0.183	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

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

MODEL/PART	PAGE	MODEL/PART	PAGE	MODEL/PART	PAGE
100016	60	100723	66	101031	32
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100093	31	100729	66	101038	32
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100316	50	100813	69	101158	73
100317	50	100814	68	103011	100
100323	67	100819	70	105082	86
100324	67	100820	70	105083	86
100326	68	100821	70	105084	86
100329	100	100822	70	105085	86
100438	99	100823	69	105086	86
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100450	60	100825	69	105088	86
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100547	66	100861	69	105126	86
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100632	72	100962	66	190446	60
100633	70	100963	66	190447	60
100634	70	100970	67	190448	60
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100636	72	100975	100	190600	55
100637	72	100976	59	190601	55
100638	72	100977	59	203411	24
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100649	98	100993	66	320001	101
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100678	67	101019	32	520135	93
100679	67	101020	32	520136	93
100680	67	101021	32	520190	73
100684	68	101022	32	520197	73
100687	59	101023	32	520222	73
100688	59	101024	32	520223	73
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