



2003 pumps & accessories catalog

pressure cleaning pumps

vehicle cleaning pumps

centrifugal pumps

industrial pumps

valves

injectors

guns & lances

filters

couplers & fittings

spray tips & nozzles



GENERAL PUMP



Reasons to Use General Pump

RELIABILITY

General Pump products have been industry tested world-wide for 25 years, and in the United States for the past 20 years. General Pump is affiliated with the world's largest manufacturers of high-pressure water plunger pumps and accessories. You can rely on General Pump's wide range of products that fill many niches in the markets 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 112 GPM and pressures to 21,750 PSI. General Pump has put more than 1 million pumps into various applications over the last 20 years. These pumps are complemented with a broad array of accessories and nozzles to meet specific customer requirements.

WARRANTY

General Pump was the first and continues to be the leader in offering the most comprehensive warranty program in the industry. General Pump will warrant each pump to be free from defects in material or workmanship for a period of 5 years from the date of shipment. In addition, all forged brass pump manifolds are to be free of defects in material and workmanship from damage resulting from freezing for the life of the pump.

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.

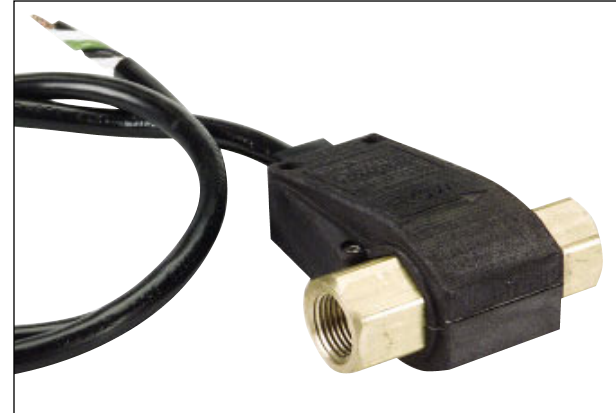
COMMITMENT TO SUPPORT

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.



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 are ideally positioned to tap into the trends moving the



US market. Working closely with our OEM partners, these teams use 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 to the needs of the power wash industry

Dedicated Engineering

- Two design teams dedicated to accessory and nozzle development
- Source of innovative products like the Pump Thermal Protector line (PTP), the dual port injector, the 6000 PSI Safety Valve, the Quick Disconnect Injector Line, and our new 5000 PSI flow switch
- State-of-the-art design support including 3D CAD modeling and ANSYS fluid and stress analysis software

In-House Design Support

- 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



TABLE OF CONTENTS



■ PRESSURE CLEANING PUMPS

PAGES 1-11

| | |
|---|----|
| Residential Pressure Cleaning Pumps | 1 |
| Series 49 Duplex Pumps, TT Series 51 Pumps | 2 |
| TT Series 51 Pumps | 3 |
| TP Series 51 Pumps | 4 |
| TX Series 63 Pumps | 5 |
| TX Series 63 Pumps and EZ Series 44 Pumps | 6 |
| EZ Series Pumps and Series 50 Pumps | 7 |
| Series 47 Pumps | 8 |
| Series 47 Pumps with Gear Box and 66 Series Pumps | 9 |
| Series 69, Series 76 and Series 48 Pumps | 10 |
| Series 77 Pumps and AT Series 76 Agricultural Pumps | 11 |

■ INDUSTRIAL PUMPS

PAGES 13-21

| | |
|--|----|
| EK, EKLN and EKLZ Series Pumps | 13 |
| HD, HE, HDN and HES Series Pumps | 14 |
| KL, KLA, KLN, KLS and KLZ Series Pumps | 15 |
| MS, MSZ, MSN Series Pumps and MS Pumps with Gearboxes | 16 |
| MSN, MSS and MSZ Series Pumps with Gearboxes | 17 |
| MH Series Pumps with Gearboxes, VH and VS Series Pumps | 18 |
| SH, LH and LHN Series Pumps | 19 |
| LHZ Series, WM Series and Series 47 SS Pumps | 20 |
| SS 66 Series and Hydraforce Pumps | 21 |

■ CENTRIFUGAL PUMPS

PAGES 22-26

| | |
|---|----|
| VC, CC and SBS Series Centrifugal Pumps | 22 |
| DAC and OC Series Centrifugal Pumps | 23 |
| SC and SEC Series Centrifugal Pumps | 24 |
| SFC and SGC Series Centrifugal Pumps | 25 |
| XS Series Submersible Pumps | 26 |

■ VEHICLE CLEANING PUMPS

PAGES 28-29

| | |
|---|----|
| Series 69, 47, 76 and 63 Pumps | 28 |
| Series 77, CW1522, CW1635, CW1812 Pumps, Pump Retrofits and 66 Series Pumps | 29 |

■ ACCESSORIES

PAGES 32-74

| | |
|--|----|
| Drive Components | |
| Gear Reducers & Multipliers, Flex Couplers, Flanges | 32 |
| Pulleys, Clutches and Oil | 33 |
| Valves | |
| Trapped Pressure Unloaders | 34 |
| Trapped Pressure and Adjustable Trapped Pressure Unloaders | 35 |
| Adjustable Trapped Pressure Unloaders | 36 |
| Modified Pressure and Control Set Unloaders | 37 |
| Direct Mount Unloaders and Flow Sensitive Unloaders | 38 |
| Balanced Relief and Regulating Valves | 39 |
| Safety Relief Valves | 40 |



TABLE OF CONTENTS

■ ACCESSORIES (CONTINUED)

PAGES 32-74

| | |
|---|----|
| Pump Thermal Protectors and Easy Start Valves | 41 |
| Bleeder, Check, Steam and Needle Valves | 42 |
| Injectors | |
| Adjustable Chemical Injectors | 43 |
| Adjustable Chemical Injectors | 44 |
| Adjustable Chemical Injectors, Injector/Hose Assemblies | 45 |
| Fixed Chemical Injectors | 46 |
| Fixed Chemical Injectors and Chemical Valves | 47 |
| Industrial Pump Fittings & Accessories | |
| Fitting Kits, Pump Fittings and Seal Rings | 48 |
| Fittings, Industrial Unloaders and Regulating Valves | 49 |
| Jetting Valves, Safety Relief Valves, Industrial Valves and Pneumatic Valves | 50 |
| Foot Valves, Pulsation Dampeners, Industrial Spray Guns and Industrial Filters | 51 |
| Vehicle Cleaning Accessories | |
| Swivels, Squeegees, Nozzle Packs, Relief Valves | 52 |
| Unloader, Check Valves, Accumulators, Spray Guns, Lances and Flow Switches | 53 |
| Guns & Lances | |
| Front Entry and Rear Entry Spray Guns | 54 |
| Rear Entry Spray Guns and Spray Guns with Lance | 55 |
| Stainless Steel Lances, Straight and Bent Insulated Lances | 56 |
| Double Lances, Lance Accessories and Quick Lances | 57 |
| Hose Assemblies | |
| Hose Assemblies, Hose Reels and Water Brooms | 58 |
| Spray Tips & Nozzles | |
| Standard Spray Tips | 59 |
| Chemical Spray Tips and Nozzle Packs | 60 |
| Adjustable Nozzles | 61 |
| Rotating Nozzles and Adjustable Rotating Nozzles | 62 |
| Drain Cleaning Nozzles, Nozzle Holders and Steam Nozzles | 63 |
| Tank Cleaning Nozzles | 64 |
| Couplers & Fittings | |
| Quick Disconnect Couplers and Garden Hose Fittings | 65 |
| Garden Hose Fittings | 66 |
| Quick Disconnect Fittings | 67 |
| Filters and Strainers | |
| Inline High Pressure Filters, Chemical Filters and Inlet Filters | 68 |
| Inline Filters and Inlet Strainers | 69 |
| Gauges and Switches | |
| Thermostats and Pressure Switches | 70 |
| Flow Switches and Gauges | 71 |
| Miscellaneous Accessories | |
| Gauge Ports, High Pressure Swivels and Accumulators/Pulsation Dampeners | 72 |
| Floats, Tanks and Foamers | 73 |
| Brushes, Sandblasting Nozzles and Service Products | 74 |
| Pump Warranty | 75 |
| Accessory Warranty | 76 |
| Terms & Conditions of Sales, Return Policy | 77 |
| Nozzle Chart and Other Reference Information | 78 |



Pressure Cleaning

AUTOMOTIVE

Municipal vehicle maintenance • 47 Series
Bug and tar removal • 47 Series
General exterior cleaning • EZ, 47 Series, 63 Series

SURFACE CLEANING

Sidewalks • 47 Series, 63 Series
Driveways • 47 Series, 63 Series

HOUSEHOLD EXTERIOR CLEANING

Mildew removal • EZ Series, 47 Series, 63 Series
Storm cleanup • EZ Series, 47 Series, 63 Series
Pool decks • EZ Series, 47 Series, 63 Series
Gutter cleaning • EZ Series, 47 Series, 63 Series

PRE-PAINTING SURFACE PREPARATION

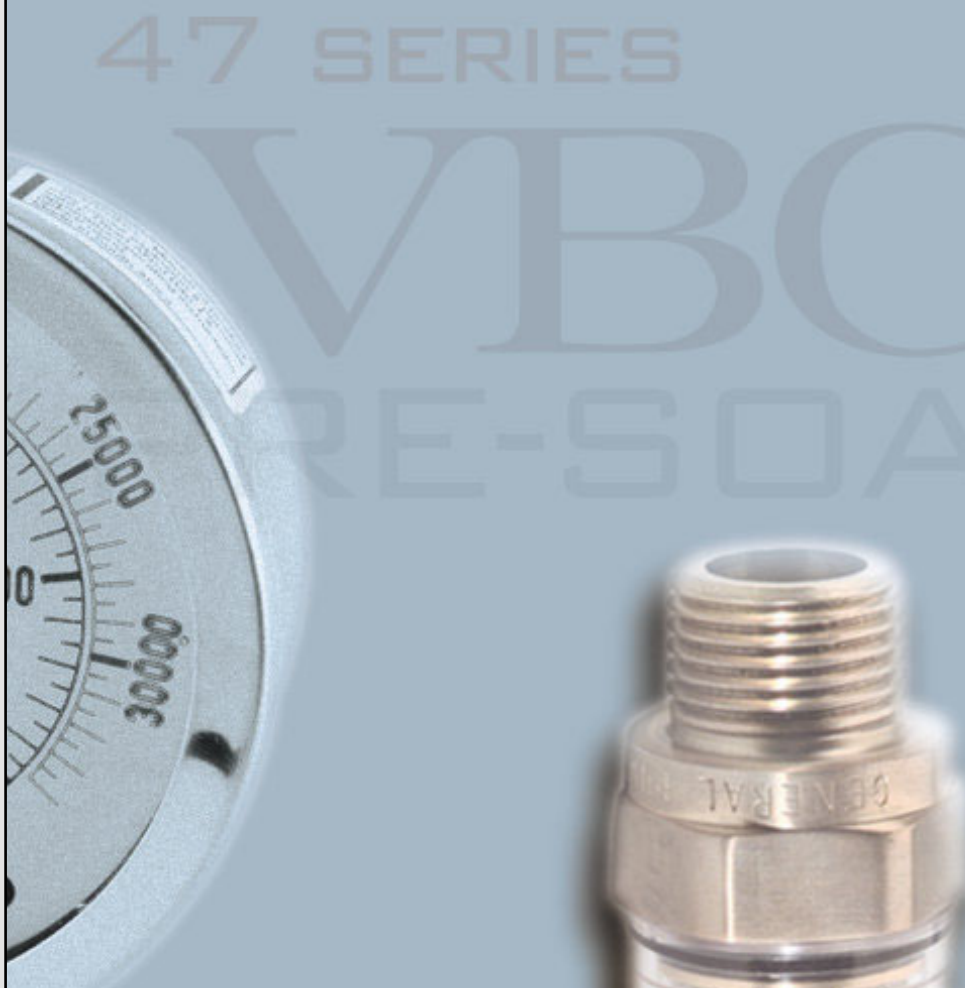
Surface cleaning • 47 Series, 63 Series
Paint removal • 47 Series, 63 Series
Wet-sandblasting • 47 Series, 63 Series, 66 Series

HEAVY EQUIPMENT MAINTENANCE

Dirt and mud removal • 47 Series, 66 Series, HWB
Grease and oil removal • 47 Series, 66 Series
Parts washing • 50 Series 51 Series

CONTRACT CLEANING

Building exterior cleaning
47 Series, 63 Series, 66 Series
Sidewalk cleaning
EZ Series, 47 Series, 63 Series
Driveway cleaning
EZ Series, 47 Series, 63 Series
Deck cleaning
50 Series, 51 Series, EZ Series,
47 Series, 63 Series
Restaurant kitchen cleaning
50 Series, 51 Series
Hood and duct cleaning
50 Series, 51 Series
Mobile vehicle wash
47 Series, 63 Series
Ice abatement
50 Series, 51 Series
Wet sandblasting
47 Series, 66 Series
General cleaning
50 Series, EZ Series, 47 Series, 63 Series



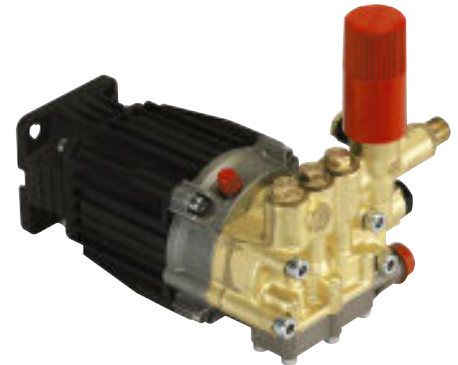


PRESSURE CLEANING PUMPS

Residential Pressure Cleaning Pumps

Mont ■ Radial Axial, Horizontal Pump, Flanged for Direct Couple to Gasoline Engines – Forged Brass Manifold with built-in trapped pressure unloader and injector.
Max. Inlet Pressure: 80 PSI Max. Fluid Temperature: 140° F Inlet Port Thread: 1/2" - 14 BSP-M
Discharge Port Thread: 3/8" - 19 BSP-M Shaft Diameter: .750 in./19 mm
Pump Dimensions: 8.875" x 7.0" x 8.25" Crankcase Oil Capacity: 6.75 oz. Product Group: U

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|-----------|---------|----------|----------|----------------|------------------|---------|-----------|
| CPH2525UI | 2.5 GPM | 2500 PSI | 3600 RPM | .591 in./15 mm | .218 in./5.53 mm | 6.4 GHP | 13.1 lbs. |
| CPH2530UI | 3.0 GPM | 2500 PSI | 3600 RPM | .591 in./15 mm | .254 in./6.46 mm | 7.7 GHP | 13.1 lbs. |



Complete Electric Pressure Washers

Product Group: E

| | | |
|----------|---|-----------|
| FOR99SM | FORMULA 99 – Turbo 21 Aluminum Manifold, 1000 PSI | 46.0 lbs. |
| 190118 | QUIKY – Turbo 21 Brass Manifold, Partial Plastic Enclosure, 1000 PSI with 10 meter Cord, GFCL and 36" Lance | 53.0 lbs. |
| PU1021 | BOXJET – Turbo 21 Aluminum Manifold, Complete Plastic Enclosure, 1000 PSI | 52.0 lbs. |
| PU1021B | BOXJET – Turbo 21 Brass Manifold, Complete Plastic Enclosure, 1000 PSI | 52.0 lbs. |
| PU1021QB | QUIKY – Turbo 21 Brass Manifold, Partial Plastic Enclosure, 1000 PSI | 52.0 lbs. |



Electric Pressure Washer Accessories

Product Group: N

| | | |
|------------|---|-----------|
| ZOBOXCART | Cart Kit for Boxjet | 13.0 lbs. |
| ZOBOXWALL | Wall Brackets for Boxjet | 8.0 lbs. |
| ZOBRUSHKIT | Boxjet Rotating Brush Kit | 3.0 lbs. |
| ZODRAINKIT | Boxjet Drain Kit with Hose | 2.0 lbs. |
| ZOSANDKIT1 | Boxjet Sandblasting Kit with Hose Poker | 3.0 lbs. |



| | | |
|--------|------------------------------------|-----------|
| 100200 | Universal Cart for Pressure Washer | 19.5 lbs. |
|--------|------------------------------------|-----------|





T Series 49, Duplex Plunger Pump, Solid Shaft – Duplex pulsing action for improved impacted cleaning, ideal for drain cleaning and jetting applications. Forged brass manifold with an exclusive lifetime warranty.

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" x 6.8" x 5.4" Max. Inlet Vacuum 9 ft. water (7.9 in. Hg)

Crankcase Oil Capacity: 10.1 oz. Product Group: U

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|--------|----------|----------|----------|----------------|------------------|----------|-----------|
| T9721B | 2.1 GPM | 1000 PSI | 1750 RPM | .787 in./20 mm | .307 in./7.8 mm | 1.5 EBHP | 11.0 lbs. |
| T721B | 2.2 GPM | 1200 PSI | 1450 RPM | .787 in./20 mm | .374 in./9.5 mm | 1.8 EBHP | 11.0 lbs. |
| T9731B | 2.85 GPM | 1000 PSI | 1750 RPM | .787 in./20 mm | .414 in./10.5 mm | 2.0 EBHP | 11.0 lbs. |
| T731B | 3.0 GPM | 1200 PSI | 1450 RPM | .787 in./20 mm | .472 in./12.0 mm | 2.4 EBHP | 11.0 lbs. |
| T731B | 3.5 GPM | 1000 PSI | 1750 RPM | .787 in./20 mm | .472 in./12.0 mm | 2.5 EBHP | 11.0 lbs. |



T Series 49, Duplex Plunger Pump, Hollow Shaft, NEMA 56 C Flange for Direct Couple to Electric Motors – Duplex pump specifically designed for the demands of the water jetting industry. Forged brass manifold with an exclusive lifetime warranty.

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: .625 in./15.9 mm I.D.

Pump Dimensions: 8.8" x 6.8" x 5.4" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg)

Crankcase Oil Capacity: 10.1 oz. Product Group: U

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|----------|----------|----------|----------|----------------|------------------|----------|-----------|
| T9711EBF | 1.70 GPM | 1500 PSI | 1750 RPM | .787 in./20 mm | .260 in./6.6 mm | 1.8 EBHP | 16.0 lbs. |
| T9721EBF | 2.11 GPM | 1500 PSI | 1750 RPM | .787 in./20 mm | .307 in./7.8 mm | 2.2 EBHP | 16.0 lbs. |
| T9731EBF | 2.85 GPM | 1500 PSI | 1750 RPM | .787 in./20 mm | .413 in./10.5 mm | 2.9 EBHP | 16.0 lbs. |



TT Series 51, Triplex Plunger Pump, Hollow Shaft, Flanged for Direct Couple to Electric Motors (NEMA-56C) – Ideal for all general cleaning and misting applications. Forged brass manifold with exclusive lifetime warranty.

Max. Inlet Pressure: 80 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 3/8" - 19 BSP-F

Discharge Port Thread: 1/4" - 19 BSP-F Shaft Diameter: .625 in./16 mm

Pump Dimensions: 7.0" x 7.2" x 5.5" Max. Inlet Vacuum: 3 ft. water (2.6 in. Hg)

Crankcase Oil Capacity: 11.2 oz. Product Group: U

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|-----------|----------|----------|----------|----------------|-----------------|----------|-----------|
| TT1505EBF | 0.5 GPM | 1500 PSI | 1750 RPM | .709 in./18 mm | .079 in./2.0 mm | 0.5 EBHP | 11.5 lbs. |
| TT2021EBF | 2.1 GPM | 2000 PSI | 3400 RPM | .591 in./15 mm | .197 in./5.0 mm | 2.9 EBHP | 11.5 lbs. |
| T9051EBF | 2.11 GPM | 1500 PSI | 1750 RPM | .591 in./15 mm | .370 in./9.4 mm | 2.2 EBHP | 11.5 lbs. |
| TT9061EBF | 2.11 GPM | 1500 PSI | 3400 RPM | .591 in./15 mm | .197 in./5.0 mm | 2.2 EBHP | 11.5 lbs. |
| TT2028EBF | 2.8 GPM | 2000 PSI | 3400 RPM | .591 in./15 mm | .260 in./6.6 mm | 3.8 EBHP | 11.5 lbs. |
| TT9071EBF | 2.8 GPM | 1500 PSI | 3400 RPM | .591 in./15 mm | .260 in./6.6 mm | 2.9 EBHP | 11.5 lbs. |
| TT9111EBF | 3.0 GPM | 1500 PSI | 1750 RPM | .709 in./18 mm | .370 in./9.4 mm | 3.1 EBHP | 11.5 lbs. |

Shaft: 3/4 in./19 mm

| | | | | | | | |
|-----------|---------|----------|----------|----------------|-----------------|----------|-----------|
| TT2035EBF | 3.5 GPM | 2000 PSI | 3400 RPM | .591 in./15 mm | .315 in./8.0 mm | 4.8 EBHP | 11.5 lbs. |
|-----------|---------|----------|----------|----------------|-----------------|----------|-----------|



PRESSURE CLEANING PUMPS

TT Series 51, Triplex Plunger Pump, Hollow Shaft, Flanged for Direct Couple to Electric Motors (NEMA-56C).

Max. Inlet Pressure: 80 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1/2" - 14 BSP-M

Discharge Port Thread: 3/8" - 19 BSP-M Shaft Diameter: .625 in./16 mm

Pump Dimensions: 7.0" x 7.2" x 8.0" Crankcase Oil Capacity: 11.2 oz. Product Group: U

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|------------------------------------|----------|----------|----------|----------------|-----------------|----------|-----------|
| Pump with Built-in Unloader | | | | | | | |
| TT9051EBFU | 2.11 GPM | 1500 PSI | 1750 RPM | .591 in./15 mm | .370 in./9.4 mm | 2.2 EBHP | 12.0 lbs. |
| TT9061EBFU | 2.11 GPM | 1500 PSI | 3400 RPM | .591 in./15 mm | .197 in./5.0 mm | 3.8 EBHP | 12.0 lbs. |
| TT9071EBFU | 2.8 GPM | 1500 PSI | 3400 RPM | .591 in./15 mm | .260 in./6.6 mm | 3.1 EBHP | 12.0 lbs. |

Pump with Built-in Unloader and Downstream Injector

| | | | | | | | |
|-------------|----------|----------|----------|----------------|-----------------|----------|-----------|
| TT9061EBFUI | 2.11 GPM | 1500 PSI | 3400 RPM | .591 in./15 mm | .197 in./5.0 mm | 2.2 EBHP | 12.0 lbs. |
| TT9051EBFUI | 2.11 GPM | 1500 PSI | 1750 RPM | .591 in./15 mm | .370 in./9.4 mm | 2.2 EBHP | 12.0 lbs. |
| TT9071EBFUI | 2.8 GPM | 1500 PSI | 3400 RPM | .591 in./15 mm | .260 in./6.6 mm | 2.9 EBHP | 12.0 lbs. |
| TT2035EBFUI | 3.5 GPM | 2000 PSI | 3400 RPM | .591 in./15 mm | .315 in./8.0 mm | 4.8 EBHP | 12.0 lbs. |

TT Series 51, Triplex Plunger Pump, Hollow Shaft, SAE J609A Flanged for Direct Couple to Gasoline Engines – Ideal for all general cleaning applications. Forged brass manifold with an exclusive lifetime warranty.

Max. Inlet Pressure: 80 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 3/8" - 19 BSP-F

Discharge Port Thread: 1/4" - 19 BSP-F Shaft Diameter: .750 in./19 mm

Pump Dimensions: 7.2" x 7.2" x 5.5" Max. Inlet Vacuum: 3 ft. water (2.6 in. Hg)

Crankcase Oil Capacity: 11.2 oz. Product Group: U

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|-----------|----------|----------|----------|----------------|-----------------|---------|-----------|
| TT9061GBF | 2.11 GPM | 1500 PSI | 3400 RPM | .591 in./15 mm | .197 in./5.0 mm | 3.3 GHP | 11.4 lbs. |
| TT2028GBF | 2.8 GPM | 2000 PSI | 3400 RPM | .591 in./15 mm | .260 in./6.6 mm | 5.8 GHP | 11.4 lbs. |
| TT9071GBF | 2.8 GPM | 1500 PSI | 3400 RPM | .591 in./15 mm | .260 in./6.6 mm | 4.3 GHP | 11.4 lbs. |
| TT2035GBF | 3.5 GPM | 2000 PSI | 3400 RPM | .591 in./15 mm | .315 in./8.0 mm | 7.2 GHP | 11.4 lbs. |
| TT1540GBF | 4.0 GPM | 1500 PSI | 3400 RPM | .591 in./15 mm | .370 in./9.4 mm | 6.2 GHP | 11.4 lbs. |

TT Series 51, Triplex Plunger Pump with Solid Shaft – Standard with 24 mm solid shaft for pulley mount or direct drive with flex coupler and bell housing. Ideal for all general cleaning applications. Forged brass manifold with an exclusive lifetime warranty.

Max. Inlet Pressure: 80 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 3/8" - 19 BSP-F

Discharge Port Thread: 1/4" - 19 BSP-F Shaft Diameter: .945 in./24 mm

Pump Dimensions: 7.0" x 6.9" x 5.1" Max. Inlet Vacuum: 3 ft. water (2.6 in. Hg)

Crankcase Oil Capacity: 11.2 oz. Product Group: U

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|--------|----------|----------|----------|----------------|-----------------|----------|-----------|
| TT901 | 2.11 GPM | 1500 PSI | 2800 RPM | .591 in./15 mm | .236 in./6.0 mm | 2.2 EBHP | 11.2 lbs. |
| TT951 | 2.5 GPM | 1500 PSI | 2800 RPM | .591 in./15 mm | .283 in./7.2 mm | 2.6 EBHP | 11.2 lbs. |
| TT931 | 2.9 GPM | 1500 PSI | 2800 RPM | .591 in./15 mm | .315 in./8.0 mm | 3.0 EBHP | 11.2 lbs. |
| TT9111 | 3.0 GPM | 1500 PSI | 1750 RPM | .780 in./18 mm | .370 in./9.4 mm | 3.1 EBHP | 11.2 lbs. |
| TT941 | 3.43 GPM | 1500 PSI | 2800 RPM | .591 in./15 mm | .370 in./9.4 mm | 3.5 EBHP | 11.2 lbs. |





■ TP Series 51, Triplex Plunger Pump, Hollow Shaft, Flanged for Direct Couple to Electric Motors (NEMA-56C) – Ideal for all general cleaning and misting applications. Forged brass manifold with an exclusive lifetime warranty.

Max. Inlet Pressure: 80 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 3/8" - 19 BSP-F

Discharge Port Thread: 1/4" - 19 BSP-F Shaft Diameter: .625 in./16 mm

Pump Dimensions: 7.0" x 7.2" x 5.5" Max. Inlet Vacuum: 3 ft. water (2.6 in. Hg)

Crankcase Oil Capacity: 11.2 oz. Product Group: U

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|-----------|---------|----------|----------|----------------|-----------------|----------|-----------|
| TP2021C17 | 2.1 GPM | 2500 PSI | 1750 RPM | .591 in./15 mm | .370 in./9.4 mm | 2.9 EBHP | 11.5 lbs. |
| TP2024C17 | 2.4 GPM | 2000 PSI | 1750 RPM | .709 in./18 mm | .283 in./7.2 mm | 3.3 EBHP | 11.5 lbs. |
| TP2032C17 | 3.0 GPM | 2000 PSI | 1750 RPM | .709 in./18 mm | .370 in./9.4 mm | 4.1 EBHP | 11.5 lbs. |



■ TP Series 51, Triplex Plunger Pump, Hollow Shaft, Flanged for Direct Couple to Gasoline Engines – New, over-sized connecting rods for ultimate crankcase performance. Forged brass manifold with an exclusive lifetime warranty.

Max. Inlet Pressure: 80 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 3/8" - 19 BSP-F

Discharge Port Thread: 1/4" - 19 BSP-F Shaft Diameter: .750 in./19 mm

Pump Dimensions: 7.0" x 7.2" x 5.5" Max. Inlet Vacuum: 3 ft. water (2.6 in. Hg)

Crankcase Oil Capacity: 11.0 oz. Product Group: U

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|-----------|----------|----------|----------|----------------|-----------------|---------|-----------|
| TP2520J34 | 1.9 GPM | 2500 PSI | 3400 RPM | .591 in./15 mm | .197 in./5.0 mm | 4.9 GHP | 11.4 lbs. |
| TP2526J34 | 2.6 GPM | 2500 PSI | 3400 RPM | .591 in./15 mm | .260 in./6.6 mm | 6.7 GHP | 11.4 lbs. |
| TP2530J34 | 2.88 GPM | 2500 PSI | 3400 RPM | .591 in./15 mm | .283 in./7.2 mm | 7.4 GHP | 11.4 lbs. |
| TP2533J34 | 3.3 GPM | 2500 PSI | 3400 RPM | .591 in./15 mm | .315 in./8.0 mm | 8.5 GHP | 11.4 lbs. |



■ TP Series 51, Triplex Plunger Pump, Hollow Shaft, Flanged for Direct Couple to Gasoline Engines, includes unloader and downstream injector.

Inlet Port Thread: 1/2" - 14 BSP-F Discharge Port Thread: 3/8" - 19 BSP-M

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|--------------|----------|----------|----------|----------------|-----------------|---------|-----------|
| TP2520J34UIL | 1.9 GPM | 2500 PSI | 3400 RPM | .591 in./15 mm | .197 in./5.0 mm | 4.9 GHP | 11.4 lbs. |
| TP2526J34UIL | 2.6 GPM | 2700 PSI | 3400 RPM | .591 in./15 mm | .256 in./6.5 mm | 7.2 GHP | 11.4 lbs. |
| TP2530J34UIL | 2.88 GPM | 2700 PSI | 3400 RPM | .591 in./15 mm | .283 in./7.2 mm | 8.0 GHP | 11.4 lbs. |
| TP2533J34UIL | 3.3 GPM | 2500 PSI | 3400 RPM | .591 in./15 mm | .315 in./8.0 mm | 8.5 GHP | 11.4 lbs. |



PRESSURE CLEANING PUMPS

TX Series 63, Triplex Plunger Pump, Solid Shaft – Large, lightweight connecting rods, new long life low and high pressure seals, oversized roller bearings and dual sight glasses. Forged brass manifold with an exclusive lifetime warranty.

Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1/2" - 14 BSP-F
Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .945 in./24 mm
Pump Dimensions: 8.4" x 8.3" x 4.8" Max. Inlet Vacuum: 3 ft. water (2.6 in. Hg)
Crankcase Oil Capacity: 14 oz. Product Group: W

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|-----------|---------|----------|----------|----------------|----------------|----------|-----------|
| TX1512S17 | 2.1 GPM | 3000 PSI | 1450 RPM | .591 in./15 mm | .472 in./12 mm | 4.3 EBHP | 19.0 lbs. |
| TX1512S17 | 2.6 GPM | 3000 PSI | 1750 RPM | .591 in./15 mm | .472 in./12 mm | 5.3 EBHP | 19.0 lbs. |
| TX1810S17 | 2.7 GPM | 2000 PSI | 1450 RPM | .709 in./18 mm | .394 in./10 mm | 3.7 EBHP | 19.0 lbs. |
| TX1810S17 | 3.1 GPM | 2000 PSI | 1750 RPM | .709 in./18 mm | .394 in./10 mm | 4.2 EBHP | 19.0 lbs. |
| TX1812S17 | 3.2 GPM | 2000 PSI | 1450 RPM | .709 in./18 mm | .472 in./12 mm | 4.3 EBHP | 19.0 lbs. |
| TX1812S17 | 3.8 GPM | 2000 PSI | 1750 RPM | .709 in./18 mm | .472 in./12 mm | 5.2 EBHP | 19.0 lbs. |

Max. Inlet Vacuum: Flooded

| | | | | | | | |
|-----------|---------|----------|----------|----------------|-----------------|----------|-----------|
| TX1506S34 | 2.6 GPM | 3000 PSI | 3400 RPM | .591 in./15 mm | .256 in./6.5 mm | 5.8 EBHP | 19.0 lbs. |
| TX1508S34 | 3.0 GPM | 3000 PSI | 3400 RPM | .591 in./15 mm | .315 in./8 mm | 6.2 EBHP | 19.0 lbs. |
| TX1510S34 | 4.0 GPM | 3000 PSI | 3400 RPM | .591 in./15 mm | .394 in./10 mm | 8.2 EBHP | 19.0 lbs. |

TX Series 63, Triplex Plunger Pump with 1.125" Hollow Shaft, Flanged for Direct Couple to NEMA 184TC Electric Motor. Large, light weight connecting rods, new long life low and high pressure seals, oversized roller bearings and dual sight glasses. Forged brass manifold with an exclusive lifetime warranty.

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: 1.125 in./28.5 mm
Pump Dimensions: 8.6" x 7.9" x 5.7" Max. Inlet Vacuum: 3 ft. water (2.6 in. Hg)
Crankcase Oil Capacity: 14 oz. Product Group: W

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|------------|---------|----------|----------|----------------|----------------|----------|-----------|
| TX1510E349 | 2.1 GPM | 3000 PSI | 1750 RPM | .591 in./15 mm | .394 in./10 mm | 4.3 EBHP | 18.0 lbs. |
| TX1512E179 | 2.6 GPM | 3000 PSI | 1750 RPM | .591 in./15 mm | .472 in./12 mm | 5.3 EBHP | 18.0 lbs. |
| TX1810E179 | 3.2 GPM | 2000 PSI | 1750 RPM | .708 in./18 mm | .394 in./10 mm | 4.4 EBHP | 18.0 lbs. |
| TX1812E179 | 3.8 GPM | 2000 PSI | 1750 RPM | .708 in./18 mm | .472 in./12 mm | 5.2 EBHP | 18.0 lbs. |

Max. Inlet Vacuum: Flooded

| | | | | | | | |
|------------|---------|----------|----------|----------------|----------------|----------|-----------|
| TX1510E349 | 4.0 GPM | 3000 PSI | 3400 RPM | .591 in./15 mm | .394 in./10 mm | 8.2 EBHP | 18.0 lbs. |
|------------|---------|----------|----------|----------------|----------------|----------|-----------|

TX Series 63, Triplex Plunger Pump, 3/4" Hollow Shaft, Flanged for Direct Couple to Gasoline Engines (SAE J609B). Large, light weight connecting rods, new long life low and high pressure seals, oversized roller bearings and dual sight glasses. Forged brass manifold with an exclusive lifetime warranty.

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: .750 in./19 mm
Pump Dimensions: 8.4" x 8.3" x 4.8" Max. Inlet Vacuum: Flooded Crankcase Oil Capacity: 14 oz.
Product Group: W

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|----------|---------|----------|----------|----------------|-----------------|---------|-----------|
| TX1505G6 | 2.0 GPM | 3000 PSI | 3400 RPM | .591 in./15 mm | .197 in./5 mm | 6.2 GHP | 18.0 lbs. |
| TX1506G6 | 2.6 GPM | 3000 PSI | 3400 RPM | .591 in./15 mm | .256 in./6.5 mm | 8.0 GHP | 18.0 lbs. |
| TX1508G6 | 3.0 GPM | 3000 PSI | 3400 RPM | .591 in./15 mm | .315 in./8 mm | 9.3 GHP | 18.0 lbs. |

TX Series 63, Triplex Plunger Pump, 1" Hollow Shaft, Flanged for Direct Couple to Gasoline Engines (SAE J609B). Large, light weight connecting rods, new long life low and high pressure seals, oversized roller bearings and dual sight glasses. Forged brass manifold with an exclusive lifetime warranty.

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: 1.0 in./25.4 mm
Pump Dimensions: 8.4" x 8.3" x 4.8" Max. Inlet Vacuum: Flooded Crankcase Oil Capacity: 14 oz.
Product Group: W

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|----------|---------|----------|----------|----------------|-----------------|----------|-----------|
| TX1506G8 | 2.6 GPM | 3000 PSI | 3400 RPM | .591 in./15 mm | .256 in./6.5 mm | 8.0 GHP | 18.0 lbs. |
| TX1508G8 | 3.0 GPM | 3000 PSI | 3400 RPM | .591 in./15 mm | .315 in./8 mm | 9.3 GHP | 18.0 lbs. |
| TX1509G8 | 3.5 GPM | 3000 PSI | 3400 RPM | .591 in./15 mm | .355 in./9 mm | 10.8 GHP | 18.0 lbs. |
| TX1510G8 | 4.0 GPM | 3000 PSI | 3400 RPM | .591 in./15 mm | .394 in./10 mm | 12.3 GHP | 18.0 lbs. |

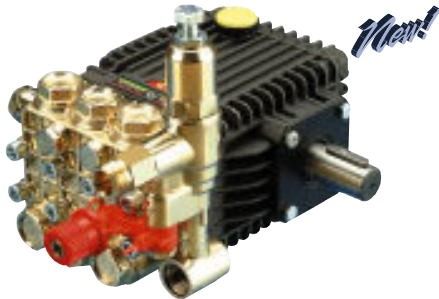


PRESSURE CLEANING PUMPS



Pump with Built-in Unloader and DownStream Injector

| | | | | | | | |
|-------------|---------|----------|----------|----------------|-----------------|----------|-----------|
| TX1506G6UIL | 2.6 GPM | 3000 PSI | 3400 RPM | .591 in./15 mm | .256 in./6.5 mm | 8.0 GHP | 18.2 lbs. |
| TX1508G8UIL | 3.0 GPM | 3000 PSI | 3400 RPM | .591 in./15 mm | .315 in./8 mm | 9.3 GHP | 18.2 lbs. |
| TX1509G8UIL | 3.5 GPM | 3000 PSI | 3400 RPM | .591 in./15 mm | .355 in./9 mm | 10.8 GHP | 18.2 lbs. |
| TX1510G8UIL | 4.0 GPM | 3000 PSI | 3400 RPM | .591 in./15 mm | .394 in./10 mm | 12.3 GHP | 18.2 lbs. |



Pump with Built-in Flow Sensitive Unloader

| | | | | | | | |
|-------------|---------|----------|----------|----------------|-----------------|----------|-----------|
| TX1506G6UKL | 2.6 GPM | 3000 PSI | 3400 RPM | .591 in./15 mm | .256 in./6.5 mm | 8.0 GHP | 18.2 lbs. |
| TX1508G8UKL | 3.0 GPM | 3000 PSI | 3400 RPM | .591 in./15 mm | .315 in./8 mm | 9.3 GHP | 18.2 lbs. |
| TX1509G8UKL | 3.5 GPM | 3000 PSI | 3400 RPM | .591 in./15 mm | .355 in./9 mm | 10.8 GHP | 18.2 lbs. |
| TX1510G8UKL | 4.0 GPM | 3000 PSI | 3400 RPM | .591 in./15 mm | .394 in./10 mm | 12.3 GHP | 18.2 lbs. |



EZ Series 44, Triplex Plunger Pump with Hollow Shaft, Flanged for Direct Couple to Electric Motors (NEMA-184TC) – Forged brass manifold with an exclusive lifetime warranty.

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: 1.125 in./28.5 mm

Pump Dimensions: 8.8" x 8.8" x 6.3" Max. Inlet Vacuum: 3 ft. water (2.6 in. Hg)

Crankcase Oil Capacity: 14.0 oz. Product Group: W

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|-----------|---------|----------|----------|----------------|----------------|-----------|-----------|
| EZ2536E | 3.6 GPM | 2500 PSI | 1750 RPM | .708 in./18 mm | .433 in./11 mm | 6.2 EBHP | 18.5 lbs. |
| EZ2542E | 4.2 GPM | 2500 PSI | 1750 RPM | .708 in./18 mm | .512 in./13 mm | 7.2 EBHP | 18.5 lbs. |
| EZ2545E | 4.6 GPM | 2500 PSI | 3400 RPM | .591 in./15 mm | .433 in./11 mm | 7.9 EBHP | 18.5 lbs. |
| EZ2555E | 5.5 GPM | 2500 PSI | 3400 RPM | .591 in./15 mm | .512 in./13 mm | 9.4 EBHP | 18.5 lbs. |
| EZ4035E34 | 3.5 GPM | 4000 PSI | 3400 RPM | .512 in./13 mm | .433 in./11 mm | 9.6 EBHP | 18.5 lbs. |
| EZ4040E34 | 4.0 GPM | 4000 PSI | 3400 RPM | .512 in./13 mm | .512 in./13 mm | 11.0 EBHP | 18.5 lbs. |

Pump Includes Unloader and Downstream Injector

| | | | | | | | |
|-----------|---------|----------|----------|----------------|----------------|----------|-----------|
| EZ2536EUI | 3.6 GPM | 2500 PSI | 1750 RPM | .708 in./18 mm | .433 in./11 mm | 6.3 EBHP | 18.5 lbs. |
|-----------|---------|----------|----------|----------------|----------------|----------|-----------|



EZ Series 44, Triplex Plunger Pump with Solid Shaft – Forged brass manifold with an exclusive lifetime warranty. Flex coupling and bell housing available for direct drive.

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: 8.6" x 8.7" x 5.5" Max. Inlet Vacuum: 3 ft. water (2.6 in. Hg)

Crankcase Oil Capacity: 14.0 oz. Product Group: W

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|---------|---------|----------|----------|----------------|-----------------|----------|-----------|
| EZ2536S | 3.6 GPM | 2500 PSI | 1750 RPM | .708 in./18 mm | .433 in./11 mm | 6.2 EBHP | 18.0 lbs. |
| EZ2542S | 4.2 GPM | 2500 PSI | 1750 RPM | .708 in./18 mm | .512 in./13 mm | 7.2 EBHP | 18.0 lbs. |
| EZ2545S | 4.6 GPM | 2500 PSI | 3400 RPM | .591 in./15 mm | .433 in./11 mm | 7.9 EBHP | 18.0 lbs. |
| EZ2555S | 5.5 GPM | 2500 PSI | 3400 RPM | .591 in./15 mm | .512 in./13 mm | 9.4 EBHP | 18.0 lbs. |
| EZ3040S | 4.0 GPM | 3000 PSI | 3400 RPM | .591 in./15 mm | .374 in./9.5 mm | 8.2 EBHP | 18.0 lbs. |

Premium Roller Bearings

| | | | | | | | |
|---------|---------|----------|----------|----------------|----------------|----------|-----------|
| EZ3042S | 4.2 GPM | 3000 PSI | 1750 RPM | .708 in./18 mm | .512 in./13 mm | 8.6 EBHP | 18.0 lbs. |
|---------|---------|----------|----------|----------------|----------------|----------|-----------|

Pump Includes Built-in Unloader and Downstream Injector

| | | | | | | | |
|-----------|---------|----------|----------|----------------|----------------|----------|-----------|
| EZ2530SUI | 3.0 GPM | 2500 PSI | 1750 RPM | .591 in./15 mm | .512 in./13 mm | 5.1 EBHP | 19.0 lbs. |
|-----------|---------|----------|----------|----------------|----------------|----------|-----------|



PRESSURE CLEANING PUMPS

EZ Series 44, Triplex Plunger Pump with Hollow Shaft, Flanged for Direct Couple to Gasoline Engines (SAE J609B) – Forged brass manifold with an exclusive lifetime warranty. Flanged for mounting on up to 13 horsepower engines.

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: 1.0 in./25.4 mm
Pump Dimensions: 8.8" x 9.7" x 6.5" Max. Inlet Vacuum: 3 ft. water (2.6 in. Hg)
Crankcase Oil Capacity: 14.0 oz. Product Group: W

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|-----------|---------|----------|----------|----------------|-----------------|----------|-----------|
| EZ3030G34 | 3.0 GPM | 3200 PSI | 3400 RPM | .591 in./15 mm | .287 in./7.3 mm | 9.9 GHP | 19.1 lbs. |
| EZ3035G | 3.5 GPM | 3000 PSI | 3400 RPM | .591 in./15 mm | .335 in./8.5 mm | 10.8 GHP | 19.1 lbs. |
| EZ3040G | 4.0 GPM | 3000 PSI | 3400 RPM | .591 in./15 mm | .374 in./9.5 mm | 12.4 GHP | 19.1 lbs. |
| EZ3045G | 4.6 GPM | 3000 PSI | 3400 RPM | .591 in./15 mm | .433 in./11 mm | 14.2 GHP | 19.1 lbs. |

Max. Inlet Vacuum: Flooded

| | | | | | | | |
|-----------|---------|----------|----------|----------------|-----------------|----------|-----------|
| EZ4030G34 | 3.0 GPM | 4000 PSI | 3400 RPM | .512 in./13 mm | .374 in./9.5 mm | 12.4 GHP | 20.0 lbs. |
| EZ4035G34 | 3.5 GPM | 4000 PSI | 3400 RPM | .512 in./13 mm | .433 in./11 mm | 14.4 GHP | 20.0 lbs. |
| EZ4040G34 | 4.0 GPM | 4000 PSI | 3400 RPM | .512 in./13 mm | .512 in./13 mm | 16.5 GHP | 20.0 lbs. |

Pump with Built-in Unloader and Adjustable Downstream Injector

| | | | | | | | |
|-------------|---------|----------|----------|----------------|-----------------|----------|-----------|
| EZ3030G34UI | 3.0 GPM | 3500 PSI | 3400 RPM | .591 in./15 mm | .287 in./7.3 mm | 10.8 GHP | 19.3 lbs. |
| EZ3035GUI | 3.5 GPM | 3500 PSI | 3400 RPM | .591 in./15 mm | .335 in./8.5 mm | 12.6 GHP | 19.3 lbs. |
| EZ3040GUI | 4.0 GPM | 3500 PSI | 3400 RPM | .591 in./15 mm | .374 in./9.5 mm | 14.4 GHP | 19.3 lbs. |
| EZ2545GUI | 4.6 GPM | 2500 PSI | 3400 RPM | .591 in./15 mm | .433 in./11 mm | 11.8 GHP | 19.3 lbs. |

Pump with Built-in Flow Sensitive Unloader

| | | | | | | | |
|------------|---------|----------|----------|----------------|-----------------|----------|-----------|
| EZ3035GUKL | 3.5 GPM | 3000 PSI | 3400 RPM | .591 in./15 mm | .335 in./8.5 mm | 10.8 GHP | 19.3 lbs. |
| EZ3040GUKL | 4.0 GPM | 3000 PSI | 3400 RPM | .591 in./15 mm | .374 in./9.5 mm | 12.4 GHP | 19.3 lbs. |

T Series 50, Triplex Plunger Pump with Solid Shaft – Forged brass manifold with an exclusive lifetime warranty. Flex coupling and bell housing available for direct drive. Solid ceramic plungers with continuously lubricated packings.

Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1/2" - 14 BSP-F
Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .945 in./24 mm
Pump Dimensions: 9.3" x 8.3" x 5.4" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg)
Crankcase Oil Capacity: 15.2 oz. Product Group: W

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|--------|---------|----------|----------|----------------|-----------------|----------|-----------|
| T991 | 3.5 GPM | 1500 PSI | 1450 RPM | .787 in./20 mm | .394 in./10 mm | 3.6 EBHP | 19.0 lbs. |
| T9951 | 3.5 GPM | 1500 PSI | 1750 RPM | .787 in./20 mm | .335 in./8.5 mm | 3.6 EBHP | 19.0 lbs. |
| TT9351 | 3.5 GPM | 2500 PSI | 3400 RPM | .591 in./15 mm | .335 in./8.5 mm | 6.0 EBHP | 18.7 lbs. |
| T991 | 4.0 GPM | 1100 PSI | 1750 RPM | .787 in./20 mm | .394 in./10 mm | 3.0 EBHP | 19.0 lbs. |
| T9971 | 4.0 GPM | 2000 PSI | 1750 RPM | .787 in./20 mm | .394 in./10 mm | 5.5 EBHP | 19.0 lbs. |
| TT9441 | 4.4 GPM | 2500 PSI | 3400 RPM | .591 in./15 mm | .394 in./10 mm | 7.5 EBHP | 18.7 lbs. |

T991 (100648) and T9951 (100656) with Teflon Packings

| | | | | | | | |
|--------|---------|----------|----------|----------------|-----------------|----------|-----------|
| 100648 | 3.5 GPM | 1500 PSI | 1450 RPM | .787 in./20 mm | .394 in./10 mm | 3.6 EBHP | 19.0 lbs. |
| 100656 | 3.5 GPM | 1500 PSI | 1750 RPM | .787 in./20 mm | .335 in./8.5 mm | 3.6 EBHP | 19.0 lbs. |

Pump with Gear Box

| | | | | | | | |
|---------|---------|----------|----------|----------------|----------------|---------|-----------|
| T991GR | 3.5 GPM | 1500 PSI | 3400 RPM | .787 in./20 mm | .394 in./10 mm | 5.4 GHP | 24.0 lbs. |
| T9971GR | 3.5 GPM | 2000 PSI | 3400 RPM | .787 in./20 mm | .394 in./10 mm | 6.8 GHP | 24.0 lbs. |





T Series 47, Triplex Plunger Pump, Solid Shaft – Forged brass manifold with an exclusive lifetime warranty. Heavy duty tapered roller bearings and over sized connecting rods for maximum life.

Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1/2" - 14 BSP-F

Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .945 in./24 mm

Pump Dimensions: 12.2" x 9.2" x 6.9" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg)

Crankcase Oil Capacity: 33.8 oz. Product Group: X

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|--------|----------|----------|----------|----------------|----------------|----------|-----------|
| TS1331 | 3.5 GPM | 2100 PSI | 1450 RPM | .787 in./20 mm | .394 in./10 mm | 5.0 EBHP | 32.0 lbs. |
| TS1011 | 4.0 GPM | 2000 PSI | 1450 RPM | .787 in./20 mm | .472 in./12 mm | 5.5 EBHP | 32.0 lbs. |
| TS1331 | 4.0 GPM | 2000 PSI | 1750 RPM | .787 in./20 mm | .394 in./10 mm | 5.5 EBHP | 32.0 lbs. |
| T1011 | 4.5 GPM | 2000 PSI | 1125 RPM | .787 in./20 mm | .630 in./16 mm | 6.1 EBHP | 32.0 lbs. |
| TS1011 | 4.75 GPM | 1500 PSI | 1750 RPM | .787 in./20 mm | .472 in./12 mm | 5.5 EBHP | 32.0 lbs. |
| TS921 | 4.75 GPM | 1800 PSI | 1450 RPM | .866 in./22 mm | .472 in./12 mm | 5.9 EBHP | 32.0 lbs. |
| T921 | 5.0 GPM | 1700 PSI | 1050 RPM | .866 in./22 mm | .630 in./16 mm | 5.8 EBHP | 32.0 lbs. |
| T1011 | 5.6 GPM | 1500 PSI | 1450 RPM | .787 in./20 mm | .630 in./16 mm | 5.5 EBHP | 32.0 lbs. |

Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1/2" - 14 BSP-F

Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .945 in./24 mm

Pump Dimensions: 12.25" x 9.2" x 6.9" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg)

Crankcase Oil Capacity: 40.6 oz. Product Group: X

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|--------|----------|----------|----------|----------------|----------------|-----------|-----------|
| TS1711 | 3.5 GPM | 2700 PSI | 1450 RPM | .787 in./20 mm | .394 in./10 mm | 7.2 EBHP | 32.0 lbs. |
| T9211 | 4.0 GPM | 3000 PSI | 1750 RPM | .787 in./20 mm | .394 in./10 mm | 8.2 EBHP | 32.0 lbs. |
| TS1511 | 4.0 GPM | 3500 PSI | 1450 RPM | .787 in./20 mm | .472 in./12 mm | 9.6 EBHP | 32.0 lbs. |
| TS2011 | 4.0 GPM | 3500 PSI | 1450 RPM | .787 in./20 mm | .472 in./12 mm | 9.6 EBHP | 32.0 lbs. |
| TS2021 | 4.5 GPM | 3500 PSI | 1125 RPM | .787 in./20 mm | .630 in./16 mm | 10.8 EBHP | 32.0 lbs. |
| TS1021 | 4.5 GPM | 3000 PSI | 1125 RPM | .787 in./20 mm | .630 in./16 mm | 6.5 EBHP | 32.0 lbs. |
| TS1321 | 4.75 GPM | 2100 PSI | 1450 RPM | .866 in./22 mm | .472 in./12 mm | 6.8 EBHP | 32.0 lbs. |
| TS1621 | 4.75 GPM | 2500 PSI | 1450 RPM | .866 in./22 mm | .472 in./12 mm | 8.2 EBHP | 32.0 lbs. |
| TS2011 | 4.75 GPM | 2300 PSI | 1750 RPM | .787 in./20 mm | .394 in./10 mm | 7.5 EBHP | 32.0 lbs. |
| T1621 | 5.0 GPM | 2500 PSI | 1050 RPM | .866 in./22 mm | .630 in./16 mm | 8.6 EBHP | 32.0 lbs. |
| T1321 | 5.5 GPM | 2100 PSI | 1150 RPM | .866 in./22 mm | .630 in./16 mm | 7.9 EBHP | 32.0 lbs. |
| TS2021 | 5.6 GPM | 3500 PSI | 1450 RPM | .787 in./20 mm | .630 in./16 mm | 13.5 EBHP | 32.0 lbs. |
| TS1021 | 5.6 GPM | 1700 PSI | 1450 RPM | .787 in./20 mm | .630 in./16 mm | 6.5 EBHP | 32.0 lbs. |



T Series 47, Triplex Plunger Pump, Solid Shaft – Forged brass manifold with an exclusive lifetime warranty. Heavy duty tapered roller bearings and over sized connecting rods for maximum life.

Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1/2" - 14 BSP-F

Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .945 in./24 mm

Pump Dimensions: 12.6" x 9.2" x 6.9" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg)

Crankcase Oil Capacity: 40.6 oz. Product Group: X

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|-------|---------|----------|----------|----------------|----------------|-----------|-----------|
| T9281 | 4.0 GPM | 4000 PSI | 1750 RPM | .630 in./16 mm | .630 in./16 mm | 11.0 EBHP | 33.0 lbs. |



T Series 47, Triplex Plunger Pump, Solid Shaft – Forged brass manifold with an exclusive lifetime warranty. Unique "in-line" valve system for easy access and durability, proven crankcase and bearing design.

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: 14.2" x 9.2" x 6.9" Max. Inlet Vacuum: 30 PSI

Crankcase Oil Capacity: 40.6 oz. Product Group: X

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|-------|---------|----------|----------|----------------|----------------|-----------|-----------|
| T5050 | 5.0 GPM | 5000 PSI | 1845 RPM | .630 in./16 mm | .748 in./19 mm | 17.2 EBHP | 41.0 lbs. |



PRESSURE CLEANING PUMPS

T Series 47, Triplex Plunger Pump with 1" Gear Box for J609B engine - Forged brass manifold with an exclusive lifetime warranty. Heavy duty tapered roller bearings and over sized connecting rods for maximum life.

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: 1.0 in./25.4 mm

Pump Dimensions: 12.2" x 9.2" x 10.5" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg)

Crankcase Oil Capacity: 40.6 oz. Product Group: X

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|----------|----------|----------|----------|----------------|----------------|----------|-----------|
| T9281GR | 3.5 GPM | 4000 PSI | 3400 RPM | .630 in./16 mm | .630 in./16 mm | 14.4 GHP | 45.0 lbs. |
| TS1711GR | 3.5 GPM | 2700 PSI | 3400 RPM | .787 in./20 mm | .394 in./10 mm | 6.5 GHP | 45.0 lbs. |
| TS1011GR | 4.0 GPM | 2000 PSI | 3400 RPM | .787 in./20 mm | .472 in./12 mm | 8.2 GHP | 45.0 lbs. |
| TS1511GR | 4.0 GPM | 3000 PSI | 3400 RPM | .787 in./20 mm | .472 in./12 mm | 7.0 GHP | 45.0 lbs. |
| TS2011GR | 4.0 GPM | 3000 PSI | 3400 RPM | .787 in./20 mm | .472 in./12 mm | 12.4 GHP | 45.0 lbs. |
| TS1321GR | 4.75 GPM | 2100 PSI | 3400 RPM | .866 in./22 mm | .472 in./12 mm | 7.0 GHP | 45.0 lbs. |
| TS1621GR | 4.75 GPM | 2500 PSI | 3400 RPM | .866 in./22 mm | .472 in./12 mm | 12.2 GHP | 45.0 lbs. |
| TS2021GR | 5.6 GPM | 3500 PSI | 3400 RPM | .787 in./20 mm | .630 in./16 mm | 20.2 GHP | 45.0 lbs. |

Shaft Diameter: 1 1/8"

| | | | | | | | |
|-----------|---------|----------|----------|----------------|----------------|----------|-----------|
| TS2011GR2 | 4.0 GPM | 3000 PSI | 3400 RPM | .787 in./20 mm | .472 in./12 mm | 12.4 GHP | 45.0 lbs. |
|-----------|---------|----------|----------|----------------|----------------|----------|-----------|



66 Series, Triplex Plunger Pump, Forged Brass Manifold with an exclusive lifetime warranty. Innovative seal design to extend seal life. Plunger design improves thermal shock resistance. New valve cap design improves hydrostatic performance.

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: 13.27" x 9.6" x 6.23" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg)

Crankcase Oil Capacity: 31.0 oz. Product Group: X

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|---------|----------|----------|----------|----------------|----------------|-----------|-----------|
| TSF2019 | 6.3 GPM | 3600 PSI | 1450 RPM | .787 in./20 mm | .748 in./19 mm | 15.5 EBHP | 40.7 lbs. |
| TSF2021 | 7.0 GPM | 3600 PSI | 1450 RPM | .787 in./20 mm | .826 in./21 mm | 17.3 EBHP | 40.7 lbs. |
| TSF2019 | 7.6 GPM | 3600 PSI | 1750 RPM | .787 in./20 mm | .748 in./19 mm | 18.7 EBHP | 40.7 lbs. |
| TSF2219 | 7.7 GPM | 3000 PSI | 1450 RPM | .866 in./22 mm | .472 in./19 mm | 15.8 EBHP | 40.7 lbs. |
| TSF2021 | 8.5 GPM | 3600 PSI | 1750 RPM | .787 in./20 mm | .826 in./21 mm | 21.0 EBHP | 40.7 lbs. |
| TSF2221 | 8.5 GPM | 3000 PSI | 1450 RPM | .866 in./22 mm | .826 in./22 mm | 17.5 EBHP | 40.7 lbs. |
| TSF2219 | 9.3 GPM | 3000 PSI | 1750 RPM | .866 in./22 mm | .472 in./19 mm | 19.1 EBHP | 40.7 lbs. |
| TSF2421 | 10.0 GPM | 2500 PSI | 1450 RPM | .845 in./24 mm | .826 in./21 mm | 17.2 EBHP | 40.7 lbs. |
| TSF2221 | 10.2 GPM | 3000 PSI | 1750 RPM | .866 in./22 mm | .826 in./21 mm | 21.0 EBHP | 40.7 lbs. |
| TSF2421 | 12.0 GPM | 2500 PSI | 1750 RPM | .845 in./24 mm | .826 in./21 mm | 20.5 EBHP | 40.7 lbs. |



66 Series, Triplex Plunger Pump, High Pressure, Forged Brass Manifold with an exclusive lifetime warranty. Innovative seal design to extend seal life. Plunger design improves thermal shock resistance. New valve cap design improves hydrostatic performance.

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" x 9.8" x 7.7" Max. Inlet Vacuum: 30 PSI

Crankcase Oil Capacity: 31.0 oz. Product Group: X

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|---------|---------|----------|----------|----------------|----------------|-----------|-----------|
| TSP1621 | 4.3 GPM | 5800 PSI | 1450 RPM | .630 in./16 mm | .826 in./21 mm | 17.1 EBHP | 51.8 lbs. |
| TSP1819 | 5.0 GPM | 5000 PSI | 1450 RPM | .709 in./18 mm | .472 in./19 mm | 17.4 EBHP | 51.8 lbs. |





T Series 69, Triplex Plunger Pump, Solid Shaft – The industry's choice for high-flow applications. Ball bearings and over sized connecting rods for maximum life.

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" x 11.9" x 7.3" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg)

Crankcase Oil Capacity: 50.7 oz. Product Group: Y

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|--------|----------|----------|----------|-----------------|----------------|-----------|-----------|
| TS1531 | 7.92 GPM | 2175 PSI | 1450 RPM | .787 in./20 mm | .866 in./22 mm | 11.8 EBHP | 46.0 lbs. |
| TS1041 | 8.0 GPM | 1600 PSI | 1450 RPM | .787 in./20 mm | .866 in./22 mm | 8.8 EBHP | 46.0 lbs. |
| T41 | 12.0 GPM | 900 PSI | 650 RPM | 1.417 in./36 mm | .945 in./24 mm | 7.4 EBHP | 37.0 lbs. |



T Series 76, Triplex Plunger Pump, Solid Shaft – Forged brass manifold with an exclusive lifetime warranty. The industry's choice for high flow applications, over sized connecting rods for maximum life.

Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1" NPT-F

Discharge Port Thread: 1/2" NPT-F Shaft Diameter: 1.378 in./35 mm

Pump Dimensions: 15.6" x 14.0" x 9.5" Max. Inlet Vacuum: 7 ft. water (6.2 in. Hg)

Crankcase Oil Capacity: 91.0 oz. Product Group: Y

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|-------|----------|----------|----------|-----------------|-----------------|-----------|-----------|
| T4251 | 6.6 GPM | 5800 PSI | 1000 RPM | .787 in./20 mm | 1.102 in./28 mm | 26.3 EBHP | 101 lbs. |
| T1551 | 14.0 GPM | 2175 PSI | 1000 RPM | 1.181 in./30 mm | 1.102 in./28 mm | 20.9 EBHP | 93.0 lbs. |



T Series 76, Triplex Plunger Pump, Solid Shaft – Forged brass manifold with an exclusive lifetime warranty. The industry's choice for high flow applications, over sized connecting rods for maximum life.

Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1" - 11 BSP-F

Discharge Port Thread: 3/4" - 14 BSP-F Shaft Diameter: 1.378 in./35 mm

Pump Dimensions: 15.6" x 14.0" x 9.5" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg)

Crankcase Oil Capacity: 91.0 oz. Product Group: Y

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|-----|----------|----------|---------|-----------------|-----------------|-----------|-----------|
| T61 | 17.0 GPM | 1000 PSI | 650 RPM | 1.772 in./45 mm | .945 in./24 mm | 11.7 EBHP | 92.0 lbs. |
| T81 | 21.0 GPM | 1000 PSI | 650 RPM | 1.772 in./45 mm | 1.102 in./28 mm | 14.4 EBHP | 92.0 lbs. |



T Series 48, Sixplex Plunger Pump – Forged brass manifold with an exclusive lifetime warranty. Dual manifolds utilizing a common crankcase for efficient performance in high flow applications.

Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: Dual 3/4" - 14 BSP-F

Discharge Port Thread: Dual 3/8" - 19 BSP-F Shaft Diameter: 1.26 in./32 mm

Pump Dimensions: 16.1" x 11.2" x 7.9" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg)

Crankcase Oil Capacity: 54.0 oz. Product Group: Y

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|-------|----------|----------|----------|----------------|----------------|-----------|-----------|
| T2031 | 9.0 GPM | 3000 PSI | 1140 RPM | .787 in./20 mm | .630 in./16 mm | 18.5 EBHP | 61.0 lbs. |
| T1631 | 10.0 GPM | 2500 PSI | 1080 RPM | .866 in./22 mm | .630 in./16 mm | 17.2 EBHP | 61.0 lbs. |
| T2031 | 11.0 GPM | 2000 PSI | 1450 RPM | .787 in./20 mm | .630 in./16 mm | 15.0 EBHP | 61.0 lbs. |



PRESSURE CLEANING PUMPS

T Series 77, Sixplex Plunger Pump – Forged brass manifold with an exclusive lifetime warranty. Dual manifolds utilizing a common crankcase for efficient performance in high flow applications.
Max. Inlet Pressure: 125 PSI **Max. Fluid Temperature: 165° F** **Inlet Port Thread: Dual 1" - 11 BSP-F**
Discharge Port Thread: Dual 3/4" - 14 BSP-F **Shaft Diameter: 1.378 in./35 mm**
Pump Dimensions: 22.1" x 14.0" x 9.7" **Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg)**
Crankcase Oil Capacity: 71.0 oz. **Product Group: Y**

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|-------|----------|----------|----------|-----------------|-----------------|-----------|----------|
| T1591 | 28.0 GPM | 2175 PSI | 1000 RPM | 1.181 in./30 mm | 1.102 in./28 mm | 41.8 EBHP | 156 lbs. |
| T121 | 35.0 GPM | 1000 PSI | 650 RPM | 1.772 in./45 mm | .945 in./24 mm | 24.0 EBHP | 156 lbs. |
| T151 | 43.0 GPM | 1000 PSI | 650 RPM | 1.772 in./45 mm | 1.102 in./28 mm | 29.5 EBHP | 156 lbs. |

T Series 77, Sixplex Plunger Pump – Nickel-plated forged brass manifold with an exclusive lifetime warranty. Dual manifold utilizing a common crankcase for efficient performance. Unique "in-line" valve system for easy access and durability.
Max. Inlet Pressure: 125 PSI **Max. Fluid Temperature: 165° F** **Inlet Port Thread: Dual 1" - 11 BSP-F**
Discharge Port Thread: Dual 1/2" - 14 BSP-F **Shaft Diameter: 1.378 in./35 mm**
Pump Dimensions: 25.2" x 14.0" x 10.0" **Max. Inlet Vacuum: 7 ft. water (6.2 in. Hg)**
Crankcase Oil Capacity: 71.0 oz. **Product Group: Y**

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|-------|----------|----------|----------|----------------|-----------------|-----------|----------|
| T3551 | 13.0 GPM | 4350 PSI | 1000 RPM | .787 in./20 mm | 1.102 in./20 mm | 38.8 EBHP | 174 lbs. |

AT Series 75 Duplex Plunger Pump - Splined Shaft – Ideal for drain cleaning and jetting applications. Aluminum manifold and solid ceramic plungers with continuously lubricated packings.
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" x 9" x 7.3" **Product Group: Y**

| | GPM | PSI | RPM | BORE | STROKE | OIL CAPACITY | HP | SHP WGHT |
|--------|----------|---------|---------|-----------------|----------------|--------------|----------|-----------|
| AT0033 | 7.93 GPM | 435 PSI | 650 RPM | 1.417 in./36 mm | .945 in./24 mm | 22 oz. | 2.4 EBHP | 28.0 lbs. |

Shaft Diameter: 1.375 in./34.9 mm ASAE splined **Pump Dimensions: 13" x 14" x 7.5"**

| | GPM | PSI | RPM | BORE | STROKE | OIL CAPACITY | HP | SHP WGHT |
|--------|-----------|---------|---------|-----------------|----------------|--------------|----------|-----------|
| AT0055 | 13.22 GPM | 725 PSI | 650 RPM | 1.417 in./36 mm | .945 in./24 mm | 51 oz. | 6.6 EBHP | 36.0 lbs. |

Aluminum or a forged brass manifold. Heavy duty tapered roller bearings and over sized connecting rods for maximum life.
Shaft Diameter: 1.375 in./34.9 mm ASAE splined **Pump Dimensions: 15.6" x 14.0" x 9.5"**
Product Group: Y

| | GPM | PSI | RPM | BORE | STROKE | OIL CAPACITY | HP | SHP WGHT |
|---------|-----------|---------|---------|-----------------|-----------------|--------------|-----------|-----------|
| AT0088 | 22.48 GPM | 870 PSI | 650 RPM | 1.771 in./45 mm | 1.102 in./28 mm | 61 oz. | 13.4 EBHP | 60.0 lbs. |
| AT0088B | 22.48 GPM | 870 PSI | 650 RPM | 1.771 in./45 mm | 1.102 in./28 mm | 61 oz. | 13.4 EBHP | 60.0 lbs. |

AT Series 77 Sixplex Plunger Pump - Splined Shaft – Aluminum or a forged brass manifold. Dual manifolds utilizing a common crankcase for efficient performance and bronze connecting rods for maximum life.
Inlet Port Thread: 1" - 11 BSP-F **Discharge Port Thread: 3/4" - 14 BSP-F**
Shaft Diameter: 1.375 in./34.9 mm ASAE splined **Pump Dimensions: 21" x 17" x 9.5"** **Product Group: Y**

| | GPM | PSI | RPM | BORE | STROKE | OIL CAPACITY | HP | SHP WGHT |
|---------|----------|---------|---------|-----------------|-----------------|--------------|-----------|-----------|
| AT0111 | 29.1 GPM | 725 PSI | 550 RPM | 1.771 in./45 mm | .945 in./24 mm | 71 oz. | 17.4 EBHP | 88.0 lbs. |
| AT0177 | 45.0 GPM | 870 PSI | 650 RPM | 1.771 in./45 mm | 1.102 in./28 mm | 71 oz. | 26.9 EBHP | 88.0 lbs. |
| AT0177B | 45.0 GPM | 870 PSI | 650 RPM | 1.771 in./45 mm | 1.102 in./28 mm | 71 oz. | 26.9 EBHP | 156 lbs. |





Industrial Applications

Misting/Fogging – All models

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

Water jet technology – VH, VS, SH

- Coating Removal
- Surface Preparation
- Materials Cutting/Machining

Industrial process – All models

- Hydraulic ram/press operation
- Hydrostatic testing

Industrial cleaning – All models

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

Food processing – All models

- Poultry deboning
- Sanitation
- Wine making

Agricultural – AT Series, HWB

- Hydro-seeding
- Fertilizer injection

Boats and pleasure craft –

WM, MDS, SS 47 Series, HWB

- Watermaking
- Washdown
- Boat hull cleaning

Water treatment – All stainless steel, aluminum bronze & centrifugal models

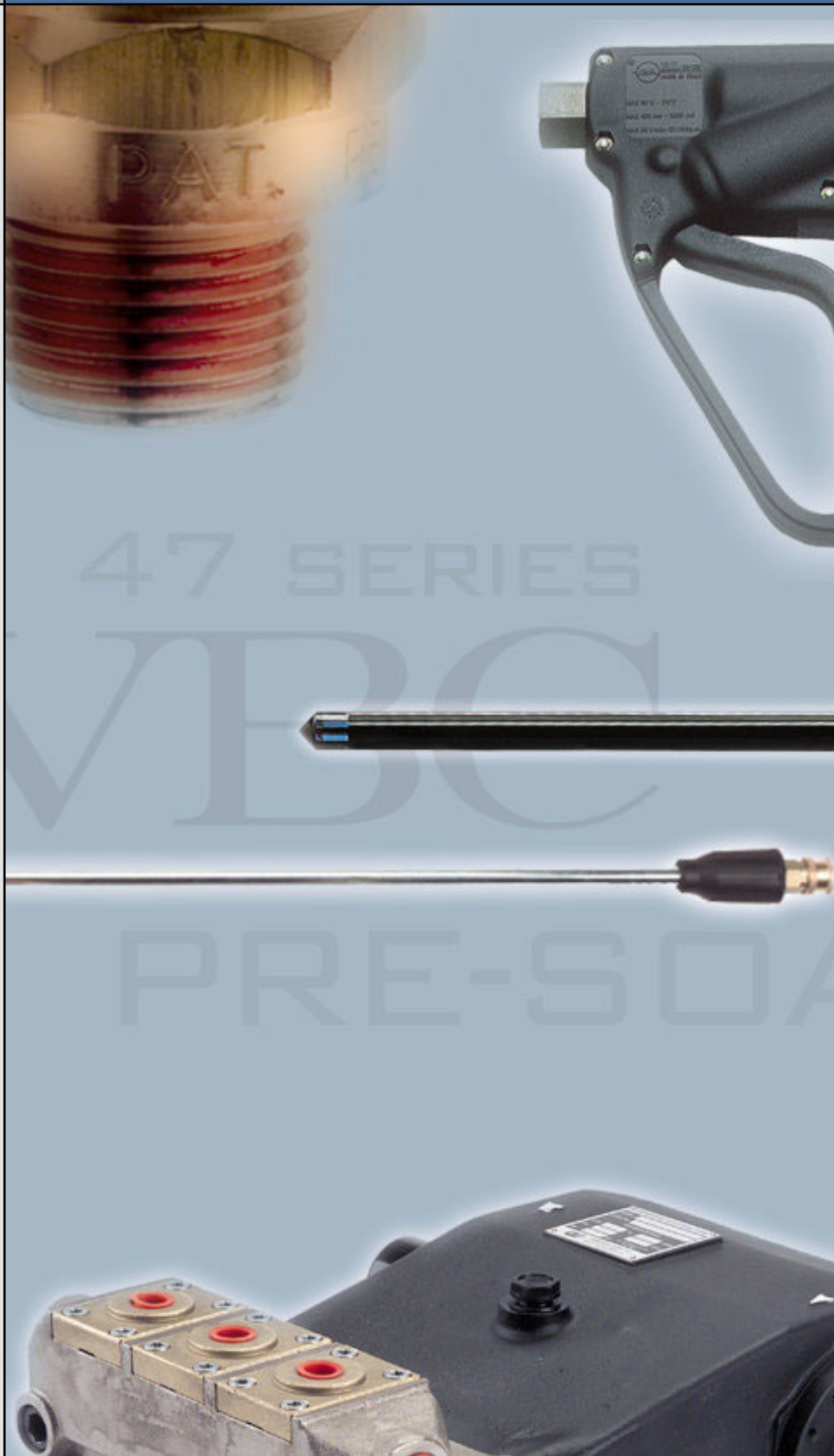
- Reverse osmosis
- Desalination
- Water purification

Sewer maintenance – MSS, HDS, KLS (duplex series)

- Sewer jetting
- Root cutting

Tank cleaning, HWB

- Barrel reconditioning
- Wine making



Industrial Pumps

EK Series, Triplex Plunger Pump

Max. Inlet Pressure: 45 PSI Max. Fluid Temperature: 140° F Inlet Port Thread: 1" BSP-F
Discharge Port Thread: 3/4" BSP-F Shaft Diameter: 1.181 in./30 mm
Pump Dimensions: 18.2" x 17.5" x 7.3" Crankcase Oil Capacity: 100 oz. Stroke: 1.575 in./40 mm
Product Group: V

| | GPM | PSI | RPM | BORE | HP | MIN INLET | SHP WGHT |
|------|----------|----------|----------|-----------------|-----------|-----------|----------|
| EK18 | 7.9 GPM | 4350 PSI | 1000 RPM | .709 in./18 mm | 23.6 EBHP | 4.8 PSI | 120 lbs. |
| EK20 | 9.8 GPM | 3600 PSI | 1000 RPM | .787 in./20 mm | 24.2 EBHP | 4.8 PSI | 120 lbs. |
| EK22 | 11.9 GPM | 3050 PSI | 1000 RPM | .866 in./22 mm | 24.9 EBHP | 4.9 PSI | 120 lbs. |
| EK25 | 15.6 GPM | 2300 PSI | 1000 RPM | .984 in./25 mm | 24.6 EBHP | 4.9 PSI | 120 lbs. |
| EK30 | 16.3 GPM | 2150 PSI | 750 RPM | 1.181 in./30 mm | 24.0 EBHP | 4.9 PSI | 120 lbs. |
| EK32 | 18.5 GPM | 1850 PSI | 750 RPM | 1.259 in./32 mm | 23.5 EBHP | 5.1 PSI | 120 lbs. |



EKLN Series, Triplex Plunger Pump with Duplex SS (ASTM A890) Manifold and 316 SS Wetted Parts; 431 SS Valve Plate and Seat.

Max. Inlet Pressure: 45 PSI Max. Fluid Temperature: 150° F Inlet Port Thread: 1" NPT-F
Discharge Port Thread: 3/4" NPT-F Shaft Diameter: 1.181 in./30 mm
Pump Dimensions: 18.2" x 17.5" x 7.3" Crankcase Oil Capacity: 101 oz. Stroke: 1.575 in./40 mm
Product Group: V

| | GPM | PSI | RPM | BORE | HP | MIN INLET | SHP WGHT |
|---------|----------|----------|----------|-----------------|-----------|-----------|----------|
| EKLN18A | 7.9 GPM | 4350 PSI | 1000 RPM | .709 in./18 mm | 23.7 EBHP | 4.8 PSI | 120 lbs. |
| EKLN20A | 9.8 GPM | 3600 PSI | 1000 RPM | .787 in./20 mm | 24.5 EBHP | 4.8 PSI | 120 lbs. |
| EKLN22A | 11.9 GPM | 3050 PSI | 1000 RPM | .866 in./22 mm | 24.9 EBHP | 4.9 PSI | 120 lbs. |
| EKLN25A | 15.6 GPM | 2300 PSI | 1000 RPM | .984 in./25 mm | 24.5 EBHP | 4.9 PSI | 120 lbs. |
| EKLN30A | 16.3 GPM | 2150 PSI | 750 RPM | 1.181 in./30 mm | 24.2 EBHP | 4.9 PSI | 120 lbs. |
| EKLN32A | 18.5 GPM | 1850 PSI | 750 RPM | 1.259 in./32 mm | 23.6 EBHP | 5.1 PSI | 120 lbs. |

EKLZ Series, Triplex Plunger Pump with Duplex SS (ASTM A890) Manifold and 316 SS Wetted Parts including Valve Plate and Seat.

Max. Inlet Pressure: 45 PSI Max. Fluid Temperature: 150° F Inlet Port Thread: 1" NPT-F
Discharge Port Thread: 3/4" NPT-F Shaft Diameter: 1.181 in./30 mm
Pump Dimensions: 18.2" x 17.5" x 7.3" Crankcase Oil Capacity: 101 oz. Stroke: 1.575 in./40 mm
Product Group: V

| | GPM | PSI | RPM | BORE | HP | MIN INLET | SHP WGHT |
|---------|----------|----------|---------|-----------------|-----------|-----------|----------|
| EKLZ18A | 5.9 GPM | 1160 PSI | 750 RPM | .709 in./18 mm | 4.7 EBHP | 4.8 PSI | 120 lbs. |
| EKLZ20A | 7.3 GPM | 1160 PSI | 750 RPM | .787 in./20 mm | 5.8 EBHP | 4.8 PSI | 120 lbs. |
| EKLZ22A | 8.9 GPM | 1160 PSI | 750 RPM | .866 in./22 mm | 7.1 EBHP | 4.9 PSI | 120 lbs. |
| EKLZ25A | 11.5 GPM | 1160 PSI | 750 RPM | .984 in./25 mm | 9.2 EBHP | 4.9 PSI | 120 lbs. |
| EKLZ30A | 13.0 GPM | 1160 PSI | 600 RPM | 1.181 in./30 mm | 10.3 EBHP | 4.9 PSI | 120 lbs. |
| EKLZ32A | 14.8 GPM | 1160 PSI | 600 RPM | 1.259 in./32 mm | 11.7 EBHP | 5.1 PSI | 120 lbs. |



HD Series, Triplex Plunger Pump

Max. Inlet Pressure: 45 PSI Max. Fluid Temperature: 140° F Inlet Port Thread: 1" BSP-F
Discharge Port Thread: 3/4" BSP-F Shaft Diameter: 1.378 in./35 mm
Pump Dimensions: 20.4" x 17.7" x 8.1" Crankcase Oil Capacity: 127 oz. Stroke: 1.575 in./40 mm
Product Group: V

| | GPM | PSI | RPM | BORE | HP | MIN INLET | SHP WGHT |
|------|----------|----------|----------|-----------------|-----------|-----------|----------|
| HD22 | 12.0 GPM | 4650 PSI | 1000 RPM | .866 in./22 mm | 38.3 EBHP | 4.9 PSI | 145 lbs. |
| HD25 | 15.6 GPM | 3600 PSI | 1000 RPM | .984 in./25 mm | 38.5 EBHP | 5.1 PSI | 145 lbs. |
| HD30 | 16.3 GPM | 2600 PSI | 750 RPM | 1.181 in./30 mm | 29.4 EBHP | 4.9 PSI | 145 lbs. |



HE Series, Triplex Plunger Pump, Solid Ceramic Plungers.

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: 1.378 in./35 mm
Pump Dimensions: 20.4" x 17.7" x 8.1" Crankcase Oil Capacity: 127 oz. Stroke: 1.575 in./40 mm
Product Group: V

| | GPM | PSI | RPM | BORE | HP | MIN INLET | SHP WGHT |
|-------|----------|----------|----------|----------------|-----------|-----------|----------|
| HE18A | 7.9 GPM | 7250 PSI | 1000 RPM | .709 in./18 mm | 39.3 EBHP | 4.8 PSI | 145 lbs. |
| HE20A | 10.0 GPM | 5800 PSI | 1000 RPM | .787 in./20 mm | 39.8 EBHP | 4.8 PSI | 145 lbs. |

HDN Series, Triplex Plunger Pump with Duplex SS (ASTM A890) Manifold; 316 SS Wetted Parts; 431 SS Valve Plate and Seat.

Max. Inlet Pressure: 45 PSI Max. Fluid Temperature: 140° F Inlet Port Thread: 1" BSP-F
Discharge Port Thread: 3/4" BSP-F Shaft Diameter: 1.378 in./35 mm
Pump Dimensions: 20.4" x 17.7" x 8.1" Crankcase Oil Capacity: 127 oz. Stroke: 1.575 in./40 mm
Product Group: V

| | GPM | PSI | RPM | BORE | HP | MIN INLET | SHP WGHT |
|-------|----------|----------|----------|-----------------|-----------|-----------|----------|
| HDN18 | 7.9 GPM | 7250 PSI | 1000 RPM | .709 in./18 mm | 39.3 EBHP | 4.8 PSI | 145 lbs. |
| HDN20 | 10.0 GPM | 5800 PSI | 1000 RPM | .787 in./20 mm | 39.8 EBHP | 4.8 PSI | 145 lbs. |
| HDN22 | 12.0 GPM | 4650 PSI | 1000 RPM | .866 in./22 mm | 38.3 EBHP | 4.9 PSI | 145 lbs. |
| HDN25 | 15.6 GPM | 3600 PSI | 1000 RPM | .984 in./25 mm | 38.5 EBHP | 5.1 PSI | 145 lbs. |
| HDN30 | 16.3 GPM | 2600 PSI | 750 RPM | 1.181 in./30 mm | 29.4 EBHP | 4.9 PSI | 145 lbs. |



HES Series, Triplex Plunger Pump for Jetting (Intermittent Use). Solid Ceramic Plungers

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: 1.378 in./35 mm
Pump Dimensions: 20.4" x 17.7" x 8.1" Crankcase Oil Capacity: 127 oz. Stroke: 1.575 in./40 mm
Product Group: V

| | GPM | PSI | RPM | BORE | HP | MIN INLET | SHP WGHT |
|--------|----------|----------|----------|----------------|-----------|-----------|----------|
| HES25A | 18.0 GPM | 4000 PSI | 1150 RPM | .984 in./25 mm | 49.3 EBHP | 5.1 PSI | 145 lbs. |

KL Series, Triplex Plunger Pump

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: 1.378 in./35 mm Pump Dimensions: 19" x 17.7" x 8.4"
Crankcase Oil Capacity: 127 oz. Stroke: 1.575 in./40 mm Product Group: V

| | GPM | PSI | RPM | BORE | HP | MIN INLET | SHP WGHT |
|------|----------|----------|----------|-----------------|-----------|-----------|----------|
| KL30 | 22.2 GPM | 2600 PSI | 1000 RPM | 1.181 in./30 mm | 40.3 EBHP | 5.4 PSI | 155 lbs. |
| KL33 | 27.0 GPM | 2150 PSI | 1000 RPM | 1.300 in./33 mm | 39.8 EBHP | 5.7 PSI | 155 lbs. |
| KL36 | 32.2 GPM | 1750 PSI | 1000 RPM | 1.417 in./36 mm | 38.7 EBHP | 6.0 PSI | 155 lbs. |
| KL40 | 33.8 GPM | 1600 PSI | 850 RPM | 1.585 in./40 mm | 37.1 EBHP | 5.7 PSI | 155 lbs. |
| KL45 | 40.1 GPM | 1450 PSI | 800 RPM | 1.772 in./45 mm | 39.9 EBHP | 6.0 PSI | 155 lbs. |
| KL50 | 43.3 GPM | 1150 PSI | 700 RPM | 1.969 in./50 mm | 34.2 EBHP | 5.8 PSI | 155 lbs. |

KLA Series, Triplex Plunger Pump, Aluminum Bronze Manifold

Max. Inlet Pressure: 45 PSI Max. Fluid Temperature: 140° F Inlet Port Thread: 1 1/2" BSP-F
Discharge Port Thread: 1" BSP-F Shaft Diameter: 1.378 in./35 mm Pump Dimensions: 19" x 17.7" x 8.4"
Crankcase Oil Capacity: 127 oz. Stroke: 1.575 in./40 mm Product Group: V

| | GPM | PSI | RPM | BORE | HP | MIN INLET | SHP WGHT |
|-------|----------|----------|---------|-----------------|-----------|-----------|----------|
| KLA30 | 16.6 GPM | 1160 PSI | 750 RPM | 1.181 in./30 mm | 13.2 EBHP | 5.4 PSI | 155 lbs. |
| KLA33 | 20.2 GPM | 1160 PSI | 750 RPM | 1.300 in./33 mm | 16.1 EBHP | 5.7 PSI | 155 lbs. |
| KLA36 | 24.1 GPM | 1160 PSI | 750 RPM | 1.417 in./36 mm | 19.2 EBHP | 6.0 PSI | 155 lbs. |
| KLA40 | 29.8 GPM | 1160 PSI | 750 RPM | 1.585 in./40 mm | 23.7 EBHP | 5.7 PSI | 155 lbs. |
| KLA45 | 30.1 GPM | 1160 PSI | 600 RPM | 1.772 in./45 mm | 24.0 EBHP | 6.7 PSI | 155 lbs. |
| KLA50 | 37.1 GPM | 1160 PSI | 600 RPM | 1.969 in./50 mm | 29.5 EBHP | 5.8 PSI | 155 lbs. |

KLN Series, Triplex Plunger Pump with Duplex SS (ASTM A890) Manifold; 316 SS Wetted Parts; 431 SS Valve Plate and Seat.

Max. Inlet Pressure: 45 PSI Max. Fluid Temperature: 140° F Inlet Port Thread: 1 1/2" BSP-F
Discharge Port Thread: 1" BSP-F Shaft Diameter: 1.378 in./35 mm Pump Dimensions: 19" x 17.7" x 8.4"
Crankcase Oil Capacity: 127 oz. Stroke: 1.575 in./40 mm Product Group: V

| | GPM | PSI | RPM | BORE | HP | MIN INLET | SHP WGHT |
|-------|----------|----------|----------|-----------------|-----------|-----------|----------|
| KLN30 | 22.2 GPM | 2600 PSI | 1000 RPM | 1.181 in./30 mm | 40.3 EBHP | 5.4 PSI | 155 lbs. |
| KLN33 | 27.0 GPM | 2150 PSI | 1000 RPM | 1.300 in./33 mm | 39.8 EBHP | 5.7 PSI | 155 lbs. |
| KLN36 | 32.2 GPM | 1750 PSI | 1000 RPM | 1.417 in./36 mm | 38.7 EBHP | 6.0 PSI | 155 lbs. |
| KLN40 | 33.8 GPM | 1600 PSI | 850 RPM | 1.585 in./40 mm | 37.1 EBHP | 5.7 PSI | 155 lbs. |
| KLN45 | 40.1 GPM | 1450 PSI | 800 RPM | 1.772 in./45 mm | 39.9 EBHP | 6.0 PSI | 155 lbs. |
| KLN50 | 43.3 GPM | 1160 PSI | 700 RPM | 1.969 in./50 mm | 34.2 EBHP | 5.8 PSI | 155 lbs. |

KLS Series, Triplex Plunger Pump for Jetting (intermittent use)

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: 1.378 in./35 mm Pump Dimensions: 19" x 17.7" x 8.4"
Crankcase Oil Capacity: 127 oz. Stroke: 1.575 in./40 mm Product Group: V

| | GPM | PSI | RPM | BORE | HP | MIN INLET | SHP WGHT |
|-------|----------|----------|----------|-----------------|-----------|-----------|----------|
| KLS36 | 32.2 GPM | 2200 PSI | 1000 RPM | 1.417 in./36 mm | 48.6 EBHP | 6.0 PSI | 155 lbs. |
| KLS40 | 35.0 GPM | 2000 PSI | 900 RPM | 1.585 in./40 mm | 48.0 EBHP | 5.7 PSI | 155 lbs. |
| KLS45 | 40.1 GPM | 1750 PSI | 800 RPM | 1.772 in./45 mm | 48.2 EBHP | 6.0 PSI | 155 lbs. |
| KLS50 | 43.3 GPM | 1450 PSI | 700 RPM | 1.969 in./50 mm | 43.1 EBHP | 5.8 PSI | 155 lbs. |

KLZ Series, Triplex Plunger Pump with Duplex SS (ASTM A890) Manifold; with 316 SS Wetted Parts including Valve Plate and Seat.

Max. Inlet Pressure: 45 PSI Max. Fluid Temperature: 140° F Inlet Port Thread: 1 1/2" BSP-F
Discharge Port Thread: 1" BSP-F Shaft Diameter: 1.378 in./35 mm Pump Dimensions: 19" x 17.7" x 8.4"
Crankcase Oil Capacity: 127 oz. Stroke: 1.575 in./40 mm Product Group: V

| | GPM | PSI | RPM | BORE | HP | MIN INLET | SHP WGHT |
|-------|----------|----------|---------|-----------------|-----------|-----------|----------|
| KLZ30 | 16.6 GPM | 1160 PSI | 750 RPM | 1.181 in./30 mm | 13.2 EBHP | 5.4 PSI | 155 lbs. |
| KLZ33 | 20.2 GPM | 1160 PSI | 750 RPM | 1.300 in./33 mm | 16.1 EBHP | 5.7 PSI | 155 lbs. |
| KLZ36 | 24.1 GPM | 1160 PSI | 750 RPM | 1.417 in./36 mm | 19.2 EBHP | 6.0 PSI | 155 lbs. |
| KLZ40 | 29.8 GPM | 1160 PSI | 750 RPM | 1.585 in./40 mm | 23.7 EBHP | 5.7 PSI | 155 lbs. |
| KLZ45 | 30.1 GPM | 1160 PSI | 600 RPM | 1.772 in./45 mm | 24.0 EBHP | 6.0 PSI | 155 lbs. |
| KLZ50 | 37.1 GPM | 1160 PSI | 600 RPM | 1.969 in./50 mm | 29.5 EBHP | 5.8 PSI | 155 lbs. |





Gearbox may be positioned as shown or at 45°, 90°, 135° or 180° from position shown.

MS Series, Triplex Plunger Pump

Max. Inlet Pressure: 45 PSI Max. Fluid Temperature: 140° F Inlet Port Thread: 2 1/2" NPT-F

Discharge Port Thread: 1 1/4" NPT-F Shaft Diameter: 2.758 in./70 mm

Pump Dimensions: 27.7" x 23.8" x 11.9" Crankcase Oil Capacity: 333 oz. Stroke: 2.362 in./60 mm

Product Group: V

| | GPM | PSI | RPM | BORE | HP | MIN INLET | SHP WGHT |
|------|----------|----------|---------|-----------------|------------|-----------|----------|
| MS36 | 35.9 GPM | 4350 PSI | 750 RPM | 1.417 in./36 mm | 107.2 EBHP | 6.5 PSI | 570 lbs. |
| MS40 | 44.4 GPM | 3500 PSI | 750 RPM | 1.575 in./40 mm | 106.7 EBHP | 6.8 PSI | 570 lbs. |
| MS45 | 56.3 GPM | 2750 PSI | 750 RPM | 1.772 in./45 mm | 106.3 EBHP | 7.1 PSI | 570 lbs. |
| MS50 | 69.5 GPM | 2250 PSI | 750 RPM | 1.969 in./50 mm | 107.3 EBHP | 7.6 PSI | 570 lbs. |
| MS55 | 84.0 GPM | 1800 PSI | 750 RPM | 2.165 in./55 mm | 103.8 EBHP | 7.8 PSI | 570 lbs. |

MSZ Series, Triplex Plunger Pump with Duplex SS (ASTM A890) Manifold; 316 SS Wetted Parts including Valve Plate and Seat.

Max. Inlet Pressure: 45 PSI Max. Fluid Temperature: 140° F Inlet Port Thread: 2 1/2" BSP-F

Discharge Port Thread: 1 1/4" BSP-F Shaft Diameter: 2.758 in./70 mm

Pump Dimensions: 27.7" x 23.8" x 11.9" Crankcase Oil Capacity: 333 oz. Stroke: 2.362 in./60 mm

Product Group: V

| | GPM | PSI | RPM | BORE | HP | MIN INLET | SHP WGHT |
|-------|----------|----------|---------|-----------------|-----------|-----------|----------|
| MSZ36 | 29.8 GPM | 1160 PSI | 620 RPM | 1.417 in./36 mm | 23.7 EBHP | 6.5 PSI | 600 lbs. |
| MSZ40 | 36.7 GPM | 1160 PSI | 620 RPM | 1.575 in./40 mm | 29.2 EBHP | 6.8 PSI | 600 lbs. |
| MSZ45 | 46.7 GPM | 1160 PSI | 620 RPM | 1.772 in./45 mm | 37.2 EBHP | 7.1 PSI | 600 lbs. |
| MSZ50 | 57.8 GPM | 1160 PSI | 620 RPM | 1.969 in./50 mm | 46.0 EBHP | 7.6 PSI | 600 lbs. |
| MSZ55 | 69.7 GPM | 1160 PSI | 620 RPM | 2.165 in./55 mm | 55.5 EBHP | 7.8 PSI | 600 lbs. |

MSN Series, Triplex Plunger Pump with Duplex SS (ASTM A890) Manifold; 316 SS Wetted Parts; 431 SS Valve Plate and Seat.

Max. Inlet Pressure: 45 PSI Max. Fluid Temperature: 140° F Inlet Port Thread: 2 1/2" BSP-F

Discharge Port Thread: 1 1/4" BSP-F Shaft Diameter: 2.758 in./70 mm

Pump Dimensions: 27.7" x 23.8" x 11.9" Crankcase Oil Capacity: 333 oz. Stroke: 2.362 in./60 mm

Product Group: V

| | GPM | PSI | RPM | BORE | HP | MIN INLET | SHP WGHT |
|-------|----------|----------|---------|-----------------|------------|-----------|----------|
| MSN36 | 35.9 GPM | 4350 PSI | 750 RPM | 1.417 in./36 mm | 107.2 EBHP | 6.5 PSI | 600 lbs. |
| MSN40 | 44.4 GPM | 3500 PSI | 750 RPM | 1.575 in./40 mm | 106.7 EBHP | 6.8 PSI | 600 lbs. |
| MSN45 | 56.3 GPM | 2750 PSI | 750 RPM | 1.772 in./45 mm | 106.3 EBHP | 7.1 PSI | 600 lbs. |
| MSN50 | 69.5 GPM | 2250 PSI | 750 RPM | 1.969 in./50 mm | 107.3 EBHP | 7.6 PSI | 600 lbs. |
| MSN55 | 84.0 GPM | 1800 PSI | 750 RPM | 2.165 in./55 mm | 103.8 EBHP | 7.8 PSI | 600 lbs. |

MS Series, Triplex Plunger Pump with Gear Box

Max. Inlet Pressure: 45 PSI Max. Fluid Temperature: 140° F Inlet Port Thread: 2 1/2" NPT-F

Discharge Port Thread: 1 1/4" NPT-F Shaft Diameter: 1.969 in./50 mm

Pump Dimensions: 27.7" x 23.8" x 11.7" Crankcase Oil Capacity: 333 oz. Stroke: 2.362 in./60 mm

Product Group: V

| | GPM | PSI | RPM | BORE | HP | MIN INLET | SHP WGHT |
|------------|----------|----------|----------|-----------------|------------|-----------|----------|
| MS3615R1-5 | 35.4 GPM | 4350 PSI | 1500 RPM | 1.417 in./36 mm | 105.7 EBHP | 6.5 PSI | 620 lbs. |
| MS3618R1-5 | 35.9 GPM | 4350 PSI | 1800 RPM | 1.417 in./36 mm | 107.2 EBHP | 6.5 PSI | 620 lbs. |
| MS4015R1-5 | 43.9 GPM | 3500 PSI | 1500 RPM | 1.575 in./40 mm | 105.5 EBHP | 6.8 PSI | 620 lbs. |
| MS4018R1-5 | 44.4 GPM | 3500 PSI | 1800 RPM | 1.575 in./40 mm | 106.7 EBHP | 6.8 PSI | 620 lbs. |
| MS4515R1-5 | 55.5 GPM | 2750 PSI | 1500 RPM | 1.772 in./45 mm | 104.8 EBHP | 7.1 PSI | 620 lbs. |
| MS4518R1-5 | 56.3 GPM | 2750 PSI | 1800 RPM | 1.772 in./45 mm | 106.3 EBHP | 7.1 PSI | 620 lbs. |
| MS5015R1-5 | 68.7 GPM | 2250 PSI | 1500 RPM | 1.969 in./50 mm | 106.1 EBHP | 7.6 PSI | 620 lbs. |
| MS5018R1-5 | 69.5 GPM | 2250 PSI | 1800 RPM | 1.969 in./50 mm | 107.3 EBHP | 7.6 PSI | 620 lbs. |
| MS5515R1-5 | 83.0 GPM | 1800 PSI | 1500 RPM | 2.165 in./55 mm | 102.5 EBHP | 7.8 PSI | 620 lbs. |
| MS5518R1-5 | 84.0 GPM | 1800 PSI | 1800 RPM | 2.165 in./55 mm | 103.8 EBHP | 7.8 PSI | 620 lbs. |

Please refer to pages 48-51 for fittings, safety devices and other accessories. Performances refer to theoretical delivery with 100% volumetric efficiency. Under normal operating conditions, pump volumetric efficiency is over 95%. Please contact our technical staff in case of continuous and heavy-duty, or special applications.

■ **MSN Series, Triplex Plunger Pump with Gear Box, Duplex SS (ASTM A890) Manifold; 316 SS Wetted Parts; 431 SS Valve Plate and Seat.**

Max. Inlet Pressure: 45 PSI Max. Fluid Temperature: 140° F Inlet Port Thread: 2 1/2" BSP-F

Discharge Port Thread: 1 1/4" BSP-F Shaft Diameter: 1.969 in./50 mm

Pump Dimensions: 27.7" x 23.8" x 11.7" Crankcase Oil Capacity: 333 oz. Stroke: 2.362 in./60 mm

Product Group: V



Gearbox may be positioned as shown or at 45°, 90°, 135° or 180° from position shown.

| | GPM | PSI | RPM | BORE | HP | MIN INLET | SHW WGT |
|-------------|----------|----------|----------|-----------------|------------|-----------|----------|
| MSN3615R1-5 | 35.4 GPM | 4350 PSI | 1500 RPM | 1.417 in./36 mm | 105.7 EBHP | 6.5 PSI | 650 lbs. |
| MSN3618R1-5 | 35.9 GPM | 4350 PSI | 1800 RPM | 1.417 in./36 mm | 107.2 EBHP | 6.5 PSI | 650 lbs. |
| MSN4015R1-5 | 43.9 GPM | 3500 PSI | 1500 RPM | 1.575 in./40 mm | 105.5 EBHP | 6.8 PSI | 650 lbs. |
| MSN4018R1-5 | 44.4 GPM | 3500 PSI | 1800 RPM | 1.575 in./40 mm | 106.7 EBHP | 6.8 PSI | 650 lbs. |
| MSN4515R1-5 | 55.5 GPM | 2750 PSI | 1500 RPM | 1.772 in./45 mm | 104.8 EBHP | 7.1 PSI | 650 lbs. |
| MSN4518R1-5 | 56.3 GPM | 2750 PSI | 1800 RPM | 1.772 in./45 mm | 106.3 EBHP | 7.1 PSI | 650 lbs. |
| MSN5015R1-5 | 68.7 GPM | 2250 PSI | 1500 RPM | 1.969 in./50 mm | 106.1 EBHP | 7.6 PSI | 650 lbs. |
| MSN5018R1-5 | 69.5 GPM | 2250 PSI | 1800 RPM | 1.969 in./50 mm | 107.3 EBHP | 7.6 PSI | 650 lbs. |
| MSN5515R1-5 | 83.0 GPM | 1800 PSI | 1500 RPM | 2.165 in./55 mm | 102.5 EBHP | 7.8 PSI | 650 lbs. |
| MSN5518R1-5 | 84.0 GPM | 1800 PSI | 1800 RPM | 2.165 in./55 mm | 103.8 EBHP | 7.8 PSI | 650 lbs. |

■ **MSS Series, Triplex Plunger Pump with Gear Box for Jetting (intermittent use).**

Max. Inlet Pressure: 45 PSI Max. Fluid Temperature: 140° F Inlet Port Thread: 2 1/2" NPT-F

Discharge Port Thread: 1 1/4" NPT-F Shaft Diameter: 1.969 in./50 mm

Pump Dimensions: 27.7" x 23.8" x 11.9" Crankcase Oil Capacity: 333 oz. Stroke: 2.362 in./60 mm

Product Group: V

| | GPM | PSI | RPM | BORE | HP | MIN INLET | SHW WGT |
|-------------|----------|----------|----------|-----------------|------------|-----------|----------|
| MSS3615R1-5 | 35.4 GPM | 5000 PSI | 1500 RPM | 1.417 in./36 mm | 121.5 EBHP | 6.5 PSI | 620 lbs. |
| MSS3618R1-5 | 35.9 GPM | 5000 PSI | 1800 RPM | 1.417 in./36 mm | 123.2 EBHP | 6.5 PSI | 620 lbs. |
| MSS4015R1-5 | 43.9 GPM | 3900 PSI | 1500 RPM | 1.575 in./40 mm | 117.5 EBHP | 6.8 PSI | 620 lbs. |
| MSS4018R1-5 | 44.4 GPM | 3900 PSI | 1800 RPM | 1.575 in./40 mm | 118.8 EBHP | 6.8 PSI | 620 lbs. |
| MSS4515R1-5 | 55.5 GPM | 3050 PSI | 1500 RPM | 1.772 in./45 mm | 116.2 EBHP | 7.1 PSI | 620 lbs. |
| MSS4518R1-5 | 56.3 GPM | 3050 PSI | 1800 RPM | 1.772 in./45 mm | 117.9 EBHP | 7.1 PSI | 620 lbs. |
| MSS5015R1-5 | 68.7 GPM | 2470 PSI | 1500 RPM | 1.969 in./50 mm | 116.5 EBHP | 7.6 PSI | 620 lbs. |
| MSS5018R1-5 | 69.5 GPM | 2470 PSI | 1800 RPM | 1.969 in./50 mm | 117.8 EBHP | 7.6 PSI | 620 lbs. |
| MSS5515R1-5 | 83.0 GPM | 2000 PSI | 1500 RPM | 2.165 in./55 mm | 114.0 EBHP | 7.8 PSI | 620 lbs. |
| MSS5518R1-5 | 84.0 GPM | 2000 PSI | 1800 RPM | 2.165 in./55 mm | 115.3 EBHP | 7.8 PSI | 620 lbs. |

■ **MSZ Series, Triplex Plunger Pump with Gear Box, Duplex SS (ASTM A890) Manifold; 316 SS Wetted Parts including Valve Plate and Seat.**

Max. Inlet Pressure: 45 PSI Max. Fluid Temperature: 140° F Inlet Port Thread: 2 1/2" BSP-F

Discharge Port Thread: 1 1/4" BSP-F Shaft Diameter: 1.969 in./50 mm

Pump Dimensions: 27.7" x 23.8" x 11.9" Crankcase Oil Capacity: 333 oz. Stroke: 2.362 in./60 mm

Product Group: V

| | GPM | PSI | RPM | BORE | HP | MIN INLET | SHW WGT |
|-------------|----------|----------|----------|-----------------|-----------|-----------|----------|
| MSZ3615R1-5 | 29.8 GPM | 1160 PSI | 1500 RPM | 1.417 in./36 mm | 23.7 EBHP | 6.5 PSI | 650 lbs. |
| MSZ4015R1-5 | 36.7 GPM | 1160 PSI | 1500 RPM | 1.575 in./40 mm | 29.2 EBHP | 6.8 PSI | 650 lbs. |
| MSZ4515R1-5 | 46.7 GPM | 1160 PSI | 1500 RPM | 1.772 in./45 mm | 37.2 EBHP | 7.1 PSI | 650 lbs. |
| MSZ5015R1-5 | 57.8 GPM | 1160 PSI | 1500 RPM | 1.969 in./50 mm | 46.0 EBHP | 7.6 PSI | 650 lbs. |
| MSZ5515R1-5 | 69.7 GPM | 1160 PSI | 1500 RPM | 2.165 in./55 mm | 55.5 EBHP | 7.8 PSI | 650 lbs. |



Gearbox may be positioned as shown or at 45°, 90°, 135° or 180° from position shown.

MH Series, Triplex Plunger Pump with Gear Box

Max. Inlet Pressure: 45 PSI Max. Fluid Temperature: 140° F Inlet Port Thread: 80 mm BSP-F

Discharge Port Thread: 1 1/4" BSP-F Shaft Diameter: 1.969 in./50 mm

Pump Dimensions: 33.3" x 28.2" x 13.5" Crankcase Oil Capacity: 466.5 oz. Stroke: 2.835 in./72 mm

Product Group: V

| | GPM | PSI | RPM | BORE | HP | MIN INLET | SHP WGHT |
|------------|-----------|----------|----------|-----------------|------------|-----------|----------|
| MH4515R1-5 | 51.2 GPM | 4350 PSI | 1500 RPM | 1.772 in./45 mm | 152.9 EBHP | 5.2 PSI | 880 lbs. |
| MH4518R1-5 | 49.4 GPM | 4350 PSI | 1800 RPM | 1.772 in./45 mm | 147.5 EBHP | 5.2 PSI | 880 lbs. |
| MH5015R1-5 | 63.4 GPM | 3500 PSI | 1500 RPM | 1.969 in./50 mm | 152.3 EBHP | 5.4 PSI | 880 lbs. |
| MH5018R1-5 | 61.0 GPM | 3500 PSI | 1800 RPM | 1.969 in./50 mm | 150.7 EBHP | 5.4 PSI | 880 lbs. |
| MH5515R1-5 | 76.6 GPM | 2900 PSI | 1500 RPM | 2.165 in./55 mm | 152.5 EBHP | 5.5 PSI | 880 lbs. |
| MH5518R1-5 | 74.0 GPM | 2950 PSI | 1800 RPM | 2.165 in./55 mm | 150.0 EBHP | 5.5 PSI | 880 lbs. |
| MH6015R1-5 | 91.1 GPM | 2400 PSI | 1500 RPM | 2.362 in./60 mm | 149.9 EBHP | 5.8 PSI | 880 lbs. |
| MH6018R1-5 | 88.0 GPM | 2550 PSI | 1800 RPM | 2.362 in./60 mm | 154.0 EBHP | 5.8 PSI | 880 lbs. |
| MH6515R1-5 | 107.0 GPM | 2050 PSI | 1500 RPM | 2.559 in./65 mm | 150.5 EBHP | 6.1 PSI | 880 lbs. |
| MH6518R1-5 | 103.0 GPM | 2100 PSI | 1800 RPM | 2.559 in./65 mm | 148.5 EBHP | 6.1 PSI | 880 lbs. |



VH Series, Triplex Plunger Pump (must be pressure fed)

Max. Inlet Pressure: 145 PSI Max. Fluid Temperature: 86° F Inlet Port Thread: 3/4" BSP-F

Discharge Port Thread: 1/2" BSP-F Shaft Diameter: 1.378 in./35 mm

Pump Dimensions: 22.7" x 17.7" x 8.3" Crankcase Oil Capacity: 127 oz. Stroke: 1.575 in./40 mm

Product Group: V

| | GPM | PSI | RPM | BORE | HP | DYNAMIC MIN INLET | SHP WGHT |
|------|---------|-----------|---------|----------------|-----------|-------------------|----------|
| VH12 | 2.6 GPM | 17500 PSI | 750 RPM | .472 in./12 mm | 25.9 EBHP | 90 PSI | 185 lbs. |
| VH14 | 3.6 GPM | 14500 PSI | 750 RPM | .551 in./14 mm | 35.8 EBHP | 90 PSI | 185 lbs. |
| VH16 | 4.7 GPM | 10800 PSI | 750 RPM | .630 in./16 mm | 34.8 EBHP | 90 PSI | 185 lbs. |



VS Series, High Flow, High Pressure Triplex Plunger Pump

Max. Inlet Pressure: 75 PSI Max. Fluid Temperature: 85° F Inlet Port Thread: 1 1/2" G

Discharge Port Thread: 1/2" G Shaft Diameter: 1.379 in./35 mm

Pump Dimensions: 33.59" x 14.66" x 12.45" Crankcase Oil Capacity: 10.5 quarts

Stroke: 2.36 in./60 mm Product Group: V

| | GPM | PSI | RPM | BORE | HP | MIN INLET | SHP WGHT |
|--------|----------|-----------|----------|----------------|----------|-----------|----------|
| VS1622 | 6.9 GPM | 21750 PSI | 2200 RPM | .630 in./16 mm | 101 EBHP | 45 PSI | 618 lbs. |
| VS1822 | 8.7 GPM | 17400 PSI | 2200 RPM | .709 in./18 mm | 103 EBHP | 45 PSI | 618 lbs. |
| VS2022 | 10.8 GPM | 13050 PSI | 2200 RPM | .787 in./20 mm | 96 EBHP | 45 PSI | 618 lbs. |
| VS2222 | 12.9 GPM | 10800 PSI | 2200 RPM | .868 in./22 mm | 96 EBHP | 45 PSI | 618 lbs. |
| VS2422 | 15.6 GPM | 8700 PSI | 2200 RPM | .945 in./24 mm | 92 EBHP | 45 PSI | 618 lbs. |
| VS1618 | 7.1 GPM | 21750 PSI | 1800 RPM | .630 in./16 mm | 105 EBHP | 45 PSI | 618 lbs. |
| VS1818 | 9.0 GPM | 17400 PSI | 1800 RPM | .709 in./18 mm | 106 EBHP | 45 PSI | 618 lbs. |
| VS2018 | 11.1 GPM | 13050 PSI | 1800 RPM | .787 in./20 mm | 99 EBHP | 45 PSI | 618 lbs. |
| VS2218 | 13.5 GPM | 10800 PSI | 1800 RPM | .868 in./22 mm | 100 EBHP | 45 PSI | 618 lbs. |
| VS2418 | 16.1 GPM | 8700 PSI | 1800 RPM | .945 in./24 mm | 95 EBHP | 45 PSI | 618 lbs. |
| VS1615 | 7.1 GPM | 21750 PSI | 1500 RPM | .945 in./16 mm | 105 EBHP | 45 PSI | 618 lbs. |
| VS1815 | 9.0 GPM | 17400 PSI | 1500 RPM | .709 in./18 mm | 106 EBHP | 45 PSI | 618 lbs. |
| VS2015 | 11.1 GPM | 13050 PSI | 1500 RPM | .787 in./20 mm | 99 EBHP | 45 PSI | 618 lbs. |
| VS2215 | 13.2 GPM | 10800 PSI | 1500 RPM | .868 in./22 mm | 100 EBHP | 45 PSI | 618 lbs. |
| VS2415 | 15.8 GPM | 8700 PSI | 1500 RPM | .945 in./24 mm | 94 EBHP | 45 PSI | 618 lbs. |

Please refer to pages 48-51 for fittings, safety devices and other accessories. Performances refer to theoretical delivery with 100% volumetric efficiency. Under normal operating conditions, pump volumetric efficiency is over 95%. Please contact our technical staff in case of continuous and heavy-duty, or special applications.

SH Series, Triplex Pump with Gear Box (must be pressure fed)

Max. Inlet Pressure: 100 PSI Max. Fluid Temperature: 86° F Inlet Port Thread: 1 1/2" BSP-F

Discharge Port Thread: 3/4" BSP-F Shaft Diameter: 1.969 in./50 mm

Pump Dimensions: 42.4" x 25.8" x 13.7" Crankcase Oil Capacity: 467 oz. Stroke: 3.543 in./90 mm

Product Group: V

| | GPM | PSI | RPM | BORE | HP | DYNAMIC MIN INLET | SHP WGHT |
|--------|----------|-----------|----------|-----------------|------------|-------------------|----------|
| SH2001 | 11.3 GPM | 20300 PSI | 1500 RPM | .787 in./20 mm | 157.4 EBHP | 90 PSI | 840 lbs. |
| SH2017 | 11.6 GPM | 17400 PSI | 1750 RPM | .787 in./20 mm | 138.5 EBHP | 90 PSI | 840 lbs. |
| SH2201 | 13.7 GPM | 15950 PSI | 1500 RPM | .866 in./22 mm | 150.0 EBHP | 90 PSI | 840 lbs. |
| SH2217 | 14.0 GPM | 15950 PSI | 1750 RPM | .866 in./22 mm | 153.3 EBHP | 90 PSI | 840 lbs. |
| SH2401 | 16.3 GPM | 13800 PSI | 1500 RPM | .945 in./24 mm | 154.4 EBHP | 90 PSI | 840 lbs. |
| SH2417 | 16.6 GPM | 13800 PSI | 1750 RPM | .945 in./24 mm | 157.2 EBHP | 90 PSI | 840 lbs. |
| SH2601 | 19.2 GPM | 11600 PSI | 1500 RPM | 1.024 in./26 mm | 152.9 EBHP | 90 PSI | 840 lbs. |
| SH2617 | 19.5 GPM | 11600 PSI | 1750 RPM | 1.024 in./26 mm | 155.3 EBHP | 90 PSI | 840 lbs. |
| SH2801 | 22.3 GPM | 10150 PSI | 1500 RPM | 1.102 in./28 mm | 155.4 EBHP | 90 PSI | 840 lbs. |
| SH2817 | 22.7 GPM | 10150 PSI | 1750 RPM | 1.102 in./28 mm | 158.1 EBHP | 90 PSI | 840 lbs. |
| SH3001 | 25.6 GPM | 8700 PSI | 1500 RPM | 1.181 in./30 mm | 152.9 EBHP | 90 PSI | 840 lbs. |
| SH3017 | 25.9 GPM | 8700 PSI | 1750 RPM | 1.181 in./30 mm | 154.7 EBHP | 90 PSI | 840 lbs. |



LH Series, Triplex Plunger Pump with Internal Gear Reduction

Max. Inlet Pressure: 45 PSI Max. Fluid Temperature: 140° F Inlet Port Thread: 80 mm BSP-F

Discharge Port Thread: 36 mm BSP-F Shaft Diameter: 1.969 in./50 mm

Pump Dimensions: 36.3" x 25.8" x 13.5" Crankcase Oil Capacity: 467 oz. Stroke: 3.546 in./90 mm

Product Group: V

| | GPM | PSI | RPM | BORE | HP | MIN INLET | SHP WGHT |
|--------|-----------|----------|----------|-----------------|------------|-----------|----------|
| LH4015 | 45.4 GPM | 4350 PSI | 1500 RPM | 1.575 in./40 mm | 135.5 EBHP | 5.1 PSI | 800 lbs. |
| LH4017 | 49.7 GPM | 4350 PSI | 1750 RPM | 1.575 in./40 mm | 148.4 EBHP | 5.1 PSI | 800 lbs. |
| LH4515 | 57.6 GPM | 3500 PSI | 1500 RPM | 1.772 in./45 mm | 138.4 EBHP | 5.4 PSI | 800 lbs. |
| LH4517 | 62.9 GPM | 3500 PSI | 1750 RPM | 1.772 in./45 mm | 151.1 EBHP | 5.4 PSI | 800 lbs. |
| LH5015 | 71.1 GPM | 2900 PSI | 1500 RPM | 1.969 in./50 mm | 141.5 EBHP | 5.5 PSI | 800 lbs. |
| LH5017 | 77.4 GPM | 2900 PSI | 1750 RPM | 1.969 in./50 mm | 154.1 EBHP | 5.5 PSI | 800 lbs. |
| LH5515 | 86.1 GPM | 2300 PSI | 1500 RPM | 2.165 in./55 mm | 135.9 EBHP | 5.8 PSI | 800 lbs. |
| LH5517 | 93.8 GPM | 2300 PSI | 1750 RPM | 2.165 in./55 mm | 148.1 EBHP | 5.8 PSI | 800 lbs. |
| LH6015 | 102.0 GPM | 2050 PSI | 1500 RPM | 2.362 in./60 mm | 143.5 EBHP | 6.1 PSI | 800 lbs. |
| LH6017 | 112.0 GPM | 2050 PSI | 1750 RPM | 2.362 in./60 mm | 157.6 EBHP | 6.1 PSI | 800 lbs. |



LHN Series, Triplex Plunger Pump with Internal Gear Reduction; Duplex SS (ASTM A890) Manifold; 316 SS Wetted Parts; 431 SS Valve Plate and Seat.

Max. Inlet Pressure: 45 PSI Max. Fluid Temperature: 140° F Inlet Port Thread: 80 mm BSP-F

Discharge Port Thread: 36 mm BSP-F Shaft Diameter: 1.969 in./50 mm

Pump Dimensions: 36.3" x 25.8" x 13.5" Crankcase Oil Capacity: 467 oz. Stroke: 3.546 in./90 mm

Product Group: V

| | GPM | PSI | RPM | BORE | HP | MIN INLET | SHP WGHT |
|---------|-----------|----------|----------|-----------------|------------|-----------|----------|
| LHN4015 | 45.4 GPM | 4350 PSI | 1500 RPM | 1.575 in./40 mm | 135.5 EBHP | 5.1 PSI | 850 lbs. |
| LHN4017 | 49.7 GPM | 4350 PSI | 1750 RPM | 1.575 in./40 mm | 148.4 EBHP | 5.1 PSI | 850 lbs. |
| LHN4515 | 57.6 GPM | 3500 PSI | 1500 RPM | 1.772 in./45 mm | 138.4 EBHP | 5.4 PSI | 850 lbs. |
| LHN4517 | 62.9 GPM | 3500 PSI | 1750 RPM | 1.772 in./45 mm | 151.1 EBHP | 5.4 PSI | 850 lbs. |
| LHN5015 | 71.1 GPM | 2900 PSI | 1500 RPM | 1.969 in./50 mm | 141.5 EBHP | 5.5 PSI | 850 lbs. |
| LHN5017 | 77.4 GPM | 2900 PSI | 1750 RPM | 1.969 in./50 mm | 154.1 EBHP | 5.5 PSI | 850 lbs. |
| LHN5515 | 86.1 GPM | 2300 PSI | 1500 RPM | 2.165 in./55 mm | 135.9 EBHP | 5.8 PSI | 850 lbs. |
| LHN5517 | 93.8 GPM | 2300 PSI | 1750 RPM | 2.165 in./55 mm | 148.1 EBHP | 5.8 PSI | 850 lbs. |
| LHN6015 | 102.0 GPM | 2050 PSI | 1500 RPM | 2.362 in./60 mm | 143.5 EBHP | 6.1 PSI | 850 lbs. |
| LHN6017 | 112.0 GPM | 2050 PSI | 1750 RPM | 2.362 in./60 mm | 157.6 EBHP | 6.1 PSI | 850 lbs. |



LHZ Series, Triplex Plunger Pump with Internal Gear Reduction; Duplex SS (ASTM A890) Manifold; 316 SS Wetted Parts; including Valve Plate and Seat

Max. Inlet Pressure: 45 PSI Max. Fluid Temperature: 140° F Inlet Port Thread: 80 mm BSP-F

Discharge Port Thread: 36 mm BSP-F Shaft Diameter: 1.969 in./50 mm Pump Dimensions:

36.3" x 25.8" x 13.5" Crankcase Oil Capacity: 467 oz. Stroke: 3.546 in./90 mm Product Group: V

| | GPM | PSI | RPM | BORE | HP | MIN INLET | SHP WGHT |
|---------|-----------|----------|----------|-----------------|-----------|-----------|----------|
| LHZ4015 | 39.6 GPM | 1160 PSI | 1500 RPM | 1.575 in./40 mm | 31.5 EBHP | 5.1 PSI | 850 lbs. |
| LHZ4017 | 46.2 GPM | 1160 PSI | 1750 RPM | 1.575 in./40 mm | 36.8 EBHP | 5.1 PSI | 850 lbs. |
| LHZ4515 | 49.9 GPM | 1160 PSI | 1500 RPM | 1.772 in./45 mm | 39.7 EBHP | 5.4 PSI | 850 lbs. |
| LHZ4517 | 58.1 GPM | 1160 PSI | 1750 RPM | 1.772 in./45 mm | 46.3 EBHP | 5.4 PSI | 850 lbs. |
| LHZ5015 | 61.5 GPM | 1160 PSI | 1500 RPM | 1.969 in./50 mm | 49.0 EBHP | 5.5 PSI | 850 lbs. |
| LHZ5017 | 71.3 GPM | 1160 PSI | 1750 RPM | 1.969 in./50 mm | 56.8 EBHP | 5.5 PSI | 850 lbs. |
| LHZ5515 | 74.5 GPM | 1160 PSI | 1500 RPM | 2.165 in./55 mm | 59.3 EBHP | 5.8 PSI | 850 lbs. |
| LHZ5517 | 86.9 GPM | 1160 PSI | 1750 RPM | 2.165 in./55 mm | 69.2 EBHP | 5.8 PSI | 850 lbs. |
| LHZ6015 | 89.0 GPM | 1160 PSI | 1500 RPM | 2.362 in./60 mm | 70.9 EBHP | 6.1 PSI | 850 lbs. |
| LHZ6017 | 104.3 GPM | 1160 PSI | 1750 RPM | 2.362 in./60 mm | 83.0 EBHP | 6.1 PSI | 850 lbs. |



WM Series, 316 Stainless Steel Fluid End Triplex Plunger Pump, Flanged for Output Couple to 56C Face NEMA Electric Motor – Double ball bearing design for ultimate crankshaft support. Corrosion resistant valve and packing design. Innovative, wear resistant high and low pressure seals for ultimate life.

Max. Inlet Pressure: 50 PSI Max. Fluid Temperature: 140° F Inlet Port Thread: 1/2" NPT-F

Discharge Port Thread: 3/8" - 19 NPT-F Shaft Diameter: .625 in./15.9 mm Hollow

Pump Dimensions: 9" x 7.5" x 6" Max. Inlet Vacuum: -5 PSI Crankcase Oil Capacity: 12.0 oz.

Product Group: W

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|----------------------------------|---------|----------|----------|----------------|---------------|----------|-----------|
| Pump must be pressure fed | | | | | | | |
| WM0515C | 0.5 GPM | 1500 PSI | 1750 RPM | .709 in./18 mm | .079 in./2 mm | .51 EBHP | 13.5 lbs. |

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|---------|---------|----------|----------|----------------|------------------|----------|-----------|
| WM2315C | 2.3 GPM | 1500 PSI | 1750 RPM | .709 in./18 mm | .295 in./7.5 mm | 2.4 EBHP | 13.5 lbs. |
| WM3015C | 3.0 GPM | 1500 PSI | 1750 RPM | .709 in./18 mm | .370 in./9.4 mm | 3.1 EBHP | 13.5 lbs. |
| WM3615C | 3.6 GPM | 1500 PSI | 1750 RPM | .709 in./18 mm | .413 in./10.5 mm | 3.7 EBHP | 13.5 lbs. |
| WM4215C | 4.2 GPM | 1500 PSI | 1750 RPM | .709 in./18 mm | .492 in./12.5 mm | 4.3 EBHP | 13.5 lbs. |



316 Stainless Steel Fluid End Triplex Plunger Pump, Solid Shaft – Double ball bearing design for ultimate crankshaft support. Corrosion resistant valve and packing design. Innovative, wear resistant high and low pressure seals for ultimate life.

Max. Inlet Pressure: 50 PSI Max. Fluid Temperature: 140° F Inlet Port Thread: 1/2" NPT-F

Discharge Port Thread: 3/8" - 19 NPT-F Shaft Diameter: .945 in./24 mm Solid Shaft

Pump Dimensions: 9" x 7.5" x 6" Max. Inlet Vacuum: -5 PSI Crankcase Oil Capacity: 12.0 oz.

Product Group: W

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|---------|---------|----------|----------|----------------|------------------|----------|-----------|
| WM4215S | 4.2 GPM | 1500 PSI | 1750 RPM | .709 in./18 mm | .492 in./12.5 mm | 4.3 EBHP | 15.0 lbs. |



T Series 47, Triplex Plunger Pump, Solid Shaft – 316 Stainless Steel Manifold. Heavy duty tapered roller bearings and over sized connecting rods for maximum life.

Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1/2" - 14 BSP-F

Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .945 in./24 mm

Pump Dimensions: 12.25" x 9.2" x 6.9" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg)

Crankcase Oil Capacity: 40.6 oz. Product Group: X

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|----------|----------|----------|----------|----------------|----------------|----------|-----------|
| TS2012SS | 4.0 GPM | 2200 PSI | 1450 RPM | .787 in./20 mm | .472 in./12 mm | 6.0 EBHP | 31.0 lbs. |
| TS2012SS | 4.75 GPM | 2200 PSI | 1750 RPM | .787 in./20 mm | .472 in./12 mm | 7.2 EBHP | 31.0 lbs. |
| TS2212SS | 4.75 GPM | 2200 PSI | 1450 RPM | .866 in./22 mm | .472 in./12 mm | 7.2 EBHP | 31.0 lbs. |
| TS2016SS | 5.55 GPM | 2200 PSI | 1450 RPM | .787 in./20 mm | .630 in./16 mm | 8.4 EBHP | 31.0 lbs. |
| TS2212SS | 5.55 GPM | 2200 PSI | 1750 RPM | .866 in./22 mm | .472 in./12 mm | 8.4 EBHP | 31.0 lbs. |

New!

66 Series Triplex Plunger Pump, 316 Stainless Steel
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: 13.27" x 9.6" x 6.23" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg)
Crankcase Oil Capacity: 31.0 oz. Product Group: Y

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGT |
|-----------|----------|----------|----------|----------------|----------------|-----------|-----------|
| TSF2221SS | 10.2 GPM | 3000 PSI | 1750 RPM | .866 in./22 mm | .826 in./21 mm | 21 0 EBHP | 42.0 lbs. |
| TSF2421SS | 12.0 GPM | 2500 PSI | 1750 RPM | .945 in./24 mm | .826 in./21 mm | 21 0 EBHP | 42.0 lbs. |

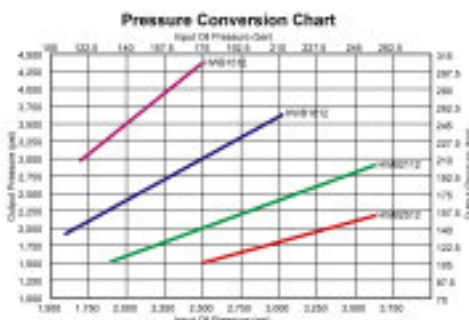
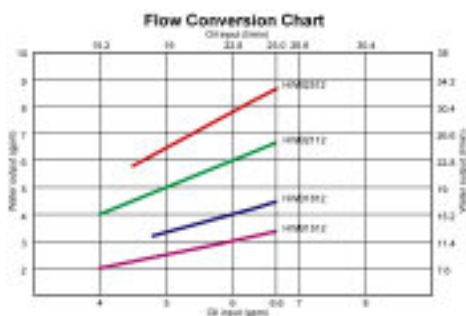


New!

Hydraforce Series, turns your hydraulic power into cleaning power. This innovative design provides durability and power in a compact package. The one-piece design couples a powerful, reliable drive system to a professional grade pump that is lubricated internally by the hydraulic system. This pump requires no oil changes and no regular maintenance. The HydraForce comes complete with an adjustable unloader and thermal relief valve. Flat-faced quick disconnects are also available for easy installation.

Max. Inlet Pressure: 150 PSI Max. Fluid Temperature: 145° F Inlet Port Thread: 3/4" NPT-F
Discharge Port Thread: 3/8" NPT-F Hydraulic Inlet Port: 1/2" BSP-F Hydraulic Return Port: 1/2" BSP-F
Pump Dimensions: 11.2" x 4.7" x 7.0" Product Group: Y

| | HYDRAULIC MAX GPM | RATIO | WATER MAX GPM | HYDRAULIC MAX PRESSURE | RATIO | WATER MAX PRESSURE | SHP WGT |
|---------|----------------------|-------|------------------|---------------------------|-------|-----------------------|-----------|
| HWB1512 | 6.6 GPM | 0.5 | 3.3 GPM | 2485 PSI | 1.75 | 4350 PSI | 19.0 lbs. |
| HWB1812 | 6.6 GPM | 0.67 | 4.4 GPM | 3020 PSI | 1.2 | 3625 PSI | 19.0 lbs. |
| HWB2112 | 6.6 GPM | 1.0 | 6.6 GPM | 3625 PSI | 0.8 | 2900 PSI | 19.0 lbs. |
| HWB2512 | 6.6 GPM | 1.3 | 8.6 GPM | 3625 PSI | 0.6 | 2175 PSI | 19.0 lbs. |



| | DESCRIPTION | PSI | MAX PRESSURE | INLET | OUTLET | MAX TEMP | SHP WGT |
|---------|-------------|----------|--------------|------------|------------|----------|----------|
| HFFQ001 | Plug | 14.0 GPM | 4350 PSI | 1/2" NPT-F | 1/2" QC-M | 250° F | 1.0 lbs. |
| HFFQ002 | Coupler | 14.0 GPM | 4350 PSI | 1/2" QC-F | 1/2" BSP-M | 250° F | 1.0 lbs. |
| HFFQ003 | Plug | 14.0 GPM | 4350 PSI | 1/2" BSP-M | 1/2" QC-M | 250° F | 1.0 lbs. |
| HFFQ004 | Coupler | 14.0 GPM | 4350 PSI | 1/2" NPT-F | 1/2" QC-F | 250° F | 1.0 lbs. |



Centrifugal Pumps



VC Series, Turbine Peripheral, Cast Iron Centrifugal Pumps – Applications include agricultural and horticultural irrigation; misting; dairy and farm applications; to empty and fill cisterns; booster showers.
Max. Working Pressure: 125 PSI Fluid Temperature Range: 5° to 158° F Motor: Single Phase, 60 Hz
Inlet Thread: 1" NPT Outlet Thread: 1" NPT Motor Speed: 3400 RPM
Mechanical Seal: Graphite/Ceramic Product Group: U

| | IMP MATERIAL | IMP DIMENSION | VOLTS | HP | SHF WGT |
|------------|--------------|---------------|-------|------|-----------|
| VBC1100511 | Brass | 2 1/4" | 115 | 0.5 | 12.0 lbs. |
| VBC1100711 | Brass | 2 15/16" | 115 | 0.75 | 18.0 lbs. |
| VBC1101011 | Brass | 3" | 115 | 1.0 | 21.0 lbs. |
| VBC1101511 | Brass | 2 15/16" | 115 | 1.5 | 32.0 lbs. |
| VBC1102031 | Brass | 3" | 230 | 2.0 | 34.0 lbs. |



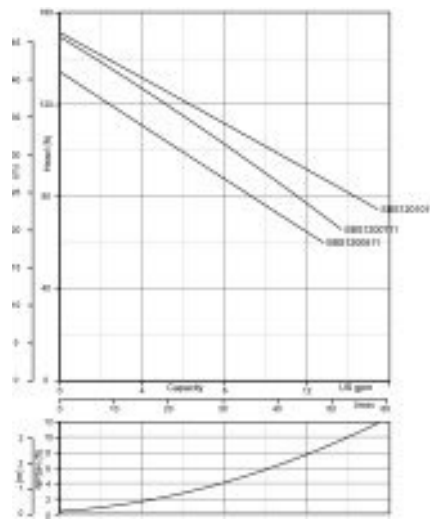
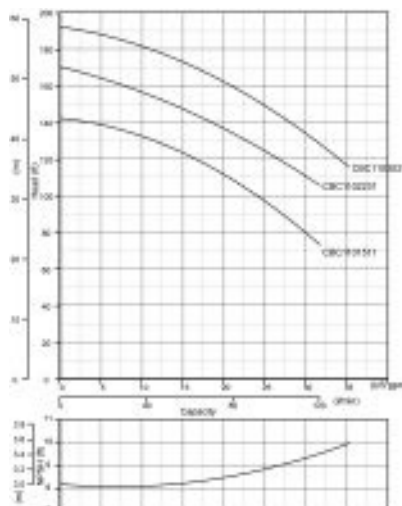
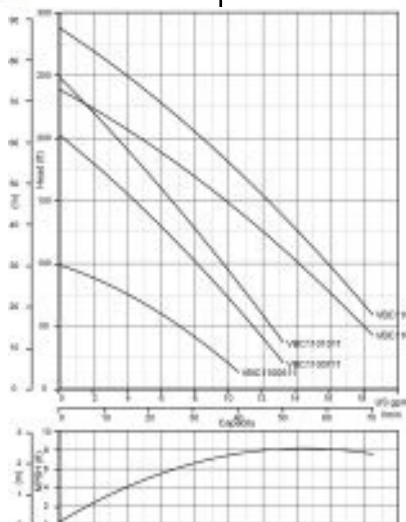
CC Series, Single Impeller, Cast Iron Centrifugal Pumps – Applications include industrial water supply; pressurization of water (pressure vessels); horticultural and agricultural irrigation; civil and domestic water transfer.
Max. Working Pressure: 130 PSI Fluid Temperature Range: 5° to 158° F Motor: Single Phase, 60 Hz
Inlet Thread: 1" NPT Outlet Thread: 1" NPT Motor Speed: 3400 RPM
Mechanical Seal: Graphite/Ceramic Product Group: U

| | IMP MATERIAL | IMP DIMENSION | VOLTS | HP | SHF WGT |
|------------|--------------|---------------|-------|-----|-----------|
| CBC1101511 | Brass | 5 13/16" | 115 | 1.5 | 49.0 lbs. |
| CBC1102231 | Brass | 6 3/8" | 230 | 2.2 | 53.6 lbs. |
| CBC1103031 | Brass | 7" | 230 | 3.0 | 59.5 lbs. |



SBS Series, Self-Priming, Stainless Steel Centrifugal Pumps with Built-in Ejector – Applications include general water supply; pressurization of water (pressure vessels); agricultural and horticultural irrigation; misting; water transfer.
Max. Working Pressure: 87 PSI Fluid Temperature Range: 5° to 122° F Motor: Single Phase, 60 Hz
Inlet Thread: 1 1/2" BSP Outlet Thread: 1" BSP Motor Speed: 3400 RPM
Mechanical Seal: Graphite/Ceramic Diffuser: Thermoplastic Resin Product Group: U

| | IMP MATERIAL | IMP DIMENSION | VOLTS | HP | SHF WGT |
|------------|---------------------|---------------|-------|------|-----------|
| SBS1200511 | Thermoplastic Resin | 4 5/16" | 115 | 0.5 | 17.2 lbs. |
| SBS1200711 | Thermoplastic Resin | 4 5/16" | 115 | 0.75 | 18.7 lbs. |
| SBS1201011 | Thermoplastic Resin | 4 5/16" | 115 | 1.0 | 20.5 lbs. |



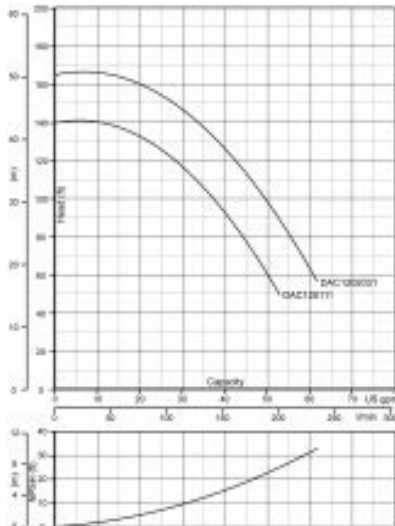
DAC Series, Double Impeller, Cast Iron Centrifugal Pumps – Applications include household systems; automatic distribution of water with small or medium tanks for irrigation; pressure increase for water mains; water supply.

Max. Working Pressure: 145 PSI Fluid Temperature Range: 5° to 158° F Motor: Single Phase, 60 Hz

Inlet Thread: 1 1/2" NPT Outlet Thread: 1" NPT Motor Speed: 3400 RPM

Mechanical Seal: Graphite/Ceramic Product Group: U

| | IMP MATERIAL | IMP DIMENSION | VOLTS | HP | SHP WGHT |
|------------|--------------|---------------|-------|-----|-----------|
| DAC1201511 | Brass | 4 1/4" | 115 | 1.5 | 52.9 lbs. |
| DAC1202031 | Brass | 4 1/4" | 230 | 2.0 | 57.3 lbs. |

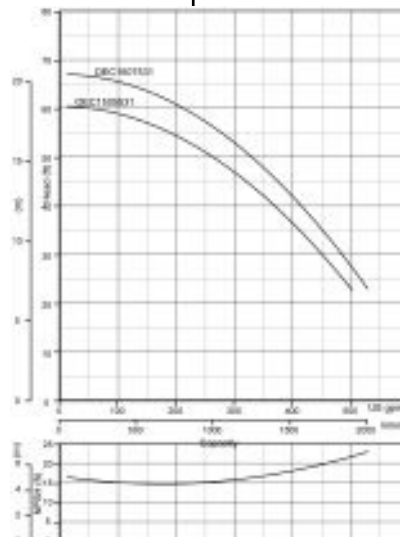
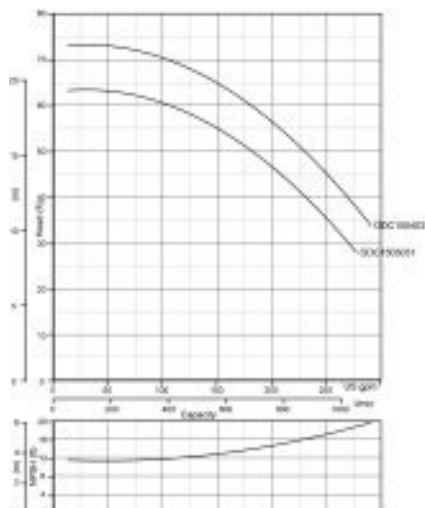
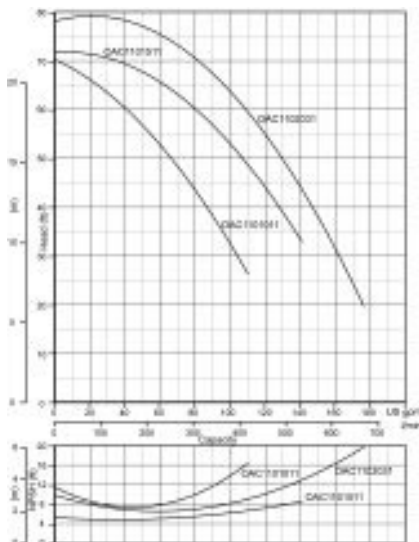


OC Series, Single Impeller, Cast Iron Centrifugal Pumps – Applications include industrial water supply, pressurization of water (pressure vessels); various horticultural and agricultural irrigation; civil and domestic water transfer.

Max. Working Pressure: 87 PSI Fluid Temperature Range: 5° to 158° F Motor: 60 Hz

Motor Speed: 3400 RPM Mechanical Seal: Graphite/Ceramic Product Group: U

| | IMP MATERIAL | IMP DIMENSION | INLET | OUTLET | VOLTS | HP | PHASE | SHP WGHT |
|------------|--------------|---------------|--------|--------|-------|-----|--------|------------|
| OAC1101011 | Brass | 4 5/16" | 2" NPT | 2" NPT | 115 | 1.0 | Single | 35.0 lbs. |
| OAC1101511 | Brass | 4 5/16" | 2" NPT | 2" NPT | 115 | 1.5 | Single | 42.0 lbs. |
| OAC1102031 | Brass | 4 5/16" | 2" NPT | 2" NPT | 230 | 2.0 | Single | 48.5 lbs. |
| ODC1503031 | Cast Iron | 4 3/16" | 3" BSP | 3" BSP | 230 | 3.0 | Single | 75.0 lbs. |
| ODC1504031 | Cast Iron | 4 7/16" | 3" BSP | 3" BSP | 230 | 4.0 | Single | 75.0 lbs. |
| OEC1505531 | Cast Iron | 4 3/16" | 4" BSP | 4" BSP | 230 | 5.5 | Single | 94.8 lbs. |
| OEC1507551 | Cast Iron | 4 1/2" | 4" BSP | 4" BSP | 230 | 7.5 | Three | 130.1 lbs. |

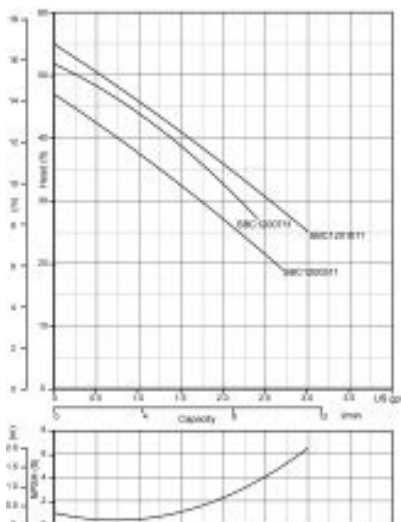




■ **SC Series, Self-Priming, Cast Iron Centrifugal Pumps with Built-in Ejector** – Applications include general water supply; pressurization of water (pressure vessels); agricultural and horticultural irrigation; misting; water transfer.

Max. Working Pressure: 87 PSI Fluid Temperature Range: 5° to 122° F Motor: Single Phase, 60 Hz
Motor Speed: 3400 RPM Mechanical Seal: Graphite/Ceramic Diffuser: Thermoplastic
Product Group: U

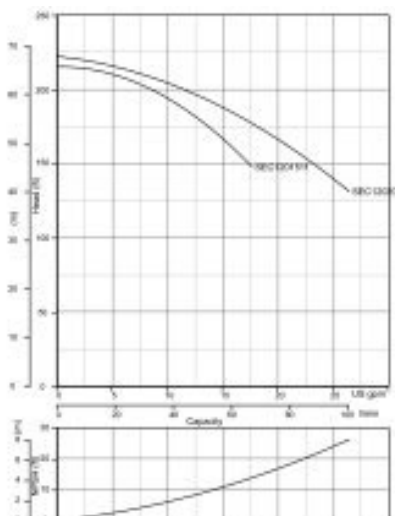
| | IMP MATERIAL | IMP DIMENSION | INLET | OUTLET | VOLTS | HP | SHP WGHT |
|------------|--------------|---------------|------------|------------|-------|------|-----------|
| SBC1200511 | Brass | 4 5/16" | 1" NPT | 1" NPT | 115 | 0.5 | 34.2 lbs. |
| SBC1200711 | Brass | 4 5/16" | 1" NPT | 1" NPT | 115 | 0.75 | 35.3 lbs. |
| SBC1201011 | Brass | 4 5/16" | 1" NPT | 1" NPT | 115 | 1.0 | 38.6 lbs. |
| SDC1101511 | Brass | 4 3/4" | 1 1/2" NPT | 1 1/2" NPT | 115 | 1.5 | 34.0 lbs. |
| SDC1102031 | Brass | 4 3/16" | 1 1/2" NPT | 1 1/2" NPT | 230 | 2.0 | 38.6 lbs. |
| SDC1103031 | Brass | 4 9/16" | 1 1/2" NPT | 1 1/2" NPT | 230 | 3.0 | 42.0 lbs. |



■ **SEC Series, Self-Priming, Cast Iron Centrifugal Pumps with Built-in Ejector** – Applications include general water supply; pressurization of water (pressure vessels); agricultural and horticultural irrigation; misting; water transfer.

Max. Working Pressure: 116 PSI Fluid Temperature Range: 5° to 122° F Motor: Single Phase, 60 Hz
Inlet Thread: 1 1/2" NPT Outlet Thread: 1" NPT Motor Speed: 3400 RPM
Mechanical Seal: Graphite/Ceramic Diffuser: Thermoplastic Product Group: U

| | IMP MATERIAL | IMP DIMENSION | VOLTS | HP | SHP WGHT |
|------------|---------------|---------------|-------|-----|-----------|
| SEC1201511 | Thermoplastic | 4 1/4" | 115 | 1.5 | 63.9 lbs. |
| SEC1202031 | Thermoplastic | 4 1/4" | 230 | 2.0 | 68.4 lbs. |



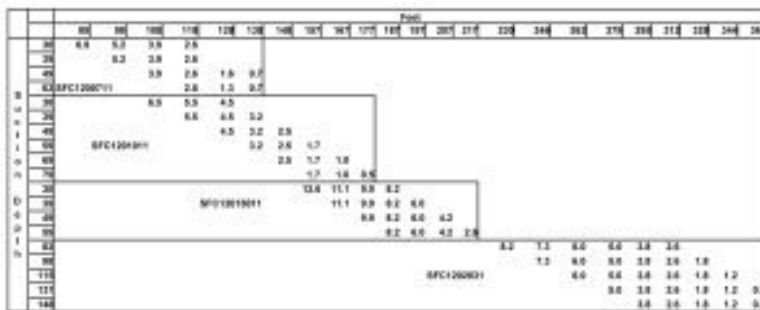


CENTRIFUGAL PUMPS

SFC Series, Self-Priming, Deep Well, Cast Iron Centrifugal Pumps with 4" External Ejector – Applications include water supply to remote dwellings; general water supply; pressurization of water (pressure vessels); horticultural irrigation; misting; dairy and farm applications.

Max. Working Pressure: 159 PSI Fluid Temperature Range: 5° to 122° F Motor: Single Phase, 60 Hz Motor Speed: 3400 RPM Mechanical Seal: Graphite/Ceramic Diffuser: Thermoplastic Resin Product Group: U

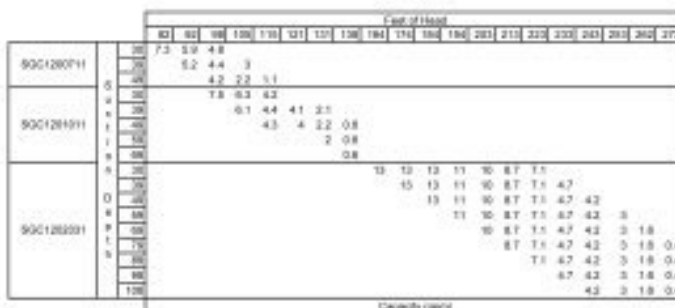
| | IMP MATERIAL | IMP DIMENSION | INLET | OUTLET | VOLTS | HP | SHP WGHT |
|------------|--------------|---------------|------------|--------|-------|------|-----------|
| SFC1200711 | Brass | 4 5/16" | 1 1/4" NPT | 1" NPT | 115 | 0.75 | 33.3 lbs. |
| SFC1201011 | Brass | 4 5/16" | 1 1/4" NPT | 1" NPT | 115 | 1.0 | 35.9 lbs. |
| SFC1201511 | Brass | 4 1/4" | 1 1/4" NPT | 1" NPT | 115 | 1.5 | 60.9 lbs. |
| SFC1202031 | Brass | 4 1/4" | 1 1/2" NPT | 1" NPT | 230 | 2.0 | 65.3 lbs. |



SGC Series, Self-Priming, Deep Well, Cast Iron Centrifugal Pumps with 2" External Ejector – applications include water supply to remote dwellings; general water supply; pressurization of water (pressure vessels); horticultural irrigation; misting; dairy and farm applications.

Max. Working Pressure: 130 PSI Fluid Temperature Range: 5° to 122° F Motor: Single Phase, 60 Hz Inlet Thread: 1 1/4" NPT Outlet Thread: 1" NPT Motor Speed: 3400 RPM Mechanical Seal: Graphite/Ceramic Diffuser: Thermoplastic Resin Product Group: U

| | IMP MATERIAL | IMP DIMENSION | VOLTS | HP | SHP WGHT |
|------------|---------------------|---------------|-------|------|-----------|
| SGC1200711 | Brass | 4 5/16" | 115 | 0.75 | 37.9 lbs. |
| SGC1201011 | Brass | 4 5/16" | 115 | 1.0 | 40.6 lbs. |
| SGC1202031 | Thermoplastic Resin | 4 1/4" | 230 | 2.0 | 70.3 lbs. |



Terms:

Head: The term used to express pressure in a centrifugal pump system in feet of liquid. When expressed in Feet of H₂O, one Foot Head = .43 PSI

NPSH_r: Net Positive Suction Head Required. A value provided by the manufacturer that specifies a centrifugal pump's feed requirement in order to prevent cavitation.

NPSH_a: Net Positive Suction Head Available. This is the total suction head provided by the system to feed the centrifugal pump. NPSH_a can change as a system ages or undergoes modification. Never assume that the NPSH_a of the original installation is unchanged.

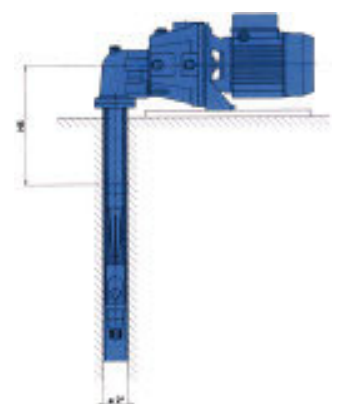
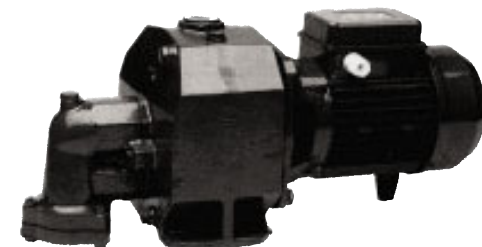
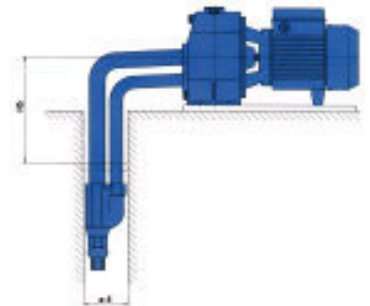
Margin: The difference between NPSH_a and NPSH_r. This must always be a positive number. If the margin is negative, system changes must be made or a pump with lower NPSH_r must be chosen.

To Calculate Feet of Head:

Head in Feet of H₂O = PSI x 2.31

Note: If the liquid being pumped is not water the Specific Gravity of the liquid must be known. Specific Gravity of water is 1.0.

Head in Feet of Liquid = $\frac{\text{PSI} \times 2.31}{\text{Specific Gravity}}$



Submersibles



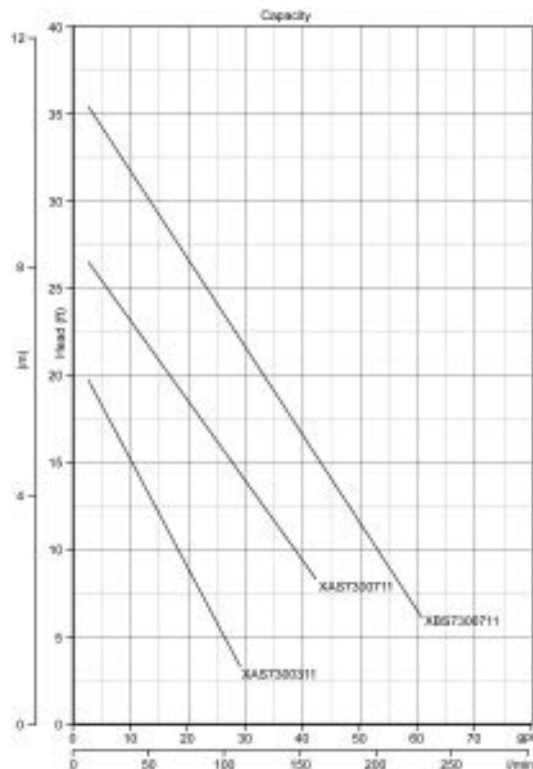
■ XS Series, Submersible, Electric 304 Stainless Steel Centrifugal Pumps – Applications include draining dirty water containing small solid particles or non-flammable, non-explosive, mildly aggressive liquids. The pump can operate completely or partially submersed.

Max. Working Pressure: 125 PSI Max. Fluid Temperature: 122° F Motor: Single Phase, 60 Hz, 115V Outlet Thread: 1 1/4" Solids Diameter: .197 in./5 mm Product Group: U

| | DESCRIPTION | IMP MATERIAL | HP | SHP WGHT |
|------------|-----------------------|---------------------|-----|-----------|
| XAS7300311 | Includes Float Switch | Thermoplastic Resin | 0.4 | 12.1 lbs. |
| XAS7300711 | Includes Float Switch | Thermoplastic Resin | 0.6 | 13.7 lbs. |

Max. Working Pressure: 125 PSI Max. Fluid Temperature: 122° F Motor: Single Phase, 60 Hz, 115V Outlet Thread: 1 1/2" Solids Diameter: .394 in./10 mm Product Group: U

| | DESCRIPTION | IMP MATERIAL | HP | SHP WGHT |
|------------|----------------------|--------------|-----|-----------|
| XBS7300711 | Without Float Switch | 304 SS | 0.8 | 19.8 lbs. |





Vehicle Cleaning Applications

SELF-SERVICE WASH

- Single or multi-bay applications
 - 47 Series CW
- Spot-free rinse application
 - MDS, WM, 47SS
- Chemical application
 - MDS, WM, 47SS
- Pre-soak / Tire-motor cleaner
 - VBC, SBS, WM, MDS
- Foam brush
 - VBC, SBS, WM
- Reclaim water
 - CW1541, CW1012
- Weep-systems
 - VBC, SBS

AUTOMATIC WASH

- Roll-over automatic
 - CW1541, CW1635, CW1522, CW1812
- Spot-free rinse application
 - MDS, WM, 47SS
- Pre-soak systems
 - MDS, WM, 47SS, VBC
- Weep systems
 - VBC
- Foam application
 - VBC, SBC

TUNNEL WASH

- Prep station
 - CW1012, CW61, CW81
- Brush wetting
 - CW1012, CW61, CW81
- Detergent application
 - VBC, SBC, CW2040, CW3040
- Spot-free rinse application
 - MDS, WM, 47SS
- Bay wash-down
 - T5050, CW3040

MOBILE VEHICLE WASH

- Truck mounted wash units
 - All PW and CW pump models, HWB
- Spot-free rinse application
 - MDS, WM, 47SS



Vehicle Cleaning Pumps



Flow

Car Wash Series 69 Triplex Plunger Pump – Forged brass manifold with an exclusive lifetime warranty. The preferred pump frame in the two-gun prep conveyor and tunnel car wash industry. Solid ceramic plungers with continuously lubricated packings.

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: 13.0" x 11.9" x 7.3" Crankcase Oil Capacity: 50.7 oz.

Max. Inlet Vacuum: 2 ft. water (1.8 in. Hg) Product Group: Y

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|--------|----------|----------|----------|-----------------|----------------|------------|-----------|
| CW1012 | 10.0 GPM | 1200 PSI | 750 RPM | 1.18 in./30 mm | .946 in./24 mm | 8.2 EBHP | 45.0 lbs. |
| CW1012 | 12.0 GPM | 1000 PSI | 900 RPM | 1.18 in./30 mm | .946 in./24 mm | 8.2 EBHP | 45.0 lbs. |
| CW1812 | 18.0 GPM | 1200 PSI | 1050 RPM | 1.417 in./36 mm | .946 in./24 mm | 14.79 EBHP | 45.0 lbs. |



Car Wash Series 47 Triplex Plunger Pump – Forged brass manifold with an exclusive lifetime warranty. The preferred pump frame in the car wash self-service industry. Solid ceramic plungers with continuously lubricated packings.

Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1/2" - 14 BSP-F

Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .945 in./24 mm (dual shaft)

Pump Dimensions: 11.4" x 10.8" x 6.9" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg)

Crankcase Oil Capacity: 33.8 oz. Product Group: X

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|--------|---------|----------|----------|----------------|----------------|-----------|-----------|
| CW2004 | 4.0 GPM | 2000 PSI | 1750 RPM | .787 in./20 mm | .394 in./10 mm | 6.9 EBHP | 30.0 lbs. |
| CW2040 | 5.0 GPM | 2500 PSI | 1250 RPM | .787 in./20 mm | .630 in./16 mm | 8.6 EBHP | 30.0 lbs. |
| CW24 | 5.0 GPM | 2500 PSI | 1250 RPM | .787 in./20 mm | .630 in./16 mm | 8.6 EBHP | 30.0 lbs. |
| CW3040 | 5.0 GPM | 3000 PSI | 1250 RPM | .787 in./20 mm | .630 in./16 mm | 10.3 EBHP | 32.0 lbs. |



TX Series 63, Triplex Plunger Pump – Large, light weight connecting rods, new long life low and high pressure seals, oversized roller bearings and dual sight glasses. Forged brass manifold with an exclusive lifetime warranty.

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 Crankcase Oil Capacity: 14 oz.

Max. Inlet Vacuum: 3 ft. water (2.6 in. Hg) Product Group: W

.945 in./24 mm Solid Shaft Pump Dimensions: 8.4" x 8.3" x 4.8"

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|-----------|---------|----------|----------|----------------|----------------|----------|-----------|
| TX1812S17 | 3.8 GPM | 2000 PSI | 1750 RPM | .709 in./18 mm | .472 in./12 mm | 5.2 EBHP | 19.0 lbs. |

1.125 in./28.5 mm Hollow Shaft, Flanged for Direct Couple to NEMA 184 TC Electric Motors

Pump Dimensions: 8.6" x 7.9" x 5.7"

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|------------|---------|----------|----------|----------------|----------------|----------|-----------|
| TX1812E179 | 3.8 GPM | 2000 PSI | 1750 RPM | .708 in./18 mm | .472 in./12 mm | 5.2 EBHP | 19.0 lbs. |



Car Wash Series 76 Triplex Plunger Pump – Forged brass manifold with an exclusive lifetime warranty. Over sized bronze connecting rods for maximum life. Solid ceramic plungers with continuously lubricated packings.

Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1" - 11 BSP-F

Discharge Port Thread: 3/4" - 14 BSP-F Shaft Diameter: 1.378 in./35 mm

Pump Dimensions: 15.6" x 14.0" x 9.5" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg)

Crankcase Oil Capacity: 91.0 oz. Product Group: Y

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|------|----------|----------|----------|-----------------|-----------------|-----------|-----------|
| CW61 | 17.0 GPM | 1200 PSI | 1000 RPM | 1.417 in./36 mm | .945 in./24 mm | 13.2 EBHP | 92.0 lbs. |
| CW81 | 21.0 GPM | 1200 PSI | 1000 RPM | 1.417 in./36 mm | 1.102 in./28 mm | 16.5 EBHP | 92.0 lbs. |



VEHICLE CLEANING PUMPS

Car Wash Series 77 Sixplex Plunger Pump – Forged brass manifold with an exclusive lifetime warranty. Most widely used pump frame in the touchless car wash industry. Dual manifolds utilizing a common crankcase for efficient performance. (Recommend Series 80/90 Oil, part number 100734.)
Max. Inlet Pressure: 125 PSI **Max. Fluid Temperature: 165° F** **Inlet Port Thread: Dual 1" - 11 NPT-F**
Discharge Port Thread: Dual 3/4" - 14 NPT-F **Shaft Diameter: 1.378 in./35 mm**
Crankcase Oil Capacity: 2 quarts **Pump Dimensions: 22.1" x 14.0" x 9.7"**
Max. Inlet Vacuum: Flooded **Product Group: Y**

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|--------|----------|----------|----------|-----------------|-----------------|-----------|----------|
| CW1541 | 41.0 GPM | 1200 PSI | 1000 RPM | 1.417 in./36 mm | 1.102 in./28 mm | 33.8 EBHP | 156 lbs. |

Car Wash Series Triplex Plunger Pump
Max. Inlet Pressure: 45 PSI **Max. Fluid Temperature: 140° F** **Inlet Port Thread: 1" BSP-F**
Discharge Port Thread: 3/4" BSP-F **Shaft Diameter: 1.181 in./30 mm**
Pump Dimensions: 16.8" x 17.6" x 7.9" **Crankcase Oil Capacity: 100 oz.** **Product Group: Y**

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|--------|----------|----------|----------|-----------------|-----------------|-----------|----------|
| CW1522 | 22.0 GPM | 1900 PSI | 1000 RPM | 1.181 in./30 mm | 1.575 in./40 mm | 30.0 EBHP | 119 lbs. |

Car Wash Series Triplex Plunger Pump
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: 1.378 in./35 mm**
Pump Dimensions: 19.0" x 17.7" x 8.4" **Max. Inlet Vacuum: Flooded** **Crankcase Oil Capacity: 128 oz.**
Product Group: Y

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|--------|----------|----------|----------|-----------------|-----------------|-----------|----------|
| CW1635 | 36.0 GPM | 1600 PSI | 1000 RPM | 1.575 in./40 mm | 1.575 in./40 mm | 38.4 EBHP | 155 lbs. |

Pump Retrofits to Replace CAT Pumps
Product Group: X

CW2040 PUMP WITH RETROFIT RAIL AND 24MM H BUSHING FOR CAT 310
190237 5.0 GPM 2500 PSI 1250 RPM .787 in./20 mm .630 in./16 mm 8.6 EBHP 30.0 lbs.

CW2040 PUMP AND RETROFIT RAIL AND 8" OD PULLEY FOR CAT 310
190238 5.0 GPM 2500 PSI 1250 RPM .787 in./20 mm .630 in./16 mm 8.6 EBHP 30.0 lbs.

CW3040 PUMP AND RETROFIT RAIL FOR CAT 530
190239 5.0 GPM 3000 PSI 1250 RPM .787 in./20 mm .630 in./16 mm 10.3 EBHP 32.0 lbs.

CW3040L PUMP AND RETROFIT RAIL AND H BUSHING FOR CAT 530
190245 5.0 GPM 3000 PSI 1250 RPM .787 in./20 mm .630 in./16 mm 10.3 EBHP 32.0 lbs.

66 Series, Triplex Plunger Pump, Forged Brass Manifold with an exclusive lifetime warranty. Innovative seal design to extend seal life. Plunger design improves thermal shock resistance. New valve cap design improves hydrostatic performance.
Max. Inlet Pressure: 125 PSI **Max. Fluid Temperature: 165° F** **Inlet Port Thread: Dual 3/4" - 14 BSP-F**
Discharge Port Thread: 3/8" - 19 BSP-F **Shaft Diameter: .945 in./24 mm**
Crankcase Oil Capacity: 31.0 oz. **Pump Dimensions: 13.27" x 9.6" x 6.23"**
Max. Inlet Vacuum: 9 ft. water (7.9 in Hg) **Product Group: X**

| | GPM | PSI | RPM | BORE | STROKE | HP | SHP WGHT |
|---------|----------|----------|----------|----------------|----------------|----------|-----------|
| TSF2221 | 8.5 GPM | 3000 PSI | 1450 RPM | .866 in./22 mm | .826 in./22 mm | 17.5 BHP | 40.7 lbs. |
| TSF2421 | 10.0 GPM | 2500 PSI | 1450 RPM | .945 in./24 mm | .826 in./21 mm | 17.2 BHP | 40.7 lbs. |

See page 52 for Vehicle Cleaning Accessories.



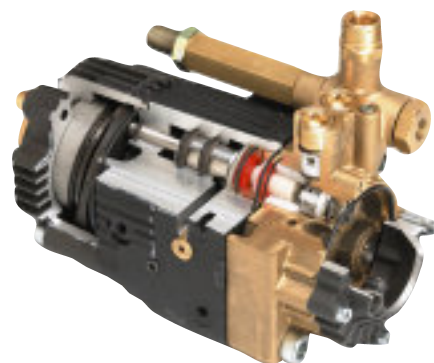


New Products



New 66 Series pump family, the latest design in plunger pump technology. There are two version of the pumps: a high flow series with flows up to 12.0 GPM, and a high pressure series with pressures up to 5800 PSI. This series of pumps features dual sight glasses plus long-life low and high pressure seals. The new plunger design improves thermal shock resistance and a new valve cap design improves hydrostatic performance. See page 9.

Introducing the new VS Series pump family. These new high flow, high pressure pumps will produce flows up to 16 GPM and pressures up to 21750 PSI. Ideal for water blasting and scale removal applications. See page 18.



Turn your hydraulic power into cleaning power. The HydraForce adapts to your hydraulic system to provide a powerful water cleaning system capable of pressures to 4350 PSI and flows to 8.6 GPM. The innovative unitized design couples a powerful, reliable drive system to a professional grade pump. This system, lubricated internally by your hydraulic system, requires no oil changes and no regular maintenance. The HydraForce comes complete with an adjustable unloader and thermal relief valve. Installation is made easy with available FIRG type Flat-faced couplers. See page 21.



Metering needle valve has flows up to 6.0 GPM and pressures up to 4000 PSI. The adjustable SS stem allows you to regulate the opening in the bore for fine control of flow. See page 42.



New Stainless Steel Injectors, fixed or adjustable. 3/8" x 3/8" male. Can be used in flows up to 8.0 GPM and pressures up to 5500 PSI. See page 43.

General Pump has defined the standards for the high-pressure industry by supplying the finest quality accessories, spare parts and kits. The General Pump logo is your sign that you are receiving the best the industry has to offer.

General Pump offers a complete range of accessories to allow for equipment design and application flexibility.

More than just pumps, General Pump offers the industry a complete range of solutions for its application needs.





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

ADJUSTABLE AND ROTATING NOZZLES

TANK CLEANING NOZZLES

COUPLERS AND FITTINGS

INLET FILTERS AND STRAINERS

THERMOSTATS

PRESSURE SWITCHES

FLOW SWITCHES

SWIVELS

ACCUMULATORS



Gear Reducers and Multipliers

Product Group: F

DESCRIPTION

| | | SHP WGHT |
|---------|---|---------------------|
| ZGR0750 | 2.4 to 1 Reduction for 3/4" Shafted Engines, 3 to 5 HP, J609A (Series 49 & 50 at 1450 RPM) | 5.0 lbs. |
| ZGR1000 | 2.2 to 1 Reduction for 1" Shafted Engines, 7 to 18 HP, J609B (Series 47 at 1450 RPM) | 11.0 lbs. |
| ZGR1125 | 2.2 to 1 Reduction for 1 1/8" Shafted Engines, 7 to 18 HP, J609B (Series 47 & 48 at 1450 RPM) | 11.0 lbs. |
| SGR1125 | Mounting Plate for Flat mounting (ZGR1000 and ZGR1125) | 0.5 lbs. |

DESCRIPTION

| | | SHP WGHT |
|---------|--|---------------------|
| YGR0750 | 2.4 to 1 Reduction, 3/4" Shafted Engines, 3 to 5 HP, J609A (Series 49 & 50 at 1450 RPM) | 4.0 lbs. |
| YGR1000 | 2.2 to 1 Reduction, Dual Bearing, 1" Shafted Engines, 11 to 18 HP, J609B (Series 47 at 1450 RPM) | 6.0 lbs. |
| YGR1125 | 2.2 to 1 Reduction, 1 1/8" Shaft, Dual Bearings, 11 to 18 HP, J609B (Series 47 & 48 at 1450 RPM) | 6.0 lbs. |
| ZGRPTO | 1 to 1.9 Multiplier, 540 RPM PTO, 1 3/8" Spline Shaft, up to 10 HP Pumps | 9.5 lbs. |

Flex Coupler

Product Group: F

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. |
| ZGL199 | 24 mm x 1 1/8" (Jaw) for use with 5 HP 184TC Frame and 213/215 TC Frame | 3.0 lbs. |

Flanges

Product Group: F

**ensure pump and motor RPM's match when selecting flanges*

DESCRIPTION

| | | SHP WGHT |
|----------|--|---------------------|
| ZF184 | For NEMA-C Electric Motors 184TC Frame, 3 and 5 HP (Series 49, 50 and 63 Pumps) | 3.0 lbs. |
| 640042 | Gas Flange Adapter (TT/TP Series 51 Pumps) | 0.3 lbs. |
| ZF213215 | For NEMA-C Electric Motors, 213TC, 215TC and 184TC Frames, 5 and 7-1/2 HP (Series 47 and 48 Pumps) | 4.0 lbs. |
| ZF56145 | For NEMA-C Electric Motors, 56C, 145TC & 182TC Frames, 1-1/2 HP and 2 HP (Series 49 and 50 Pumps) | 1.5 lbs. |
| ZF811 | Gas Engine Flange for 8 to 11 HP Gas Engines (TT9351 or TT9441 Pumps) | 3.0 lbs. |
| ZFWWS | Gas Engine Flange for 3.5 to 8 HP Gas Engines (TT/TP Series 51 Pumps) | 2.0 lbs. |
| ZFWWU | For NEMA-C Electric Motors 56C Frame (TT/TP Series 51 Pumps) | 2.0 lbs. |



DRIVE COMPONENTS

Pulleys *Product Group: F*

2 Groove, A Section Aluminum Pulley

| | DESCRIPTION | SHP WGHT |
|--------|---|-------------|
| ZP100 | 100 mm | 1.0 lb. |
| ZP140 | 140 mm | 1.4 lbs. |
| ZP160 | 160 mm | 1.8 lbs. |
| 190225 | Pulley and Rail Kit (includes 639015 and (2) 540015) | 1.5 lbs. |
| 454000 | 2 Groove, B Section, Iron, 6" Dual Groove, 35 mm Bore | 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 | 2.5 lbs. |



Browning Type "H" Pulley Bushing *Product Group: F*

| | DESCRIPTION | SHP WGHT |
|--------|-------------|-------------|
| ZBBH24 | 24 mm | 0.5 lbs. |
| ZBBH32 | 32 mm | 0.5 lbs. |
| ZBBH35 | 35 mm | 0.5 lbs. |

Clutches *Product Group: C*

| | DESCRIPTION | SHP WGHT |
|--------|---|-------------|
| 100687 | 12 Volt Double Groove Clutch Adapter Kit for 47 Series Pumps | 11.0 lbs. |
| 100688 | 12 Volt Double Groove Clutch Adapter Kit for 44 & 50 Series Pumps | 11.0 lbs. |
| 100717 | 12 Volt Single Groove Clutch Adapter Kit for 47 Series Pumps | 11.0 lbs. |
| 100718 | 12 Volt Single Groove Clutch Adapter Kit for 44 & 50 Series Pumps | 11.0 lbs. |
| 100719 | 24 Volt Double Groove Clutch Adapter Kit for 47 Series Pumps | 11.0 lbs. |
| 100720 | 24 Volt Double Groove Clutch Adapter Kit for 44 & 50 Series Pumps | 11.0 lbs. |



Oil *Product Group: M*

| | DESCRIPTION | SHP WGHT |
|--------|---|-------------|
| 100295 | Series 100 Oil, 16 oz. Bottle | 3.0 lbs. |
| 100552 | Series 100 Oil, 2 1/2 Gallons | 25.0 lbs. |
| 100450 | Series 220 Industrial Oil, 2 1/2 Gallons | 25.0 lbs. |
| 100734 | Series 8090 Oil, 2.5 Gallons | 25.0 lbs. |
| 100256 | Grease Gun Kit, 3 oz. Tube with Gun | 2.0 lbs. |
| 100264 | Packing Lubricant, 3 oz. Tube | 0.70 lbs. |
| 100278 | Industrial Packing Lubricant, 12 oz. Tube | 0.75 lbs. |

BULK PACKAGED OIL *Product Group: B*

| | | |
|--------|---|------------|
| 100214 | Series 100 Oil, 6-pack of 16 oz. Bottles | 7.0 lbs. |
| 100216 | Series 100 Oil, 24-pack of 16 oz. Bottles | 25.0 lbs. |
| 100553 | Series 100 Oil, 2 - 2 1/2 Gallons | 50.0 lbs. |
| 100219 | Series 100 Oil, 15 Gallon Plastic Drum | 117.0 lbs. |
| 100016 | Series 220 Industrial Oil, 6-pack of 16 oz. Bottles | 7.0 lbs. |
| 100217 | Series 220 Industrial Oil, 5 Gallons | 50.0 lbs. |
| 100735 | Series 8090 Oil, 2.5 Gallon Twin Pack | 50.0 lbs. |

Series 100 oil is 30 weight
Series 220 oil is 50 weight
Series 8090 is 80/90 weight gear lube





Trapped Pressure Unloaders

Product Group: S

Single Port Unloader White Spring

| | GPM | RATED | MAX | INLET | OUTLET | BYPASS | MAX TEMP | SHW WT |
|---------|-------|----------|----------|------------|------------|------------|----------|----------|
| YU815 | 8 GPM | 1450 PSI | 1750 PSI | 3/8" NPT-F | 3/8" NPT-F | 3/8" NPT-F | 195° F | 1.5 lbs. |
| YU815RK | 8 GPM | 1450 PSI | 1750 PSI | 3/8" NPT-F | 3/8" NPT-F | 3/8" NPT-F | 195° F | 1.5 lbs. |

Multi-port unloader

| | | | | | | | | |
|-------------|-------|----------|----------|----------------|------------|----------------|--------|----------|
| YU815D | 8 GPM | 1450 PSI | 1750 PSI | (2) 3/8" NPT-F | 3/8" NPT-F | (2) 3/8" NPT-F | 195° F | 1.5 lbs. |
| YU815DRK | 8 GPM | 1450 PSI | 1750 PSI | (2) 3/8" NPT-F | 3/8" NPT-F | (2) 3/8" NPT-F | 195° F | 1.5 lbs. |
| PULSAR3KMS2 | 8 GPM | 3200 PSI | 3650 PSI | 3/8" NPT-F | 3/8" NPT-F | (2) 3/8" NPT-F | 195° F | 2.0 lbs. |



Single Port Unloader Blue Spring

| | | | | | | | | |
|-------|-------|----------|----------|------------|------------|------------|--------|----------|
| YU831 | 8 GPM | 3200 PSI | 3650 PSI | 3/8" NPT-F | 3/8" NPT-F | 3/8" NPT-F | 195° F | 1.4 lbs. |
|-------|-------|----------|----------|------------|------------|------------|--------|----------|

Multi-port unloader

| | | | | | | | | |
|--------|-------|----------|----------|----------------|------------|----------------|--------|----------|
| YU831D | 8 GPM | 3200 PSI | 3650 PSI | (2) 3/8" NPT-F | 3/8" NPT-F | (2) 3/8" NPT-F | 195° F | 1.5 lbs. |
|--------|-------|----------|----------|----------------|------------|----------------|--------|----------|

Multi-port unloader with a built-in downstream chemical injector

| | | | | | | | | |
|---------|-------|----------|----------|----------------|------------|----------------|--------|----------|
| YU831DI | 8 GPM | 3200 PSI | 3650 PSI | (2) 3/8" NPT-F | 3/8" NPT-M | (2) 3/8" NPT-F | 195° F | 2.0 lbs. |
|---------|-------|----------|----------|----------------|------------|----------------|--------|----------|

Multi-port unloader with 2.1 mm Adjustable Injector (2.6 to 4 GPM) with knob

| | | | | | | | | |
|-----------|-------|----------|----------|----------------|------------|----------------|--------|----------|
| YU831DIRK | 8 GPM | 3200 PSI | 3650 PSI | (2) 3/8" BSP-F | 3/8" BSP-F | (2) 3/8" BSP-F | 195° F | 2.0 lbs. |
|-----------|-------|----------|----------|----------------|------------|----------------|--------|----------|

Unloader with pressure adjustment knob

| | | | | | | | | |
|---------|-------|----------|----------|------------|------------|------------|--------|----------|
| YU831RK | 8 GPM | 3200 PSI | 3650 PSI | 3/8" NPT-F | 3/8" NPT-F | 3/8" NPT-F | 195° F | 1.5 lbs. |
|---------|-------|----------|----------|------------|------------|------------|--------|----------|



Product Group: N

| | | | | | | | | |
|--------|---|--|--|--|--|--|--|----------|
| YUKNOB | Pressure Adjusting Knob for YU815 and YU831 Unloaders | | | | | | | 0.2 lbs. |
|--------|---|--|--|--|--|--|--|----------|

Product Group: S

| | | | | | | | | |
|------------|---------|----------|----------|------------|------------|------------|--------|----------|
| PULSAR3 | 8.1 GPM | 3200 PSI | 3650 PSI | 3/8" NPT-F | 3/8" NPT-F | 3/8" NPT-F | 195° F | 1.5 lbs. |
| PULSAR3KHP | 8.1 GPM | 3600 PSI | 4000 PSI | 3/8" NPT-F | 3/8" NPT-F | 3/8" NPT-F | 195° F | 1.5 lbs. |

Unloader with Easy Start

| | | | | | | | | |
|--------------|---------|----------|----------|------------|------------|----------------|--------|----------|
| PULSAR3KHPEZ | 8.0 GPM | 3600 PSI | 4000 PSI | 3/8" NPT-F | 3/8" NPT-F | (2) 3/8" NPT-F | 195° F | 1.6 lbs. |
| P3KHPEZF21 | 8.0 GPM | 3600 PSI | 4000 PSI | 3/8" NPT-F | 3/8" NPT-F | 3/8" NPT-F | 195° F | 1.6 lbs. |

PULSAR3 with Viton Packings




| | | | | | | | | |
|-----------|---------|----------|--|------------|------------|------------|--------|----------|
| Y60012205 | 8.0 GPM | 1500 PSI | | 3/8" NPT-F | 3/8" NPT-F | 3/8" NPT-F | 195° F | 1.5 lbs. |
|-----------|---------|----------|--|------------|------------|------------|--------|----------|



| | | | | | | | | |
|--------|------------------|--|----------|------------|------------|----------------|--------|----------|
| ZK3608 | 2.11 to 7.92 GPM | | 3600 PSI | 3/8" BSP-F | 3/8" BSP-M | (2) 3/8" BSP-F | 165° F | 2.3 lbs. |
|--------|------------------|--|----------|------------|------------|----------------|--------|----------|

Trapped Pressure Unloaders

Product Group: S

| | GPM | RATED | MAX | INLET | OUTLET | BYPASS | MAX TEMP | SHP WGHT |
|--|--------|----------|----------|----------------|------------|----------------|-------------|-------------|
|  <i>Yellow Spring</i> | | | | | | | | |
| YU2121 | 21 GPM | 2200 PSI | 2450 PSI | (2) 1/2" NPT-F | 1/2" NPT-F | (2) 1/2" NPT-F | 200° F | 3.1 lbs. |
|  <i>White Spring</i> | | | | | | | | |
| YUW2121 | 21 GPM | 2200 PSI | 2450 PSI | (2) 1/2" NPT-F | 1/2" NPT-F | (2) 1/2" NPT-F | 200° F | 3.1 lbs. |
|  <i>Green Spring</i> | | | | | | | | |
| YU2140 | 21 GPM | 4050 PSI | 4350 PSI | (2) 1/2" NPT-F | 1/2" NPT-F | (2) 1/2" NPT-F | 200° F | 3.1 lbs. |

| | | | | | | | | |
|--|----------|----------|----------|----------|----------|----------|--------|----------|
|  <i>Hi-flow</i> | | | | | | | | |
| YU5221 | 53.0 GPM | 2200 PSI | 2450 PSI | 1" NPT-F | 1" NPT-F | 1" NPT-F | 200° F | 4.5 lbs. |

 *303 Stainless Steel*
Product Group: K

| | | | | | | | | |
|--------|--------|----------|----------|----------------|------------|----------------|--------|----------|
| YU2158 | 21 GPM | 5800 PSI | 6500 PSI | (2) 1/2" NPT-F | 1/2" NPT-F | (2) 1/2" NPT-F | 200° F | 4.0 lbs. |
|--------|--------|----------|----------|----------------|------------|----------------|--------|----------|

Adjustable Trapped Pressure

Product Group: S

| | | | | | | | | |
|-------|-------|----------|----------|------------|------------|------------|--------|----------|
| YVB7K | 8 GPM | 3200 PSI | 3650 PSI | 3/8" NPT-M | 3/8" NPT-F | 3/8" NPT-F | 195° F | 1.2 lbs. |
|-------|-------|----------|----------|------------|------------|------------|--------|----------|

| | | | | | | | | |
|-------|-------|----------|----------|------------|------------|------------|--------|----------|
| YVB9K | 8 GPM | 3200 PSI | 3650 PSI | 3/8" NPT-F | 3/8" NPT-F | 3/8" NPT-F | 195° F | 2.0 lbs. |
|-------|-------|----------|----------|------------|------------|------------|--------|----------|





Adjustable Trapped Pressure

Product Group: S

| | GPM | RATED | MAX | INLET | OUTLET | BYPASS | MAX TEMP | SHW WT |
|---------------------------------|---------|----------|----------|------------|------------|----------------|----------|----------|
| <i>with Microswitch – 5 amp</i> | | | | | | | | |
| YVB8KMS | 8.0 GPM | 3200 PSI | 3650 PSI | 3/8" BSP-F | 3/8" BSP-F | (2) 3/8" BSP-F | 195° F | 2.0 lbs. |
| YVB9KMS2 | 8.0 GPM | 3200 PSI | 3650 PSI | 3/8" BSP-F | 3/8" BSP-F | 3/8" BSP-F | 195° F | 2.0 lbs. |

| | | | | | | | | |
|--|-------|----------|----------|------------|------------|------------|--------|----------|
| <i>with Microswitch – 5 amp, Stainless Steel Check Valve</i> | | | | | | | | |
| YVB9KMSS | 8 GPM | 3200 PSI | 3650 PSI | 3/8" BSP-F | 1/2" BSP-F | 3/8" BSP-F | 195° F | 2.0 lbs. |



| | GPM | MAX | INLET | OUTLET | BYPASS | MAX TEMP | SHW WT |
|----------------------------|----------|----------|------------|-------------------------|----------------|----------|----------|
| <i>Regulating Unloader</i> | | | | | | | |
| ZKHM | 10.8 GPM | 3000 PSI | 3/8" BSP-F | 1/4" BSP-F & 3/8" BSP-M | (2) 3/8" BSP-F | 195° F | 2.5 lbs. |

| | | | | | | | |
|--|----------|----------|------------|-------------------------|----------------|--------|----------|
| <i>Regulating Unloader without Spring & Knob with EZ Start</i> | | | | | | | |
| ZKHM1 | 10.8 GPM | 3000 PSI | 3/8" BSP-F | 1/4" BSP-F & 3/8" BSP-M | (2) 3/8" BSP-F | 195° F | 2.5 lbs. |



| | GPM | RATED | MAX | INLET | OUTLET | BYPASS | MAX TEMP | SHW WT |
|---|----------|----------|----------|------------|------------|------------|----------|----------|
| <i>High Pressure Unloaders with Knob (YU4050K - Black, YU5075K - Red)</i> | | | | | | | | |
| YU4050K | 10.0 GPM | 4050 PSI | 4500 PSI | 3/8" BSP-M | 3/8" BSP-F | 1/2" BSP-F | 195° F | 3.0 lbs. |
| YU5075K | 10.0 GPM | 5075 PSI | 5650 PSI | 3/8" BSP-M | 3/8" BSP-F | 1/2" BSP-F | 195° F | 3.0 lbs. |
| YU5075KS | 6.5 GPM | 5100 PSI | 5650 PSI | 3/8" BSP-M | 3/8" BSP-F | 3/8" BSP-F | 195° F | 2.0 lbs. |

Premium Pressure-Compensating Unloader min-max setting, Stainless Steel Check Valve, Brass Knob

| | GPM | RATED | MAX | INLET | OUTLET | BYPASS | MAX TEMP | SHW WT |
|-----------|----------|----------|----------|------------|------------|------------|----------|----------|
| YU5075KMM | 10.0 GPM | 5075 PSI | 5650 PSI | 3/8" BSP-M | 3/8" BSP-F | 1/2" BSP-F | 195° F | 3.0 lbs. |



Trapped Pressure Unloader for the TT Series 51 Pump

| | GPM | RATED | MAX | INLET | OUTLET | BYPASS | MAX TEMP | SHW WT |
|-----------|---------|----------|----------|------------|------------|------------|----------|---------|
| YVB130K | 6.5 GPM | 2300 PSI | 2600 PSI | 3/8" BSP-F | 3/8" BSP-F | 3/8" BSP-F | 195° F | 1.0 lb. |
| YVB130KTT | 6.5 GPM | 2300 PSI | 2600 PSI | 1/4" NPT-M | 3/8" NPT-M | 3/8" NPT-F | 195° F | 1.0 lb. |

Unloader with Knob and Injector

| | GPM | RATED | MAX | INLET | OUTLET | BYPASS | INJECTOR | MAX TEMP | SHW WT |
|--------------|---------|----------|----------|------------|------------|------------|----------|----------|-----------|
| YVB130KTTI18 | 6.5 GPM | 2300 PSI | 2600 PSI | 1/4" NPT-M | 3/8" NPT-M | 3/8" NPT-F | 1.8 mm | 195° F | 1.25 lbs. |
| YVB130KTTI21 | 6.5 GPM | 2300 PSI | 2600 PSI | 1/4" NPT-M | 3/8" NPT-M | 3/8" NPT-F | 2.1 mm | 195° F | 1.25 lbs. |
| YVB130KTTI23 | 6.5 GPM | 2300 PSI | 2600 PSI | 1/4" NPT-M | 3/8" NPT-M | 3/8" NPT-F | 2.3 mm | 195° F | 1.25 lbs. |

Modified Pressure Unloaders

Product Group: S

| | GPM | RATED | MAX | INLET | OUTLET | BYPASS | MAX TEMP | SHP WGHT |
|--------|-------|----------|----------|------------|------------|------------|----------|----------|
| YU3678 | 8 GPM | 3200 PSI | 3650 PSI | 3/8" NPT-F | 3/8" NPT-F | 3/8" NPT-F | 195° F | 2.5 lbs. |

Stainless Steel Check Valve

| | | | | | | | | |
|----------|-------|----------|----------|------------|------------|------------|--------|----------|
| YU3678MS | 8 GPM | 3200 PSI | 3650 PSI | 3/8" NPT-F | 1/2" NPT-M | 3/8" NPT-F | 195° F | 2.5 lbs. |
|----------|-------|----------|----------|------------|------------|------------|--------|----------|



Control Set Unloaders

Product Group: S

| | GPM | RATED | MAX | INLET | OUTLET | HOSE BARB | MAX TEMP | SHP WGHT |
|--|---------|----------|----------|------------|--------|-----------|----------|----------|
| Direct Mount Unloader with Chemical Injector, Pressure Gauge and Filter | | | | | | | | |
| ZOKR1 | 2.1 GPM | 1000 PSI | 1000 PSI | 3/8" BSP-F | M22 | 1/4" | 165° F | 2.0 lbs. |

Direct Mount Unloader with 2 mm Injector

| | | | | | | | | |
|------|-------|----------|----------|------------|------------|------|--------|----------|
| ZKW1 | 3 GPM | 1600 PSI | 1600 PSI | 3/8" BSP-F | 3/8" BSP-M | 1/4" | 165° F | 2.0 lbs. |
|------|-------|----------|----------|------------|------------|------|--------|----------|

Direct Mount Unloader without Injector

| | | | | | | | | |
|--------|-------|----------|----------|------------|------------|------|--------|----------|
| ZKW1SC | 3 GPM | 1600 PSI | 1600 PSI | 3/8" BSP-F | 3/8" BSP-M | 1/4" | 165° F | 2.0 lbs. |
|--------|-------|----------|----------|------------|------------|------|--------|----------|

Direct Mount Unloader with 2.2 mm Injector

| | | | | | | | | |
|-------|---------|----------|----------|------------|------------|------|--------|----------|
| ZKW21 | 4.5 GPM | 3000 PSI | 3000 PSI | 1/2" BSP-F | 3/8" BSP-M | 1/4" | 200° F | 2.0 lbs. |
|-------|---------|----------|----------|------------|------------|------|--------|----------|

Long body Unloader with 2.2 mm Injector

| | | | | | | | | |
|--------|---------|----------|----------|------------|------------|------|--------|----------|
| ZKW21L | 4.5 GPM | 3000 PSI | 3000 PSI | 1/2" BSP-F | 3/8" BSP-M | 1/4" | 200° F | 2.0 lbs. |
|--------|---------|----------|----------|------------|------------|------|--------|----------|

Long body Unloader with 2.5 mm Injector

| | | | | | | | | |
|--------|---------|----------|----------|------------|------------|------|--------|----------|
| ZKW22L | 6.0 GPM | 3000 PSI | 3000 PSI | 1/2" BSP-F | 3/8" BSP-M | 1/4" | 200° F | 2.0 lbs. |
|--------|---------|----------|----------|------------|------------|------|--------|----------|

Long body Unloader without Injector

| | | | | | | | | |
|---------|---------|----------|----------|------------|------------|------|--------|----------|
| ZKW2LSC | 6.0 GPM | 3000 PSI | 3000 PSI | 1/2" BSP-F | 3/8" BSP-M | 1/4" | 200° F | 2.0 lbs. |
|---------|---------|----------|----------|------------|------------|------|--------|----------|

Unloader with 2.2 mm Injector

| | | | | | | | | |
|--------|----------------------------|----------|----------|------------|------------|------|--------|----------|
| ZKW2SC | 4.5 GPM | 3000 PSI | 3000 PSI | 1/2" BSP-F | 3/8" BSP-M | 1/4" | 200° F | 2.0 lbs. |
| 190043 | ZKW2SC with Banjo Fittings | | | | | | | |



VALVES



Direct Mount Unloaders for TT/TP Series 51 Pumps
Product Group: S

| | GPM | RATED | MAX | INLET | OUTLET | INJECTOR | MAX TEMP | SHW | BOX QTY |
|--------------|---------|----------|----------|------------|------------|----------|----------|----------|---------|
| YVB135KDM | 6.5 GPM | 2300 PSI | 2600 PSI | 3/8" BSP-F | 3/8" BSP-M | N/A | 195° F | 1.5 lbs. | 20 |
| YVB135KDMI18 | 6.5 GPM | 2300 PSI | 2600 PSI | 3/8" BSP-F | 3/8" BSP-M | 1.8 mm | 195° F | 1.8 lbs. | 15 |
| YVB135KDMI21 | 6.5 GPM | 2300 PSI | 2600 PSI | 3/8" BSP-F | 3/8" BSP-M | 2.1 mm | 195° F | 1.8 lbs. | 25 |
| YVB75KTP | 8.0 GPM | 3200 PSI | 3650 PSI | 3/8" BSP-F | 3/8" BSP-M | N/A | 195° F | 1.8 lbs. | 20 |
| YVB75KTPF21 | 8.0 GPM | 3200 PSI | 3650 PSI | 3/8" BSP-F | 3/8" BSP-M | 2.1 mm | 195° F | 2.1 lbs. | 20 |



Direct Mount Unloaders for EZ, 47 and 63 Series Pumps

| | GPM | RATED | MAX | INLET | OUTLET | HOSE BARB | INJECTOR | MAX TEMP | SHW | BOX QTY |
|-------------|---------|----------|----------|------------|------------|-----------|----------|----------|----------|---------|
| YVB75KDMN | 7.8 GPM | 3200 PSI | 3650 PSI | 1/2" BSP-F | 3/8" BSP-F | N/A | N/A | 195° F | 1.8 lbs. | 20 |
| YVB75KDMN21 | 7.8 GPM | 3200 PSI | 3650 PSI | 1/2" BSP-F | 3/8" BSP-F | 1/4" | 2.1 mm | 195° F | 2.1 lbs. | 20 |

EZ Series Only

| | | | | | | | | | | |
|-----------|----------|----------|----------|------------|------------|-----|-----|--------|----------|----|
| YU4050KDM | 10.0 GPM | 4050 PSI | 4500 PSI | 3/8" BSP-F | 3/8" BSP-M | N/A | N/A | 195° F | 3.0 lbs. | 10 |
|-----------|----------|----------|----------|------------|------------|-----|-----|--------|----------|----|

Flow Sensitive Unloaders

Product Group: S

Inlet: 3/8" BSP-F Outlet: 1/2" BSP-M

| | GPM | MAXIMUM | BYPASS | MAX TEMP | SHW | BOX QTY |
|-----|-----------------|----------|------------|----------|----------|---------|
| ZK1 | 2.3 to 10.8 GPM | 3600 PSI | 1/2" BSP-M | 165°F | 2.3 lbs. | 10 |

Inlet: 3/8" BSP-F Outlet: 3/8" BSP-M

| | GPM | MAXIMUM | BYPASS | MAX TEMP | SHW | BOX QTY |
|------------|-----------------|----------|--------------|----------|----------|---------|
| ZK30 | 2.1 to 3.0 GPM | 1500 PSI | 3/4" BSP-M/F | 165°F | 2.0 lbs. | 10 |
| ZK31 | 3.0 to 4.2 GPM | 1500 PSI | 3/4" BSP-M/F | 165°F | 2.0 lbs. | 10 |
| ZK32 | 4.2 to 5.5 GPM | 1500 PSI | 3/4" BSP-M/F | 165°F | 2.0 lbs. | 10 |
| ZK33 | 5.0 to 6.0 GPM | 1500 PSI | 3/4" BSP-M/F | 165°F | 2.0 lbs. | 10 |
| ZK50 | 2.1 to 3.0 GPM | 3000 PSI | 3/4" BSP-M/F | 165°F | 2.5 lbs. | 10 |
| ZK51 | 3.0 to 4.2 GPM | 3000 PSI | 3/4" BSP-M/F | 165°F | 2.5 lbs. | 10 |
| ZK52 | 4.2 to 6.6 GPM | 3000 PSI | 3/4" BSP-M/F | 165°F | 2.5 lbs. | 10 |
| ZK53 | 6.6 to 10.8 GPM | 3000 PSI | 3/4" BSP-M/F | 165°F | 2.5 lbs. | 10 |
| ZK70 (GPV) | 2.1 to 3.0 GPM | 3500 PSI | 3/8" BSP-F | 165°F | 5.0 lbs. | 5 |
| ZK71 (GPV) | 3.0 to 4.2 GPM | 3500 PSI | 3/8" BSP-F | 165°F | 5.0 lbs. | 5 |
| ZK72 (GPV) | 4.2 to 6.6 GPM | 3500 PSI | 3/8" BSP-F | 165°F | 5.0 lbs. | 5 |
| ZK73 (GPV) | 6.6 to 10.8 GPM | 3500 PSI | 3/8" BSP-F | 165°F | 5.0 lbs. | 5 |

| | | | | | | |
|-----|-----------------|----------|------------|-------|-----------|---|
| ZK9 | 2.5 to 13.2 GPM | 5800 PSI | 1/2" BSP-F | 165°F | 11.0 lbs. | 1 |
|-----|-----------------|----------|------------|-------|-----------|---|

ZK72 Unloader with #1 Bypass Orifice

| | | | | | | |
|--------|----------------|----------|------------|-------|----------|---|
| 190009 | 4.2 to 6.6 GPM | 3000 PSI | 3/8" BSP-F | 165°F | 5.0 lbs. | 5 |
|--------|----------------|----------|------------|-------|----------|---|

ZK71 Unloader with a #0 Bypass Orifice

| | | | | | | |
|--------|----------------|----------|------------|-------|----------|---|
| 190079 | 3.0 to 4.2 GPM | 3000 PSI | 3/8" BSP-F | 165°F | 5.0 lbs. | 5 |
|--------|----------------|----------|------------|-------|----------|---|

ZK73 Unloader with #2 Bypass Orifice

| | | | | | | |
|--------|-----------------|----------|------------|-------|----------|---|
| 190361 | 6.6 to 10.8 GPM | 3000 PSI | 3/8" BSP-F | 165°F | 5.0 lbs. | 5 |
|--------|-----------------|----------|------------|-------|----------|---|

Balanced Relief Valves

Product Group: T

| | GPM | RATED | MAX | INLET | BYPASS | MAX TEMP | SHW WGHT | BOX QTY |
|----------|---------|----------|----------|----------------|------------|----------|----------|---------|
| YBRV5325 | 53 GPM | 2600 PSI | 2900 PSI | 3/4" BSP-F | 1/2" BSP-F | 195° F | 2.0 lbs. | 4 |
| YBRV624 | 6.3 GPM | 2200 PSI | 2450 PSI | 3/8" BSP-F | 3/8" BSP-F | 195° F | 0.8 lbs. | 40 |
| YBRV624D | 6.3 GPM | 2200 PSI | 2450 PSI | (2) 3/8" BSP-F | 3/8" BSP-F | 195° F | 1.0 lbs. | 40 |
| YBRV631 | 6.3 GPM | 3200 PSI | 3650 PSI | 3/8" BSP-F | 3/8" BSP-F | 195° F | 0.8 lbs. | 40 |
| YBRV631D | 6.3 GPM | 3200 PSI | 3600 PSI | (2) 3/8" BSP-F | 3/8" BSP-F | 195° F | 1.0 lbs. | 40 |
| 100268 | 6.3 GPM | 300 PSI | N/A | (2) 3/8" BSP-F | 3/8" BSP-F | 195° F | 1.0 lbs. | 40 |
| 100269 | 6.3 GPM | 300 PSI | N/A | 3/8" BSP-F | 3/8" BSP-F | 195° F | 0.8 lbs. | 40 |



Regulating Valves

Product Group: S

| | GPM | RATED | INLET | OUTLET | BYPASS | MAX TEMP | SHW WGHT | BOX QTY |
|----------|---------|----------|------------|------------|------------|----------|----------|---------|
| ZKHX | 4.0 GPM | 1900 PSI | 3/8" BSP-M | 3/8" BSP-M | 3/8" BSP-M | 165° F | 0.6 lbs. | 5 |
| YVS5100B | 6.5 GPM | 5600 PSI | 3/8" BSP-F | 3/8" BSP-F | 3/8" BSP-F | 195° F | 1.0 lbs. | 25 |



QR-2000 Regulators

Product Group: S

| | DESCRIPTION | GPM | RATED | INLET | OUTLET | MAX TEMP | SHW WGHT |
|--------|---------------|---------|----------|------------|------------|----------|----------|
| 100878 | Brass | 5.0 GPM | 2000 PSI | 3/8" NPT-F | 1/8" NPT-F | 190° F | 1.3 lbs. |
| 100892 | Nickel Plated | 5.0 GPM | 2000 PSI | 3/8" NPT-F | 1/8" NPT-F | 220° F | 1.4 lbs. |





Safety Relief Valves

Product Group: T

| | GPM | MAX | INLET | OUTLET | MAX TEMP | SHF WGHT |
|------|-----------------|----------|------------|------------|-------------|-------------|
| ZKSR | 1.3 to 10.8 GPM | 3000 PSI | 3/8" BSP-M | 1/4" BSP-F | 165° F | 1.5 lbs. |



Side Discharge with Hose Barb

| | | | | | | |
|--------|---------|----------|----------|-------------------|--------|----------|
| 100724 | 6.0 GPM | 6000 PSI | 1/4" NPT | Side w/ 1/8" Barb | 195° F | 1.0 lbs. |
| 100723 | 6.0 GPM | 6000 PSI | 3/8" NPT | Side w/ 1/8" Barb | 195° F | 1.0 lbs. |
| 100722 | 6.0 GPM | 6000 PSI | 1/2" NPT | Side w/ 1/8" Barb | 195° F | 1.0 lbs. |

Side Discharge without Hose Barb

| | | | | | | |
|--------|---------|----------|----------|------|--------|----------|
| 100725 | 6.0 GPM | 6000 PSI | 1/4" NPT | Side | 195° F | 1.0 lbs. |
| 100726 | 6.0 GPM | 6000 PSI | 3/8" NPT | Side | 195° F | 1.0 lbs. |
| 100727 | 6.0 GPM | 6000 PSI | 1/2" NPT | Side | 195° F | 1.0 lbs. |



End Discharge

| | | | | | | |
|--------|---------|----------|------------|------------|--------|----------|
| 100728 | 6.0 GPM | 6000 PSI | 1/4" NPT | End | 195° F | 1.0 lbs. |
| 100534 | 6.0 GPM | 6000 PSI | 3/8" NPT-M | End | 195° F | 1.0 lbs. |
| 100729 | 6.0 GPM | 6000 PSI | 1/2" NPT | End | 195° F | 1.0 lbs. |
| 100547 | 6.0 GPM | 6000 PSI | 3/8" NPT-M | End 1/8" F | 195° F | 1.0 lbs. |

Preset at 100 PSI Increments (50 piece minimum)

| | | | | | | |
|---------|---------|----------|------------|------------|--------|----------|
| 100547P | 6.0 GPM | 6000 PSI | 3/8" NPT-M | End 1/8" F | 195° F | 1.0 lbs. |
| 100534P | 6.0 GPM | 6000 PSI | 3/8" NPT-M | End | 195° F | 1.0 lbs. |
| 100728P | 6.0 GPM | 6000 PSI | 1/4" NPT-M | End | 195° F | 1.0 lbs. |

All sizes are available preset, please contact General Pump Sales.



| | | | | | | |
|---------|---------|----------|------------|------|--------|----------|
| YRV2063 | 6.3 GPM | 2000 PSI | 3/8" NPT-M | Side | 140° F | 1.5 lbs. |
|---------|---------|----------|------------|------|--------|----------|

| | | | | | | |
|---------|---------|----------|------------|------|--------|----------|
| YRV3463 | 6.3 GPM | 3500 PSI | 3/8" BSP-M | Side | 140° F | 1.5 lbs. |
|---------|---------|----------|------------|------|--------|----------|



| | | | | | | |
|------|-----------------|-----------|------------|------|--------|----------|
| ZKS3 | 2.6 to 21.4 GPM | 10000 PSI | 1/2" BSP-M | Side | 284° F | 2.0 lbs. |
|------|-----------------|-----------|------------|------|--------|----------|

Pump Thermal Protectors

Product Group: Q

| | DESCRIPTION | INLET | HOSE BARB | RELIEF TEMP | SHP WGHT |
|--------|---------------|----------|-----------|-------------|----------|
| 100556 | 90° Hose Barb | 1/4" NPT | 1/4" | 145° F | 1.5 oz. |
| 100557 | 90° Hose Barb | 3/8" NPT | 1/4" | 145° F | 1.5 oz. |
| 100558 | 90° Hose Barb | 1/2" NPT | 1/4" | 145° F | 1.5 oz. |



| | | | | | |
|--------|---------------|------------|------------|--------|---------|
| 100844 | 90° Hose Barb | 1/4" BSP-M | 1/4" | 145° F | 1.5 oz. |
| 100845 | 90° Hose Barb | 3/8" BSP-M | 1/4" | 145° F | 1.5 oz. |
| 100846 | 90° Hose Barb | 1/2" BSP-M | 1/4" | 145° F | 1.5 oz. |
| 100677 | No Hose Barb | 3/8" NPT | N/A | 190° F | 1.5 oz. |
| 100678 | No Hose Barb | 1/2" NPT | N/A | 190° F | 1.5 oz. |
| 100679 | 90° Hose Barb | 3/8" NPT | 1/4" Brass | 190° F | 1.5 oz. |
| 100680 | 90° Hose Barb | 1/2" NPT | 1/4" Brass | 190° F | 1.5 oz. |



| | | | | | |
|--------|---------------|----------|-----|--------|---------|
| 100259 | Banjo Fitting | 3/8" BSP | N/A | 145° F | 2.5 oz. |
|--------|---------------|----------|-----|--------|---------|

Easy Start Valves

Product Group: T

| | GPM | MAX | INLET | OUTLET | MAX TEMP | SHP WGHT |
|-----------|---------|----------|------------|----------------|----------|-----------|
| YESTVALVE | 7.8 GPM | 3650 PSI | 3/8" NPT-M | 1/4" Hose Barb | 176° F | 0.25 lbs. |



Provides Easy Start for manual start gas engines

| | | | | | | |
|--------|---------|----------|------------|----------------|--------|-----------|
| 100323 | 8.0 GPM | 5000 PSI | 3/8" NPT-M | 1/4" Hose Barb | 195° F | 0.25 lbs. |
| 100324 | 8.0 GPM | 5000 PSI | 1/4" NPT-M | 1/4" Hose Barb | 195° F | 0.25 lbs. |



| | | | | | | |
|--------|---------|----------|------------|------------|--------|-----------|
| 100543 | 8.0 GPM | 5000 PSI | 1/4" NPT-M | 1/8" NPT-F | 195° F | 0.25 lbs. |
| 100544 | 8.0 GPM | 5000 PSI | 3/8" NPT-M | 1/8" NPT-F | 195° F | 0.25 lbs. |
| 100490 | 8.0 GPM | 5000 PSI | 1/2" NPT-M | 1/8" NPT-F | 195° F | 0.25 lbs. |



VALVES



Bleeder Valves

Product Group: T

| | GPM | MAX | INLET | OUTLET | MAX TEMP | SHF WGH |
|--------|---------|----------|------------|----------------|----------|-----------|
| 100325 | 8.0 GPM | 5000 PSI | 1/4" NPT-M | 1/8" Hose Barb | 195° F | 0.25 lbs. |
| 100326 | 8.0 GPM | 5000 PSI | 3/8" NPT-M | 1/8" Hose Barb | 195° F | 0.25 lbs. |
| 100545 | 8.0 GPM | 5000 PSI | 1/4" NPT-M | 1/8" NPT-F | 195° F | 0.25 lbs. |
| 100546 | 8.0 GPM | 5000 PSI | 3/8" NPT-M | 1/8" NPT-F | 195° F | 0.25 lbs. |



Provides Easy Start function for electric start gas engines

| | | | | | | |
|--------|---------|----------|------------|----------------|--------|-----------|
| 100676 | 8.0 GPM | 5000 PSI | 1/4" NPT-M | 1/8" Hose Barb | 195° F | 0.25 lbs. |
| 100730 | 8.0 GPM | 5000 PSI | 1/2" NPT-M | 1/8" NPT-F | 195° F | 0.25 lbs. |
| 100684 | 8.0 GPM | 5000 PSI | 3/8" NPT-M | 1/8" Hose Barb | 195° F | 0.25 lbs. |

Check Valves

Product Group: T

| | DESCRIPTION | GPM | RATED | MAX | INLET | MAX TEMP | SHF WGH |
|----------|-----------------|----------|----------|----------|------------|----------|----------|
| YCV14FB | Brass | 6.5 GPM | 2200 PSI | 2300 PSI | 1/4" BSP-F | 195° F | 0.5 lbs. |
| YCV14FSS | Stainless Steel | 6.5 GPM | 5800 PSI | 6500 PSI | 1/4" BSP-F | 195° F | 0.5 lbs. |
| YCV38FB | Brass | 10.5 GPM | 2200 PSI | 2300 PSI | 3/8" BSP-F | 195° F | 0.5 lbs. |
| YCV38FSS | Stainless Steel | 10.5 GPM | 5800 PSI | 6500 PSI | 3/8" BSP-F | 195° F | 0.5 lbs. |
| YCV12FB | Brass | 21.0 GPM | 2200 PSI | 2300 PSI | 1/2" BSP-F | 195° F | 0.5 lbs. |
| YCV12FSS | Stainless Steel | 21.0 GPM | 5800 PSI | 6500 PSI | 1/2" BSP-F | 195° F | 0.5 lbs. |



Steam Valves

Product Group: T

| | GPM | RATED | MAX | PANEL FITTING | INLET | OUTLET | MAX TEMP | SHF WGH |
|-----------|---------|----------|----------|---------------|------------|------------|----------|----------|
| Y29092008 | 2.3 GPM | 3650 PSI | 4050 PSI | 3/4" | 1/4" BSP-M | 1/4" BSP-M | 175° F | 0.3 lbs. |
| Y29092012 | 3.4 GPM | 3650 PSI | 4050 PSI | 3/4" | 1/4" BSP-M | 1/4" BSP-M | 175° F | 0.3 lbs. |
| Y29092015 | 4.0 GPM | 3650 PSI | 4050 PSI | 3/4" | 1/4" BSP-M | 1/4" BSP-M | 175° F | 0.3 lbs. |



Needle Valve

Product Group: D

| | GPM | MAX | INLET | OUTLET | MAX TEMP | SHF WGH |
|--------|---------|----------|------------|------------|----------|----------|
| 100814 | 6.0 GPM | 4000 PSI | 1/4" NPT-F | 1/4" NPT-F | 190° F | 0.3 lbs. |



Need!

Metering Needle Valve

Adjustable SS Stem allows you to regulate the opening in the bore for fine control of flow.

| | GPM | MAX | INLET | OUTLET | MAX TEMP | SHF WGH |
|--------|---------|----------|------------|------------|----------|----------|
| 100838 | 6.0 GPM | 4000 PSI | 1/4" NPT-F | 1/4" NPT-F | 190° F | 0.4 lbs. |

Adjustable Chemical Injectors - Brass

Product Group: L

Inlet: 3/8" BSP-M Outlet: 3/8" BSP-M

| | ORIFICE | GPM | RATED | MAX TEMP | HOSE BARB | SHP WGHT | BOX QTY |
|--------|---------|-----------------|----------|----------|-----------|----------|---------|
| ZROB00 | 2.0 mm | 2.1 to 2.9 GPM | 3200 PSI | 210° F | 1/4" | 0.8 lbs. | 25 |
| ZROB01 | 2.2 mm | 2.9 to 4.0 GPM | 3200 PSI | 210° F | 1/4" | 0.8 lbs. | 25 |
| ZROB02 | 2.5 mm | 4.0 to 5.6 GPM | 3200 PSI | 210° F | 1/4" | 0.8 lbs. | 25 |
| ZROB03 | 2.75 mm | 6.6 to 10.8 GPM | 3200 PSI | 210° F | 1/4" | 0.8 lbs. | 25 |

Chemical Injectors with Brass Knob

| | | | | | | | |
|---------|---------|-----------------|----------|--------|------|----------|----|
| ZROB00B | 2.0 mm | 2.1 to 2.9 GPM | 3200 PSI | 210° F | 1/4" | 0.8 lbs. | 25 |
| ZROB01B | 2.2 mm | 2.9 to 4.0 GPM | 3200 PSI | 210° F | 1/4" | 0.8 lbs. | 25 |
| ZROB02B | 2.5 mm | 4.0 to 5.6 GPM | 3200 PSI | 210° F | 1/4" | 0.8 lbs. | 25 |
| ZROB03B | 2.75 mm | 6.6 to 10.8 GPM | 3200 PSI | 210° F | 1/4" | 0.8 lbs. | 25 |

EPDM O-Ring

| | ORIFICE | GPM | RATED | INLET | OUTLET | MAX TEMP | HOSE BARB | SHP WGHT |
|----------|---------|----------------|----------|------------|------------|----------|-----------|----------|
| YAINJ18E | 1.8 mm | 2.0 to 2.6 GPM | 4000 PSI | 3/8" NPT-M | 3/8" NPT-M | 195° F | 1/4" | 0.4 lbs. |
| YAINJ21E | 2.1 mm | 2.6 to 4.0 GPM | 4000 PSI | 3/8" NPT-M | 3/8" NPT-M | 195° F | 1/4" | 0.4 lbs. |
| YAINJ23E | 2.3 mm | 4.0 to 5.3 GPM | 4000 PSI | 3/8" NPT-M | 3/8" NPT-M | 195° F | 1/4" | 0.4 lbs. |



Standard Adjustable Chemical Injector

Product Group: L

| | ORIFICE | GPM | MAX | INLET/OUTLET | MAX TEMP | HOSE BARB | SHP WGHT |
|--------|---------|----------------|----------|--------------|----------|-----------|----------|
| 100823 | 1.5 mm | 1.0 to 2.0 GPM | 4250 PSI | 3/8" NPT-M | 190° F | 1/4" | 0.3 lbs. |
| 100824 | 1.8 mm | 2.0 to 3.0 GPM | 4250 PSI | 3/8" NPT-M | 190° F | 1/4" | 0.3 lbs. |
| 100825 | 2.1 mm | 3.0 to 5.0 GPM | 4250 PSI | 3/8" NPT-M | 190° F | 1/4" | 0.3 lbs. |
| 100826 | 2.3 mm | 5.0 to 8.0 GPM | 4250 PSI | 3/8" NPT-M | 190° F | 1/4" | 0.3 lbs. |



Adjustable Chemical Injectors - Stainless Steel

| | ORIFICE | GPM | RATED | INLET | OUTLET | MAX TEMP | HOSE BARB | SHP WGHT |
|--------|---------|----------------|----------|------------|------------|----------|-----------|----------|
| 100861 | 1.8 mm | 2.0 to 3.0 GPM | 5500 PSI | 3/8" NPT-M | 3/8" NPT-M | 190° F | 1/4" | 0.5 lbs. |
| 100862 | 2.1 mm | 3.0 to 5.0 GPM | 5500 PSI | 3/8" NPT-M | 3/8" NPT-M | 190° F | 1/4" | 0.5 lbs. |
| 100863 | 2.3 mm | 5.0 to 8.0 GPM | 5500 PSI | 3/8" NPT-M | 3/8" NPT-M | 190° F | 1/4" | 0.5 lbs. |





1000

High Draw Adjustable Chemical Injectors

Product Group: L

Chemical draw up to 20%

| | ORIFICE | GPM | RATED | INLET | OUTLET | MAX TEMP | HOSE BARB | SHW WGHT |
|--------|---------|----------------|----------|------------|------------|----------|-----------|----------|
| 100810 | 1.5 mm | 1.0 to 2.0 GPM | 4500 PSI | 3/8" NPT-M | 3/8" NPT-M | 195° F | 1/4" | 0.3 lbs. |
| 100811 | 1.8 mm | 2.0 to 3.0 GPM | 4500 PSI | 3/8" NPT-M | 3/8" NPT-M | 195° F | 1/4" | 0.3 lbs. |
| 100812 | 2.1 mm | 3.0 to 5.0 GPM | 4500 PSI | 3/8" NPT-M | 3/8" NPT-M | 195° F | 1/4" | 0.3 lbs. |
| 100813 | 2.3 mm | 5.0 to 8.0 GPM | 4500 PSI | 3/8" NPT-M | 3/8" NPT-M | 195° F | 1/4" | 0.3 lbs. |

High Draw Adjustable Chemical Injectors with Acid Kit

Product Group: L

| | ORIFICE | GPM | RATED | INLET | OUTLET | MAX TEMP | HOSE BARB | SHW WGHT |
|--------|---------|----------------|----------|------------|------------|----------|-----------|----------|
| 100827 | 1.5 mm | 1.0 to 2.0 GPM | 4500 PSI | 3/8" NPT-M | 3/8" NPT-M | 190° F | 1/4" | 0.3 lbs. |
| 100828 | 1.8 mm | 2.0 to 3.0 GPM | 4500 PSI | 3/8" NPT-M | 3/8" NPT-M | 190° F | 1/4" | 0.3 lbs. |
| 100829 | 2.1 mm | 3.0 to 5.0 GPM | 4500 PSI | 3/8" NPT-M | 3/8" NPT-M | 190° F | 1/4" | 0.3 lbs. |
| 100830 | 2.3 mm | 5.0 to 8.0 GPM | 4500 PSI | 3/8" NPT-M | 3/8" NPT-M | 190° F | 1/4" | 0.3 lbs. |

Quick Connect Adjustable Chemical Injectors - Brass

Product Group: L



| | ORIFICE | GPM | MAX | INLET | OUTLET | MAX TEMP | HOSE BARB | SHW WGHT |
|--------|---------|----------------|----------|----------------|----------------|----------|-----------|----------|
| 100575 | 1.8 mm | 2.0 to 3.0 GPM | 3500 PSI | 3/8" M Plug | 3/8" F Coupler | 190° F | 1/4" | 0.4 lbs. |
| 100576 | 2.1 mm | 3.0 to 5.0 GPM | 3500 PSI | 3/8" M Plug | 3/8" F Coupler | 190° F | 1/4" | 0.4 lbs. |
| 100577 | 2.3 mm | 5.0 to 8.0 GPM | 3500 PSI | 3/8" M Plug | 3/8" F Coupler | 190° F | 1/4" | 0.4 lbs. |
| 100617 | 1.8 mm | 2.0 to 3.0 GPM | 3500 PSI | 3/8" F Coupler | 3/8" M Plug | 190° F | 1/4" | 0.4 lbs. |
| 100618 | 2.1 mm | 3.0 to 5.0 GPM | 3500 PSI | 3/8" F Coupler | 3/8" M Plug | 190° F | 1/4" | 0.4 lbs. |
| 100619 | 2.3 mm | 5.0 to 8.0 GPM | 3500 PSI | 3/8" F Coupler | 3/8" M Plug | 190° F | 1/4" | 0.4 lbs. |

Quick Connect Adjustable Chemical Injectors - Stainless Steel Plug

Product Group: L

| | ORIFICE | GPM | MAX | INLET | OUTLET | MAX TEMP | HOSE BARB | SHP WGHT |
|--------|---------|----------------|----------|----------------|-------------|----------|-----------|----------|
| 100633 | 1.8 mm | 2.0 to 3.0 GPM | 3500 PSI | 3/8" F Coupler | 3/8" M Plug | 190° F | 1/4" | 0.4 lbs. |
| 100634 | 2.1 mm | 3.0 to 5.0 GPM | 3500 PSI | 3/8" F Coupler | 3/8" M Plug | 190° F | 1/4" | 0.4 lbs. |
| 100635 | 2.3 mm | 5.0 to 8.0 GPM | 3500 PSI | 3/8" F Coupler | 3/8" M Plug | 190° F | 1/4" | 0.4 lbs. |



| | ORIFICE | GPM | MAX | INLET | OUTLET | MAX TEMP | HOSE BARB | SHP WGHT |
|--------|---------|----------------|----------|-------------|----------------|----------|-----------|----------|
| 100653 | 1.8 mm | 2.0 to 3.0 GPM | 3500 PSI | 3/8" M Plug | 3/8" F Coupler | 190° F | 1/4" | 0.4 lbs. |
| 100654 | 2.1 mm | 3.0 to 5.0 GPM | 3500 PSI | 3/8" M Plug | 3/8" F Coupler | 190° F | 1/4" | 0.4 lbs. |
| 100655 | 2.3 mm | 5.0 to 8.0 GPM | 3500 PSI | 3/8" M Plug | 3/8" F Coupler | 190° F | 1/4" | 0.4 lbs. |



Quick Connect Adjustable Chemical Injectors – Stainless Steel Plug and Collar

Product Group: L

| | ORIFICE | GPM | MAX | INLET | OUTLET | MAX TEMP | HOSE BARB | SHP WGHT |
|--------|---------|----------------|----------|-------------|----------------|----------|-----------|----------|
| 100763 | 1.8 mm | 2.0 to 3.0 GPM | 4500 PSI | 3/8" M Plug | 3/8" F Coupler | 190° F | 1/4" | 0.4 lbs. |
| 100764 | 2.1 mm | 3.0 to 5.0 GPM | 4500 PSI | 3/8" M Plug | 3/8" F Coupler | 190° F | 1/4" | 0.4 lbs. |
| 100765 | 2.3 mm | 5.0 to 8.0 GPM | 4500 PSI | 3/8" M Plug | 3/8" F Coupler | 190° F | 1/4" | 0.4 lbs. |



Adjustable Chemical Injector Assembly with Hose and Filter

Product Group: L

| | DESCRIPTION | SHP WGHT |
|--------|---|----------|
| 100667 | 100634 Injector with YF00 Filter and Hose | 0.5 lbs. |
| 100766 | 100763 Injector with YF00 Filter and Hose | 0.5 lbs. |
| 100767 | 100764 Injector with YF00 Filter and Hose | 0.5 lbs. |
| 100768 | 100765 Injector with YF00 Filter and Hose | 0.5 lbs. |



Fixed Injector Assembly with Hose and Filter

Product Group: L

| | DESCRIPTION | SHP WGHT |
|--------|---|----------|
| 100668 | 100631 Injector with YF00 Filter and Hose | 0.5 lbs. |



Standard Fixed Chemical Injector

Product Group: L

| | ORIFICE | GPM | MAX | INLET/OUTLET | MAX TEMP | HOSE BARB | SHW WGHT |
|--------|---------|----------------|----------|--------------|----------|-----------|----------|
| 100819 | 1.5 mm | 1.0 to 2.0 GPM | 4250 PSI | 3/8" NPT-M | 190° F | 1/4" | 0.3 lbs. |
| 100820 | 1.8 mm | 2.0 to 3.0 GPM | 4250 PSI | 3/8" NPT-M | 190° F | 1/4" | 0.3 lbs. |
| 100821 | 2.1 mm | 3.0 to 5.0 GPM | 4250 PSI | 3/8" NPT-M | 190° F | 1/4" | 0.3 lbs. |
| 100822 | 2.3 mm | 5.0 to 8.0 GPM | 4250 PSI | 3/8" NPT-M | 190° F | 1/4" | 0.3 lbs. |



Heat

Fixed Chemical Injectors - Stainless Steel

Product Group: L

| | ORIFICE | GPM | RATED | INLET | OUTLET | MAX TEMP | HOSE BARB | SHW WGHT |
|--------|---------|----------------|----------|------------|------------|----------|-----------|----------|
| 100873 | 1.8 mm | 2.0 to 3.0 GPM | 5500 PSI | 3/8" NPT-M | 3/8" NPT-M | 190° F | 1/4" | 0.4 lbs. |
| 100874 | 2.1 mm | 3.0 to 5.0 GPM | 5500 PSI | 3/8" NPT-M | 3/8" NPT-M | 190° F | 1/4" | 0.4 lbs. |
| 100875 | 2.3 mm | 5.0 to 8.0 GPM | 5500 PSI | 3/8" NPT-M | 3/8" NPT-M | 190° F | 1/4" | 0.4 lbs. |




| | ORIFICE | GPM | MAX | INLET | OUTLET | MAX TEMP | HOSE BARB | SHW WGHT |
|--------|---------|----------------|----------|------------|------------|----------|-----------|----------|
| 100336 | 1.44 mm | 1.0 to 2.0 GPM | 5500 PSI | 3/8" NPT-M | 3/8" NPT-M | 190° F | 1/4" | 0.4 lbs. |
| 100835 | 1.8 mm | 2.0 to 3.0 GPM | 5500 PSI | 3/8" NPT-M | 3/8" NPT-M | 190° F | 1/4" | 0.4 lbs. |
| 100334 | 2.1 mm | 2.0 to 4.0 GPM | 5500 PSI | 3/8" NPT-M | 3/8" NPT-M | 190° F | 1/4" | 0.4 lbs. |
| 100333 | 2.2 mm | 3.0 to 5.0 GPM | 5500 PSI | 3/8" NPT-M | 3/8" NPT-M | 190° F | 1/4" | 0.4 lbs. |
| 100339 | 2.5 mm | 5.0 to 8.0 GPM | 5500 PSI | 3/8" NPT-M | 3/8" NPT-M | 190° F | 1/4" | 0.4 lbs. |



High Draw Fixed Chemical Injectors

Product Group: L

 Chemical draw up to 20%

| | ORIFICE | GPM | MAX | INLET | OUTLET | MAX TEMP | HOSE BARB | SHW WGHT |
|--------|---------|----------------|----------|------------|------------|----------|-----------|----------|
| 100773 | 1.5 mm | 1.0 to 2.0 GPM | 4500 PSI | 3/8" NPT-M | 3/8" NPT-M | 190° F | 1/4" | 0.3 lbs. |
| 100774 | 1.8 mm | 2.0 to 3.0 GPM | 4500 PSI | 3/8" NPT-M | 3/8" NPT-M | 190° F | 1/4" | 0.3 lbs. |
| 100775 | 2.1 mm | 3.0 to 5.0 GPM | 4500 PSI | 3/8" NPT-M | 3/8" NPT-M | 190° F | 1/4" | 0.3 lbs. |
| 100776 | 2.3 mm | 5.0 to 8.0 GPM | 4500 PSI | 3/8" NPT-M | 3/8" NPT-M | 190° F | 1/4" | 0.3 lbs. |

Quick Connect Fixed Chemical Injectors - Brass

Product Group: L

| | ORIFICE | GPM | MAX | INLET | OUTLET | MAX TEMP | HOSE BARB | SHP WGHT |
|--------|---------|----------------|----------|----------------|----------------|----------|-----------|----------|
| 100570 | 1.8 mm | 2.0 to 3.0 GPM | 3500 PSI | 3/8" M Plug | 3/8" F Coupler | 190° F | 1/4" | 0.4 lbs. |
| 100571 | 2.1 mm | 3.0 to 5.0 GPM | 3500 PSI | 3/8" M Plug | 3/8" F Coupler | 190° F | 1/4" | 0.4 lbs. |
| 100572 | 2.3 mm | 5.0 to 8.0 GPM | 3500 PSI | 3/8" M Plug | 3/8" F Coupler | 190° F | 1/4" | 0.4 lbs. |
| 100594 | 1.8 mm | 2.0 to 3.0 GPM | 3500 PSI | 3/8" F Coupler | 3/8" M Plug | 190° F | 1/4" | 0.4 lbs. |
| 100595 | 2.1 mm | 3.0 to 5.0 GPM | 3500 PSI | 3/8" F Coupler | 3/8" M Plug | 190° F | 1/4" | 0.4 lbs. |
| 100616 | 2.3 mm | 5.0 to 8.0 GPM | 3500 PSI | 3/8" F Coupler | 3/8" M Plug | 190° F | 1/4" | 0.4 lbs. |



Quick Connect Fixed Chemical Injectors with Stainless Steel Plug

Product Group: L

| | ORIFICE | GPM | MAX | INLET | OUTLET | MAX TEMP | HOSE BARB | SHP WGHT |
|--------|---------|----------------|----------|----------------|-------------|----------|-----------|----------|
| 100690 | 1.5 mm | 1.0 to 2.0 GPM | 3500 PSI | 3/8" F Coupler | 3/8" M Plug | 190° F | 1/4" | 0.4 lbs. |
| 100630 | 1.8 mm | 2.0 to 3.0 GPM | 3500 PSI | 3/8" F Coupler | 3/8" M Plug | 190° F | 1/4" | 0.4 lbs. |
| 100631 | 2.1 mm | 3.0 to 5.0 GPM | 3500 PSI | 3/8" F Coupler | 3/8" M Plug | 190° F | 1/4" | 0.4 lbs. |
| 100632 | 2.3 mm | 5.0 to 8.0 GPM | 3500 PSI | 3/8" F Coupler | 3/8" M Plug | 190° F | 1/4" | 0.4 lbs. |



Quick Connect Fixed Chemical Injectors with Stainless Steel Plug

Product Group: L

| | ORIFICE | GPM | MAX | INLET | OUTLET | MAX TEMP | HOSE BARB | SHP WGHT |
|--------|---------|----------------|----------|-------------|----------------|----------|-----------|----------|
| 100636 | 1.8 mm | 2.0 to 3.0 GPM | 3500 PSI | 3/8" M Plug | 3/8" F Coupler | 190° F | 1/4" | 0.4 lbs. |
| 100637 | 2.1 mm | 3.0 to 5.0 GPM | 3500 PSI | 3/8" M Plug | 3/8" F Coupler | 190° F | 1/4" | 0.4 lbs. |
| 100638 | 2.3 mm | 5.0 to 8.0 GPM | 3500 PSI | 3/8" M Plug | 3/8" F Coupler | 190° F | 1/4" | 0.4 lbs. |



Dual Port Injector

Product Group: L

| | ORIFICE | GPM | MAX | INLET | OUTLET | MAX TEMP | HOSE BARB | SHP WGHT |
|--------|---------|----------------|----------|------------|------------|----------|-----------|----------|
| 100541 | 2.1 mm | 3.0 to 5.0 GPM | 5500 PSI | 3/8" NPT-M | 3/8" NPT-M | 190° F | 1/4" | 0.5 lbs. |



Chemical Valves

Product Group: T

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





Zinc-Coated Industrial Pump Fittings *Product Group: J*

| | |
|--------|-----------------------------|
| 680030 | 1/4" BSP-M x 1/4" NPT-M |
| 680099 | 3/8" BSP-M x 1" BSP-M |
| 680021 | 1/2" BSP-M x 1/4" NPT-F |
| 680100 | 1/2" BSP-M x 1/4" NPT-F |
| 680102 | 1/2" BSP-M x 1/2" BSP-M |
| 680103 | 1/2" BSP-M x 1" BSP-M |
| 680104 | 3/4" BSP-M x 3/4" BSP-M |
| 680058 | 3/4" BSP-M x 3/4" NPT-M |
| 680065 | 3/4" BSP-M x 3/4" NPT-F |
| 680105 | 3/4" BSP-M x 1" BSP-M |
| 680106 | 1" BSP-M x 1" BSP-M |
| 680066 | 1" BSP-M x 1" NPT-M |
| 680056 | 1" BSP-M x 1" NPT-F |
| 680107 | 1 1/4" BSP-M x 1 1/4" BSP-M |
| 680067 | 1 1/4" BSP-M x 1 1/4" NPT-M |
| 680057 | 1 1/4" BSP-M x 1 1/4" NPT-F |
| 680108 | 1 1/4" BSP-M x 1 1/2" BSP-M |

Zinc-Coated Steel Seal Rings *Product Group: J*

| | |
|--------|------------|
| 680109 | 1/4" BSP |
| 680110 | 1/2" BSP |
| 680111 | 3/4" BSP |
| 680112 | 1" BSP |
| 680113 | 1 1/4" BSP |
| 680114 | 1 1/2" BSP |

Zinc-Coated Steel Plugs *Product Group: J*

| | |
|--------|--------------|
| 680115 | 1/4" BSP-M |
| 680116 | 3/8" BSP-M |
| 680117 | 1/2" BSP-M |
| 680122 | 1/2" NPT-M |
| 680118 | 3/4" BSP-M |
| 680119 | 1" BSP-M |
| 680120 | 1 1/4" BSP-M |
| 680121 | 1 1/2" BSP-M |



300 Series Stainless Steel Seal Rings *Product Group: J*

| | |
|--------|--|
| 680078 | 1/4" BSP |
| 680079 | 3/8" BSP |
| 680080 | 1/2" BSP |
| 680081 | 1/2" BSP (copper washer for VH discharge ports) |
| 680082 | 3/4" BSP |
| 680083 | 1" BSP |
| 680084 | 1 1/4" BSP |
| 680085 | 1 1/2" BSP |
| 680086 | Conical seat for VH discharge ports (4 included with pump) |



300 Series Stainless Steel Fittings *Product Group: J*

| | |
|--------|---|
| 680038 | 1/2" BSP-M x 1/2" BSP-F (Special VH adapter for discharge port) |
| 680075 | 3/4" BSP-M x 3/4" BSP-M |
| 680062 | 3/4" BSP-M x 3/4" NPT-M |
| 680059 | 3/4" BSP-M x 3/4" NPT-F |
| 520150 | 3/4" BSP-M x 3/4" BSP-M |
| 680076 | 3/4" BSP-M x 1" BSP-M |
| 520151 | 3/4" BSP-M x 3/4" BSP-F, 90° Degree |
| 680060 | 1" BSP-M x 1" NPT-F |
| 680063 | 1" BSP-M x 1" NPT-M |
| 680071 | 1 1/4" BSP-M x 1 1/4" BSP-M |
| 680061 | 1 1/4" BSP-M x 1 1/4" NPT-F |
| 680064 | 1 1/4" BSP-M x 1 1/4" NPT-M |
| 520146 | 1 1/2" BSP-M x 1 1/2" NPT-F |



INDUSTRIAL PUMP FITTINGS & ACCESSORIES

300 Series Stainless Steel Plugs, Hex

Product Group: J

| | |
|--------|--|
| 680087 | 1/4" BSP-M |
| 680088 | 1/2" BSP-M |
| 680089 | 1/2" BSP-M (Special VH plug for use with conical seat) |
| 680090 | 3/4" BSP-M |
| 680091 | 1" BSP-M |
| 680092 | 1 1/4" BSP-M |
| 680093 | 1 1/2" BSP-M |

Miscellaneous Accessories

Product Group: J

| | |
|--------|--|
| 680094 | Belt Tension Slide Plate, rated for 40 horsepower |
| 680095 | Priming/Drain valve kit for MS series pumps (includes 3 valves) |
| 680096 | Priming/Drain valve kit for LH/MH series pumps (includes 3 valves) |

Industrial Unloaders

Product Group: K

| | GPM | RATED | MAX | INLET | OUTLET | BYPASS | SHP WGHT |
|-----|----------|----------|----------|----------|------------|--------------|-------------|
| AL2 | 48.0 GPM | 2900 PSI | 2900 PSI | 1" BSP-F | 3/4" BSP-F | 1 1/2" BSP-M | 12.5 lbs. |

| | | | | | | | |
|-----|----------|----------|----------|----------|------------|--------------|-----------|
| VU2 | 48.0 GPM | 2900 PSI | 2900 PSI | 1" BSP-F | 3/4" BSP-F | 1 1/2" BSP-M | 12.5 lbs. |
|-----|----------|----------|----------|----------|------------|--------------|-----------|

| | GPM | MAX | INLET | OUTLET | BYPASS | SHP WGHT |
|----------|----------|----------|------------|------------|------------|-------------|
| YVB16 | 21.0 GPM | 8120 PSI | 1/2" BSP-F | 1/2" BSP-F | 1/2" BSP-F | 7.6 lbs. |
| YVB280SS | 21.0 GPM | 4500 PSI | 1/2" BSP-F | 1/2" BSP-F | 1/2" BSP-F | 2.7 lbs. |

Industrial Regulating Valves

Product Group: K

| | GPM | MAX | INLET | OUTLET | BYPASS | SHP WGHT |
|----------|-----------|-----------|--------------|------------|--------------|-------------|
| RV1/300 | 21.0 GPM | 4350 PSI | 3/4" BSP-F | N/A | 3/4" BSP-F | 9.5 lbs. |
| RV1/400 | 21.0 GPM | 5800 PSI | 3/4" BSP-F | N/A | 3/4" BSP-F | 9.5 lbs. |
| RV1/500 | 21.0 GPM | 7250 PSI | 3/4" BSP-F | N/A | 3/4" BSP-F | 9.5 lbs. |
| RV14/800 | 26.4 GPM | 11600 PSI | 3/4" BSP-F | Flanged | 1" BSP-F | 17.6 lbs. |
| RV1/100 | 32.0 GPM | 1450 PSI | 3/4" BSP-F | N/A | 3/4" BSP-F | 9.5 lbs. |
| RV1/200 | 32.0 GPM | 2900 PSI | 3/4" BSP-F | N/A | 3/4" BSP-F | 9.5 lbs. |
| RV2 | 48.0 GPM | 2900 PSI | 1" BSP-F | 3/4" BSP-F | 1 1/4" BSP-M | 10.0 lbs. |
| RV3 | 120.0 GPM | 4350 PSI | 1 1/4" BSP-F | N/A | 1 1/4" BSP-M | 12.7 lbs. |

1.125" I.D. Hose Barb

| | GPM | RATED | INLET | OUTLET | BYPASS | MAX TEMP | SHP WGHT | BOX QTY |
|---------|----------|---------|------------|------------|----------|-------------|-------------|------------|
| ZKTIMAX | 53.0 GPM | 870 PSI | 3/4" BSP-F | 1/2" BSP-F | 1" BSP-F | 165° F | 4.5 lbs. | 5 |



Stainless Steel Regulating Valves

Product Group: K

| | GPM | MAX | INLET | OUTLET | BYPASS | SHP WGHT |
|-----------|-----------|----------|------------|------------|----------------|-------------|
| ZK7216SS | 15.85 GPM | 7250 PSI | 1/2" BSP-F | 1/2" BSP-F | (2) 1/2" BSP-F | 5.9 lbs. |
| RX1/4350A | 21.0 GPM | 4350 PSI | 3/4" NPT-F | N/A | 3/4" NPT-F | 11.0 lbs. |
| YVB280SS | 21.0 GPM | 4500 PSI | 1/2" BSP-F | 1/2" BSP-F | 1/2" BSP-F | 2.7 lbs. |
| RX1/5800A | 21.0 GPM | 5800 PSI | 3/4" NPT-F | N/A | 3/4" NPT-F | 11.0 lbs. |
| RX1/7250A | 21.0 GPM | 7250 PSI | 3/4" NPT-F | N/A | 3/4" NPT-F | 11.0 lbs. |
| RX1/100 | 32.0 GPM | 1450 PSI | 3/4" BSP-F | N/A | 3/4" BSP-F | 11.0 lbs. |
| RX1/2900A | 32.0 GPM | 2900 PSI | 3/4" NPT-F | N/A | 3/4" NPT-F | 11.0 lbs. |
| RX3/200 | 120.0 GPM | 4350 PSI | 1" BSP-F | 3/4" BSP-F | 1 1/4" BSP-F | 11.0 lbs. |





Jetter Valve for use in Sewer Cleaning Applications

Product Group: D

| | DESCRIPTION | SHP WGHT |
|--------|---|----------|
| 100315 | Use with TT Pumps (Replaces Valve Cap) | 0.7 lbs. |
| 100316 | Use with EZ Pumps (Replaces Valve Cap) | 0.7 lbs. |
| 100317 | Use with 47 Series Pumps (Replaces Valve Cap) | 0.7 lbs. |



Industrial Safety Relief Valves

Product Group: K

| | GPM | MAX | INLET | DISCHARGE | SHP WGHT |
|-----------|-----------|-----------|------------|-----------|----------|
| SV12/1000 | 21.0 GPM | 14500 PSI | 1/2" BSP-M | Bottom | 2.5 lbs. |
| SV12/1100 | 21.0 GPM | 15950 PSI | 1/2" BSP-M | Bottom | 2.5 lbs. |
| SV2/100 | 42.0 GPM | 1450 PSI | 1/2" BSP-M | Bottom | 2.5 lbs. |
| SV2/200 | 42.0 GPM | 2900 PSI | 1/2" BSP-M | Bottom | 2.5 lbs. |
| SV2/300 | 42.0 GPM | 4350 PSI | 1/2" BSP-M | Bottom | 2.5 lbs. |
| SV2/400 | 42.0 GPM | 5800 PSI | 1/2" BSP-M | Bottom | 2.5 lbs. |
| SV2/500 | 42.0 GPM | 7250 PSI | 1/2" BSP-M | Bottom | 2.5 lbs. |
| SV3/200 | 110.0 GPM | 2900 PSI | 3/4" BSP-M | Bottom | 5.7 lbs. |
| SV3/300 | 110.0 GPM | 4350 PSI | 3/4" BSP-M | Bottom | 5.7 lbs. |

Stainless Steel

| | | | | | |
|---------|----------|----------|------------|--------|----------|
| SX2/100 | 42.0 GPM | 1450 PSI | 1/2" BSP-M | Bottom | 2.5 lbs. |
| SX2/200 | 42.0 GPM | 2900 PSI | 1/2" BSP-M | Bottom | 2.5 lbs. |
| SX2/300 | 42.0 GPM | 4350 PSI | 1/2" BSP-M | Bottom | 2.5 lbs. |
| SX2/400 | 42.0 GPM | 5800 PSI | 1/2" BSP-M | Bottom | 2.5 lbs. |
| SX2/500 | 42.0 GPM | 7250 PSI | 1/2" BSP-M | Bottom | 2.5 lbs. |



Industrial Valves

Product Group: K

 Check Valve for EK, HD & KL Pumps

| | GPM | RATED | MAX | INLET | OUTLET | SHP WGHT |
|-----|----------|--------|----------|------------|------------|----------|
| UD1 | 21.0 GPM | 75 PSI | 3650 PSI | 3/4" BSP-M | 3/4" BSP-F | 1.5 lbs. |



Industrial Pneumatic Valves

Product Group: K

| | GPM | MAX | INLET | OUTLET | BYPASS | SHP WGHT |
|----------|-----------|-----------|--------------|--------------|--------------|-----------|
| FPN12 | 21.0 GPM | 17400 PSI | 3/8" BSP-F | 3/8" BSP-F | 3/8" BSP-F | 55.3 lbs. |
| PN/RV2 | 48.0 GPM | 2900 PSI | 1" BSP-F | 3/4" BSP-F | 1 1/4" BSP-M | 17.5 lbs. |
| PN3/300 | 53.0 GPM | 4350 PSI | 1 1/2" BSP-F | 1 1/2" BSP-M | 1 1/2" BSP-M | 55.0 lbs. |
| PN3/240 | 80.0 GPM | 3500 PSI | 1 1/2" BSP-F | 1 1/2" BSP-M | 1 1/2" BSP-M | 55.0 lbs. |
| FPN3/160 | 120.0 GPM | 2350 PSI | 1 1/2" BSP-F | 1 1/2" BSP-F | 1 1/2" BSP-F | 55.3 lbs. |
| PN3/160 | 120.0 GPM | 2350 PSI | 1 1/2" BSP-F | 1 1/2" BSP-M | 1 1/2" BSP-M | 55.0 lbs. |



INDUSTRIAL PUMP FITTINGS & ACCESSORIES

Industrial Foot Valve

Product Group: K

| | GPM | MAX | INLET | OUTLET | BYPASS | SHP WGHT |
|------|----------|-----------|------------|------------|------------|-----------|
| VP12 | 21.0 GPM | 21750 PSI | 3/8" BSP-F | 3/8" BSP-F | 3/8" BSP-F | 22.5 lbs. |



Industrial Pulsation Dampeners

Product Group: K

| | MATERIAL | GPM | RATED | INLET | SHP WGHT |
|-----|-----------------|---------------|----------|------------|-----------|
| A4X | Stainless Steel | 16 GPM | 3050 PSI | 1/2" BSP-M | 7.0 lbs. |
| A7 | Forged Steel | 43 GPM | 3050 PSI | 1/2" BSP-M | 7.0 lbs. |
| A7S | Forged Steel | 43 GPM | 4750 PSI | 3/4" BSP-M | 12.0 lbs. |
| A7X | Stainless Steel | 43 GPM | 2150 PSI | 3/4" BSP-M | 8.5 lbs. |
| A15 | Forged Steel | 39 to 195 GPM | 4750 PSI | 3/4" BSP-M | 15.0 lbs. |



Industrial Spray Gun

Product Group: K

New!

| | DESCRIPTION | GPM | MAX | SHP WGHT |
|------------|--|-----------|----------|----------|
| ZP72SS | SS Professional Gun | 15.85 GPM | 7250 PSI | 3.5 lbs. |
| ZP72SSL19 | SS Gun with 19" Lance | 15.85 GPM | 7250 PSI | 4.9 lbs. |
| ZP72SSL39 | SS Gun with 39" Lance | 15.85 GPM | 7250 PSI | 6.1 lbs. |
| ZP72SSL19S | SS Gun with 19" Lance and Shoulder Support | 15.85 GPM | 7250 PSI | 5.6 lbs. |
| ZP72SSL39S | SS Gun with 39" Lance and Shoulder Support | 15.85 GPM | 7250 PSI | 7.2 lbs. |



| | DESCRIPTION | GPM | MAX | INLET | OUTLET | SHP WGHT |
|--------|----------------------|----------|-----------|------------|------------|-----------|
| P12 | Dump Gun | 21.0 GPM | 21750 PSI | 1/2" BSP-M | 1/4" BSP-M | 12.0 lbs. |
| P45 | Gun with 20" Lance | 21.0 GPM | 7250 PSI | 1/2" BSP-F | 1/4" BSP-F | 5.0 lbs. |
| P47 | Gun with 39" Lance | 21.0 GPM | 7250 PSI | 1/2" BSP-F | 1/4" BSP-F | 10.0 lbs. |
| PS12 | Submersible Dump Gun | 21.0 GPM | 21750 PSI | 1/2" BSP-F | 1/4" BSP-F | 12.5 lbs. |
| YG6000 | Rear Entry Gun | 21.0 GPM | 8100 PSI | 1/2" BSP-F | 1/2" BSP-F | 5.0 lbs. |



Spray Gun with Lance and Side Grip

Product Group: K

| | DESCRIPTION | GPM | RATED | MAX | INLET | OUTLET | MAX TEMP | SHP WGHT |
|------------|-------------|----------|----------|----------|------------|------------|----------|----------|
| YG6000/L31 | 31" Lance | 21.0 GPM | 7250 PSI | 8100 PSI | 1/2" BSP-F | 1/2" BSP-M | 210° F | 7.0 lbs. |
| YG6000/L51 | 48" Lance | 21.0 GPM | 7250 PSI | 8100 PSI | 1/2" BSP-F | 1/2" BSP-M | 210° F | 7.0 lbs. |



Industrial Filters

Product Group: K

| | DESCRIPTION | GPM | MESH/ MICRON | INLET | OUTLET | SHP WGHT |
|---------|----------------------------|-----------|------------------|--------------|--------------|-----------|
| F50/F80 | Stainless Steel, Two-Stage | 10.5 GPM | 10/70 Micron | 1" BSP-F | 1" BSP-F | 12.0 lbs. |
| F10 | Aluminum | 15.8 GPM | 60/80 Mesh | 1 1/2" BSP-F | 1 1/2" BSP-F | 3.5 lbs. |
| F60 | Stainless Steel | 52.0 GPM | 15 to 100 Micron | 2" BSP-F | 2" BSP-M | 33.0 lbs. |
| F20 | Aluminum | 53.0 GPM | 60/80/110 Mesh | 2" BSP-F | 2" BSP-F | 13.0 lbs. |
| F30 | Plastic | 53.0 GPM | 50/100 Mesh | 2" BSP-M | 2" BSP-M | 3.8 lbs. |
| F40 | Plastic | 120.0 GPM | 50/100 Mesh | 3" BSP-M | 3" BSP-M | 6.6 lbs. |

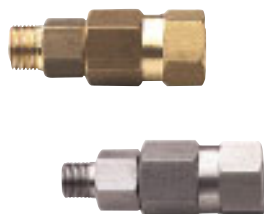


VEHICLE CLEANING ACCESSORIES



Swivels

Product Group: H



| | DESCRIPTION | GPM | RATED | MAX | INLET | OUTLET | MAX TEMP | SHW WT |
|-----------|--------------------------|----------|----------|----------|------------|------------|----------|----------|
| SW38MFN | NickelPlated Brass | 10.5 GPM | 1500 PSI | 3000 PSI | 3/8" NPT-M | 3/8" NPT-F | 200° F | 0.4 lbs. |
| SW14MFN | NickelPlated Brass | 10.5 GPM | 1500 PSI | 3000 PSI | 1/4" NPT-M | 1/4" NPT-F | 200° F | 0.4 lbs. |
| SW38FM90N | NickelPlated Brass | 10.5 GPM | 1500 PSI | 3000 PSI | 3/8" NPT-M | 3/8" NPT-F | 200° F | 0.4 lbs. |
| YSW38MFB | Light Resistance, Brass | 8.0 GPM | 3200 PSI | 3650 PSI | 3/8" BSP-M | 3/8" BSP-F | 320° F | 0.3 lbs. |
| YSW14MFSS | Medium Resistance, SS | 10.5 GPM | 5100 PSI | 5650 PSI | 3/8" BSP-M | 3/8" BSP-F | 320° F | 0.3 lbs. |
| YSW38MFSS | Medium Resistance, SS | 10.5 GPM | 5100 PSI | 5650 PSI | 1/4" BSP-M | 1/4" BSP-F | 320° F | 0.3 lbs. |
| YSW14MFB | Medium Resistance, Brass | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" BSP-M | 1/4" BSP-F | 320° F | 0.3 lbs. |

Squeegees

Product Group: I



DESCRIPTION

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

Nozzle Packs

Product Group: I



| | DESCRIPTION | SHW WT |
|--------|---|----------|
| 105140 | Nozzle Kit for Laser Wash 4000, contains all nozzles for arch | 0.5 lbs. |
| 105144 | Nozzle Kit for D & S 5000 – Gantry | 0.5 lbs. |
| 105145 | Nozzle Kit for D & S 5000 – Blaster | 0.5 lbs. |
| 105154 | Nozzle Kit for SSA Futura, 30 – 1/8" NPT Nozzles | 3.0 lbs. |
| 105162 | Nozzle Kit for Oasis, Front Bridge of 8530 Windcar, 14 Nozzles | 1.4 lbs. |
| 105163 | Nozzle Kit for Oasis, Main Bridge 8530 Windcar, 18 Nozzles | 1.8 lbs. |
| 105164 | Nozzle Kit for Oasis, Front Bridge 8530 Windvan, 16 Nozzles | 1.6 lbs. |
| 105165 | Nozzle Kit for Oasis, Main Bridge 8530 Windvan, 20 Nozzles | 2.0 lbs. |
| 105166 | Nozzle Kit for Oasis 8530 Oscillating Windcar/Windvan, 12 Nozzles | 1.2 lbs. |
| 105167 | Nozzle Kit for Oasis 9120 Windvan, 24 Nozzles | 2.4 lbs. |
| 105168 | Nozzle Kit for Oasis Undercarriage, 27 Nozzles | 2.7 lbs. |
| 105169 | Nozzle Kit for Oasis Rocker Panel Sprayers, 10 Nozzles | 1.0 lbs. |

105162, 105163, 105166 will replace all nozzles on Windcar unit
105164, 105165, 105166 will replace all nozzles on Windvan unit

QR-2000 Regulators

Product Group: S



| | DESCRIPTION | GPM | RATED | INLET | OUTLET | MAX TEMP | SHW WT |
|--------|---------------|---------|----------|------------|------------|----------|----------|
| 100878 | Brass | 5.0 GPM | 2000 PSI | 3/8" NPT-F | 1/8" NPT-F | 190° F | 1.3 lbs. |
| 100892 | Nickel Plated | 5.0 GPM | 2000 PSI | 3/8" NPT-F | 1/8" NPT-F | 220° F | 1.4 lbs. |

Balanced Relief Valves

Product Group: T



| | GRM | RATED | MAX | INLET | BYPASS | MAX TEMP | SHW WT |
|----------|----------|----------|----------|----------------|------------|----------|----------|
| YBRV624 | 6.3 GPM | 2200 PSI | 2450 PSI | 3/8" BSP-F | 3/8" BSP-F | 195° F | 0.8 lbs. |
| YBRV624D | 6.3 GPM | 2200 PSI | 2450 PSI | (2) 3/8" BSP-F | 3/8" BSP-F | 195° F | 1.0 lbs. |
| YBRV5325 | 53.0 GPM | 2600 PSI | 2900 PSI | 3/4" BSP-F | 1/2" BSP-F | 195° F | 2.0 lbs. |
| 100268 | 6.3 GPM | 300 PSI | N/A | (2) 3/8" BSP-F | 3/8" BSP-F | 195° F | 1.0 lbs. |
| 100269 | 6.3 GPM | 300 PSI | N/A | 3/8" BSP-F | 3/8" BSP-F | 195° F | 0.8 lbs. |



VEHICLE CLEANING ACCESSORIES

Unloaders

Product Group: S

| | GPM | RATED | MAX | INLET | OUTLET | BYPASS | MAX TEMP | SHP WGHT |
|--------|----------|----------|----------|----------------|------------|----------------|----------|----------|
| YU831 | 8.0 GPM | 3200 PSI | 3650 PSI | 3/8" NPT-F | 3/8" NPT-F | 3/8" NPT-F | 195° F | 1.4 lbs. |
| YU831D | 8.0 GPM | 3200 PSI | 3650 PSI | (2) 3/8" NPT-F | 3/8" NPT-F | (2) 3/8" NPT-F | 195° F | 1.5 lbs. |
| YU2121 | 21.0 GPM | 2200 PSI | 2450 PSI | (2) 1/2" NPT-F | 1/2" NPT-F | (2) 1/2" NPT-F | 200° F | 3.1 lbs. |
| YU5221 | 53.0 GPM | 2200 PSI | 2450 PSI | 1" NPT-F | 1" NPT-F | 1" NPT-F | 200° F | 4.5 lbs. |

Check Valves

Product Group: T

| | DESCRIPTION | GPM | RATED | MAX | INLET | MAX TEMP | SHP WGHT |
|----------|-----------------|----------|----------|----------|------------|----------|----------|
| YCV14FSS | Stainless Steel | 6.5 GPM | 5800 PSI | 6500 PSI | 1/4" BSP-F | 195° F | 0.5 lbs. |
| YCV38FSS | Stainless Steel | 10.5 GPM | 5800 PSI | 6500 PSI | 3/8" BSP-F | 195° F | 0.5 lbs. |
| YCV12FB | Brass | 21.0 GPM | 2200 PSI | 2300 PSI | 1/2" BSP-F | 195° F | 0.5 lbs. |
| YCV12FSS | Stainless Steel | 21.0 GPM | 5800 PSI | 6500 PSI | 1/2" BSP-F | 195° F | 0.5 lbs. |

Accumulators

Product Group: K

| | DESCRIPTION | GPM | RATED | INLET | SHP WGHT |
|--------|------------------|----------|----------|------------|----------|
| 686011 | Non-Rechargeable | 10.0 GPM | 3000 PSI | 1/2" NPT-M | 2.5 lbs. |
| 686010 | Rechargeable | 40.0 GPM | 3000 PSI | 1" NPT-M | 7.0 lbs. |
| 686028 | Rechargeable | 10.0 GPM | 3000 PSI | 1/2" NPT-M | 2.5 lbs. |

Rear Entry Spray Guns

Product Group: I

| | DESCRIPTION | GPM | RATED | MAX | INLET | OUTLET | MAX TEMP | SHP WGHT |
|---------|-------------|----------|----------|----------|------------|------------|----------|----------|
| YG3200 | | 6.3 GPM | 2900 PSI | 3200 PSI | 3/8" NPT-F | 1/4" NPT-F | 320° F | 0.8 lbs. |
| YG3200W | Weep Seat | 6.3 GPM | 2900 PSI | 3200 PSI | 3/8" NPT-F | 1/4" NPT-F | 320° F | 0.8 lbs. |
| YG4000 | | 10.0 GPM | 4500 PSI | 5000 PSI | 3/8" NPT-F | 1/4" NPT-F | 320° F | 1.8 lbs. |
| YG4000W | Weep Seat | 10.5 GPM | 3650 PSI | 4050 PSI | 3/8" NPT-F | 1/4" NPT-F | 320° F | 1.8 lbs. |
| YG5000 | | 10.0 GPM | 5000 PSI | 5000 PSI | 3/8" NPT-F | 1/4" NPT-F | 320° F | 1.2 lbs. |
| YG5000W | Weep Seat | 10.0 GPM | 5000 PSI | 5000 PSI | 3/8" NPT-F | 1/4" NPT-F | 320° F | 1.2 lbs. |

Insulated Lances

Product Group: I

| | LENGTH | GPM | RATED | MAX | INLET | OUTLET | MAX TEMP | SHP WGHT |
|---------|--------------|----------|----------|----------|------------|------------|----------|----------|
| YL20PNS | 20' Straight | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-F | 320° F | 1.1 lbs. |
| YL24PNS | 24' Straight | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-F | 320° F | 1.3 lbs. |
| YL27PNS | 27' Straight | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-F | 320° F | 1.4 lbs. |
| YL20PNB | 20' Bend | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-F | 320° F | 1.1 lbs. |
| YL24PNB | 24' Bend | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-F | 320° F | 1.3 lbs. |
| YL27PNB | 27' Bend | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-F | 320° F | 1.4 lbs. |

Reedless Flow Switch

Product Group: D

TMT Inline Flowswitch, 5 amp micro switch, minimum flow 0.5 GPM, activation, 48" 18 awg lead, no spring, uses magnets for all movements.

| | GPM | MAX | MAX TEMP | INTLET | OUTLET | VOLTAGE | SHP WGHT |
|--------|---------|----------|----------|------------|------------|---------|----------|
| 100809 | 8.0 GPM | 5000 PSI | 180° F | 3/8" NPT-F | 3/8" NPT-F | 250 VAC | 0.3 lbs. |





Front Entry Spray Gun

Product Group: I

| | GPM | RATED | MAX | INLET | OUTLET | MAX TEMP | SHW |
|-------|----------|----------|----------|------------|------------|----------|----------|
| ZGPIM | 10.5 GPM | 3000 PSI | 3000 PSI | 1/4" BSP-M | 1/4" BSP-F | 284° F | 2.0 lbs. |
| YRL20 | 8.0 GPM | 2900 PSI | 3200 PSI | 3/8" BSP-F | 1/4" BSP-F | 320° F | 0.8 lbs. |
| ZGP11 | 10.5 GPM | 3000 PSI | 3000 PSI | 3/8" BSP-F | 1/4" BSP-F | 285° F | 1.2 lbs. |



Rear Entry Spray Gun

Product Group: I

| | DESCRIPTION | GPM | RATED | MAX | INLET | OUTLET | MAX. TEMP | SHW | BOX QTY |
|---------|-------------|----------|----------|----------|------------|------------|-----------|----------|---------|
| YG4000S | Straight | 10.5 GPM | 3650 PSI | 4050 PSI | 3/8" NPT-F | 1/4" NPT-F | 300° F | 1.2 lbs. | 20 |
| YG3200 | | 6.3 GPM | 2900 PSI | 3200 PSI | 3/8" NPT-F | 1/4" NPT-F | 320° F | 0.8 lbs. | 20 |
| YG3200W | Weep Seat | 6.3 GPM | 2900 PSI | 3200 PSI | 3/8" NPT-F | 1/4" NPT-F | 320° F | 0.8 lbs. | 20 |
| YG3600 | | 9.0 GPM | 3200 PSI | 3650 PSI | 3/8" NPT-F | 1/4" NPT-F | 320° F | 1.2 lbs. | 15 |
| YG3600W | Weep Seat | 9.0 GPM | 3200 PSI | 3650 PSI | 3/8" NPT-F | 1/4" NPT-F | 160° F | 1.2 lbs. | 15 |



| | | | | | | | | | |
|---------|-----------|----------|----------|----------|------------|------------|--------|----------|----|
| YG5000 | | 10.0 GPM | 5000 PSI | 5000 PSI | 3/8" NPT-F | 1/4" NPT-F | 320° F | 1.2 lbs. | 20 |
| YG5000W | Weep Seat | 10.0 GPM | 5000 PSI | 5000 PSI | 3/8" NPT-F | 1/4" NPT-F | 320° F | 1.2 lbs. | 20 |



| | | | | | | | | | |
|---------|-----------|----------|----------|----------|------------|------------|--------|----------|----|
| YG4000 | | 10.0 GPM | 4500 PSI | 5000 PSI | 3/8" NPT-F | 1/4" NPT-F | 320° F | 1.8 lbs. | 40 |
| YG4000W | Weep Seat | 10.5 GPM | 3650 PSI | 4050 PSI | 3/8" NPT-F | 1/4" NPT-F | 320° F | 1.8 lbs. | 40 |



| | | | | | | | | | |
|-------|--------------|----------|----------|----------|------------|------------|--------|----------|---|
| YRL50 | Compensating | 13.2 GPM | 3650 PSI | 4050 PSI | 3/8" BSP-F | 1/4" BSP-F | 320° F | 1.5 lbs. | 8 |
|-------|--------------|----------|----------|----------|------------|------------|--------|----------|---|



| | | | | | | | | | |
|-------|--------------|---------|----------|----------|------------|------------|--------|----------|---|
| YRL55 | Compensating | 8.0 GPM | 5100 PSI | 5650 PSI | 3/8" BSP-F | 1/4" BSP-F | 320° F | 1.5 lbs. | 8 |
|-------|--------------|---------|----------|----------|------------|------------|--------|----------|---|



High Flow Rear Entry Wash Down Gun

Product Group: I

| | | | | | | | | | |
|-------|--|----------|---------|---------|------------|------------|--------|----------|----|
| YRL60 | | 16.0 GPM | 870 PSI | 950 PSI | 1/2" BSP-F | 1/2" BSP-F | 210° F | 2.0 lbs. | 10 |
|-------|--|----------|---------|---------|------------|------------|--------|----------|----|



GUNS & LANCES

Rear Entry Spray Gun - Stainless Steel

Product Group: I

| | DESCRIPTION | GPM | RATED | MAX | INLET | OUTLET | MAX TEMP | SHW WT | BOX QTY |
|----------|--------------|----------|----------|----------|------------|------------|----------|----------|---------|
| YG4060SS | | 10.5 GPM | 3650 PSI | 4050 PSI | 3/8" NPT-F | 1/4" NPT-F | 320° F | 2.0 lbs. | 2 |
| YRL100 | Cartridge | 26.5 GPM | 1450 PSI | 1800 PSI | 1/2" BSP-F | 1/2" BSP-F | 320° F | 4.0 lbs. | 20 |
| YG2900 | Cartridge | 42.0 GPM | 2900 PSI | 3190 PSI | 1/2" BSP-F | 1/2" BSP-F | 210° F | 5.0 lbs. | 10 |
| YG5200 | Compensating | 10.5 GPM | 5800 PSI | 6400 PSI | 3/8" NPT-F | 1/4" NPT-F | 320° F | 2.0 lbs. | 20 |



Spray Gun with Lance

Product Group: I

| | DESCRIPTION | GPM | RATED | MAX | INLET | OUTLET | MAX TEMP | SHW WT |
|-----------|--|----------|----------|----------|------------|------------|----------|----------|
| YRL55L | 47" Lance | 7.8 GPM | 5100 PSI | 5650 PSI | 3/8" BSP-F | 1/4" BSP-F | 320° F | 3.3 lbs. |
| YG3000DS | 16" Lance | 10.5 GPM | 2750 PSI | 3050 PSI | 3/8" NPT-F | 1/8" NPT-F | 140° F | 2.5 lbs. |
| YG3000D | 40" Lance | 10.5 GPM | 2750 PSI | 3050 PSI | 3/8" NPT-F | 1/8" NPT-F | 140° F | 3.0 lbs. |
| Y30256717 | YG5000 assembled with 36" S3 Lance and 1/4" Quick Disconnect | | | | | | | 3.0 lbs. |
| 100751 | YG5000 assembled with 18" lance and 1/4" Quick Disconnect | | | | | | | 2.5 lbs. |





Stainless Steel Lance

Product Group: I

| | LENGTH | GPM | RATED | MAX | INLET | OUTLET | SHP WGHT | BOX QTY |
|--------|--------|----------|----------|----------|------------|------------|----------|---------|
| YL8SS | 8" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-F | 0.5 lbs. | 200 |
| YL31SS | 31" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-F | 0.7 lbs. | 100 |
| YL40SS | 40" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-F | 1.0 lbs. | 100 |
| YL72SS | 72" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-F | 1.8 lbs. | 50 |



Straight-Insulated Lance

Product Group: I

| | LENGTH | GPM | RATED | MAX | INLET | OUTLET | MAX TEMP | SHP WGHT | BOX QTY |
|---------|--------|----------|----------|----------|------------|------------|----------|----------|---------|
| YL20PNS | 20" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-F | 320° F | 1.1 lbs. | 25 |
| YL24PNS | 24" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-F | 320° F | 1.3 lbs. | 25 |
| YL27PNS | 27" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-F | 320° F | 1.4 lbs. | 25 |
| YL35PNS | 35" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-F | 320° F | 1.7 lbs. | 25 |
| YL47PNS | 47" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-F | 320° F | 2.2 lbs. | 25 |
| YL59PNS | 59" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-F | 320° F | 2.8 lbs. | 10 |
| YL67PNS | 67" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-F | 320° F | 3.0 lbs. | 10 |
| YL79PNS | 79" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-F | 320° F | 3.4 lbs. | 10 |



Bent-Insulated Lance

Product Group: I

| | LENGTH | GPM | RATED | MAX | INLET | OUTLET | MAX TEMP | SHP WGHT | BOX QTY |
|---------|----------------|----------|----------|----------|------------|------------|----------|----------|---------|
| YL36B | Vented 36" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-F | 320° F | 1.7 lbs. | 20 |
| YL20PNB | 20" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-F | 320° F | 1.1 lbs. | 25 |
| YL24PNB | 24" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-F | 320° F | 1.3 lbs. | 25 |
| YL27PNB | 27" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-F | 320° F | 1.4 lbs. | 25 |
| YL35PNB | 35" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-F | 320° F | 1.7 lbs. | 25 |
| YL47PNB | 47" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-F | 320° F | 2.2 lbs. | 25 |
| YL59PNB | 59" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-F | 320° F | 2.8 lbs. | 10 |
| YL67PNB | 67" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-F | 320° F | 3.0 lbs. | 10 |
| YL79PNB | 79" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-F | 320° F | 3.0 lbs. | 10 |
| ZZ15 | 59" Zinc Lance | 10.5 GPM | 3000 PSI | | 1/4" BSP-M | 1/4" BSP-F | 284° F | 2.5 lbs. | |



Chrome-Plated Insulated Lances

Product Group: I

| | LENGTH | GPM | RATED | INLET | OUTLET | MAX TEMP | SHP QTY |
|---------|--------|----------|----------|------------|------------|----------|----------|
| DL24ICS | 24" | 10.0 GPM | 4000 PSI | 1/4" NPT-M | 1/4" NPT-M | 220° F | 1.3 lbs. |
| DL27ICS | 27" | 10.0 GPM | 4000 PSI | 1/4" NPT-M | 1/4" NPT-M | 220° F | 1.4 lbs. |
| DL36ICS | 36" | 10.0 GPM | 4000 PSI | 1/4" NPT-M | 1/4" NPT-M | 220° F | 1.7 lbs. |
| DL47ICS | 47" | 10.0 GPM | 4000 PSI | 1/4" NPT-M | 1/4" NPT-M | 220° F | 2.2 lbs. |
| DL59ICS | 59" | 10.0 GPM | 4000 PSI | 1/4" NPT-M | 1/4" NPT-M | 220° F | 2.8 lbs. |
| DL79ICS | 79" | 10.0 GPM | 4000 PSI | 1/4" NPT-M | 1/4" NPT-M | 220° F | 3.4 lbs. |



Vented Chrome-Plated Lances

| | LENGTH | GPM | RATED | INLET | OUTLET | MAX TEMP | SHP QTY |
|---------|--------|----------|----------|------------|------------|----------|----------|
| DL36VCS | 36" | 10.0 GPM | 4000 PSI | 1/4" NPT-M | 1/4" NPT-M | 320° F | 1.7 lbs. |
| DL48VCS | 48" | 10.0 GPM | 4000 PSI | 1/4" NPT-M | 1/4" NPT-M | 320° F | 2.2 lbs. |



GUNS & LANCES

Zinc-Plated Steel, Insulated Handle, Straight Double Lance

Product Group: I

| | LENGTH | GPM | RATED | MAX | INLET | OUTLET | MAX TEMP | SHP WGHT | BOX QTY |
|-------|--------|----------|----------|----------|------------|------------|----------|----------|---------|
| YDL33 | 33" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-M | 320° F | 2.2 lbs. | 20 |
| YDL41 | 41" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-M | 320° F | 2.4 lbs. | 20 |



Zinc-Plated Steel, Bent Double Lance

Product Group: I

| | LENGTH | GPM | RATED | MAX | INLET | OUTLET | MAX TEMP | SHP WGHT | BOX QTY |
|---------|--|----------|----------|----------|------------|------------|----------|----------|---------|
| YDL33B | 33" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-M | 320° F | 2.2 lbs. | 20 |
| YDL41B | 41" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-M | 320° F | 2.4 lbs. | 20 |
| ZZDBL | 36" | 10.5 GPM | 3000 PSI | 3000 PSI | 1/4" BSP-M | 1/4" BSP-F | 284° F | 2.5 lbs. | 50 |
| 100673 | ZZDBL Lance Assembly with 1/4" QD Connector and 965400M Nozzle | | | | | | | | |
| ZZDBL72 | 72" | 10.5 GPM | 3000 PSI | 3000 PSI | 1/4" BSP-M | 1/4" BSP-F | 284° F | 3.5 lbs. | 50 |
| 100752 | ZZDBL72 Lance Assembly with 1/4" QD Connector and 965400M Nozzle | | | | | | | | |



Rectangular Handle

Product Group: I

| | DESC. | GPM | RATED | MAXIMUM | INLET | OUTLET | MAX TEMP | SHP WGHT | BOX QTY |
|--------|-------|----------|----------|----------|------------|------------|----------|----------|---------|
| YLD935 | 35" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-F | 320° F | 2.6 lbs. | 10 |
| YLD943 | 43" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-F | 320° F | 2.4 lbs. | 10 |



Stainless Steel Double Lance

Product Group: I

| | | | | | | | | | |
|----------|-----|----------|----------|----------|------------|------------|--------|----------|----|
| YDL41SS | 41" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-M | 320° F | 2.4 lbs. | 10 |
| YDL33SSB | 33" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-M | 320° F | 2.2 lbs. | 20 |
| YDL41SSB | 41" | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" NPT-M | 1/4" NPT-M | 320° F | 2.4 lbs. | 20 |



Lance Accessories

Product Group: I

| | |
|--------|--|
| D20011 | 12" Gutter cleaner, 1/4" QC connectors, for use with #5.0 or larger nozzle |
| D22000 | Adjustable Lance Handle for 1/4" lances |



Quick Lance

Product Group: N

| | DESCRIPTION | SHP WGHT |
|------------|-------------------------|----------|
| ZOZFIXUP | 10" Lower Section | 0.5 lbs. |
| ZOZQUIK2 | 9" Extension | 0.5 lbs. |
| ZOZQUIK4 | 14" Extension | 1.0 lbs. |
| ZOZQUIK5 | 20" Extension | 1.0 lbs. |
| ZOZQUIK7 | 30" Extension | 1.5 lbs. |
| ZOZQUIKCAR | 30" Extension with Bend | 1.5 lbs. |



Hose Assemblies

Product Group: N

Great Hose for Cold Water, Light Duty Machine. Plastic, Spiral Bend Restrictions, replacement for BOXJET

| | RATED | LENGTH | ID | TEMP | INLET | OUTLET |
|--------|--------------|---------------|-----------|-------------|--------------|---------------|
| 100745 | 2400 PSI | 25 Feet | 1/4" | 145° F | M22/14 mm | 3/8" MNPT |



Hose for Mid Pressure Range Machines, Rubber with 1 Wire Braid, Heavy Duty Bend Restrictions

| | RATED | LENGTH | ID | TEMP | INLET | OUTLET |
|--------|--------------|---------------|-----------|-------------|--------------|------------------|
| 100743 | 3000 PSI | 50 Feet | 3/8" | 250° F | 3/8" MNPT | 3/8" MNPT Swivel |

Hose for Tough, Industrial, Hot Water Applications, Rubber with 2 Wire Braids, Heavy Duty Bend Restrictions

| | RATED | LENGTH | ID | TEMP | INLET | OUTLET |
|--------|--------------|---------------|-----------|-------------|--------------|------------------|
| 100744 | 4500 PSI | 50 Feet | 3/8" | 250° F | 3/8" MNPT | 3/8" MNPT Swivel |
| 100778 | 4500 PSI | 75 Feet | 3/8" | 250° F | 3/8" MNPT | 3/8" MNPT Swivel |

Hose Reels

Product Group: N

Direct Hand Crank Rewind with locking mechanism, Solid Steel Construction with Durable Powdercoat Paint and Full Flow Swivel Brass Joint

DESCRIPTION

| | | MAX |
|--------|--|------------|
| D30001 | 50' x 3/8", complete with mounting base | 3500 PSI |
| D30002 | 100' x 3/8", complete with mounting base | 3500 PSI |
| D30004 | 150' x 3/8", complete with mounting base | 3500 PSI |



Water Brooms

Product Group: N

DESCRIPTION

| | | NOZZLE PORTS | PRESSURE |
|---------|--|---------------------|-----------------|
| 100869 | 12" Water Broom with 65 degree nozzles | 3 | 3000 PSI |
| 100870 | 16" Water Broom with 65 degree nozzles | 4 | 3000 PSI |
| 100869C | 100869 with 36" Molded lance, 1/4" QC & High Pressure SS QC Filter | 3 | 3000 PSI |
| 100870C | 100870 with 36" Molded lance, 1/4" QC & High Pressure SS QC Filter | 4 | 3000 PSI |



Through-Hardened Stainless Steel Orifice in a Stainless Steel Housing

Part Number Examples

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

| | SIZE | 0° RED | 15° YELLOW | 25° GREEN | 40° WHITE |
|---|------|-----------|---------------|--------------|--------------|
| N | 020 | 900020 | 915020 | 925020 | 940020 |
| | 025 | 900025 | 915025 | 925025 | 940025 |
| | 030 | 900030 | 915030 | 925030 | 940030 |
| O | 035 | 900035 | 915035 | 925035 | 940035 |
| Z | 040 | 900040 | 915040 | 925040 | 940040 |
| Z | 045 | 900045 | 915045 | 925045 | 940045 |
| L | 050 | 900050 | 915050 | 925050 | 940050 |
| E | 055 | 900055 | 915055 | 925055 | 940055 |
| | 060 | 900060 | 915060 | 925060 | 940060 |
| S | 070 | 900070 | 915070 | 925070 | 940070 |
| I | 075 | 900075 | 915075 | 925075 | 940075 |
| Z | 080 | 900080 | 915080 | 925080 | 940080 |
| E | 085 | 900085 | 915085 | 925085 | 940085 |
| | 090 | 900090 | 915090 | 925090 | 940090 |
| | 100 | 900100 | 915100 | 925100 | 940100 |

| GPM @ PSI | | | | | |
|-----------|------|------|------|-------|-------|
| | 1000 | 2000 | 3000 | 4000 | 5000 |
| | 1.00 | 1.41 | 1.73 | 2.00 | 2.24 |
| | 1.25 | 1.77 | 2.17 | 2.50 | 2.80 |
| | 1.50 | 2.12 | 2.60 | 3.00 | 3.35 |
| | 1.75 | 2.47 | 3.03 | 3.50 | 3.91 |
| | 2.00 | 2.83 | 3.46 | 4.00 | 4.47 |
| | 2.25 | 3.18 | 3.90 | 4.50 | 5.03 |
| | 2.50 | 3.54 | 4.33 | 5.00 | 5.59 |
| | 2.75 | 3.89 | 4.76 | 5.50 | 6.15 |
| | 3.00 | 4.24 | 5.20 | 6.00 | 6.71 |
| | 3.50 | 4.95 | 6.06 | 7.00 | 7.83 |
| | 3.75 | 5.30 | 6.50 | 7.50 | 8.39 |
| | 4.00 | 5.66 | 6.93 | 8.00 | 8.94 |
| | 4.25 | 6.01 | 7.36 | 8.50 | 9.50 |
| | 4.50 | 6.36 | 7.79 | 9.00 | 10.06 |
| | 5.00 | 7.07 | 8.66 | 10.00 | 11.18 |

Standard Nozzles

Product Group: O

F-Style
M-Style
S-Style
Q-Style

DESCRIPTION

Spray Nozzle, Female 1/4"
Spray Nozzle, 1/4" NPT-M
Spray Nozzle, 1/8" NPT-M
Spray Nozzle, 1/4" Quick Disconnect

SHP WGHT

0.1 lbs.
0.1 lbs.
0.1 lbs.
0.1 lbs.



SPRAY TIPS & NOZZLES



Chemical Nozzles

Product Group: O



| | 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, 100% Brass | 0.1 lbs. | 250 |
| 925400M | #40 Orifice, 25° Spray Angle, 1/4" NPT-M | 0.1 lbs. | 250 |
| 925400Q | #40 Orifice, 25° Spray Angle, Q-Style, 100% Brass | 0.1 lbs. | 250 |
| 925400S | #40 Orifice, 25° Spray Angle, 1/8" NPT-M, 100% Brass | 0.1 lbs. | 250 |



Nozzle 5-Pack, 1/4" Quick Disconnect

Product Group: P

(one each: 0°, 15°, 25°, 40°; plus one 65° #40 chemical)

| | DESCRIPTION | SHP WGHT |
|--------|-------------|----------|
| 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. |



Nozzle 4-Pack, 1/4" Quick Disconnect

Product Group: P

(one each: 0°, 15°, 25°, and 40°)

| | DESCRIPTION | SHP WGHT |
|--------|-------------|----------|
| 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. |



SPRAY TIPS & NOZZLES

Adjustable Nozzle, Variable Spray Angle and High/Low Pressure Setting

Product Group: A

| | SIZE/COLOR | RATED | MAX | MAX TEMP | INLET | SHP WGHT | BOX QTY |
|-------|-------------------|----------|----------|----------|------------|----------|---------|
| YHL20 | #2.0 Light Green | 3650 PSI | 4050 PSI | 195° F | 1/4" BSP-F | 0.4 lbs. | 10 |
| YHL25 | #2.5 Pink | 3650 PSI | 4050 PSI | 195° F | 1/4" BSP-F | 0.4 lbs. | 10 |
| YHL30 | #3.0 White | 3650 PSI | 4050 PSI | 195° F | 1/4" BSP-F | 0.4 lbs. | 10 |
| YHL35 | #3.5 Brown | 3650 PSI | 4050 PSI | 195° F | 1/4" BSP-F | 0.4 lbs. | 10 |
| YHL40 | #4.0 Dark Yellow | 3650 PSI | 4050 PSI | 195° F | 1/4" BSP-F | 0.4 lbs. | 10 |
| YHL45 | #4.5 Blue | 3650 PSI | 4050 PSI | 195° F | 1/4" BSP-F | 0.4 lbs. | 10 |
| YHL50 | #5.0 Light Purple | 3650 PSI | 4050 PSI | 195° F | 1/4" BSP-F | 0.4 lbs. | 10 |
| YHL55 | #5.5 Dark Red | 3650 PSI | 4050 PSI | 195° F | 1/4" BSP-F | 0.4 lbs. | 10 |
| YHL60 | #6.0 Dark Green | 3650 PSI | 4050 PSI | 195° F | 1/4" BSP-F | 0.4 lbs. | 10 |
| YHL65 | #6.5 Light Blue | 3650 PSI | 4050 PSI | 195° F | 1/4" BSP-F | 0.4 lbs. | 10 |
| YHL70 | #7.0 Orange | 3650 PSI | 4050 PSI | 195° F | 1/4" BSP-F | 0.4 lbs. | 10 |
| YHL80 | #8.0 Silver | 3650 PSI | 4050 PSI | 195° F | 1/4" BSP-F | 0.4 lbs. | 10 |



Adjustable Nozzle, Premium High/Low Pressure Setting and Variable Spray Angle

Product Group: A

| | SIZE/COLOR | RATED | MAX | MAX TEMP | INLET | SHP WGHT | BOX QTY |
|----------|-----------------|----------|----------|----------|------------|----------|---------|
| YHILO110 | #3.0 White | 4050 PSI | 4500 PSI | 195° F | 1/4" BSP-F | 0.5 lbs. | 10 |
| YHILO120 | #3.5 Brown | 4050 PSI | 4500 PSI | 195° F | 1/4" BSP-F | 0.5 lbs. | 10 |
| YHILO130 | #4.0 Yellow | 4050 PSI | 4500 PSI | 195° F | 1/4" BSP-F | 0.5 lbs. | 10 |
| YHILO140 | #4.5 Blue | 4050 PSI | 4500 PSI | 195° F | 1/4" BSP-F | 0.5 lbs. | 10 |
| YHILO150 | #5.5 Red | 4050 PSI | 4500 PSI | 195° F | 1/4" BSP-F | 0.5 lbs. | 10 |
| YHILO160 | #6.0 Dark Green | 4050 PSI | 4500 PSI | 195° F | 1/4" BSP-F | 0.5 lbs. | 10 |
| YHILO170 | #7.0 Orange | 4050 PSI | 4500 PSI | 195° F | 1/4" BSP-F | 0.5 lbs. | 10 |



| | GPM | MAXIMUM | MAX TEMP | INLET | SHP WGHT |
|--------------|---------|----------|----------|------------|----------|
| ZOMULTIREG99 | 5.5 GPM | 3000 PSI | 140° F | 1/4" BSP-F | 1.1 lbs. |



| | GPM | MAXIMUM | MAX TEMP | INLET | SHP WGHT |
|---------|---------|----------|----------|------------|----------|
| ZOVARIO | 5.5 GPM | 3000 PSI | 284° F | 1/4" BSP-F | 1.1 lbs. |



SPRAY TIPS & NOZZLES



Rotating Nozzle

Product Group: A



| | SIZE | MAX | MAX TEMP | INLET | SHP WGHT |
|--------|------|----------|----------|-----------|----------|
| Y3K020 | 2.0 | 3000 PSI | 194° F | 1/4" BSPF | .75 lbs. |
| Y3K030 | 3.0 | 3000 PSI | 194° F | 1/4" BSPF | .75 lbs. |
| Y3K035 | 3.5 | 3000 PSI | 194° F | 1/4" BSPF | .75 lbs. |
| Y3K040 | 4.0 | 3000 PSI | 194° F | 1/4" BSPF | .75 lbs. |
| Y3K045 | 4.5 | 3000 PSI | 194° F | 1/4" BSPF | .75 lbs. |
| Y3K050 | 5.0 | 3000 PSI | 194° F | 1/4" BSPF | .75 lbs. |
| Y3K055 | 5.5 | 3000 PSI | 194° F | 1/4" BSPF | .75 lbs. |
| Y3K065 | 6.5 | 3000 PSI | 194° F | 1/4" BSPF | .75 lbs. |



| | SIZE | MAX | MAX TEMP | INLET | SHP WGHT |
|--------|------|----------|----------|-----------|-----------|
| Y5K020 | 2.0 | 5000 PSI | 194° F | 1/4" BSPF | 1.75 lbs. |
| Y5K030 | 3.0 | 5000 PSI | 194° F | 1/4" BSPF | 1.75 lbs. |
| Y5K035 | 3.5 | 5000 PSI | 194° F | 1/4" BSPF | 1.75 lbs. |
| Y5K040 | 4.0 | 5000 PSI | 194° F | 1/4" BSPF | 1.75 lbs. |
| Y5K045 | 4.5 | 5000 PSI | 194° F | 1/4" BSPF | 1.75 lbs. |
| Y5K050 | 5.0 | 5000 PSI | 194° F | 1/4" BSPF | 1.75 lbs. |
| Y5K055 | 5.5 | 5000 PSI | 194° F | 1/4" BSPF | 1.75 lbs. |
| Y5K060 | 6.0 | 5000 PSI | 194° F | 1/4" BSPF | 1.75 lbs. |
| Y5K065 | 6.5 | 5000 PSI | 194° F | 1/4" BSPF | 1.75 lbs. |
| Y5K090 | 9.0 | 5000 PSI | 194° F | 1/4" BSPF | 1.75 lbs. |
| Y5K100 | 10.0 | 5000 PSI | 194° F | 1/4" BSPF | 1.75 lbs. |

Adjustable Rotating Nozzle

Product Group: A



| | COLOR | GPM | RATED | MAX | MAX TEMP | INLET | SHP WGHT | BOX QTY |
|-----------|------------|----------------|----------|----------|----------|-------------|----------|---------|
| ZROTOMAX1 | Red | 2.1 to 2.6 GPM | 1450 PSI | 3500 PSI | 176° F | 1/4" BSP- F | 1.1 lbs. | 15 |
| ZROTOMAX2 | Light Blue | 2.9 to 4.0 GPM | 1450 PSI | 3500 PSI | 176° F | 1/4" BSP- F | 1.1 lbs. | 15 |
| ZROTOMAX3 | Black | 4.2 to 5.5 GPM | 1450 PSI | 3500 PSI | 176° F | 1/4" BSP- F | 1.1 lbs. | 15 |



| | ORIFICE | GPM | MAX | INLET | MAX TEMP | SHP WGHT |
|----------|---------|----------------|----------|-----------|----------|----------|
| ZRMAX581 | 140 | 2.3 to 4.7 GPM | 5800 PSI | 1/4" BSPF | 176° F | 0.7 lbs. |
| ZRMAX583 | 160 | 3.3 to 6.6 GPM | 5800 PSI | 1/4" BSPF | 176° F | 0.7 lbs. |



GP Viper Rotating Nozzle

Product Group: A

| | SIZE | MAX | MAX TEMP | SHP WGHT |
|--------|------|----------|----------|----------|
| 100467 | #5.5 | 5000 PSI | 190° F | 1.1 lbs. |
| 100487 | #4.5 | 5000 PSI | 190° F | 1.1 lbs. |

Stainless Steel Rotating Nozzle

Product Group: K



| | SIZE | MAX | MAX TEMP | INLET | SHP WGHT |
|--------|------|----------|----------|-----------|----------|
| Y7K040 | 4.0 | 7000 PSI | 194° F | 1/4" BSPF | 1.5 lbs. |
| Y7K045 | 4.5 | 7000 PSI | 194° F | 1/4" BSPF | 1.5 lbs. |
| Y7K050 | 5.0 | 7000 PSI | 194° F | 1/4" BSPF | 1.5 lbs. |
| Y7K055 | 5.5 | 7000 PSI | 194° F | 1/4" BSPF | 1.5 lbs. |
| Y7K060 | 6.0 | 7000 PSI | 194° F | 1/4" BSPF | 1.5 lbs. |
| Y7K065 | 6.5 | 7000 PSI | 194° F | 1/4" BSPF | 1.5 lbs. |
| Y7K070 | 7.0 | 7000 PSI | 194° F | 1/4" BSPF | 1.5 lbs. |



SPRAY TIPS & NOZZLES

Drain Cleaning Nozzles

Product Group: A

| | DESCRIPTION | GPM | MAX | INLET | SHP WGHT |
|----------|---|----------|----------|------------|----------|
| YDRNT1 | Microdrain, Brass, #3.5 | 2.3 GPM | 1750 PSI | 1/4" BSP-M | 0.2 lbs. |
| YDRNT2 | Microdrain, Stainless Steel, #4.0 | 3.8 GPM | 3650 PSI | 1/4" BSP-M | 0.2 lbs. |
| YDRNT3 | Microdrain, Stainless Steel, #6.0 | 5.7 GPM | 3650 PSI | 3/8" BSP-M | 0.2 lbs. |
| ZUDRNT | Drainet, Adjustable Equivalent Orifice Diameter | 16.0 GPM | 3000 PSI | 3/8" BSP-M | 0.3 lbs. |
| ZUMDRNT1 | Microdrain, #5.5 Equivalent Orifice Diameter | 5.1 GPM | 3500 PSI | 1/8" BSP-F | 0.2 lbs. |
| ZUMDRNT2 | Microdrain, #8.5 Equivalent Orifice Diameter | 7.4 GPM | 3000 PSI | 1/8" BSP-F | 0.2 lbs. |



Adjustable Nozzle Holder

Product Group: H

| | GPM | MAX | INLET | OUTLET | SHP WGHT |
|---------|-------|----------|------------|------------|----------|
| YADJNOZ | 8 GPM | 3650 PSI | 1/4" BSP-F | 1/4" BSP-F | 0.5 lbs. |



Double Nozzle Holders

Product Group: H

| | GPM | MAX | INLET | OUTLET | SHP WGHT |
|--------|----------|----------|------------|----------------|----------|
| YDBL14 | 10.5 GPM | 2900 PSI | 1/4" BSP-F | (2) 1/4" NPT-F | 0.5 lbs. |
| YDBL18 | 10.5 GPM | 2900 PSI | 1/4" BSP-F | (2) 1/8" NPT-F | 0.5 lbs. |
| ZUDBL | 5.5 GPM | 3000 PSI | 1/4" BSP-F | (2) 1/4" BSP-F | 0.5 lbs. |



Steam Nozzle







Product Group: A

| | DESCRIPTION | MAX | INLET | SHP WGHT |
|---------|--------------------|----------|------------|----------|
| YSTN14F | 1.5 mm, .06 Nozzle | 1450 PSI | 1/4" BSP-F | 0.3 lbs. |



Tank Cleaning Nozzles

Product Group: K

| | DESCRIPTION | GPM | MAX | SHP WGHT |
|---|--|-----------------|----------|-----------|
|  | Y25450000 M63 Electric for small openings | 4.0 to 10.5 GPM | 2000 PSI | 14.0 lbs. |
| | Y25477000 M85 Electric for large openings | 21.0 GPM | 2000 PSI | 14.0 lbs. |
|  | Y25460000 M63 Self Propelled for small openings | 4.0 to 10.5 GPM | 2000 PSI | 14.0 lbs. |
| | Y25475000 M85 Self Propelled for large openings | 21.0 GPM | 2000 PSI | 14.0 lbs. |
|  | Y25459000 M63 Pneumatic for small openings. | 4.0 to 10.5 GPM | 2000 PSI | 10.0 lbs. |
| | Y25479500 M85 Pnuematic for large openings | 21.0 GPM | 2000 PSI | 11.5 lbs. |
|  | Y25482000 A-80R Self Propelled Request modified version when using non-rigid drop | 6.0 to 32.0 GPM | 2000 PSI | 11.0 lbs. |
| | Y25485000 A-80R2 Self Propelled (High RPM Version) Request modified version when using non-rigid drop | 6.0 to 21.0 GPM | 2000 PSI | 11.0 lbs. |
|  | Y25484000 A-80FR2 Self Propelled for Front Washing | 5.0 to 21.0 GPM | 2000 PSI | 12.0 lbs. |
| | Y25488000 A-80FD Self Propelled for Front Washing High RPM Version | 6.0 to 21.0 GPM | 2000 PSI | 12.0 lbs. |
|  | Y25430000 M21 Electric for barrel cleaning - Wine, chemical, etc. - For use with pressure washer | 5.5 GPM | 3200 PSI | 7.0 lbs. |
| | Y25435060 M25E Electric for barrel cleaning - With suction capability | 6.5 GPM | 2300 PSI | 9.0 lbs. |

Please specify nozzle and RPM requirements when ordering.



Quick Disconnect Coupler – EPDM O-Ring

Product Group: H

| | DESCRIPTION | MAX |
|--------|----------------------|----------|
| D10001 | 1/4" with 1/4" NPT-F | 5000 PSI |
| D10003 | 3/8" with 3/8" NPT-F | 4000 PSI |
| D10002 | 1/4" with 1/4" NPT-M | 5000 PSI |
| D10004 | 3/8" with 3/8" NPT-M | 4000 PSI |
| D10005 | 3/8" with 1/2" NPT-M | 4000 PSI |
| D10035 | 3/8" with M22 | 4000 PSI |



Quick Disconnect Plug

Product Group: H

| | DESCRIPTION | MAX TEMP | MAX |
|--------|---|----------|----------|
| D10006 | 1/4" Plug with 1/4" NPT-F, Hardened Steel, Brass Plated | 175° F | 5000 PSI |
| D10007 | 1/4" Plug with 1/4" NPT-M, Hardened Steel, Brass Plated | 175° F | 5000 PSI |
| D10008 | 3/8" Plug with 3/8" NPT-F, Hardened Steel, Brass Plated | 175° F | 4000 PSI |
| D10009 | 3/8" Plug with 3/8" NPT-M, Hardened Steel, Brass Plated | 175° F | 4000 PSI |
| 100746 | 3/8" Plug with M22 | 175° F | 4000 PSI |



| | | |
|--------|---|----------|
| 520133 | 1/4" Plug with 1/4" NPT-F, Hardened Stainless Steel | 5500 PSI |
| 520134 | 1/4" Plug with 1/4" NPT-M, Hardened Stainless Steel | 5500 PSI |
| 520135 | 3/8" Plug with 3/8" NPT-F, Hardened Stainless Steel | 5000 PSI |
| 520136 | 3/8" Plug with 3/8" NPT-M, Hardened Stainless Steel | 5000 PSI |



Garden Hose Fittings

Product Group: H

| | DESCRIPTION | INLET | OUTLET |
|--------|----------------------|--------------------|-----------|
| D10010 | Garden Hose Assembly | 3/4" M Garden Hose | 1/2" QD-M |
| D10011 | Plug | 3/4" M Garden Hose | 1/2" QD-M |
| D10012 | Coupler | 3/4" F Garden Hose | 1/2" QD |



| | | | |
|--------|-------------------------|------------------|------------|
| 100275 | Garden Hose Adapter Kit | 3/4" Garden Hose | 1/2" NPT-M |
| 100276 | Garden Hose Adapter Kit | 3/4" Garden Hose | 1/2" NPT-F |
| 100277 | Garden Hose Adapter Kit | 3/4" Garden Hose | 3/8" NPT-M |



| | DESCRIPTION | PORT | INLET | OUTLET |
|--------|-------------------------|------------|------------------|------------|
| 100312 | Garden Hose Inlet, Long | 1/4" NPT-F | 3/4" Garden Hose | 3/8" BSP-M |
| 100313 | Garden Hose Inlet, Long | 1/4" NPT-F | 3/4" Garden Hose | 1/2" NPT-M |





Garden Hose Fittings

Product Group: H

| | DESCRIPTION | INLET | OUTLET |
|--------|---------------------|------------------|------------|
| 510031 | Garden Hose Adapter | 3/4" Garden Hose | 3/8" NPT-M |
| 510032 | Garden Hose Adapter | 3/4" Garden Hose | 1/2" NPT-M |



| | | | |
|--------|---------------------------------|------------------|--|
| 510228 | Garden Hose Nut, 3/4" F Fitting | 3/4" Garden Hose | |
|--------|---------------------------------|------------------|--|



| | | | |
|--------|---------------------|------------------|------------|
| 680004 | Garden Hose Fitting | 3/4" Garden Hose | 1/2" NPT-F |
| 100674 | Garden Hose Fitting | 3/4" Garden Hose | 3/8" NPT-F |



| | DESCRIPTION | PORT | INLET | OUTLET |
|--------|--|------------|------------------|------------|
| 680006 | Garden Hose Inlet for TP Series 51 Pumps, with O-Ring (long) | | 3/4" Garden Hose | 1/2" BSP-M |
| 680007 | Garden Hose Assembly | 1/4" NPT-F | 3/4" Garden Hose | 3/8" BSP-M |
| 680073 | Garden Hose Inlet for TP Series (Short) | | 3/4" Garden Hose | 1/2" BSP-M |
| 700004 | Garden Hose Filter Washer, Stainless Steel | | | |
| 720039 | Garden Hose Retention Spring, Stainless Steel | | | |

Quick Disconnect Fittings – Twist Connect

Product Group: H

| | DESCRIPTION | RATED | MAX | SHP WGHT |
|----------|----------------|----------|----------|-------------|
| ZMINA14F | 1/4" F Plug | 3000 PSI | 3000 PSI | 0.2 lbs. |
| ZMINA14M | 1/4" M Plug | 3000 PSI | 3000 PSI | 0.2 lbs. |
| ZMINA38F | 3/8" F Plug | 3000 PSI | 3000 PSI | 0.2 lbs. |
| ZMINB12M | 1/2" M Coupler | 3000 PSI | 3000 PSI | 0.2 lbs. |
| ZMINB14F | 1/4" F Coupler | 3000 PSI | 3000 PSI | 0.2 lbs. |
| ZMINB14M | 1/4" M Coupler | 3000 PSI | 3000 PSI | 0.2 lbs. |
| ZMINB38F | 3/8" F Coupler | 3000 PSI | 3000 PSI | 0.2 lbs. |
| ZMINB38M | 3/8" M Coupler | 3000 PSI | 3000 PSI | 0.2 lbs. |



New!

| | DESCRIPTION | RATED | SHP WGHT |
|--------|-------------------|----------|-------------|
| D10020 | 1/2" F Plug x M22 | 4000 PSI | 0.2 lbs. |
| D10019 | 1/2" M Plug x M22 | 4000 PSI | 0.2 lbs. |
| D10022 | 1/4" F Plug x M22 | 4000 PSI | 0.2 lbs. |
| D10021 | 1/4" M Plug x M22 | 4000 PSI | 0.2 lbs. |
| D10023 | 3/8" F Plug x M22 | 4000 PSI | 0.2 lbs. |
| D10024 | 3/8" M Plug x M22 | 4000 PSI | 0.2 lbs. |



■ EPDM O-Ring

New!

| | DESCRIPTION | RATED | SHP WGHT |
|--------|-------------------------------|----------|-------------|
| D10025 | 1/2" F Coupler, 1 O-Ring, M22 | 4000 PSI | 0.2 lbs. |
| D10026 | 1/2" M Coupler, 1 O-Ring, M22 | 4000 PSI | 0.2 lbs. |
| D10027 | 1/4" F Coupler, 1 O-Ring, M22 | 4000 PSI | 0.2 lbs. |
| D10028 | 1/4" M Coupler, 1 O-Ring, M22 | 4000 PSI | 0.2 lbs. |
| D10029 | 3/8" F Coupler, 1 O-Ring, M22 | 4000 PSI | 0.2 lbs. |
| D10030 | 3/8" M Coupler, 1 O-Ring, M22 | 4000 PSI | 0.2 lbs. |





Inline High-Pressure Filters

Product Group: G

| | DESCRIPTION | GPM | MAX | MAX TEMP | INLET | OUTLET | SHW WGHT |
|--------|--------------------------------------|---------|----------|----------|------------|------------|-------------|
| 100560 | 100 Mesh Screen, 416 Stainless Steel | 8.0 GPM | 5500 PSI | 200° F | 1/4" QD | 1/4" NPT | 0.5 lbs. |
| 100622 | 100 Mesh Screen, Brass | 8.0 GPM | 5000 PSI | 200° F | 1/4" NPT-M | 1/4" NPT-M | 0.5 lbs. |
| 100647 | 100 Mesh Screen, Brass | 8.0 GPM | 5000 PSI | 200° F | 1/4" NPT-F | 1/4" NPT-M | 0.5 lbs. |



Chemical Filters

Product Group: G

| | DESCRIPTION | SHW WGHT |
|----------|--|-------------|
| ZOFILKIT | Chemical Hose & Filter | 0.5 lbs. |
| YF00 | Plastic Chemical Filter, 1/4" Hose Barb | 0.3 lbs. |
| YF00C | Plastic Chemical Filter with Check, 1/4" Hose Barb | 0.3 lbs. |
| YF30 | Plastic Chemical Filter with Stainless Steel Plug, 1/4" Hose Barb | 0.3 lbs. |
| YF30C | Plastic Chemical Filter with Stainless Steel Plug with Check, 1/4" Hose Barb | 0.3 lbs. |
| D40001 | Plastic Chemical Filter with Check Valve, 1/4" Hose Barb and 4 foot Hose | 0.5 lbs. |



| | DESCRIPTION | SHW WGHT | BOX QTY |
|-----|--|-------------|------------|
| ZF1 | Plastic filter with Brass Hose Barb, 1/4" Hose Barb | 0.2 lbs. | 30 |
| ZF2 | Plastic filter with Brass Hose Barb with Check, 1/4" Hose Barb | 0.3 lbs. | 30 |

Inlet Filter

Product Group: G

 Integrated Garden Hose Nut



| | DESCRIPTION | GPM | MIN | MAX | INLET | OUTLET | BYPASS | SHW WGHT |
|--------|----------------------------|---------|--------|---------|------------|---------|--------|-------------|
| 100649 | Integrated Garden Hose Nut | 8.0 GPM | 15 PSI | 150 PSI | 1/2" NPT-M | 3/4" GH | - | 0.5 lbs. |
| 100650 | Integrated Garden Hose Nut | 8.0 GPM | 15 PSI | 150 PSI | 3/8" NPT-M | 3/4" GH | - | 0.5 lbs. |



| | | | | | | | | |
|--------|----------------------------|---------|--------|---------|------------|---------|------|----------|
| 100651 | Integrated Garden Hose Nut | 8.0 GPM | 15 PSI | 150 PSI | 1/2" NPT-M | 3/4" GH | 1/4" | 0.5 lbs. |
| 100652 | Integrated Garden Hose Nut | 8.0 GPM | 15 PSI | 150 PSI | 3/8" NPT-M | 3/4" GH | 1/4" | 0.5 lbs. |

Inline Filter

Product Group: G

| | GPM | MIN | MAX | INLET | OUTLET | BYPASS | SHP WGHT |
|--------|---------|--------|---------|------------|------------|--------|-------------|
| 100704 | 8.0 GPM | 15 PSI | 150 PSI | 3/8" NPT-M | 3/8" NPT-M | - | 0.5 lbs. |
| 100706 | 8.0 GPM | 15 PSI | 150 PSI | 1/2" NPT-M | 3/8" NPT-M | - | 0.5 lbs. |
| 100708 | 8.0 GPM | 15 PSI | 150 PSI | 3/8" NPT-M | 1/2" NPT-M | - | 0.5 lbs. |
| 100710 | 8.0 GPM | 15 PSI | 150 PSI | 1/2" NPT-M | 1/2" NPT-M | - | 0.5 lbs. |
| 100712 | 8.0 GPM | 15 PSI | 150 PSI | 3/8" NPT-M | 1/2" QD | - | 0.5 lbs. |
| 100713 | 8.0 GPM | 15 PSI | 150 PSI | 1/2" NPT-M | 1/2" QD | - | 0.5 lbs. |
| 100705 | 8.0 GPM | 15 PSI | 150 PSI | 3/8" NPT-M | 3/8" NPT-M | 1/4" | 0.5 lbs. |
| 100707 | 8.0 GPM | 15 PSI | 150 PSI | 1/2" NPT-M | 3/8" NPT-M | 1/4" | 0.5 lbs. |
| 100709 | 8.0 GPM | 15 PSI | 150 PSI | 3/8" NPT-M | 1/2" NPT-M | 1/4" | 0.5 lbs. |
| 100711 | 8.0 GPM | 15 PSI | 150 PSI | 1/2" NPT-M | 1/2" NPT-M | 1/4" | 0.5 lbs. |
| 100714 | 8.0 GPM | 15 PSI | 150 PSI | 3/8" NPT-M | 1/2" QD | 1/4" | 0.5 lbs. |
| 100715 | 8.0 GPM | 15 PSI | 150 PSI | 1/2" NPT-M | 1/2" QD | 1/4" | 0.5 lbs. |



| | DESCRIPTION | GPM | MAX | INLET | OUTLET | SHP WGHT |
|------|------------------------|---------|---------|------------|------------|-------------|
| ZMFL | Aluminum Body, 50 Mesh | 5.8 GPM | 145 PSI | 1/2" BSP-F | 1/2" BSP-M | 0.5 lbs. |



Inlet Strainers

Product Group: G

| | DESCRIPTION | GPM | MAX | INLET | OUTLET | BYPASS | SHP WGHT |
|---------|-----------------------|--------|---------|------------|------------|--------|-------------|
| YF5BMF | Plastic Body, 50 Mesh | 8 GPM | 145 PSI | 1/2" BSP-M | 1/2" BSP-F | 1/4" | 0.5 lbs. |
| YF5MF | Plastic Body, 50 Mesh | 8 GPM | 145 PSI | 1/2" BSP-M | 1/2" BSP-F | - | 0.5 lbs. |
| YFY1 | Plastic Body, 50 Mesh | 21 GPM | 145 PSI | 1" BSP-F | 1" BSP-F | - | 0.5 lbs. |
| YFY34 | Plastic Body, 50 Mesh | 21 GPM | 145 PSI | 3/4" BSP-F | 3/4" BSP-F | - | 0.5 lbs. |
| YYSTR12 | Brass Body, 45 Mesh | 15 GPM | 175 PSI | 1/2" NPT-F | 1/2" NPT | - | 0.3 lbs. |





Thermostats

Product Group: R

| | DESCRIPTION | GPM | MAX | INLET | OUTLET | SHW WGHT |
|--------|--------------------|-------------|----------|----------|----------|-------------|
| 100272 | Flow Through Style | 1 to 35 GPM | 2000 PSI | 1/2" NPT | 1/2" NPT | 1.0 lbs. |



Probe Style Thermostats Insulated SS Capillary Copper Immersion Bulb (UL/CSA approved)

| | RATING | PRESSURE | MAX TEMP | SHW WGHT |
|--------|-----------------------------|----------|----------|-------------|
| 100438 | 16(4)A-380V Electric Rating | 4000 PSI | 86-194° | 0.5 lbs. |
| 100439 | 16(4)A-380V Electric Rating | 4000 PSI | 86-320° | 0.5 lbs. |
| 100538 | 16(4)A-380V Electric Rating | 4000 PSI | 86-250° | 0.5 lbs. |

Thermostats Bulk Packaged (25 per box) Product Group: B

| | | | | |
|---------|-----------------------------|----------|---------|-----------|
| 100438B | 16(4)A-380V Electric Rating | 4000 PSI | 86-194° | 12.5 lbs. |
| 100538B | 16(4)A-380V Electric Rating | 4000 PSI | 86-250° | 12.5 lbs. |
| 100439B | 16(4)A-380V Electric Rating | 4000 PSI | 86-320° | 12.5 lbs. |



| | | | | |
|-----------|--------------|----------|-----|----------|
| Y29026035 | Probe Pocket | 4500 PSI | N/A | 0.4 lbs. |
|-----------|--------------|----------|-----|----------|

Pressure Switches

Product Group: D



| | ACTIVATED PRESSURE | RATED PRESSURE | MAX TEMP | INLET | SHW WGHT |
|---|-----------------------|-------------------|-------------|------------|-------------|
| 15 amps, 250 Volts, 580 Switching Pressure, Brass Stem, Stainless Steel Nipple | | | | | |
| YPRESSWITCH | 580 PSI | 3600 PSI | 195° F | 1/4" NPT-M | 0.5 lbs. |
| 15 amps, 250 Volts, 360 Switching Pressure, Brass Stem, Stainless Steel Nipple | | | | | |
| YPRESSWITCH1535 | 350 PSI | 3600 PSI | 195° F | 3/8" BSP-M | 0.5 lbs. |
| 15 amps, 250 Volts, 580 Switching Pressure, Brass Stem, Stainless Steel Nipple | | | | | |
| YPRESSWITCH1564 | 580 PSI | 3600 PSI | 195° F | 3/8" BSP-M | 0.5 lbs. |
| 5 amps, 250 Volts, 360 Switching Pressure, Brass Stem and Nipple | | | | | |
| YPRESSWITCH535 | 360 PSI | 3600 PSI | 195° F | 1/4" BSP-M | 0.5 lbs. |
| 5 amps, 250 Volts, 580 Switching Pressure, Brass Stem and Nipple | | | | | |
| YPRESSWITCH564 | 580 PSI | 3600 PSI | 195° F | 1/4" BSP-M | 0.5 lbs. |
| 15 amps, 250 Volts, 650 Switching Pressure, Stainless Steel Stem and Nipple | | | | | |
| YPRESSWITCHHP | 650 PSI | 3600 PSI | 195° F | 3/8" BSP-M | 0.5 lbs. |
| 15 amps, 250 Volts, 215 Switching Pressure, Stainless Steel Stem and Nipple | | | | | |
| YPRESSWITCH1521 | 215 PSI | 3600 PSI | 195° F | 1/4" NPT-M | 0.5 lbs. |
| 15 amps, 250 Volts, 215 Switching Pressure, Stainless Steel Stem and Nipple | | | | | |
| YPRESSWITCH521 | 215 PSI | 3600 PSI | 195° F | 1/4" NPT-M | 0.5 lbs. |

| | | | | | |
|---|---------|----------|--|------------|----------|
| 5 amps, 250 Volts, 435 Switching Pressure, Brass Stem and Nipple | | | | | |
| ZMSIMPLEX3 | 725 PSI | 3000 PSI | | 1/4" BSP-M | 0.5 lbs. |

Reedless Flow Switch

Product Group: D

TMT Inline Flowswitch, 5 amp micro switch, minimum flow 0.5 GPM activation, 48" 18 awg lead, no spring, uses magnets for all movements

| | GPM | MAX | MAX TEMP | INLET | OUTLET | VOLTAGE | SHP WGHT |
|--------|---------|----------|----------|------------|------------|---------|----------|
| 100809 | 8.0 GPM | 5000 PSI | 180° F | 3/8" NPT-F | 3/8" NPT-F | 250 VAC | 0.3 lbs. |

Flow Switches

Product Group: D

| | GPM | RATED | MAX | MAX TEMP | INLET | OUTLET | SHP WGHT |
|---|-------|----------|----------|----------|------------|------------|----------|
| 1 amp, 250 Volts, 36" Cord (Mount in Vertical Position Only) | | | | | | | |
| YFLOSWITCH | 8 GPM | 3650 PSI | 4050 PSI | 175° F | 3/8" BSP-M | 3/8" BSP-M | 0.6 lbs. |

1 amp, 250 Volts, 48" Cord, Gauge Port

| | | | | | | | |
|------------|---------|----------|----------|--------|------------|------------|----------|
| YFL3SWITCH | 8.0 GPM | 3650 PSI | 4050 PSI | 175° F | 3/8" BSP-M | 1/4" BSP-M | 0.4 lbs. |
|------------|---------|----------|----------|--------|------------|------------|----------|

1 amp, 250 Volts, 48" Cord, Flow Through Design

| | | | | | | | |
|------------|---------|----------|--|--------|------------|------------|----------|
| YFL7SWITCH | 8.0 GPM | 5100 PSI | | 175° F | 3/8" BSP-F | 3/8" BSP-F | 0.5 lbs. |
|------------|---------|----------|--|--------|------------|------------|----------|

3 amp, 250 Volts 96" Cord (5 amp Max Carrying)

| | | | | | | | |
|--------|-----------------|--------|----------|--------|------------|------------|----------|
| 103011 | .75 to 18.7 GPM | 18 PSI | 4000 PSI | 165° F | 3/8" NPT-F | 3/8" NPT-F | 2.5 lbs. |
|--------|-----------------|--------|----------|--------|------------|------------|----------|

3 amp, 250 Volts 96" Cord with Pilot Feature (5 amp Max. Carrying)

| | | | | | | | |
|--------|-----------------|----------|----------|--------|------------|------------|----------|
| 100329 | .75 to 16.0 GPM | 5000 PSI | 5000 PSI | 165° F | 3/8" NPT-F | 3/8" NPT-F | 2.5 lbs. |
|--------|-----------------|----------|----------|--------|------------|------------|----------|

.2 amp, 250 Volts, 12" Cord, Mount in any direction

| | | | | | | | |
|--------|--------|----------|----------|--------|------------|------------|----------|
| 100716 | 12 GPM | 5000 PSI | 5000 PSI | 175° F | 3/8" NPT-F | 3/8" NPT-F | 1.2 lbs. |
|--------|--------|----------|----------|--------|------------|------------|----------|

Throttle Control for Gasoline Engines

| | RATED | MAX | INLET | SHP WGHT |
|--------|---------|----------|------------|----------|
| ZSPEED | 725 PSI | 3000 PSI | 3/8" NPT-M | 1.1 lbs. |

Gauges (Glycerin Filled, Dual Scale)

Product Group: D

| | PRESSURE | PORT | PORT LOCATION | SHP WGHT |
|--------|----------------------|------------|---------------|----------|
| 320005 | 2000 PSI | 1/4" NPT | Bottom Mount | 0.7 lbs. |
| 320000 | 3000 PSI | 1/4" NPT | Bottom Mount | 0.7 lbs. |
| 320002 | 3000 PSI | 1/4" NPT | Bottom Mount | 0.7 lbs. |
| 320001 | 5000 PSI | 1/4" NPT | Panel Mount | 0.7 lbs. |
| 320003 | 5000 PSI | 1/4" NPT | Bottom Mount | 0.7 lbs. |
| 320004 | 20000 PSI | 1/2" NPT | Bottom Mount | 1.0 lbs. |
| 320006 | 30/0/30 Compound | 1/4" NPT-M | Bottom Mount | 0.7 lbs. |
| 320007 | 30/0/100 Compound | 1/4" NPT-M | Bottom Mount | 0.7 lbs. |
| 320008 | 30/0/150 Compound | 1/4" NPT-M | Bottom Mount | 0.7 lbs. |
| 320009 | 300 PSI Low Pressure | 1/4" NPT-M | Bottom Mount | 0.7 lbs. |
| 320010 | 0-5000 PSI | 1/4" NPT-M | Back Mount | 0.7 lbs. |





Valve Caps with Gauge Ports

Product Group: D

| | DESCRIPTION | SHP WGHT |
|--------|---|----------|
| 190029 | Valve Cap with Gauge Port for 47 Series Pump | 0.5 lbs. |
| 190031 | Valve Cap with Gauge Port for TT Series Pump | 0.5 lbs. |
| 190107 | Valve Cap with Gauge Port for EZ Series Pump | 0.5 lbs. |
| 190358 | Valve Cap with Gauge Port for 47 Series Pump, Fine Thread | 0.5 lbs. |



High-Pressure Swivels

Product Group: H

| | DESCRIPTION | GPM | RATED | MAX | INLET | OUTLET | MAX TEMP | SHP WGHT |
|--------------------------|-------------|----------|----------|----------|------------|------------|----------|----------|
| Light Resistance | | | | | | | | |
| YSW38MFB | Brass | 8.0 GPM | 3200 PSI | 3650 PSI | 3/8" BSP-M | 3/8" BSP-F | 320° F | 0.3 lbs. |
| Medium Resistance | | | | | | | | |
| YSW14MFB | Brass | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" BSP-M | 1/4" BSP-F | 320° F | 0.3 lbs. |
| YSW38MFSS | SS | 10.5 GPM | 5100 PSI | 5650 PSI | 3/8" BSP-M | 3/8" BSP-F | 320° F | 0.3 lbs. |
| YSW14MFSS | SS | 10.5 GPM | 5100 PSI | 5650 PSI | 1/4" BSP-M | 1/4" BSP-F | 320° F | 0.3 lbs. |



Accumulators/Pulsation Dampeners

Product Group: K

| | DESCRIPTION | GPM | RATED | INLET | SHP WGHT |
|--------|------------------|----------|----------|------------|----------|
| ZMACC | Rebuildable | 8.0 GPM | 1350 PSI | 3/4" NPT-M | 0.5 lbs. |
| 686028 | Rechargeable | 10.0 GPM | 3000 PSI | 1/2" NPT-M | 2.5 lbs. |
| 686011 | Non-Rechargeable | 10.0 GPM | 3000 PSI | 1/2" NPT-M | 2.5 lbs. |
| 686010 | Rechargeable | 40.0 GPM | 3000 PSI | 1" NPT-M | 7.0 lbs. |

Float Tank and Valve

Product Group: N

| | DESCRIPTION | GPM | RATED | INLET | SHP WGHT | BOX QTY |
|-------------|-------------------|---------|---------|------------|-------------|------------|
| YFLOATVALVE | Brass, Gray Float | 7.0 GPM | 145 PSI | 3/8" BSP-M | 0.8 lbs. | 25 |



| | DESCRIPTION | INLET | SHP WGHT | BOX QTY |
|-----------|---|------------|-------------|------------|
| YFLOATANK | 1.05 Gallon Plastic Tank with Cover and Brass Float Valve | 3/8" BSP-M | 0.5 lbs. | 12 |



Foamers

Product Group: N

| | DESCRIPTION | GPM | RATED | MAX | SHP WGHT | BOX QTY |
|-------|-----------------------------------|---------|----------|----------|-------------|------------|
| YLS12 | Foamer Lance with 1.5 mm Injector | 6.5 GPM | 2900 PSI | 3200 PSI | 1.5 lbs. | 45 |



| | | | | | | |
|--------|---|---------|----------|----------|----------|---|
| YLS12T | Foamer Lance with 1.5 mm Injector (1 qt tank) | 6.5 GPM | 2900 PSI | 3200 PSI | 1.5 lbs. | 5 |
| YLS31T | Foamer Lance with 1.25 mm Injector | 5.3 GPM | 2300 PSI | 2600 PSI | 1.0 lbs. | 5 |



| | |
|--------|------------------------------|
| ZOFOAM | Foamer Nozzle Kit with Tank |
| ZOSOAP | 20 Soap Sticks for Brush Kit |



Brushes

Product Group: N



| | DESCRIPTION | MAX TEMP | MAX | INLET | SHP WGHT | BOX QTY |
|---------------------|--|-------------|---------|------------|-------------|------------|
| YROTBRUSH 190092 | Natural Bristle Rotating Brush YROTBRUSH with Lance | 140° F | 435 PSI | 1/4" BSP-M | 1.8 lbs. | 21 |

Sandblasting Nozzles

Product Group: N



| | 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. |
| ZMSNDBLST4 | 2.1 mm/.083 Nozzle | 2.5 lbs. |
| ZMSNDBLST5 | 2.3 mm/.091 Nozzle | 2.5 lbs. |
| 10200001 | Complete Sandblasting Kit | 13.0 lbs. |



| | | |
|------------|------------|----------|
| ZMSNDPOKER | Sand Poker | 0.5 lbs. |
|------------|------------|----------|



| | NOZZLE | GPM | RATED | MAX | INLET | SHP WGHT |
|---------|--------|----------|----------|----------|------------|-------------|
| YTS81.0 | .02 | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" BSP-F | 1.3 lbs. |
| YTS81.2 | .03 | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" BSP-F | 1.3 lbs. |
| YTS81.4 | .04 | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" BSP-F | 1.3 lbs. |
| YTS81.5 | .045 | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" BSP-F | 1.3 lbs. |
| YTS81.6 | .05 | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" BSP-F | 1.3 lbs. |
| YTS81.8 | .075 | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" BSP-F | 1.3 lbs. |
| YTS82.0 | .085 | 10.5 GPM | 3650 PSI | 4050 PSI | 1/4" BSP-F | 1.3 lbs. |

Service Products

Product Group: Net

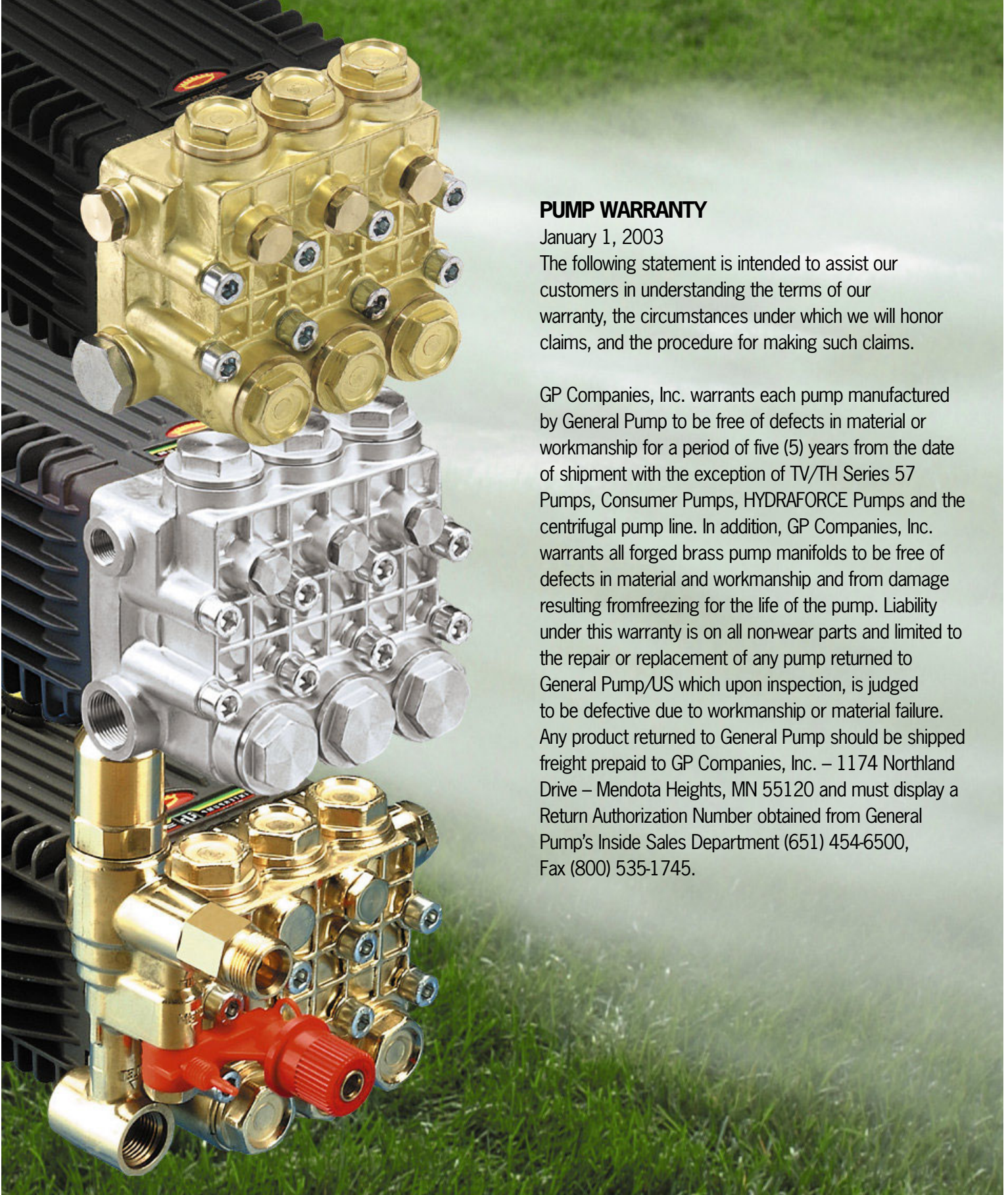
| | |
|------------|--|
| KIT1S | Pump Service Video |
| KIT2S | Packing Insertion Kit & Pump Service Video |
| KIT3S | Packing Extraction Kit & Pump Service Video |
| KIT4S | Complete Tool Kit & Pump Service Video |
| TOOLKITPRI | Complete Packing Replacement and Insertion Kit |
| ZMVALAT | Complete Tool Kit |
| ZMVT00L | Packing Insertion Tool |

Product Group: N

| | |
|----------|----------------------------------|
| 26019400 | 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 |



WARRANTY INFORMATION



PUMP WARRANTY

January 1, 2003

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

GP Companies, Inc. warrants each pump manufactured by General Pump to be free of defects in material or workmanship for a period of five (5) years from the date of shipment with the exception of TV/TH Series 57 Pumps, Consumer Pumps, HYDRAFORCE Pumps and the centrifugal pump line. In addition, GP Companies, Inc. warrants all forged brass pump manifolds to be free of defects in material and workmanship and from damage resulting from freezing for the life of the pump. Liability under this warranty is on all non-wear parts and limited to the repair or replacement of any pump returned to General Pump/US which upon inspection, is judged to be defective due to workmanship or material failure. Any product returned to General Pump should be shipped freight prepaid to GP Companies, Inc. – 1174 Northland Drive – Mendota Heights, MN 55120 and must display a Return Authorization Number obtained from General Pump's Inside Sales Department (651) 454-6500, Fax (800) 535-1745.

WARRANTY INFORMATION



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

- 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.
- 6 The Centrifugal pump line is warranted for one year from the date of shipment.

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

ACCESSORY WARRANTY

January 1, 2003 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

Warranty does not apply to:

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

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

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

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;

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.





TERMS AND CONDITIONS RETURN POLICY

GP COMPANIES SALES POLICIES

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

TERMS & CONDITIONS

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

RETURN POLICY

- 1 To expedite the Return Merchandise Authorization (RMA) process, please have your General Pump invoice number available when you contact the inside sales department.
- 2 An RMA number **must** be acquired before returning product. To obtain an RMA number, please call General Pump's Inside Sales Department at (651) 454-6500
- 3 An RMA number is valid for 60 days from the date of issue. If the product is not received within 60 days, a new RMA number must be issued.
- 4 The RMA number **must** appear on the outside of the package. Items received without an RMA number will be refused.
- 5 Freight for returns, except for products shipped in error by General Pump, is the customer's responsibility.
- 6 General Pump will repair or replace products qualified as defective under General Pump's warranty.
- 7 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.



Nozzle Chart

| NOZZLE SIZE | ORIFICE DIA. | 40 PSI | 100 PSI | 250 PSI | 500 PSI | 600 PSI | 700 PSI | 800 PSI | 1000 PSI | 1200 PSI | 1500 PSI | 2000 PSI | 2500 PSI | 3000 PSI | 3500 PSI | 4000 PSI | 5000 PSI |
|-------------|--------------|--------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 2 | .034 | 0.20 | 0.32 | 0.50 | 0.71 | 0.77 | 0.84 | 0.89 | 1.00 | 1.10 | 1.22 | 1.41 | 1.58 | 1.73 | 1.87 | 2.00 | 2.24 |
| 2.5 | .039 | 0.25 | 0.40 | 0.63 | 0.88 | 0.97 | 1.05 | 1.12 | 1.25 | 1.37 | 1.53 | 1.77 | 1.98 | 2.17 | 2.34 | 2.50 | 2.80 |
| 3 | .043 | 0.30 | 0.47 | 0.75 | 1.06 | 1.16 | 1.25 | 1.34 | 1.50 | 1.64 | 1.84 | 2.12 | 2.37 | 2.60 | 2.81 | 3.00 | 3.35 |
| 3.5 | .048 | 0.35 | 0.55 | 0.88 | 1.24 | 1.36 | 1.46 | 1.57 | 1.75 | 1.92 | 2.14 | 2.47 | 2.77 | 3.03 | 3.27 | 3.50 | 3.91 |
| 4 | .052 | 0.40 | 0.63 | 1.00 | 1.41 | 1.55 | 1.67 | 1.79 | 2.00 | 2.19 | 2.45 | 2.83 | 3.16 | 3.46 | 3.74 | 4.00 | 4.47 |
| 4.5 | .055 | 0.45 | 0.71 | 1.13 | 1.59 | 1.74 | 1.88 | 2.01 | 2.25 | 2.46 | 2.76 | 3.18 | 3.56 | 3.90 | 4.21 | 4.50 | 5.03 |
| 5 | .057 | 0.50 | 0.79 | 1.25 | 1.77 | 1.94 | 2.09 | 2.24 | 2.50 | 2.74 | 3.06 | 3.54 | 3.95 | 4.33 | 4.68 | 5.00 | 5.59 |
| 5.5 | .060 | 0.55 | 0.87 | 1.38 | 1.94 | 2.13 | 2.30 | 2.46 | 2.75 | 3.01 | 3.37 | 3.89 | 4.35 | 4.76 | 5.14 | 5.50 | 6.15 |
| 6 | .062 | 0.60 | 0.95 | 1.50 | 2.12 | 2.32 | 2.51 | 2.68 | 3.00 | 3.29 | 3.67 | 4.24 | 4.74 | 5.20 | 5.61 | 6.00 | 6.71 |
| 6.5 | .064 | 0.65 | 1.03 | 1.63 | 2.30 | 2.52 | 2.72 | 2.91 | 3.25 | 3.56 | 3.98 | 4.60 | 5.14 | 5.63 | 6.08 | 6.50 | 7.27 |
| 7 | .067 | 0.70 | 1.11 | 1.75 | 2.47 | 2.71 | 2.93 | 3.13 | 3.50 | 3.83 | 4.29 | 4.95 | 5.53 | 6.06 | 6.55 | 7.00 | 7.83 |
| 7.5 | .070 | 0.75 | 1.19 | 1.88 | 2.65 | 2.90 | 3.14 | 3.35 | 3.75 | 4.11 | 4.59 | 5.30 | 5.93 | 6.50 | 7.02 | 7.50 | 8.39 |
| 8 | .072 | 0.80 | 1.26 | 2.00 | 2.83 | 3.10 | 3.35 | 3.58 | 4.00 | 4.38 | 4.90 | 5.66 | 6.32 | 6.93 | 7.48 | 8.00 | 8.94 |
| 8.5 | .074 | 0.85 | 1.34 | 2.13 | 3.01 | 3.29 | 3.56 | 3.80 | 4.25 | 4.66 | 5.21 | 6.01 | 6.72 | 7.36 | 7.95 | 8.50 | 9.50 |
| 9 | .076 | 0.90 | 1.42 | 2.25 | 3.18 | 3.49 | 3.76 | 4.02 | 4.50 | 4.93 | 5.51 | 6.36 | 7.12 | 7.79 | 8.42 | 9.00 | 10.06 |
| 9.5 | .078 | 0.95 | 1.50 | 2.38 | 3.36 | 3.68 | 3.97 | 4.25 | 4.75 | 5.20 | 5.82 | 6.72 | 7.51 | 8.23 | 8.89 | 9.50 | 10.62 |
| 10 | .080 | 1.00 | 1.58 | 2.50 | 3.54 | 3.87 | 4.18 | 4.47 | 5.00 | 5.48 | 6.12 | 7.07 | 7.91 | 8.66 | 9.35 | 10.00 | 11.18 |
| 11 | .083 | 1.10 | 1.74 | 2.75 | 3.89 | 4.26 | 4.60 | 4.92 | 5.50 | 6.02 | 6.74 | 7.78 | 8.70 | 9.53 | 10.29 | 11.00 | 12.30 |
| 12 | .087 | 1.20 | 1.90 | 3.00 | 4.24 | 4.65 | 5.02 | 5.37 | 6.00 | 6.57 | 7.35 | 8.49 | 9.49 | 10.39 | 11.22 | 12.00 | 13.42 |
| 12.5 | .089 | 1.25 | 1.98 | 3.13 | 4.42 | 4.84 | 5.23 | 5.59 | 6.25 | 6.85 | 7.65 | 8.84 | 9.88 | 10.83 | 11.69 | 12.50 | 13.98 |
| 13 | .091 | 1.30 | 2.06 | 3.25 | 4.60 | 5.03 | 5.44 | 5.81 | 6.50 | 7.12 | 7.96 | 9.19 | 10.28 | 11.26 | 12.16 | 13.00 | 14.53 |
| 14 | .093 | 1.40 | 2.21 | 3.50 | 4.95 | 5.42 | 5.86 | 6.26 | 7.00 | 7.67 | 8.57 | 9.90 | 11.07 | 12.12 | 13.10 | 14.00 | 15.65 |
| 15 | .096 | 1.50 | 2.37 | 3.75 | 5.30 | 5.81 | 6.27 | 6.71 | 7.50 | 8.22 | 9.19 | 10.61 | 11.86 | 12.99 | 14.03 | 15.00 | 16.77 |
| 20 | .109 | 2.00 | 3.16 | 5.00 | 7.07 | 7.75 | 8.37 | 8.94 | 10.00 | 10.95 | 12.25 | 14.14 | 15.81 | 17.32 | 18.71 | 20.00 | 22.36 |
| 25 | .125 | 2.50 | 3.95 | 6.25 | 8.84 | 9.68 | 10.46 | 11.18 | 12.50 | 13.69 | 15.31 | 17.68 | 19.76 | 21.65 | 23.39 | 25.00 | 27.95 |
| 30 | .141 | 3.00 | 4.74 | 7.50 | 10.61 | 11.62 | 12.55 | 13.42 | 15.00 | 16.43 | 18.37 | 21.12 | 23.72 | 25.98 | 28.06 | 30.00 | 33.54 |
| 40 | .156 | 4.00 | 6.32 | 10.00 | 14.14 | 15.49 | 16.73 | 17.89 | 20.00 | 21.91 | 24.49 | 28.28 | 31.62 | 34.64 | 37.42 | 40.00 | 44.72 |
| 50 | .172 | 5.00 | 7.91 | 12.50 | 17.68 | 19.36 | 20.92 | 22.36 | 25.00 | 27.39 | 30.62 | 35.36 | 39.53 | 43.30 | 46.77 | 50.00 | 55.90 |
| 60 | .188 | 6.00 | 9.49 | 15.00 | 21.21 | 23.24 | 25.10 | 26.83 | 30.00 | 32.86 | 36.74 | 42.43 | 47.43 | 51.96 | 56.12 | 60.00 | 67.08 |

Nozzles

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

Horsepower

| | | |
|--|---|---------------------------------|
| $\frac{\text{GPM} \times \text{PSI}}{1460}$ | = | 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) |

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

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

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

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

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

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

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.



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