

GIANT

Performance Under Pressure

2024 Catalog



PUMPS ■ ACCESSORIES ■ CUSTOM UNITS ■ TOWELS

Our Vision, Mission & Core Values

We would like to share our vision, mission and core values with you.

Our Vision

Giant Industries develops professionals to their full potential by working as a team and partnering with our customers and suppliers to provide superior solutions.

Our Mission

Giant will create mutually beneficial partnerships with employees, customers and suppliers. In addition, we will supply high pressure pumps, accessories, towels as well as customized solutions. Finally, Giant will positively contribute to our community and the environment.

Our Core Values

Ethical – Doing the right thing

Trustworthy – Honest and Reliable

Accountable – Responsible for our actions (corporately and individually)

Respectful – Courteous interaction with others

Teamwork – Working together towards a common cause

Communication – Exchange of pertinent information

Perseverance – Determination to achieve our Mission

Motivated – Driven to accomplish our goals

Loyalty – Value our relationships with employees, customers and suppliers

Quality of Life – Enjoy our time

Giant Industries Celebrates

50 Years in Business

S e r v i n g I n d u s t r y s i n c e 1 9 7 2



In 1972, Ray Simon founded the Giant Towel Company. These towels were sold throughout North America to car wash OEM's and distributors. In the mid-1970's, Ray became the North American distributor for the German pump manufacturer Speck Kolbenpumpen Fabrik. Speck provided a unique line of pumps and accessories that gained quick acceptance for use by OEM's and distributors in the pressure washer, car wash and sewer cleaning markets. The high quality German pump products became popular in many industrial applications as well.

To complement the German-made pumps and accessories, and to address some unique requirements for pumps and accessories in the North American market, Giant started to build its own line of accessories, including shut-off guns, accumulators and unloaders. As Giant's products gained acceptance and the company expanded its product offerings, manufacturing requirements increased and the company acquired new facilities.

In the 1980's, Giant began to provide pump and motor units for the pressure washer market. At the same time, Giant started to make more axial pumps in Toledo, which required further expansion and another facility. This current facility has allowed Giant to bring in machining centers and production lines to meet market demands. At our current location, Giant manufactures axial and plunger pumps, pump systems and various towel products. As we continued to grow our manufacturing base, Giant was asked to supply more than just pumps, so it started to produce customer units and pump systems for a variety of applications. These custom units help our customers concentrate on what makes them profitable. With a gear end capable of handling 1500 HP, the Kamat line of German pumps and accessories allows Giant to provide pumps and pump systems with a volume exceeding 1200 GPM and pressures in excess of 50,000 PSI.

Part of Giant's mission is to create mutually beneficial partnerships. These relationships are at the heart of everything we do. However, they are not possible without the dedication of our employees, customers, suppliers and friends. We would like to thank all of those who work with us to make our success possible. We look forward to working with you in 2024 and beyond.



Performance Under Pressure

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Courtesy of The Blade

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2022 Giant Pump Quick Reference Chart

Base Pumps Only - For Specialty Applications Refer to Table of Contents
(Arranged by Flow - Gallons per Minute)

| Pump Model | Flow (GPM) | Pressure (PSI) | Speed (RPM) | Page # | Pump Model | Flow (GPM) | Pressure (PSI) | Speed (RPM) | Page # |
|------------|------------|----------------|-------------|--------|------------|------------|----------------|-------------|--------|
| P205 | 0.5 | 2500 | 1750 | 12 | LP800 | 4.6 | 11,600 | 1000 | 42 |
| P206 | 0.8 | 2500 | 1750 | 12 | P220 | 4.7 | 2500 | 1750 | 12 |
| P48 | 0.8 | 3000 | 1420 | 30 | P316 | 4.7 | 2750 | 1750 | 16 |
| P209 | 0.9 | 2000 | 1750 | 12 | P322 | 4.7 | 3000 | 1750 | 16 |
| P207 | 0.9 | 2500 | 1750 | 12 | P318 | 4.8 | 2000 | 1450 | 16 |
| P208 | 1.0 | 2500 | 1750 | 12 | P324 | 4.8 | 2200 | 1450 | 16 |
| P230 | 1.1 | 2500 | 1750 | 12 | P319 | 4.8 | 2750 | 3450 | 16 |
| P47 | 1.2 | 3000 | 1420 | 30 | P332 | 4.8 | 3000 | 1450 | 16 |
| P57 | 1.3 | 5000 | 1420 | 31 | P325 | 4.8 | 3045 | 3450 | 16 |
| P209 | 1.5 | 2500 | 1750 | 12 | GP5114 | 4.8 | 17,400 | 1000 | 56 |
| P226 | 1.5 | 3000 | 1750 | 12 | P55W | 4.9 | 2320 | 1420 | 33 |
| P228 | 1.8 | 2000 | 1750 | 12 | P58W | 5.0 | 3500 | 1450 | 32 |
| P217 | 1.8 | 2000 | 1750 | 12 | P485 | 5.3 | 7250 | 1450 | 20 |
| P210 | 1.8 | 2500 | 1750 | 12 | P334 | 5.5 | 2000 | 1450 | 16 |
| P227 | 2.1 | 2500 | 1750 | 12 | P455B | 5.5 | 4350 | 1450 | 22 |
| P211 | 2.1 | 2500 | 1750 | 12 | P450 | 5.5 | 5100 | 1450 | 22 |
| P221 | 2.3 | 2500 | 1750 | 12 | GP5116 | 5.5 | 15,000 | 850 | 56 |
| GXR Series | 2.4 | 2400 | 3450 | 8 | P456B | 5.8 | 5100 | 1725 | 22 |
| GX Series | 2.5 | 2500 | 3450 | 9 | P451 | 5.8 | 5100 | 1725 | 22 |
| P49 | 2.7 | 2200 | 1420 | 30 | LP900 | 6.0 | 8700 | 1000 | 42 |
| P327 | 2.9 | 3500 | 3450 | 16 | P56W | 6.1 | 1900 | 1420 | 33 |
| P223 | 3.0 | 3000 | 3450 | 12 | P465 | 6.3 | 5800 | 1450 | 20 |
| P414 | 3.1 | 10,150 | 1450 | 18 | P330 | 6.5 | 1000 | 3450 | 16 |
| P480 | 3.2 | 7250 | 1450 | 18 | P435 | 6.6 | 3625 | 1450 | 22 |
| LP1000 | 3.4 | 15,000 | 1000 | 42 | SP351W | 6.7 | 3200 | 1420 | 35 |
| P218 | 3.4 | 2500 | 1750 | 12 | P518 | 7.4 | 7250 | 1450 | 38 |
| P317 | 3.5 | 3350 | 1750 | 16 | P59W | 7.5 | 1900 | 1450 | 32 |
| P323 | 3.5 | 3685 | 1750 | 16 | LP700 | 7.9 | 7250 | 1000 | 43 |
| P340 | 3.7 | 4000 | 1750 | 16 | LP750 | 7.9 | 7250 | 1000 | 43 |
| P321 | 3.8 | 3500 | 3450 | 16 | P423 | 8.2 | 2900 | 1450 | 24 |
| P314 | 3.8 | 4000 | 3450 | 16 | MP4120 | 8.9 | 3625 | 1450 | 36 |
| P460 | 3.8 | 7250 | 1450 | 18 | SP200W | 9.6 | 2175 | 1420 | 35 |
| P46W | 3.9 | 2200 | 1420 | 30 | LP460 | 9.8 | 6000 | 1000 | 45 |
| P461 | 3.9 | 7250 | 1750 | 19 | LP600 | 9.8 | 6000 | 1000 | 44 |
| P54W | 4.0 | 4060 | 1450 | 32 | P422 | 9.9 | 3000 | 1450 | 24 |
| P328 | 4.1 | 3500 | 3450 | 16 | GP7122 | 9.9 | 10,000 | 750 | 64 |
| P329 | 4.1 | 4000 | 3450 | 16 | GP7522 | 9.9 | 10,150 | 750 | 68 |
| P219 | 4.2 | 2500 | 1750 | 12 | LP605 | 10.6 | 6090 | 1100 | 46 |
| LP462 | 4.6 | 7250 | 1750 | 19 | GP5120 | 10.6 | 8700 | 1000 | 57 |

2022 Giant Pump Quick Reference Chart

Base Pumps Only - For Specialty Applications Refer to Table of Contents
(Arranged by Flow - Gallons per Minute)

| Pump Model | Flow (GPM) | Pressure (PSI) | Speed (RPM) | Page # | Pump Model | Flow (GPM) | Pressure (PSI) | Speed (RPM) | Page # |
|--------------|------------|----------------|-------------|--------|---|------------|----------------|-------------|--------|
| P425 | 10.7 | 2465 | 1450 | 24 | P541 | 35.4 | 1450 | 1450 | 40 |
| SP100W | 11.2 | 1885 | 1420 | 35 | GP6140 | 36.7 | 2175 | 800 | 63 |
| GP5122 | 11.9 | 7250 | 930 | 57 | GP8040/8140 | 39.6 | 5500 | 580 | 74/75 |
| LP470 | 12.2 | 4640 | 1000 | 45 | GP7142 | 38.4 | 2610 | 700 | 67 |
| GP7622 | 12.7 | 15,000 | 800 | 70 | GP5142 | 40.4 | 1885 | 800 | 58 |
| GP7124A-4000 | 12.8 | 7400 | 750 | 64 | GP5145 | 43.5 | 1450 | 750 | 58 |
| P420A | 12.8 | 2175 | 1450 | 24 | GP6145 | 46.5 | 1740 | 800 | 63 |
| MP4124 | 12.8 | 3000 | 1450 | 36 | GP7145 | 47.5 | 3000 | 750 | 67 |
| GP6124 | 12.8 | 6090 | 800 | 62 | GP8045/8145 | 48.8 | 4350 | 580 | 77/79 |
| GP5124 | 13.2 | 5800 | 850 | 57 | GP7150 | 54.4 | 1900 | 700 | 67 |
| MP4135 | 13.5 | 1885 | 1100 | 36 | GP7645 | 55.5 | 3000 | 800 | 71 |
| LP301A | 14.2 | 4000 | 1000 | 47 | GP8048/8148 | 56.3 | 3770 | 580 | 77/79 |
| LP400 | 15.1 | 3600 | 1000 | 50 | GP7155 | 65.8 | 1500 | 700 | 67 |
| MP4130 | 15.4 | 2000 | 1100 | 36 | GP7255A | 65.8 | 1500 | 700 | 67 |
| P490 | 15.7 | 2000 | 1450 | 26 | GP7650 | 69.7 | 2540 | 800 | 71 |
| LP305 | 15.9 | 4060 | 1100 | 46 | GP8055/8155 | 75.3 | 3000 | 580 | 77/79 |
| MP4126 | 17.9 | 1600 | 1100 | 36 | GP7655 | 84.5 | 2000 | 800 | 71 |
| GP7128 | 17.9 | 5800 | 750 | 65 | GP8060/8160 | 90.0 | 2465 | 580 | 77/79 |
| GP6128 | 18.0 | 4350 | 800 | 62 | GP8065/8165 | 105.7 | 2000 | 580 | 77/79 |
| P470 | 18.4 | 2000 | 1450 | 26 | GP8076/8176 | 132.0 | 1500 | 520 | 77/79 |
| LP200 | 19.0 | 2900 | 1000 | 51 | | | | | |
| LP450 | 19.7 | 2600 | 1000 | 50 | KAMAT PUMPS | | | | |
| GP5128 | 20.6 | 4060 | 1000 | 58 | K100A | 1.8* | 29,000* | 1000 | 121 |
| LP350 | 22.6 | 2300 | 1000 | 50 | K4500-3G | 61.3* | 43,511* | 650 | 122 |
| P533 | 22.7 | 2175 | 1450 | 39 | K8000-3G | 74.8* | 50,764* | 530 | 123 |
| GP7132 | 23.4 | 4350 | 750 | 65 | K9000-3G | 74.8* | 45,543* | 530 | 124 |
| GP6132 | 23.5 | 3045 | 800 | 63 | K11000-3G | 119.9* | 38,653* | 435 | 125 |
| P532 | 24.4 | 2175 | 1450 | 39 | K18000-3G | 137.9* | 50,764* | 500 | 126 |
| LP255 | 25.7 | 2175 | 1000 | 54 | K25000-3G | 303.3* | 46,195* | 450 | 127 |
| LP250 | 26.0 | 2200 | 1000 | 51 | K45000-3G | 345.8* | 50,764* | 440 | 128 |
| P536 | 26.4 | 1740 | 1450 | 39 | K55000-5G | 505.4* | 50,764* | 450 | 129 |
| GP5132 | 27.7 | 2900 | 1000 | 58 | K100000-5G | 919.9* | 50,764* | 440 | 130 |
| GP7136 | 28.3 | 3625 | 750 | 65 | K150000-5G | 1235.5* | 50,764* | 320 | 131 |
| GP8035/8135 | 29.1 | 7250 | 580 | 74/75 | *Maximum flow and pressure given. Given flows and pressures can not be combined. Please refer to product page for possible flow and pressure combinations. | | | | |
| LP121A | 32.5 | 1740 | 1000 | 51 | | | | | |
| GP5136 | 33.8 | 2320 | 910 | 58 | | | | | |
| LP122A | 35.4 | 1300 | 800 | 54 | | | | | |
| LP123 | 35.4 | 1300 | 800 | 54 | | | | | |
| P540 | 35.4 | 1450 | 1450 | 39 | | | | | |

Aqua Towel

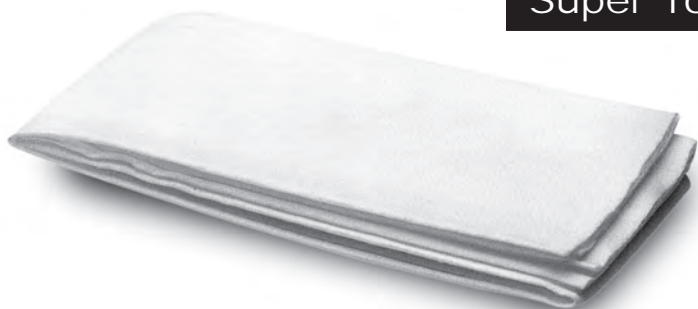
Strong enough to hold up to heavy wiping.
Long lasting, highly absorbent, lint free.

Product #T50BB (18" x 27")
Packed 180 per case
Shipping weight: 711 lbs.
70 Boxes per Pallet

Product #T25BB (18" x 17.5")
(Wrapped Towel/Lemon Scented)
Packed 360 per case
Shipping weight: 495 lbs.
36 Boxes per Pallet



Super Towel



Luxurious thickness,
full-bodied towel.

The Giant of all towels.

Product #T2000S (19" x 27")
Packed 180 per case
Shipping weight: 404 lbs.
36 Boxes per Pallet

Moistwipe

One step pre-moistened cloth
like towel, dries without streaking,
Lemon fresh scent.

Product #T-3000 (12" x 11.5")
(Wrapped Towel/Lemon Scented)
Packed 180 per case
Shipping weight: 1025 lbs.
96 Boxes per Pallet



T5000

Complete car care package.

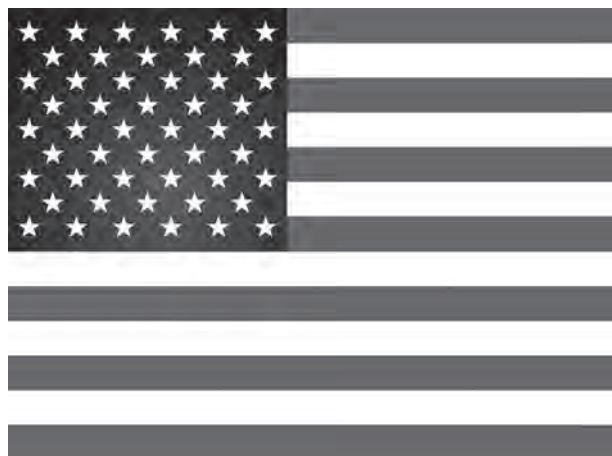
Product #T5000 (12" x 11.5")
(Wrapped Towel/Lemon Scented)
Packed 100 per case
Shipping weight: 14 lbs.
36 Boxes per Pallet



Contact your local Giant distributor for current pricing.

COMMERCIAL PUMPS

(pages 8-17)



GXR Series

List Price \$320.00

**GXR Vertical or Horizontal Pump with Regulator
Includes Siphon Injector, Thermal Relief Valve &
Engine Mounting Accessories**



U.S. (Metric)

GXR2224

Flow 2.2 GPM.....(8.3 LPM)
Pressure2400 PSI..... (165 Bar)
Speed 3450 RPM

GXR2424

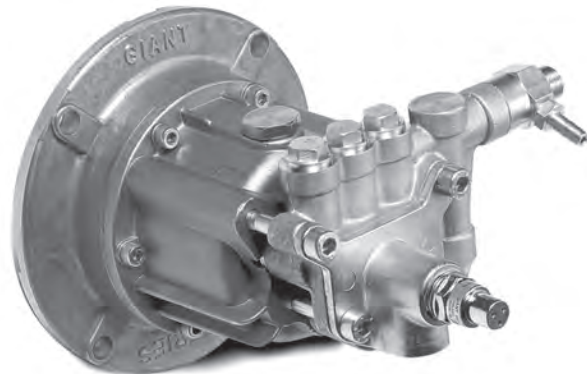
Flow 2.4 GPM.....(9.0 LPM)
Pressure2400 PSI..... (165 Bar)
Speed 3450 RPM

Common Specifications & Materials

| | U.S. | (Metric) |
|----------------------|------------|----------|
| Max Inlet Temp | 80 °F..... | (27 °C) |
| Weight | 9 lbs..... | (4.1 kg) |
| Inlet Port | 1/2" NPT | |
| Discharge Port..... | 3/8" NPT | |

Materials Used

| | |
|-----------------|---------------------------------|
| Manifold..... | Brass |
| Plunger | Stainless Steel |
| Valves..... | Polyamide |
| Seals..... | Nitrile with fabric reinforcing |
| Crankcase | Aluminum |



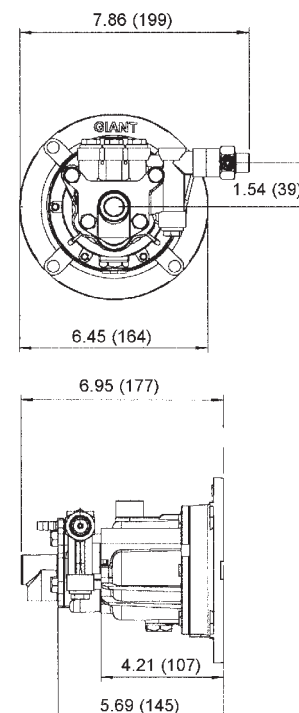
Repair Kits

| Kit | Part Number | List Price |
|----------------------|-------------|------------|
| Plunger Packing Kit | 09465 | \$33.10 |
| Valve Kit | 09466 | \$12.99 |
| Oil Seal Kit | 09468 | \$8.53 |
| Regulator Repair Kit | 09534 | \$11.24 |

Mounting Accessories

| | Part Number | List Price |
|--------------------------------|-------------|------------|
| Gas Engine (3.62" Bolt Circle) | 09103 | \$15.18 |
| Electric Motor - | | |
| (5/8" w/NEMA 56C Face) | 09134 | \$55.44 |

GXR DIMENSIONS - INCHES (mm)



GX2525

List Price \$350.00

GX2525A*

List Price \$395.00

GX Vertical or Horizontal Pump with Unloader Includes Siphon Injector, Thermal Relief Valve & Engine Mounting Accessories



* Pump with 7/8" steel shaft - retrofit pump for
Ex-cell XR Series pressure washers

U.S. (Metric)

GX2525/ GX2525A*

Flow 2.5 GPM.....(9.5 LPM)
Pressure2500 PSI.....(172 Bar)
Speed3450 RPM
Horsepower: 4.3 BHP..... (3.2 kW)



Common Specifications & Materials

U.S. (Metric)
Max Inlet Temp 80 °F(27 °C)
Weight 9 lbs.(4.1 kg)
Inlet Port1/2" NPT
Discharge Port.....3/8" NPT

Materials Used

ManifoldBrass
Plunger Stainless Steel
Valves Polyamide
Seals.....Nitrile with fabric reinforcing
CrankcaseAluminum

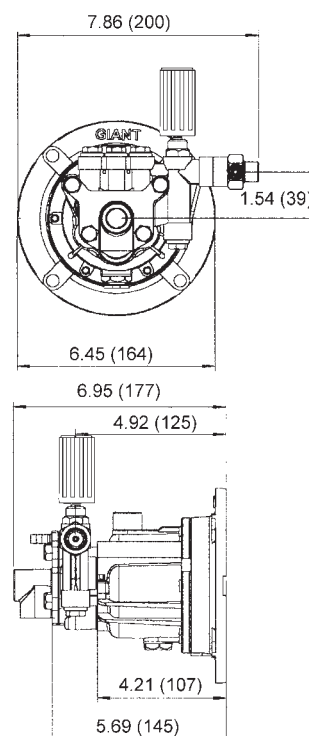
Repair Kits

| Kit | Part Number | List Price |
|---------------------|-------------|------------|
| Plunger Packing Kit | 09465 | \$33.10 |
| Valve Kit | 09466 | \$12.99 |
| Oil Seal Kit | 09468 | \$8.53 |
| Unloader Repair Kit | 09467 | \$11.24 |

Mounting Accessories

| | Part Number | List Price |
|--------------------------------|-------------|------------|
| Gas Engine (3.62" Bolt Circle) | 09103 | \$15.18 |
| Gas Engine | | |
| (GX2525A* 3.62" Bolt Circle) | 09605 | \$21.41 |
| Electric Motor Kit - | | |
| (5/8" w/ NEMA 56C Face) | 09134 | \$55.44 |

GX DIMENSIONS - INCHES (mm)



GIANT

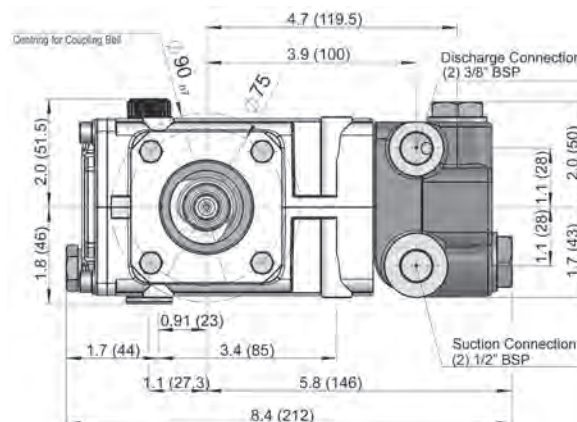


U.S. (Metric)

Materials Used

Repair Kits

P200 DIMENSIONS - INCHES (mm)



| Part Number | List Price |
|----------------|---------------|
|----------------|---------------|

Giant Industries, Inc.

P200 Series

Direct Drive



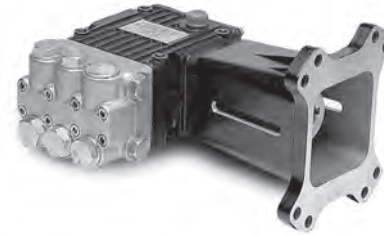
Electric Drive

| Part Number | Connection to Electric Motor Type | List Price |
|-------------|-----------------------------------|------------|
| 01155 | NEMA 56C | \$32.60 |
| 06495 | NEMA 182TC, 184TC, 213TC, 215TC | \$59.77 |
| 01130 | IEC B5 | \$110.00 |



Gas Drive

| Part Number | Connection to Engine Type | List Price |
|-----------------------|--|--------------------|
| 01155 & 09103 | Adapts pump to most 3.5, 4.0, 5.5, 6.5 HP gas engines with a 3.62" bolt circle | \$32.60 \$15.18 |
| 06478 | Fits gas engines with J609B mounting | \$92.37 |
| Gear Boxes for | | |
| 08499A | Gearbox, J609B | \$595.00 |



One-Piece Couplings

| Item | Description | List Price U.S \$ |
|----------|---|-------------------|
| 08485P | Delrin Coupling, 1" x 1/4" keyway x 24mm (includes short shaft kit) | \$59.85 |
| 08487P | Delrin Coupling, 1-1/8" x 1/4" keyway x 24mm (includes short shaft kit) | \$59.85 |
| 08489P | Delrin Coupling, 1-3/8" x 1/4" keyway x 24mm (includes short shaft kit) | \$59.85 |
| 08494P | Delrin Coupling, 5/8" x 3/16" keyway x 24mm | \$59.85 |
| 08496P | Delrin Coupling, 3/4" x 3/16" keyway x 24mm | \$59.85 |
| 06505-XX | Aluminum Couplers 24mm x 5/8" to 1-3/8" | \$26.30 |



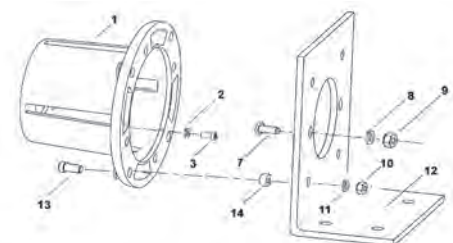
L-Jaw Coupler Sets

| Part Number | Size | Bore Diameters | Weight lbs. (kg) | List Price U.S \$ |
|--------------------|------|----------------|------------------|-------------------|
| 03400-L099-24-1 | L099 | 24mm x 1" | 2.25 (1.0) | \$451.00 |
| 03400-L099-24-1.18 | L099 | 24mm x 1-1/8" | 2.25 (1.0) | \$451.00 |
| 03400-L100-24-1 | L100 | 24mm x 1" | 2.8 (1.3) | \$537.95 |
| 03400-L100-24-1.18 | L100 | 24mm x 1-1/8" | 2.8 (1.3) | \$537.95 |
| 03400-L100-24-1.38 | L100 | 24mm x 1-3/8" | 2.8 (1.3) | \$532.50 |
| 03400-L099-24-0.58 | L099 | 24mm x 5/8" | 2.8 (1.3) | \$451.00 |
| 03400-L099-24-0.75 | L099 | 24mm x 3/4" | 2.8 (1.3) | \$451.00 |
| 03400-L099-24-0.78 | L099 | 24mm x 7/8" | 2.8 (1.3) | \$451.00 |
| 03400-L099-24-24 | L099 | 24mm x 24mm | 2.8 (1.3) | \$451.00 |



Hydraulic Kit

| Part Number | | List Price |
|-------------|--|------------|
| HK-P2/300 | Adapts to SAE - "A" 2 Bolt hydraulic motor | \$173.90 |



P200 Series

GIANT



| Model | Flow | Pressure Continuous/ Intermittent | Speed | Power Required | Plunger Diameter | Stroke | Price |
|-------|------------|---|-------|-------------------|---------------------|-------------|----------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| P205 | 0.38 (1.4) | 2000 (140) / 2500 (170) | 1750 | 0.7 (0.5) | 0.47 (12) | 0.13 (3.4) | \$860.00 |
| P206 | 0.74 (2.5) | 2000 (140) / 2500 (170) | 1750 | 1.4 (1.0) | 0.47 (12) | 0.22 (5.5) | \$860.00 |
| P205 | 0.8 (2.8) | 2000 (140) | 3450 | 1.1 (0.8) | 0.47 (12) | 0.13 (3.4) | \$860.00 |
| P207 | 0.9 (3.4) | 2000 (140) / 2500 (170) | 1750 | 1.6 (1.2) | 0.47 (12) | 0.25 (6.3) | \$860.00 |
| P225 | 0.9 (3.4) | 2000 (140) / 3000 (200) | 1750 | 1.9 (1.4) | 0.63 (16) | 0.13 (3.4) | \$860.00 |
| P208 | 1.0 (3.8) | 2000 (140) / 2500 (170) | 1750 | 1.7 (1.3) | 0.47 (12) | 0.28 (7.0) | \$860.00 |
| P230 | 1.1 (4.2) | 2000 (140) / 2500 (170) | 1750 | 1.90 (1.42) | 0.71 (18) | 0.13 (3.4) | \$860.00 |
| P206 | 1.5 (5.6) | 2000 (140) | 3450 | 2.3 (1.7) | 0.47 (12) | 0.22 (5.5) | \$860.00 |
| P209 | 1.5 (5.7) | 2000 (140) / 2500 (170) | 1750 | 2.59 (1.93) | 0.47 (12) | 0.39 (10) | \$860.00 |
| P226 | 1.5 (5.7) | 2000 (140) / 3000 (200) | 1750 | 3.5 (2.6) | 0.63 (16) | 0.22 (5.5) | \$860.00 |
| P207 | 1.7 (6.4) | 2000 (140) | 3450 | 2.2 (1.6) | 0.47 (12) | 0.25 (6.3) | \$860.00 |
| P223 | 1.7 (6.4) | 2000 (140) / 3000 (200) | 1750 | 3.5 (2.6) | 0.63 (16) | 0.25 (6.3) | \$860.00 |
| P217 | 1.8 (6.8) | 2000 (140) / 2500 (170) | 1750 | 3.1 (2.3) | 0.71 (18) | 0.22 (5.5) | \$860.00 |
| P210 | 1.8 (6.8) | 2000 (140) / 2500 (170) | 1750 | 3.1 (2.3) | 0.47 (12) | 0.49 (12.4) | \$860.00 |
| P228 | 1.8 (6.8) | 2000 (140) / 3000 (200) | 1750 | 3.7 (2.8) | 0.63 (16) | 0.28 (7.0) | \$860.00 |
| P225 | 1.8 (6.8) | 2000 (140) | 3450 | 2.5 (1.9) | 0.63 (16) | 0.13 (3.4) | \$860.00 |
| P208 | 1.9 (7.2) | 2000 (140) / 2500 (170) | 3450 | 2.5 (1.9) | 0.47 (12) | 0.28 (7.0) | \$860.00 |
| P230 | 2.0 (7.6) | 2000 (140) / 2500 (170) | 3450 | 3.5 (2.6) | 0.71 (18) | 0.13 (3.4) | \$860.00 |
| P227 | 2.1 (8.0) | 2000 (140) / 2500 (170) | 1750 | 3.6 (2.7) | 0.71 (18) | 0.25 (6.3) | \$860.00 |
| P211 | 2.1 (7.9) | 2000 (140) / 2500 (170) | 1750 | 3.6 (2.7) | 0.47 (12) | 0.56 (14.2) | \$860.00 |
| P221 | 2.3 (8.9) | 2000 (140) / 2500 (170) | 1750 | 4.0 (3.0) | 0.71 (18) | 0.28 (7.0) | \$860.00 |
| P209 | 2.7 (10.2) | 2000 (140) | 3450 | 3.8 (2.8) | 0.47 (12) | 0.39 (10.0) | \$860.00 |
| P223 | 3.0 (11.4) | 2000 (140) / 3000 (200) | 3450 | 6.2 (4.6) | 0.63 (16) | 0.64 (6.3) | \$860.00 |
| P217 | 3.3 (12.5) | 2000 (140) / 2500 (170) | 3450 | 5.7 (4.3) | 0.71 (18) | 0.22 (5.5) | \$860.00 |
| P210 | 3.3 (12.5) | 2000 (140) | 3450 | 4.6 (3.4) | 0.47 (12) | 0.49 (12.4) | \$860.00 |
| P228 | 3.3 (12.5) | 2000 (140) | 3450 | 6.9 (5.2) | 0.63 (16) | 0.28 (7.0) | \$860.00 |
| P218 | 3.4 (12.9) | 2000 (140) / 2500 (170) | 1750 | 5.9 (4.4) | 0.71 (18) | 0.39 (10) | \$860.00 |
| P211 | 3.8 (14.4) | 2000 (140) | 3450 | 7.2 (5.4) | 0.47 (12) | 0.56 (12.4) | \$860.00 |
| P227 | 3.8 (14.4) | 2000 (140) / 2500 (170) | 3450 | 6.6 (4.9) | 0.71 (18) | 0.25 (6.3) | \$860.00 |
| P219 | 4.2 (15.9) | 2000 (140) / 2500 (170) | 1750 | 7.2 (5.4) | 0.71 (18) | 0.49 (12.4) | \$860.00 |
| P221 | 4.2 (15.9) | 2000 (140) / 2500 (170) | 3450 | 7.2 (5.4) | 0.71 (18) | 0.28 (7.0) | \$860.00 |
| P220 | 4.7 (17.8) | 2000 (140) / 2500 (170) | 1750 | 8.1 (6.0) | 0.71 (18) | 0.56 (14.1) | \$860.00 |

P200 Series Numbering Chart



| | Pump | LH/RH | DRIVE | SHAFT | BACKEND | UNLOADER | INJECTOR SIZE | THERMAL | OIL | |
|------------------------|--|--|---|-------|-------------------------|-------------------------|--|-----------------------|-----|----------|
| Pump Model | P205 | 0.38 GPM @ 2000 PSI @ 1750 RPM and 0.8 GPM @ 2500 PSI @ 3450 RPM | | | | | | | | |
| | P206 | 0.74 GPM @ 2000 PSI @ 1750 RPM and 1.5 GPM @ 2500 PSI @ 3450 RPM | | | | | | | | |
| | P207 | 0.9 GPM @ 2000 PSI @ 1750 RPM and 1.7 GPM @ 2000 PSI @ 3450 RPM | | | | | | | | |
| | P225 | 0.9 GPM @ 2000 PSI @ 1750 RPM and 1.8 GPM @ 2000 PSI @ 3450 RPM | | | | | | | | |
| | P208 | 1.0 GPM @ 2000 PSI @ 1750 RPM and 1.9 GPM @ 2500 PSI @ 3450 RPM | | | | | | | | |
| | P230 | 1.1 GPM @ 2500 PSI @ 1750 RPM and 2.0 GPM @ 2500 PSI @ 3450 RPM | | | | | | | | |
| | P209 | 1.5 GPM @ 2000 PSI @ 1750 RPM and 2.7 GPM @ 2500 PSI @ 3450 RPM | | | | | | | | |
| | P226 | 1.5 GPM @ 2000 PSI @ 1750 RPM | | | | | | | | |
| | P223 | 1.7 GPM @ 2000 PSI @ 1750 RPM and 3.0 GPM @ 3000 PSI @ 3450 RPM | | | | | | | | |
| | P210 | 1.8 GPM @ 2000 PSI @ 1750 RPM and 3.3 GPM @ 2000 PSI @ 3450 RPM | | | | | | | | |
| | P217 | 1.8 GPM @ 2000 PSI @ 1750 RPM and 3.3 GPM @ 2500 PSI @ 3450 RPM | | | | | | | | |
| | P228 | 1.8 GPM @ 3000 PSI @ 1750 RPM | | | | | | | | |
| | P211 | 2.1 GPM @ 2000 PSI @ 1750 RPM and 3.8 GPM @ 2000 PSI @ 3450 RPM | | | | | | | | |
| | P227 | 2.1 GPM @ 2500 PSI @ 1750 RPM | | | | | | | | |
| | P221 | 2.3 GPM @ 2000 PSI @ 1750 RPM and 4.2 GPM @ 2500 PSI @ 3450 RPM | | | | | | | | |
| | P218 | 3.4 GPM @ 2500 PSI @ 1750 RPM | | | | | | | | |
| P219 | 4.2 GPM @ 2500 PSI @ 1750 RPM | | | | | | | | | |
| P220 | 4.7 GPM @ 2500 PSI @ 1450 RPM | | | | | | | | | |
| Shaft Side | LH Shaft | L | | | | | | | | |
| | RH Shaft | R | | | | | | | | |
| Electric Motor | (56C) 5 7/8" or 5.11" dia. | E1 | (1) 01155 / (4) 01176A-1 / (4) 01176-2 (Ass. Parts 06773, (4) 07435) | | | | | | | |
| | (TC Face) 7 1/4" dia. Bolts | E2 | (1) 06495 / (4) 01176A-1 / (4) 01176-2 (Ass. Parts 06773, (4) 07803) | | | | | | | |
| Gas Motor | (Under 9HP) 3-5/8" dia. Bolts | G1 | (1) 01155 / (4) 01176A-1 / (4) 01176-2 (Ass. Parts 06773, (4) 07435 & (1) 09103) | | | | | | | |
| | (9HP & More) 6.5" dia. Bolts | G2 | (1) 06478 / (4) 01176A-1 / (4) 01176-2 (Ass. Parts 06773, (4) 07804 & (4) 13129 | | | | | | | |
| | (9HP & More) 6.5" dia. Bolts | B1 | (1) 08499A | | | | | & (4) 13445 if needed | | |
| | (16HP & More) 6.5" dia. Bolts | B2 | (1) 08980 or (1) 08981 | | | | | | | |
| Coupler Size | 5/8" Aluminum = 06505-0.6 | B | (1) 06299 AND (1) 06332 with Each Aluminum Coupler ***** (1) 06332 with each plastic coupler | | | | | | | |
| | 5/8" Delrin = 08494P | I | | | | | | | | |
| | 3/4" Aluminum = 06505-0.7 | C | | | | | | | | |
| | 3/4" Delrin = 08496P | J | | | | | | | | |
| | 7/8" Aluminum = 06505-0.8 | D | | | | | | | | |
| | 24mm Aluminum = 06505-24 | M | | | | | | | | |
| | 1" Aluminum = 06505-1.0 | E | | | | | | | | |
| | 1" Delrin = 08485P | K | | | | | | | | |
| | 1 1/8" Aluminum = 06505-1.1 | F | | | | | | | | |
| | 1 1/8" Delrin = 08487P | L | | | | | | | | |
| | 1 3/8" Aluminum = 04393-1.3 | H | | | | | | | | |
| | 1 3/8" Delrin = 08489P | N | | | | | | | | |
| Backend | Extended | 08302-L(P200) | | | (4) 01196 / (4) 01176-2 | | | | | |
| | Short Backend | 08302(P200) | | | X | (4) 07188 / (4) 01176-2 | | | | |
| Unloader/ Regulator | No Unloader/Regulator | | | | | | For Regulators, add "R" For Regulators, add "R" | | | |
| | Unloader/Regulator | | | | | 23270 (P200) | | | | U or R |
| | Unloader (Side of Shaft) | | | | | 23270 (P200) | | | | US or RS |
| Siphon Injector | 1.8mm (Fixed) | | | | | 23750-1.8 | | 2 | | |
| | 2.1mm (Fixed) | | | | | 23750-2.1 | | 3 | | |
| | 2.3mm (Fixed) | | | | | 23750-2.3 | | 4 | | |
| | 1.8mm (Adjustable) | | | | | 23750-1.8A | | 6 | | |
| | 2.1mm (Adjustable) | | | | | 23750-2.1A | | 7 | | |
| | 2.3mm (Adjustable) | | | | | 23750-2.3A | | 8 | | |
| Thermal | Thermal (Blank if No Thermal Relief Valve) | | | | | | 23422B (1/2") | | T | |
| Oil | 7.5 ounces for short gear ends / 9.0 ounces for long gear ends | | | | | | | | O | |

NOTE: Pumps without Bell Housing to include (1) 01067 Associated parts

Method: Follow "shaded" boxes to follow the part number. Corresponding items included, next to the box.



| | U.S. | (Metric) |
|----------------------|-------------|-----------------|
| Max Inlet Temp | 160 °F | (71 °C) |
| Weight | 16 lbs. | (7.3 kg) |
| Inlet Port | (2) 1/2" | BSP |
| Discharge Port | (2) 3/8" | BSP |

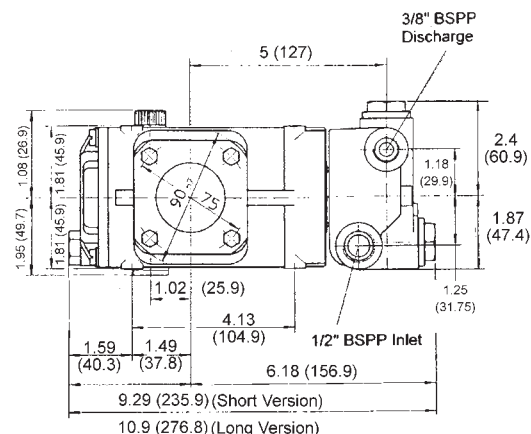
| | |
|-----------------|---------------------------------|
| Manifold | Brass |
| Plunger | Solid ceramic oxide |
| Valves | Stainless Steel |
| Seals | Nitrile with fabric reinforcing |
| Crankcase | Aluminum |



| Kit | Part Number | List Price |
|--|-------------|------------|
| Plunger Packing Kit (12mm) (P314/P321) | 09152 | \$106.29 |
| Plunger Packing Kit (18mm) (P316/P317/P319/P322/P323/P325) | 09119 | \$104.31 |
| Plunger Packing Kit (20mm) (P318/P324) | 09145 | \$87.31 |
| Plunger Packing Kit (16mm) (P340) | 09507 | \$222.85 |
| Valve Kit | 09116 | \$97.19 |
| Oil Seal Kit | 09144 | \$8.26 |

| | Part Number | List Price |
|--|-------------|------------|
| Bushings | | |
| 24mm Tapered H Bushing | 01074 | \$28.80 |
| Pulleys | | |
| 7.75" Cast Iron 1 gr. -AB | 01061 | \$131.85 |
| 7.75" Cast Iron 2 gr. -AB | 01062 | \$274.20 |
| Steel Box Rails (L=9.25"xW=1.18"xH=1.62") | 01034 | \$173.90 |
| Plated Steel Channel Rails (L=5.75"xW=1.00"xH=2.50") | 01161 | \$49.85 |
| Plated Steel Channel Rails (L=5.75"xW=1.00"xH=2.50") | 01162 | \$72.55 |

Technical drawing of the front view of a 4-cylinder engine block. The drawing shows four cylinders in a row. Dimensions are given in millimeters and inches. Key dimensions include: overall width 5.43 (137.9), distance between feet 4.72 (119.8), and overall height 1.49 (37.8). A note indicates an 8 mm wide Key (DIN 6888).



P300 Series

Direct Drive



Electric Drive

| Part Number | Connection to Electric Motor Type | List Price |
|-------------|-----------------------------------|------------|
| 01155 | NEMA 56C | \$32.60 |
| 06495 | NEMA 182TC, 184TC, 213TC, 215TC | \$59.77 |
| 01130 | IEC B5 | \$110.00 |



06495

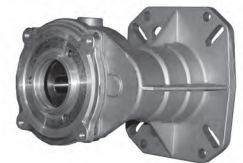


Gas Drive

| Part Number | Connection to Engine Type | List Price |
|-----------------------|--|--------------------|
| 01155 & 09103 | Adapts pump to most 3.5, 4.0, 5.5, 6.5 HP gas engines with a 3.62" bolt circle | \$32.60 \$15.18 |
| 06478 | Fits gas engines with J609B mounting | \$92.37 |
| Gear Boxes for | | |
| 08499A | Gearbox, J609B | \$595.00 |



06478



08499A

One-Piece Couplings

| Item | Description | List Price U.S \$ |
|----------|---|-------------------|
| 08485P | Delrin Coupling, 1" x 1/4" keyway x 24mm (includes short shaft kit) | \$59.85 |
| 08487P | Delrin Coupling, 1-1/8" x 1/4" keyway x 24mm (includes short shaft kit) | \$59.85 |
| 08489P | Delrin Coupling, 1-3/8" x 1/4" keyway x 24mm (includes short shaft kit) | \$59.85 |
| 08494P | Delrin Coupling, 5/8" x 3/16" keyway x 24mm | \$59.85 |
| 08496P | Delrin Coupling, 3/4" x 3/16" keyway x 24mm | \$59.85 |
| 06505-XX | Aluminum Couplers 24mm x 5/8" to 1-3/8" | \$26.30 |



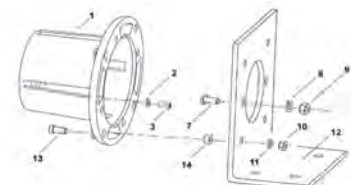
L-Jaw Coupler Sets

| Part Number | Size | Bore Diameters | Weight lbs. (kg) | List Price U.S \$ |
|--------------------|------|----------------|------------------|-------------------|
| 03400-L099-24-1 | L099 | 24mm x 1" | 2.25 (1.0) | \$451.00 |
| 03400-L099-24-1.18 | L099 | 24mm x 1-1/8" | 2.25 (1.0) | \$451.00 |
| 03400-L100-24-1 | L100 | 24mm x 1" | 2.8 (1.3) | \$537.95 |
| 03400-L100-24-1.18 | L100 | 24mm x 1-1/8" | 2.8 (1.3) | \$537.95 |
| 03400-L100-24-1.38 | L100 | 24mm x 1-3/8" | 2.8 (1.3) | \$532.50 |
| 03400-L099-24-0.58 | L099 | 24mm x 5/8" | 2.8 (1.3) | \$451.00 |
| 03400-L099-24-0.75 | L099 | 24mm x 3/4" | 2.8 (1.3) | \$451.00 |
| 03400-L099-24-0.78 | L099 | 24mm x 7/8" | 2.8 (1.3) | \$451.00 |
| 03400-L099-24-24 | L099 | 24mm x 24mm | 2.8 (1.3) | \$451.00 |



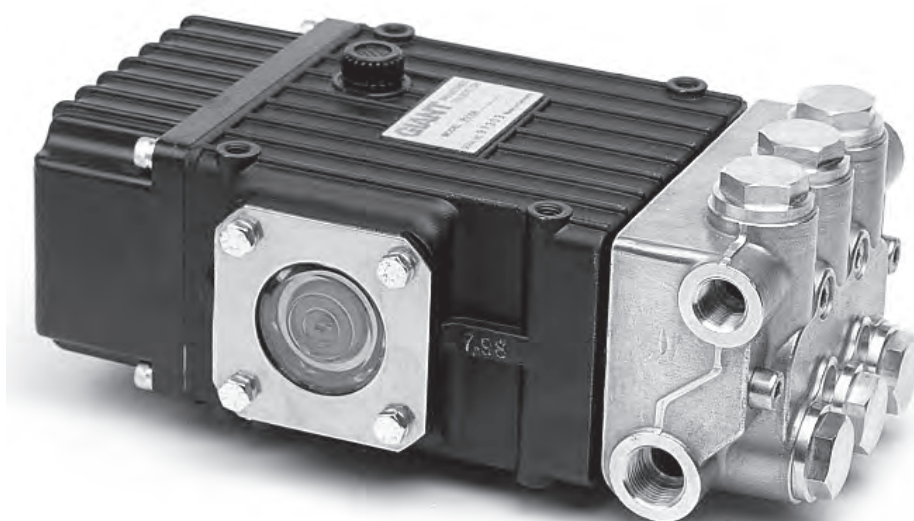
Hydraulic Kit

| Part Number | | List Price |
|-------------|--|------------|
| HK-P2/300 | Adapts to SAE - "A" 2 Bolt hydraulic motor | \$173.90 |



P300 Series

GIANT



| Model | Flow | Pressure Continuous/ Intermittent | Speed | Power Required | Plunger Diameter | Stroke | Price |
|-------|------------|---|-------|--------------------------|---------------------|-------------|------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| P327 | 2.9 (11.0) | 3500 (240)/ 4000 (275) | 3450 | 7.0 (5.2)/ 8.0 (6.0) | 0.47 (12) | 0.42 (10.6) | \$925.00 |
| P317 | 3.5 (13.2) | 3045 (210) / 3350 (230) | 1750 | 8.1 (6.0) | 0.71 (18) | 0.42 (10.6) | \$900.00 |
| P323 | 3.5 (13.2) | 3685 (255) | 1750 | 8.9 (6.6) | 0.71 (18) | 0.42 (10.6) | \$925.00 |
| P340 | 3.7 (14.0) | 3500 (240) / 4000 (275) | 1750 | 10.2 (7.6) | 0.63 (16) | 0.56 (14.1) | \$925.00 |
| P321 | 3.8 (14.4) | 3200 (220)/ 3500 (240) | 3450 | 8.4 (6.3)/ 9.2 (6.9) | 0.47 (12) | 0.56 (14.1) | \$900.00 |
| P314 | 3.8 (14.4) | 3500 (240)/ 4000 (275) | 3450 | 9.2 (6.9)/ 10.5 (7.8) | 0.47 (12) | 0.56 (14.1) | \$925.00 |
| P316 | 4.0 (15.1) | 3045 (210) / 3350 (230) | 1450 | 9.2 (6.9) | 0.71 (18) | 0.56 (14.1) | \$900.00 |
| P322 | 4.0 (15.1) | 3500 (240) | 1450 | 9.7 (7.2) | 0.71 (18) | 0.56 (14.1) | \$925.00 |
| P328 | 4.1 (15.5) | 3200 (220) / 3500 (240) | 3450 | 9.9 (7.4) | 0.63 (16) | 0.31 (8.0) | \$900.00 |
| P329 | 4.1 (15.5) | 3500 (240) / 4000 (275) | 3450 | 11.3 (8.4) | 0.63 (16) | 0.31 (8.0) | \$925.00 |
| P316 | 4.7 (17.8) | 2500 (170) / 2750 (190) | 1750 | 9.2 (6.9) | 0.71 (18) | 0.56 (14.1) | \$900.00 |
| P322 | 4.7 (17.8) | 3000 (200) | 1750 | 9.7 (7.2) | 0.71 (18) | 0.56 (14.1) | \$925.00 |
| P318 | 4.8 (18.3) | 2000 (140) | 1450 | 6.6 (4.9) | 0.79 (20) | 0.56 (14.1) | \$995.00 |
| P324 | 4.8 (18.2) | 2200 (150) | 1450 | 7.3 (5.4) | 0.79 (20) | 0.56 (14.1) | \$1,015.00 |
| P319 | 4.8 (18.2) | 2500 (170) / 2750 (190) | 3450 | 9.1 (6.8) | 0.71 (18) | 0.31 (8.0) | \$900.00 |
| P332 | 4.8 (18.2) | 3000 (200) | 1450 | 9.9 (7.4) | 0.71 (18) | 0.63 (16) | \$1,025.00 |
| P325 | 4.8 (18.2) | 3045 (210) | 3450 | 10.1 (7.5) | 0.71 (18) | 0.31 (8.0) | \$925.00 |
| P334 | 5.5 (20.8) | 2000 (140) | 1450 | 7.6 (5.7) | 0.79 (20) | 0.63 (16.0) | \$1,015.00 |
| P318 | 5.8 (22.0) | 1000 (70) | 1750 | 4.0 (3.0) | 0.79 (20) | 0.56 (14.1) | \$995.00 |
| P324 | 5.8 (22.0) | 1100 (75) | 1450 | 4.4 (3.3) | 0.79 (20) | 0.56 (14.1) | \$1,015.00 |
| P330 | 6.5 (24.7) | 1000 (70) | 3450 | 4.5 (3.3) | 0.79 (20) | 0.31 (8.0) | \$900.00 |

P300 Series Numbering Chart



| | Pump | LH/RH | DRIVE | SHAFT | BACKEND | UNLOADER | INJECTOR SIZE | THERMAL | OIL |
|--------------------|--|---|---|-------|---------|-------------------------|-----------------------|---------|-----|
| Pump Model | P327 | 2.9 GPM @ 3500 PSI (4000 PSI*) @ 3450 RPM | | | | | | | |
| | P317 | 3.5 GPM @ 3045 PSI (3350 PSI*) @ 1750 RPM | | | | | | | |
| | P323 | 3.5 GPM @ 3685 PSI @ 1750 RPM | | | | | | | |
| | P340 | 3.7 GPM @ 3500 PSI (4000 PSI*) @ 1750 RPM | | | | | | | |
| | P321 | 3.8 GPM @ 3200 PSI (3500 PSI*) @ 3450 RPM | | | | | | | |
| | P314 | 3.8 GPM @ 3500 PSI (4000 PSI*) @ 3450 RPM | | | | | | | |
| | P316 | 4.0 GPM @ 3045 PSI (3350 PSI*) @ 1450 RPM and 4.7 GPM @ 2500 PSI (2750 PSI*) @ 1750 RPM | | | | | | | |
| | P322 | 4.0 GPM @ 3500 PSI @ 1450 RPM and 4.7 GPM @ 3000 PSI @ 1750 RPM | | | | | | | |
| | P328 | 4.1 GPM @ 3200 PSI (3500 PSI*) @ 3450 RPM | | | | | | | |
| | P329 | 4.1 GPM @ 3500 PSI (4000 PSI*) @ 3450 RPM | | | | | | | |
| | P318 | 4.8 GPM @ 2000 PSI @ 1450 RPM and 5.8 GPM @ 1000 PSI @ 1750 RPM | | | | | | | |
| | P324 | 4.8 GPM @ 2200 PSI @ 1450 RPM and 5.8 GPM @ 1100 PSI @ 1750 RPM | | | | | | | |
| | P319 | 4.8 GPM @ 2500 PSI (2750 PSI*) @ 3450RPM | | | | | | | |
| | P332 | 4.8 GPM @ 3000 PSI @ 1450 RPM | | | | | | | |
| | P325 | 4.8 GPM @ 3045 PSI @ 3450 RPM | | | | | | | |
| | P334 | 5.5 GPM @ 2000 PSI @ 1450 RPM | | | | | | | |
| P330 | 6.5 GPM @ 1000 PSI @ 3450 RPM | | | | | | | | |
| Shaft Side | LH Shaft | L | | | | | | | |
| | RH Shaft | R | *Intermittent duty | | | | | | |
| Electric Motor | (56C) 5 7/8" or 5.11" dia. | E1 | (1) 01155 / (4) 01176A-1 / (4) 01176-2 (Ass. Parts 06773, (4) 07435) | | | | | | |
| | (TC Face) 7 1/4"dia. Bolts | E2 | (1) 06495 / (4) 01176A-1 / (4) 01176-2 (Ass. Parts 06773, (4) 07803) | | | | | | |
| Gas Motor | (Under 9HP) 3-5/8"dia.Bolts | G1 | (1) 01155 / (4) 01176A-1 / (4) 01176-2 (Ass. Parts 06773, (4) 07435 & (1) 09103) | | | | | | |
| | (9HP & More) 6.5"dia. Bolts | G2 | (1) 06478 / (4) 01176A-1 / (4) 01176-2 (Ass. Parts 06773, (4) 07804 & (4) 13129 | | | | | | |
| | (9HP & More) 6.5"dia. Bolts | B1 | (1) 08499A | | | | & (4) 13445 if needed | | |
| | (16HP & More) 6.5"dia. Bolts | B2 | (1) 08980 or (1) 08981 | | | | | | |
| Coupler Size | 5/8" Aluminum = 06505-0.6 | B | (1) 06299 AND (1) 06332 with Each Aluminum Coupler ***** (1) 06332 with each plastic coupler | | | | | | |
| | 5/8" Delrin = 08494P | I | | | | | | | |
| | 3/4" Aluminum = 06505-0.7 | C | | | | | | | |
| | 3/4" Delrin = 08496P | J | | | | | | | |
| | 7/8" Aluminum = 06505-0.8 | D | | | | | | | |
| | 24mm Aluminum = 06505-24 | M | | | | | | | |
| | 1" Aluminum = 06505-1.0 | E | | | | | | | |
| | 1" Delrin = 08485P | K | | | | | | | |
| | 1 1/8" Aluminum = 06505-1.1 | F | | | | | | | |
| | 1 1/8" Delrin = 08487P | L | | | | | | | |
| | 1 3/8" Aluminum = 04393-1.3 | H | | | | | | | |
| | 1 3/8" Delrin = 08489P | N | | | | | | | |
| Backend | Extended 08410-LG (P300) | | | | | (4) 01196 / (4) 01176-2 | | | |
| | Short Backend 08410B (P300) | X | | | | (4) 07188 / (4) 01176-2 | | | |
| Unloader/Regulator | No Unloader/Regulator \ | | | | | | | | |
| | Unloader/Regulator 23280 (P300) | U or R | | | | For Regulators, add "R" | | | |
| | Unloader (Side of Shaft) 23280 (P300) | US or RS | | | | For Regulators, add "R" | | | |
| Siphon Injector | 1.8mm (Fixed) | 23750-1.8 | | | | | 2 | | |
| | 2.1mm (Fixed) | 23750-2.1 | | | | | 3 | | |
| | 2.3mm (Fixed) | 23750-2.3 | | | | | 4 | | |
| | 1.8mm (Adjustable) | 23750-1.8A | | | | | 6 | | |
| | 2.1mm (Adjustable) | 23750-2.1A | | | | | 7 | | |
| | 2.3mm (Adjustable) | 23750-2.3A | | | | | 8 | | |
| Thermal | Thermal (Blank if No Thermal and Pulsator Valve) 23422B (1/2") | | | | | | T | | |
| Pulsator | Pulsator (Blank if No Pulsator Valve) | | | | | | | | P |

NOTE: Pumps without Bell Housing to include (1) 01067 Associated parts

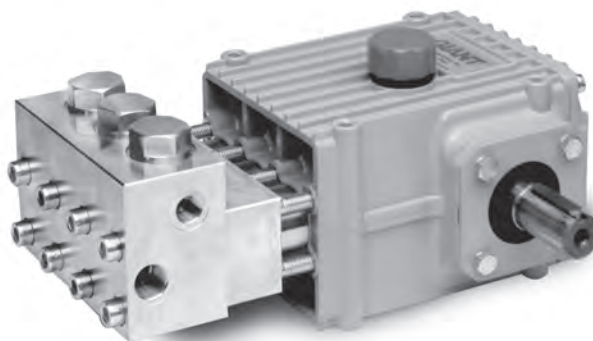
Method: Follow "shaded" boxes to follow the part number. Corresponding items included, next to the box.

| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Stroke | Price |
|-------|------------|--------------|-------|----------------|------------------|-----------|------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| P414* | 3.1 (11.8) | 10,150 (700) | 1450 | 21.7 (16.2) | 0.55 (14) | 0.94 (24) | \$8,005.00 |
| P480* | 3.2 (12.3) | 7250 (500) | 1450 | 16.0 (11.9) | 0.55 (14) | 0.79 (20) | \$5,670.00 |
| P460* | 3.8 (14.5) | 7250 (500) | 1450 | 19.0 (14.2) | 0.55 (14) | 0.94 (24) | \$5,670.00 |

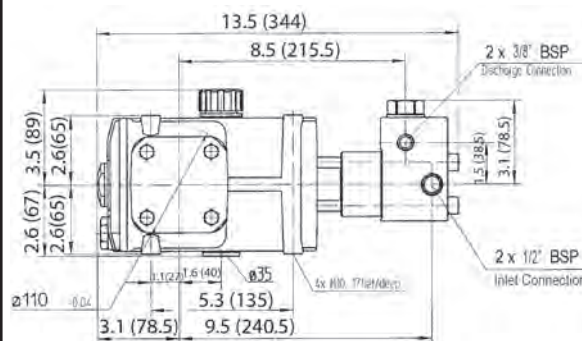
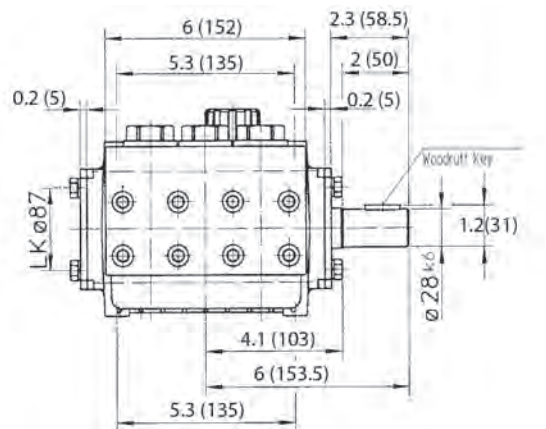
*Hydraulic drive pumps available upon request

Common Specifications & Materials

| | U.S. | (Metric) |
|-----------------------|---------------------------------|----------|
| Max Inlet Temp | 104 °F | (40 °C) |
| Weight | 46 lbs. | (21 kg) |
| Inlet Port | (2) 1/2" BSP | |
| Discharge Port | (2) 3/8" BSP | |
| Materials Used | | |
| Manifold | Stainless Steel | |
| Plunger | Solid ceramic oxide | |
| Valves | High Grade Stainless Steel | |
| Seals | Nitrile with fabric reinforcing | |
| Crankcase | Aluminum | |



P414/P460/P480 DIMENSIONS - INCHES (mm)



Repair Kits

| Kit | Part Number | List Price |
|---------------------|-------------|------------|
| Plunger Packing Kit | 09499 | \$447.11 |
| Valve Kit | 09498 | \$354.13 |
| Oil Seal Kit | 09306 | \$35.85 |

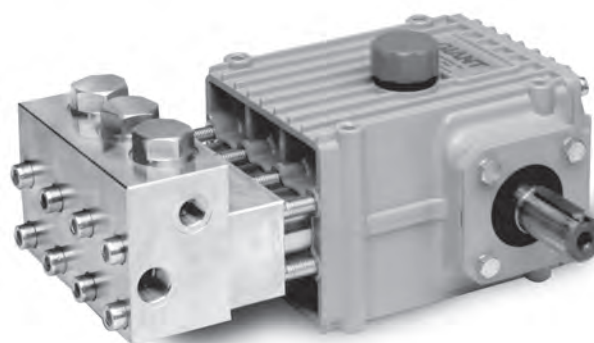
Mounting Accessories

| | Part Number | List Price |
|--|-------------|------------|
| Bushings | | |
| 28mm Tapered H Bushing | 07175 | \$24.20 |
| Pulleys | | |
| 9.75" Cast Iron 2 gr. -AB | 01055 | \$324.65 |
| 7.75" Cast Iron 2 gr. -AB | 01062 | \$274.20 |
| Plated Steel Channel Rails (L=9.18"xW=1.88"xH=3.00") | | |
| | 07358 | \$76.65 |
| Direct Drive Accessories: see page 29 | | |

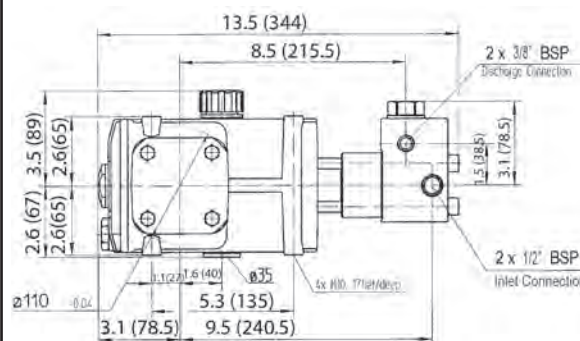
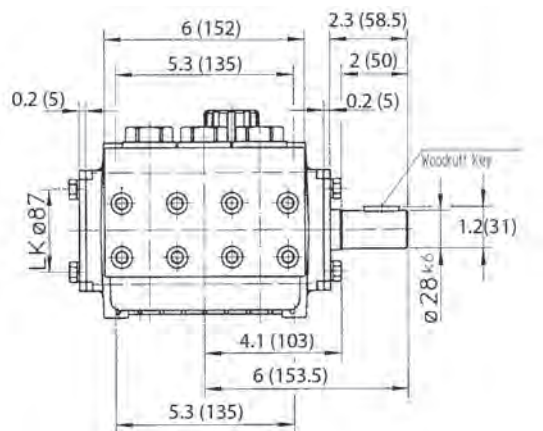
| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Stroke | Price |
|-------|------------|------------|-------|----------------|------------------|-----------|------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| P461 | 3.9 (14.6) | 7250 (500) | 1750 | 19.5 (14.5) | 0.55 (14) | 0.79 (20) | \$4,605.00 |
| P462 | 4.6 (17.5) | 7250 (500) | 1750 | 23.0 (17.2) | 0.55 (14) | 0.94 (24) | \$4,605.00 |

Common Specifications & Materials

| | U.S. | (Metric) |
|-----------------------|---------------------------------|----------|
| Max Inlet Temp | 104 °F | (40 °C) |
| Weight | 42 lbs. | (19 kg) |
| Inlet Port | (2) 1/2" BSP | |
| Discharge Port | (2) 3/8" BSP | |
| Materials Used | | |
| Manifold | Brass | |
| Plunger | Solid ceramic oxide | |
| Valves | High Grade Stainless Steel | |
| Seals | Nitrile with fabric reinforcing | |
| Crankcase | Aluminum | |



P461/P462 DIMENSIONS - INCHES (mm)



Repair Kits

| Kit | Part Number | List Price |
|---------------------|-------------|------------|
| Plunger Packing Kit | 09799 | \$382.85 |
| Valve Kit | 09781 | \$361.20 |
| Oil Seal Kit | 09641 | \$24.48 |

Mounting Accessories

| | Part Number | List Price |
|--|-------------|------------|
| Bushings | | |
| 28mm Tapered H Bushing | 07175 | \$24.20 |
| Pulleys | | |
| 9.75" Cast Iron 2 gr. -AB | 01055 | \$324.65 |
| 7.75" Cast Iron 2 gr. -AB | 01062 | \$274.20 |
| Plated Steel Channel Rails (L=9.18"xW=1.88"xH=3.00") | | |
| | 07358 | \$76.65 |
| Direct Drive Accessories: see page 29 | | |

Common Specifications & Materials

| Kit | Part Number | List Price |
|---------------------|-------------|------------|
| Plunger Packing Kit | 09640 | \$339.00 |
| Valve Kit | 09781 | \$361.20 |
| Oil Seal Kit | 09641 | \$24.48 |

| | Part Number | List Price |
|---------------------------------------|----------------|---------------|
| Bushings | | |
| 28mm Tapered H Bushing | 07175 | \$24.20 |
| Pulleys | | |
| 9.75" Cast Iron 2 gr. -AB | 01055 | \$324.65 |
| 7.75" Cast Iron 2 gr. -AB | 01062 | \$274.20 |
| Plated Steel Channel Rails | | |
| (L=9.18"xW=1.88"xH=3.00") | 07358 | \$76.65 |
| Direct Drive Accessories: see page 29 | | |

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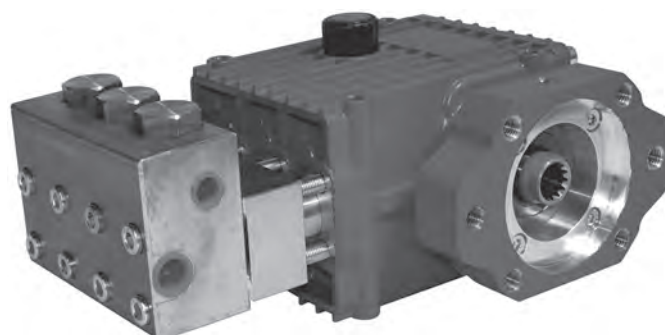
P465H and P485H

Hydraulic Drive Pumps

| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Stroke | Price |
|-------|------------|------------|-------|----------------|------------------|-----------|------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| P485H | 5.3 (19.9) | 7250 (500) | 1450 | 26.3 (19.6) | 0.71 (18) | 0.79 (20) | \$4,930.00 |
| P465H | 6.3 (23.9) | 5800 (400) | 1450 | 25.2 (18.8) | 0.71 (18) | 0.94 (24) | \$5,105.00 |

Common Specifications & Materials

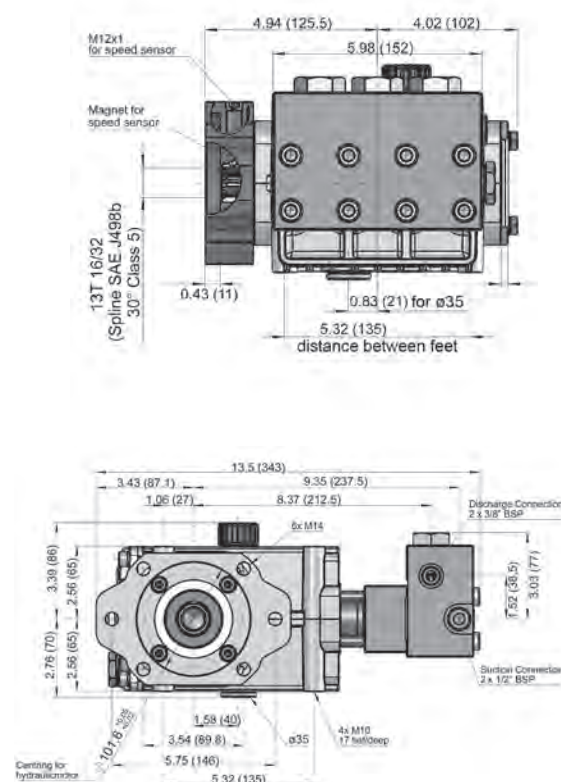
| | U.S. | (Metric) |
|--------------------------------------|---------------------------------|----------|
| Max Inlet Temp | 104 °F | (40 °C) |
| Weight | 37.5 lbs. | (17 kg) |
| Inlet Port | (2) 1/2" BSP | |
| Discharge Port | (2) 3/8" BSP | |
| Materials Used | | |
| Manifold (P465/P485) | Extruded Brass | |
| Manifold (P465-4000/P485-4000) | Stainless Steel | |
| Plunger | Solid ceramic oxide | |
| Valves | High Grade Stainless Steel | |
| Seals | Nitrile with fabric reinforcing | |
| Crankcase | Aluminum | |



Repair Kits / Accessories

| Kit | Part Number | List Price |
|---------------------|-------------|------------|
| Plunger Packing Kit | 09640 | \$339.00 |
| Valve Kit | 09781 | \$361.20 |
| Oil Seal Kit | 09641 | \$24.48 |
| Anti-Seize | 03325 | \$7.22 |

P465/P485 DIMENSIONS - INCHES (mm)



Common Specifications & Materials

| Kit | Part Number | List Price |
|-----------------------------------|-------------|------------|
| Plunger Packing Kit | 09141 | \$125.88 |
| Valve Kit (P435, P455B, P456B) | 09644 | \$492.35 |
| Valve Kit (P450, P451) | 09770 | \$357.33 |
| Oil Seal Kit | 09641 | \$24.48 |

| | Part Number | List Price |
|--|-------------|------------|
| Bushings | | |
| 28mm Tapered H Bushing | 07175 | \$24.20 |
| Pulleys | | |
| 9.75" Cast Iron 2 gr. -AB | 01055 | \$324.65 |
| 7.75" Cast Iron 2 gr. -AB | 01062 | \$274.20 |
| Plated Steel Channel Rails (L=9.18"xW=1.88"xH=3.00") | | |
| | 07358 | \$76.65 |
| Direct Drive Accessories: see page 29 | | |

Technical drawing of the P435/P455/P451 pump assembly, showing front and side views with dimensions in inches and millimeters.

Front View Dimensions:

- Top width: 6.04 (153.5)
- Top width: 4.04 (102.5)
- Top width: 6.10 (155)
- Top width: 0.20 (5)
- Left side height: 1.22 (33)
- Left side height: 0.28 (7)
- Left side height: 2.09 (53)
- Left side height: 2.31 (58.7)
- Bottom width: 0.83 (.21) for $\varnothing 35$
- Bottom width: 5.32 (135)
- Bottom width: distance between feet

Side View Dimensions:

- Top width: 3.75 (95.5)
- Top width: 1.06 (27)
- Top width: 7.56 (192)
- Top width: 6.38 (162)
- Top width: 2 x 1/2" BSP Discharge Connection
- Right side height: 1.39 (35)
- Right side height: 1.81 (46)
- Right side height: 3.17 (80.5)
- Right side height: 2.96 (65)
- Bottom width: 5.31 (135)
- Bottom width: 9.10 (231)
- Bottom width: 12.22 (310.5)
- Bottom width: 1.57 (40)
- Bottom width: $\varnothing 35$
- Bottom width: 1/4" M10 17 mm

Other Labels:

- Paßbleiler 8x7x45 DIN 91365 Fitting Key
- Suction Connection
- 2 x 3/4" BSP (P435/P455/P456)
- 2 x 1/2" BSP (450/P451)

Hydraulic Drive Pumps

| Model | Flow | Pressure Continuous/ Intermittent | Speed | Power Required | Plunger Diameter | Stroke | Price |
|--------|------------|---|-------|-------------------|---------------------|-----------|------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| P455BH | 5.5 (20.8) | 4350 (300) / 5100 (350) | 1450 | 19.3 (14.4) | 0.71 (18) | 0.79 (20) | \$3,510.00 |
| P435H | 6.6 (25.0) | 3625 (250) | 1450 | 16.5 (12.3) | 0.71 (18) | 0.94 (24) | \$3,510.00 |

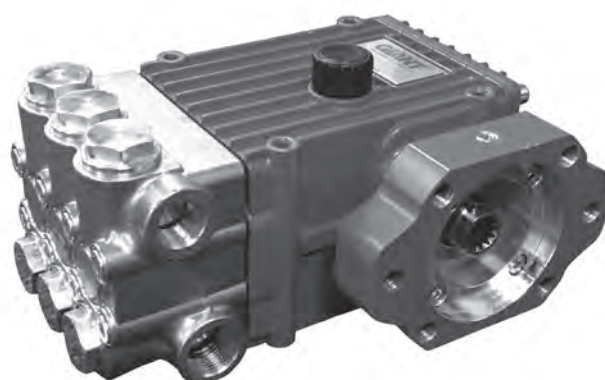
Common Specifications & Materials

| | U.S. | (Metric) |
|----------------------|----------------|-----------------|
| Max Inlet Temp | 160 °F | (70 °C) |
| Weight | 38.3 lbs. | (17.4 kg) |
| Inlet Port | (2) 1/2" BSP | |
| Discharge Port..... | (2) 1/2" BSP | |

Materials Used

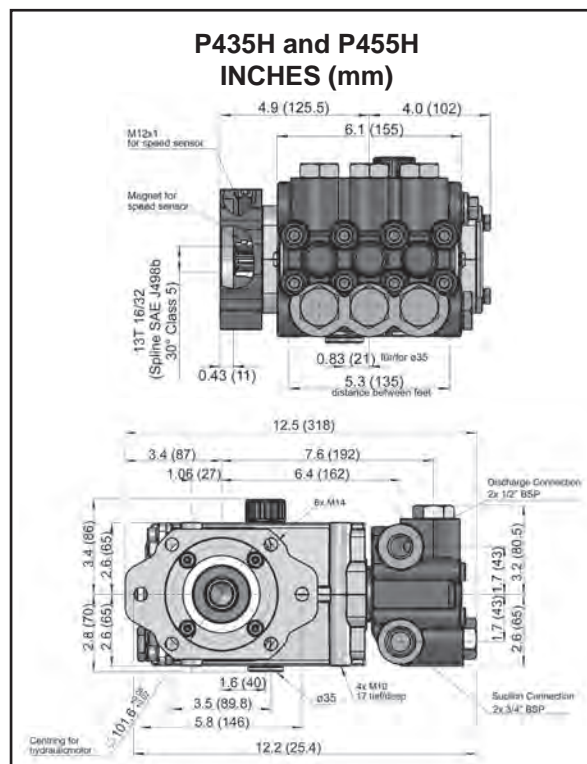
Materials Used

| | |
|-----------------|---------------------------------|
| Manifold | Forged Brass |
| Plunger | Solid ceramic oxide |
| Valves | High Grade Stainless Steel |
| Seals | Nitrile with fabric reinforcing |
| Crankcase | Aluminum |



Repair Kits / Accessories

| Kit | Part Number | List Price |
|---------------------------------------|------------------------|-----------------------|
| Plunger Packing Kit | 09141 | \$125.88 |
| Valve Kit (P435, P455B, P456B) | 09644 | \$492.35 |
| Oil Seal Kit | 09641 | \$24.48 |
| Anti-Seize | 03325 | \$7.22 |
| Direct Drive Accessories: see page 29 | | |



| Model | Flow | Pressure Continuous/ Intermittent | Speed | Power Required | Plunger Diameter | Stroke | Price |
|--------|-------------|---|-------|-------------------|---------------------|-----------|------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| P423 | 8.2 (31.1) | 2900 (200) | 1450 | 16.4 (12.2) | 0.87 (22) | 0.79 (20) | \$2,835.00 |
| P422 | 9.9 (37.3) | 2600 (180) / 3000 (200) | 1450 | 20.5 (15.3) | 0.87 (22) | 0.94 (24) | \$2,835.00 |
| P425* | 10.7 (40.4) | 2465 (170) | 1450 | 18.2 (13.6) | 0.98 (25) | 0.79 (20) | \$2,835.00 |
| P420A* | 12.8 (48.4) | 2175 (150) | 1450 | 19.2 (14.3) | 0.98 (25) | 0.94 (24) | \$2,835.00 |

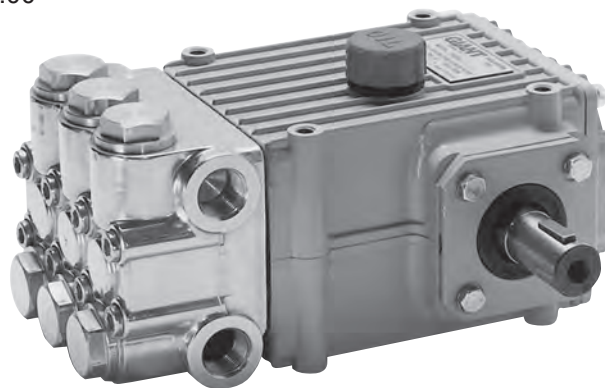
*P425-0021- Includes Teflon Seals and Viton O-Rings - \$3,165.00

P425-BSP- BSP Inlet/Discharge Ports - \$2,835.00

*P420A-0011- Includes Viton Seals and O-Rings - \$3,165.00

Common Specifications & Materials

| | U.S. | (Metric) |
|-------------------------|---------------------------------|-----------|
| Max Inlet Temp | 160 °F | (70 °C) |
| Weight | 38.3 lbs. | (17.4 kg) |
| Inlet Port | (2) 1" NPT | |
| Discharge Port..... | (2) 3/4" NPT | |
| Materials Used | | |
| Manifold Material | Forged Brass | |
| Plunger | Solid ceramic oxide | |
| Valves | High Grade Stainless Steel | |
| Seals..... | Nitrile with fabric reinforcing | |
| Crankcase | Aluminum | |



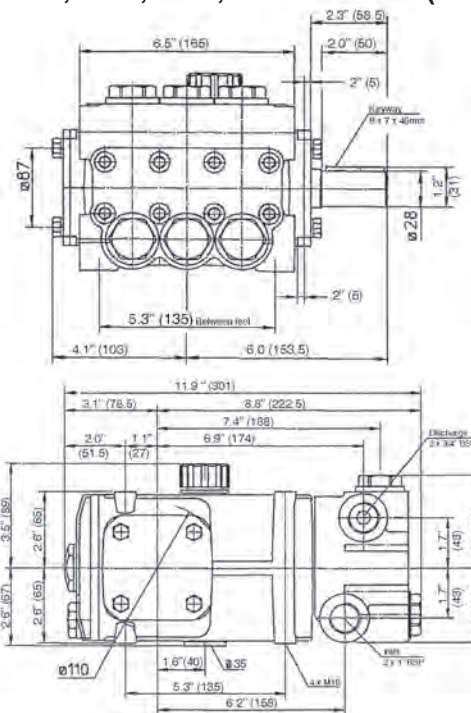
Repair Kits

| Kit | Part Number | List Price |
|----------------------------------|-------------|------------|
| Plunger Packing Kit (P420, P425) | 09140 | \$211.05 |
| Plunger Packing Kit (P422, P423) | 09295 | \$292.67 |
| Valve Kits | 09143 | \$471.35 |
| Oil Seal Kit | 09641 | \$24.48 |

Mounting Accessories

| | Part Number | List Price |
|--|-------------|------------|
| Bushings | | |
| 28mm Tapered H Bushing | 07175 | \$24.20 |
| Pulleys | | |
| 9.75" Cast Iron 2 gr. -AB | 01055 | \$324.65 |
| 7.75" Cast Iron 2 gr. -AB | 01062 | \$274.20 |
| Plated Steel Channel Rails (L=9.18"xW=1.88"xH=3.00") | | |
| | 07358 | \$76.65 |
| Direct Drive Accessories: see page 29 | | |

P420, P422, P423, P425 - INCHES (mm)



P420H, P422H, P423H & P425H

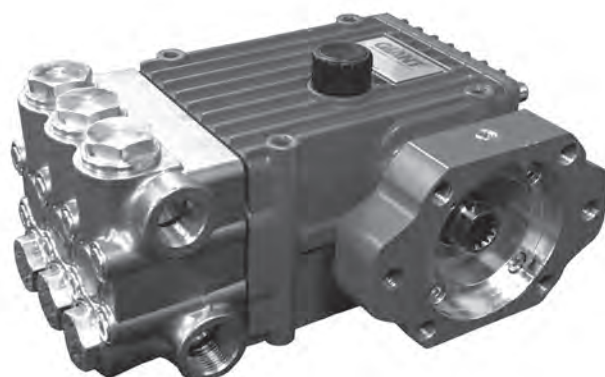


Hydraulic Drive Pumps

| Model | Flow | Pressure Continuous/ Intermittent | Speed | Power Required | Plunger Diameter | Stroke | Price |
|--------|-------------|---|-------|-------------------|---------------------|-----------|------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| P423H | 8.2 (31.1) | 2900 (200) | 1450 | 16.4 (12.2) | 0.87 (22) | 0.79 (20) | \$3,235.00 |
| P422H | 9.9 (37.3) | 2600 (180) / 3000 (200) | 1450 | 20.5 (15.3) | 0.87 (22) | 0.94 (24) | \$3,350.00 |
| P425H | 10.7 (40.4) | 2465 (170) | 1450 | 18.2 (13.6) | 0.98 (25) | 0.79 (20) | \$3,235.00 |
| P420AH | 12.8 (48.4) | 2175 (150) | 1450 | 19.2 (14.3) | 0.98 (25) | 0.94 (24) | \$3,350.00 |

Common Specifications & Materials

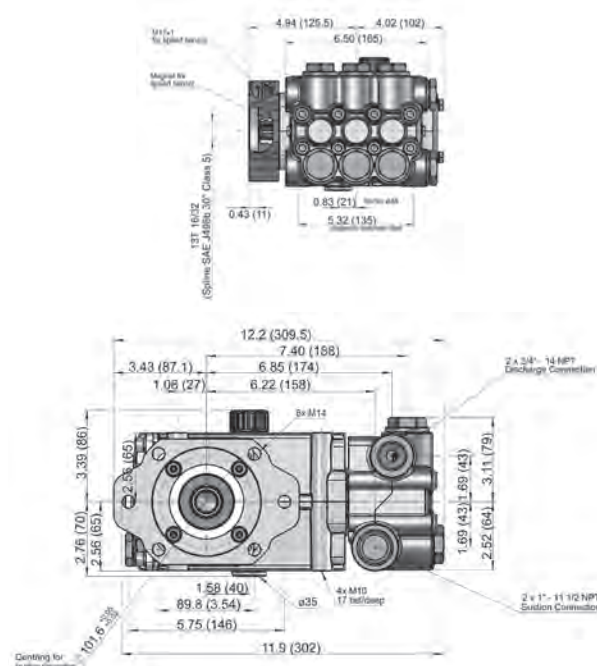
| | U.S. | (Metric) |
|-------------------------|---------------------------------|-----------|
| Max Inlet Temp | 160 °F | (70 °C) |
| Weight | 38.3 lbs. | (17.4 kg) |
| Inlet Port | (2) 1" NPT | |
| Discharge Port | (2) 3/4" NPT | |
| Materials Used | | |
| Manifold Material | Forged Brass | |
| Plunger | Solid ceramic oxide | |
| Valves | High Grade Stainless Steel | |
| Seals | Nitrile with fabric reinforcing | |
| Crankcase | Aluminum | |



Repair Kits / Accessories

| Kit | Part Number | List Price |
|-------------------------------------|----------------|---------------|
| Plunger Packing Kit (P420, P425) | 09140 | \$211.05 |
| Plunger Packing Kit (P422, P423) | 09295 | \$292.67 |
| Valve Kits | 09143 | \$471.35 |
| Oil Seal Kit | 09641 | \$24.48 |
| Anti-Seize | 03325 | \$7.22 |

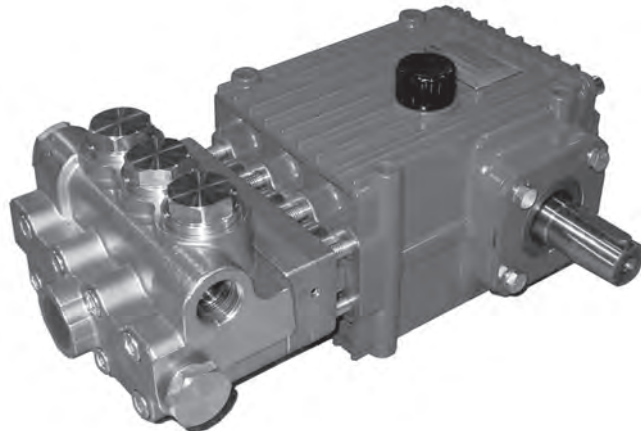
P420H, P422H, P423H, P425H - INCHES (mm)



| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Stroke | Price |
|-----------|-------------|------------|-------|----------------|------------------|-----------|------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| P490 | 15.7 (59.5) | 2000 (140) | 1450 | 21.8 (16.3) | 1.18 (30) | 0.79 (20) | \$3,585.00 |
| P490-7000 | 15.7 (59.5) | 2000 (140) | 1450 | 21.8 (16.3) | 1.18 (30) | 0.79 (20) | \$4,110.00 |
| P470 | 18.4 (69.7) | 2000 (140) | 1450 | 25.8 (19.2) | 1.18 (30) | 0.94 (24) | \$3,585.00 |
| P470-7000 | 18.4 (69.7) | 2000 (140) | 1450 | 25.8 (19.2) | 1.18 (30) | 0.94 (24) | \$4,110.00 |

Common Specifications & Materials

| | U.S. | (Metric) |
|-------------------------------------|---------------------------------|----------|
| Max Inlet Temp | 160 °F | (70 °C) |
| Weight | 39.7 lbs. | (18 kg) |
| Inlet Port | (2) 3/4" & 1" BSP | |
| Discharge Port..... | (2) 3/4" BSP | |
| Manifold (P470/P490)..... | Brass | |
| Manifold (P470-7000/P490-7000)..... | Nickel-Plated Brass | |
| Plunger | Solid ceramic oxide | |
| Valves | Stainless Steel | |
| Seals..... | Nitrile with fabric reinforcing | |
| Crankcase | Aluminum | |



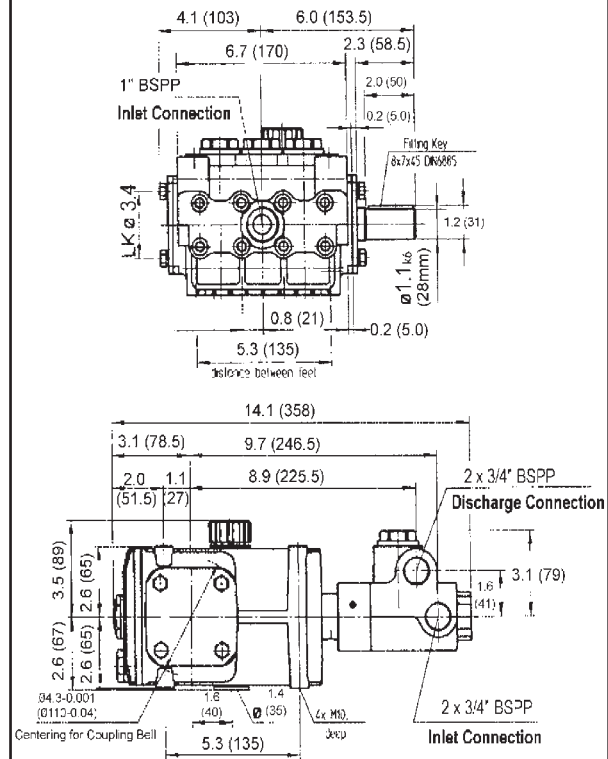
Repair Kits

| Kit | Part Number | List Price |
|---------------------|-------------|------------|
| Plunger Packing Kit | 09565 | \$378.72 |
| Valve Kit | 09566 | \$805.92 |
| Oil Seal Kit | 09306 | \$35.85 |

Mounting Accessories

| | Part Number | List Price |
|--|-------------|------------|
| Bushings | | |
| 28mm Tapered H Bushing | 07175 | \$24.20 |
| Plated Steel Channel Rails (L=9.18"xW=1.88"xH=3.00") | 07358 | \$76.65 |
| Direct Drive Accessories: see page 29 | | |

P470 / P490 - INCHES (mm)



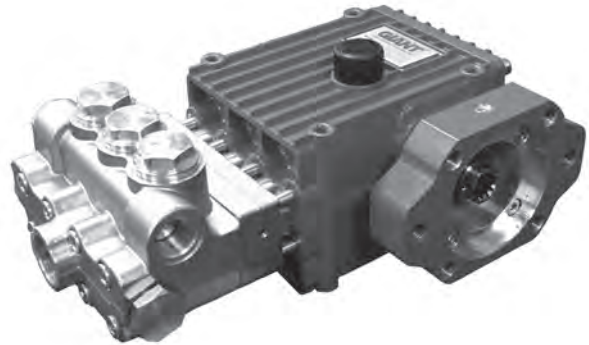
P490H, P490H-7000, P470H & P470H-7000 **GIANT**

Hydraulic Drive Pumps

| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Stroke | Price |
|------------|-------------|------------|-------|----------------|------------------|-------------|------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| P426HHP | 14.3 (54.0) | 3000 (200) | 1450 | 27.1 (20.7) | 1.02 (26) | 0.97 (24.6) | \$4,565.00 |
| P490H | 15.7 (59.4) | 2030 (140) | 1450 | 22.0 (16.4) | 1.18 (30) | 0.79 (20) | \$4,090.00 |
| P490H-7000 | 15.7 (59.4) | 2030 (140) | 1450 | 22.0 (16.4) | 1.18 (30) | 0.79 (20) | \$4,865.00 |
| P470H | 18.4 (69.7) | 2030 (140) | 1450 | 25.7 (19.2) | 1.18 (30) | 0.94 (24) | \$4,090.00 |
| P470H-7000 | 18.4 (69.7) | 2030 (140) | 1450 | 25.7 (19.2) | 1.18 (30) | 0.94 (24) | \$4,865.00 |

Common Specifications & Materials

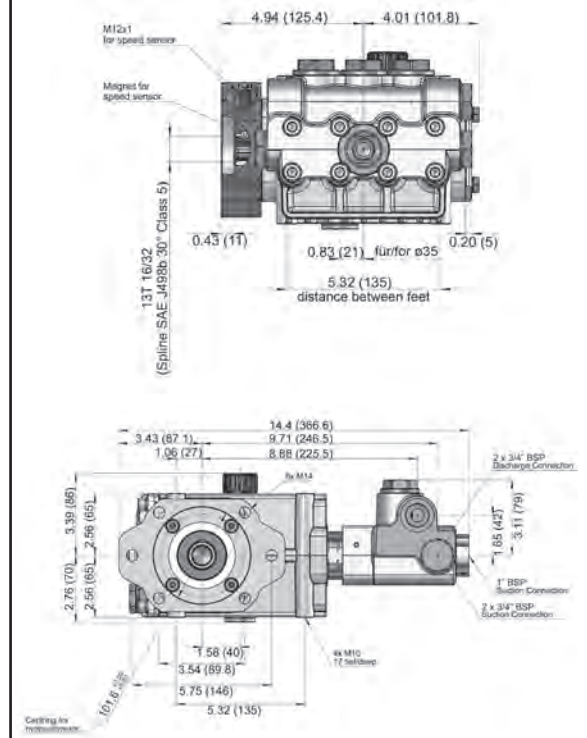
| | U.S. | (Metric) |
|---------------------------------|---------------------------------|----------|
| Max Inlet Temp | 160 °F | (70 °C) |
| Weight | 39.7 lbs. | (18 kg) |
| Inlet Port | (2) 3/4" & 1" BSP | |
| Discharge Port..... | (2) 3/4" BSP | |
| Manifold (P470/P490/P426) | Brass | |
| Manifold (P470/P490-7000)..... | Nickel-Plated Brass | |
| Plunger | Solid ceramic oxide | |
| Valves | Stainless Steel | |
| Seals..... | Nitrile with fabric reinforcing | |
| Crankcase | Aluminum | |



Repair Kits

| Kit | Part Number | List Price |
|------------------------------|-------------|------------|
| Plunger Packing Kits: | | |
| (P426) | 09829 | \$284.58 |
| (P470/P490) | 09565 | \$378.72 |
| Valve Kits: | | |
| (P426) | 09724 | \$634.13 |
| (P470/P490) | 09566 | \$805.92 |
| Oil Seal Kits: | | |
| (P426) | 09641 | \$24.48 |
| (P470/P490) | 09306 | \$35.85 |
| Anti-Seize | 03325 | \$7.22 |

P470 / P490 - INCHES (mm)



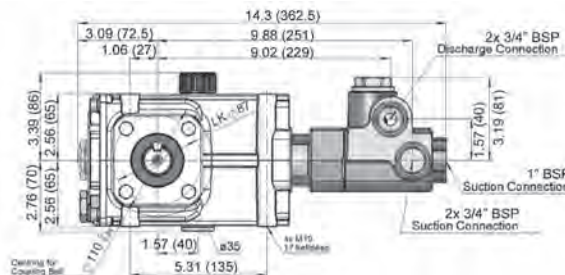
Common Specifications & Materials

| Kit | Part Number | List Price |
|--------------------------------------|-------------|------------|
| Plunger Packing Kit (P422HP, P423HP) | 09722 | \$317.05 |
| Plunger Packing Kit (P420HP, P425HP) | 09723 | \$219.40 |
| Valve Kits | 09724 | \$634.13 |
| Oil Seal Kit | 09641 | \$24.48 |

| | Part Number | List Price |
|---------------------------------------|----------------|---------------|
| Bushings | | |
| 28mm Tapered H Bushing | 07175 | \$24.20 |
| Pulleys | | |
| 9.75" Cast Iron 2 gr. -AB | 01055 | \$324.65 |
| 7.75" Cast Iron 2 gr. -AB | 01062 | \$274.20 |
| Plated Steel Channel Rails | | |
| (L=9.18"xW=1.88"xH=3.00") | 07358 | \$76.65 |
| Direct Drive Accessories: see page 29 | | |

Technical drawing of the front view of a 4-ported solenoid valve. The drawing includes the following dimensions:

- Overall width: 6.04 (153.5)
- Distance between mounting holes: 6.69 (170)
- Mounting hole diameter: 0.20 (5)
- Overall height: 4.01 (102)
- Port diameter: 1.22 (31)
- Port thread: 1/8" NPT
- Port material: 316L
- Port length: 2.09 (53)
- Port distance from mounting face: 2.31 (58.7)
- Distance between feet: 0.83 (21) for 1/8" NPT
- Overall distance between feet: 5.31 (135)



P400 Series

Direct Drive Accessories

Electric Drive

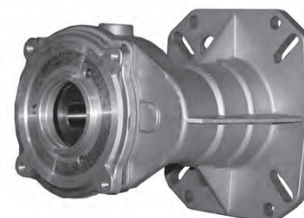
| Part Number | Connection to Electric Motor Type | List Price |
|-------------|---|------------|
| 08595 | P400 Series to 182TC, 184TC, 213TC, 215TC frames | \$152.71 |
| 09658 | Electric Motor Adapting Kit for P400 to 254/254TC | \$338.28 |
| 03216 | P400 to Nema 284/286TC frames | \$1,997.55 |
| 05723 | 300mm (OD), 265mm (bore circle), Motor Size=132 | \$720.00 |
| 04037 | 350mm (OD), 300mm (bore circle), Motor Size=160-180 | \$740.00 |



06495 or 06578

Gas Drive

| Part Number | Connection to Engine Type | List Price |
|-------------|------------------------------|------------|
| 08498-1.0 | 2.176:1, 1" Bore 17.4 HP | \$585.00 |
| 08498-1.1 | 2.176:1, 1-1/8" Bore 17.4 HP | \$585.00 |
| 08980-1.0 | 2.176:1, 1" Bore | \$630.00 |
| 08980-1.8 | 2.176:1, 1-1/8" Bore | \$630.00 |
| 08981-1.8 | 2.176:1, 1-1/8" Bore, 31HP | \$630.00 |



One-Piece Couplings

| Item | Description | List Price |
|----------|---|------------|
| 04555-XX | Aluminum Coupler, 28mm x 1-1/8" to 1-5/8" | \$62.50 |



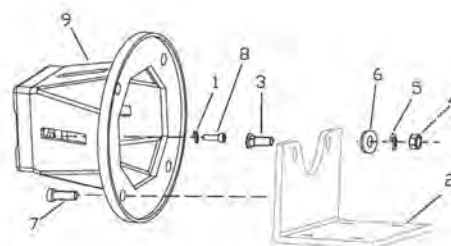
L-Jaw Coupler Sets

| Part Number | Size | Bore Diameters | Weight lbs. (kg) | List Price |
|--------------------|------|----------------|------------------|------------|
| 03400-L110-28-1.38 | L110 | 28mm x 1-3/8" | 5.95 (2.7) | \$733.55 |
| 03400-L110-28-1.58 | L110 | 28mm x 1-5/8" | 5.95 (2.7) | \$722.70 |
| 03400-L150-28-1.78 | L150 | 28mm x 1-7/8" | 7.9 (3.6) | \$907.45 |
| 03400-L099-28-1.18 | L099 | 28mm x 1-1/8" | 2.25 (1.0) | \$456.45 |
| 03400-L110-28-1.18 | L110 | 28mm x 1-1/8" | 2.5 (1.1) | \$760.70 |
| 03400-L150-28-0.58 | L150 | 28mm x 5/8" | 2.8 (1.3) | \$260.95 |
| 03400-L110-28-0.58 | L110 | 28mm x 5/8" | 2.8 (1.3) | \$372.95 |



Hydraulic Drive

| Part Number | Hydraulic Kit | List Price |
|-----------------|---|------------|
| HK-P400 | Hydraulic Motor Kit for P400 Series Pumps w/SAE 2B motor - 2 Bolt | \$411.05 |
| HKA-P400 | Small Hydraulic Motor Kit for P400 Series Pumps w/SAE 2B - 2 Bolt | \$264.40 |
| HK-P400-SAE-C-4 | Hydraulic Motor Kit for P400 Series Pumps w/SAE C motor - 4 Bolt | \$788.25 |

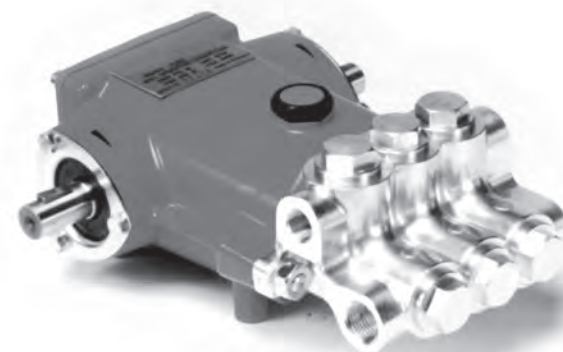


| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Stroke | Price |
|-------|------------|------------|-------|----------------|------------------|-------------|------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| P48 | 0.82 (3.1) | 3000 (200) | 1420 | 1.7 (1.3) | 0.47 (12) | 0.49 (12.4) | \$1,450.00 |
| P47 | 1.2 (4.7) | 3000 (200) | 1420 | 2.5 (1.9) | 0.47 (12) | 0.49 (12.4) | \$1,950.00 |
| P49 | 2.7 (10.2) | 2200 (150) | 1420 | 4.1 (3.1) | 0.71 (18) | 0.41 (10.0) | \$1,450.00 |
| P46W* | 3.9 (14.7) | 2200 (150) | 1420 | 6.0 (4.5) | 0.71 (18) | 0.56 (14.1) | \$1,185.00 |

*P46W-0020 - Includes Teflon V-Sleeves - \$1,730.00

Common Specifications & Materials

| | U.S. | (Metric) |
|-----------------------|---------------------------------|----------|
| Max Inlet Temp | 160 °F | (70 °C) |
| Weight | 13.9 lbs. | (6.3 kg) |
| Inlet Port | (2) 1/2" BSP | |
| Outlet Port | (2) 3/8" BSP | |
| Materials Used | | |
| Plunger | Solid ceramic oxide | |
| Valves | High Grade Stainless Steel | |
| Seals | Nitrile with fabric reinforcing | |
| Crankcase | Aluminum | |



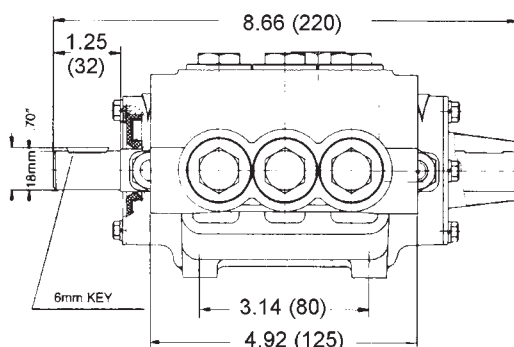
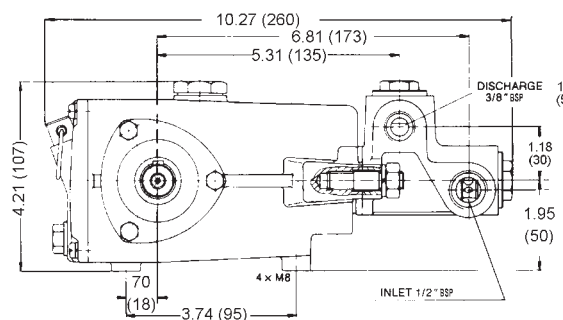
Repair Kits

| Kit | Part Number | List Price |
|-----------------------------|-------------|------------|
| <u>Plunger Packing Kit:</u> | | |
| P46W/P49 | 09038 | \$88.37 |
| P47/P48 | 09758 | \$171.91 |
| <u>Weep Return Kit</u> | | |
| P46W/P49 | 09081 | \$197.21 |
| <u>Valve Kit</u> | | |
| P46W/P49 | 09039 | \$203.72 |
| P47/P48 | 09759 | \$202.00 |
| Oil Seal Kit (P47/P48) | 09314 | \$89.90 |

Mounting Accessories

| | Part Number | List Price |
|-----------------------------------|-------------|------------|
| Bushings | | |
| 18mm Tapered H Bushing | 01065 | \$28.30 |
| Pulley & Sheaves | | |
| 7.75" Cast Iron 1 gr.-AB Section | 01061 | \$131.85 |
| 18mm - 8" Steel Pulley 1 gr. | 01066 | \$87.15 |
| Steel Box Rails | | |
| (L=9.25"xW=1.18"xH=1.62") | 01034 | \$173.90 |
| Plated Steel Channel Rails | | |
| (L=9.00"xW=2.12"xH=2.50") | 01075 | \$86.70 |
| Bell Housing | | |
| to 56C Face | 01165 | \$32.60 |
| to 182/184/213/215TC Face | 01168 | \$32.60 |

P46/P47/P49 - INCHES (mm)



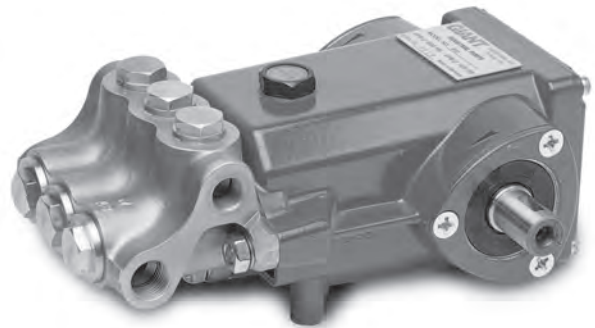
| Model | Flow | Pressure Continuous/ Intermittent | Speed Continuous/ Intermittent | Power Required | Plunger Diameter | Price |
|----------|-----------|---|--------------------------------------|-------------------|---------------------|------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | |
| P57 | 1.3 (5.1) | 5000 (350) / 6525 (450) | 1420 | 5.9 (4.4) | 0.47 (12) | \$5,795.00 |
| P57-0011 | 1.3 (5.1) | 5000 (350) / 6525 (450) | 1420 | 5.9 (4.4) | 0.47 (12) | \$6,095.00 |
| P57-0021 | 1.3 (5.1) | 5000 (350) / 6525 (450) | 1420 | 5.9 (4.4) | 0.47 (12) | \$6,095.00 |

Common Specifications & Materials

| | U.S. | (Metric) |
|----------------------|--------------|----------|
| Stroke | 0.56" | 14.1 mm |
| Max Inlet Temp | 160 °F | (71 °C) |
| Weight | 17.2 lbs | (7.8 kg) |
| Inlet Port | (2) 1/2" BSP | |
| Discharge Port | (2) 3/8" BSP | |

Materials Used

| | |
|------------------------|---------------------------------|
| Manifold | Special Brass |
| Plunger | Solid ceramic oxide |
| Valves | High Grade Stainless Steel |
| Seals (P57) | Nitrile with fabric reinforcing |
| Seals (P57-0011) | Viton |
| Crankcase | Aluminum |



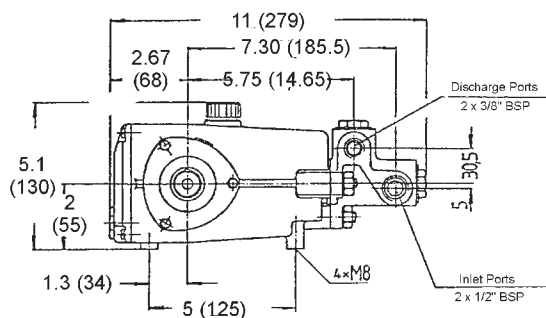
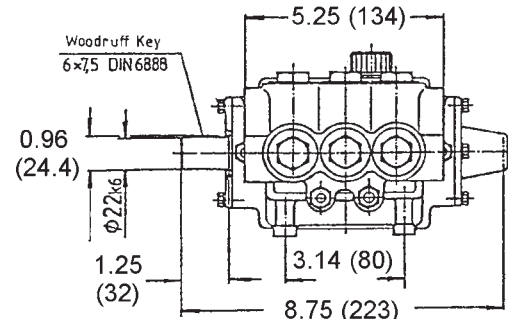
Repair Kits

| Kit | Part Number | List Price |
|------------------------------|-------------|------------|
| <u>Plunger Packing Kits:</u> | | |
| (P57) | 09313 | \$159.29 |
| (P57-0011) | 09313-0011 | \$467.10 |
| Valve Kit | 09315 | \$166.89 |
| Oil Seal Kit | 09314 | \$89.90 |

Mounting Accessories

| | Part Number | List Price |
|---------------------------------------|-------------|------------|
| Bushings | | |
| 22mm Tapered H Bushing | 01056 | \$28.30 |
| 7.75" Cast Iron | | |
| 1 gr.-AB Section | 01061 | \$131.85 |
| 7.75" Cast Iron | | |
| 2gr.-AB Section | 01062 | \$274.20 |
| Steel Box Rails | | |
| (L=9.25"xW=1.18"xH=1.62") | | |
| | 01034 | \$173.90 |
| Plated Steel Channel Rails | | |
| (L=9.00"xW=2.12"xH=2.50") | | |
| | 01075 | \$86.70 |
| Direct Drive Accessories: see page 34 | | |

P57 DIMENSIONS - INCHES (mm)



| Model | Flow Continuous/ Intermittent | Pressure Continuous/ Intermittent | Speed Continuous/ Intermittent | Power Required | Plunger Diameter | Price |
|-------|-------------------------------------|---|--------------------------------------|-------------------|---------------------|------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | |
| P54 | 4.0 (15.1) / 4.8 (18.2) | 4060 (280) / 3300 (230) | 1450 / 1750 | 11.0 (8.2) | 0.63 (16) | \$1,845.00 |
| P58* | 5.0 (18.9) / 6.0 (22.7) | 3500 (240) / 3000 (200) | 1450 / 1750 | 12.1 (9.0) | 0.71 (18) | \$1,845.00 |
| P59* | 7.5 (28.3) / 9.0 (32.8) | 1900 (130) / 1000 (70) | 1450 / 1750 | 9.8 (7.3) | 0.87 (22) | \$1,845.00 |

*P58W-0011 - Includes Viton Seals and Packing - \$2,570.00

*P59W-0021 - Includes Teflon Seals/Viton O-Rings - \$2,485.00

Common Specifications & Materials

| | U.S. | (Metric) |
|----------------------------------|--------------|--------------|
| Stroke | 0.71" | 18.1 mm |
| Max Inlet Temp | 140 °F | (60 °C) |
| Weight (Pump only) | 19.4 lbs | (8.8 kg) |
| Weight (Pump w/gearbox) | 26 lbs | (12 kg) |
| Inlet Port (P54 & P58) | (1) 1/2" | (2) 3/8" BSP |
| Inlet Port (P59) | (1) 3/4" | (2) 1/2" BSP |
| Discharge Port (P54 & P58) | (2) 3/8" BSP | |
| Discharge Port (P59) | (2) 1/2" BSP | |

Materials Used

| | |
|-----------------|---------------------------------|
| Manifold | Special Brass |
| Plunger | Solid ceramic oxide |
| Valves | High Grade Stainless Steel |
| Seals | Nitrile with fabric reinforcing |
| Crankcase | Aluminum |



Repair Kits

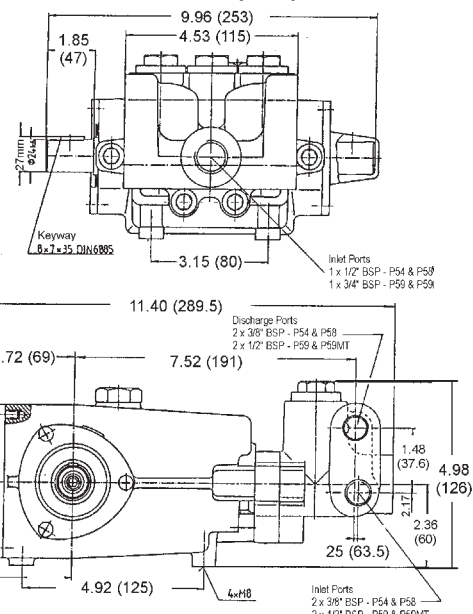
| Kit | Part Number | List Price |
|----------------------------|----------------|---------------|
| Plunger Packing Kit (P54W) | 09167 | \$215.67 |
| Plunger Packing Kit (P58W) | 09238 | \$102.23 |
| Plunger Packing Kit (P59W) | 09317 | \$266.63 |
| Valve Kit (P54W & P58W) | 09168 | \$236.71 |
| Valve Kit (P59) | 09318 | \$151.61 |
| Oil Seal Kit | 09202 | \$87.69 |

Mounting Accessories

| | Part Number | List Price |
|--|----------------|---------------|
| Bushings | | |
| 24mm Tapered H Bushing | 01074 | \$28.80 |
| 7.75" Cast Iron 1 gr.-AB Section | 01061 | \$131.85 |
| 7.75" Cast Iron 2gr.-AB Section | 01062 | \$274.20 |
| Steel Box Rails (L=9.25"xW=1.18"xH=1.62") | 01034 | \$173.90 |
| Plated Steel Channel Rails (L=9.00"xW=2.12"xH=2.50") | 01075 | \$86.70 |
| Direct Drive Accessories: see page 34 | | |

*Pump w/gearbox designed for 2:176
reduction from engine speed of 3500 RPM

P54/P58/P59 - INCHES (mm)



| Model | Flow Continuous/ Intermittent | Pressure Continuous/ Intermittent | Speed Continuous/ Intermittent | Power Re- quired | Plunger Diameter | Price |
|-------|-------------------------------------|---|--------------------------------------|------------------------|---------------------|------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | |
| P55W | 4.9 (18.5) / 6.0 (22.7) | 2320 (160) / 1000 (70) | 1420 / 1750 | 7.8 (5.8) | 0.71 (18) | \$1,785.00 |
| P56W* | 6.1 (23.0) / 7.5 (28.4) | 1900 (131) / 1000 (70) | 1420 / 1750 | 8.0 (6.0) | 0.79 (20) | \$1,785.00 |

*P56W-0011- Includes Viton Seals and Packing - \$2,510.00

P56W-0021- Includes Teflon Seals/Viton O-Rings - \$2,510.00

P56W-0121- Includes Teflon Seals/Viton O-Rings/316 SS Internal Metal Parts - \$2,510.00

Common Specifications & Materials

| | U.S. | (Metric) |
|----------------------|--------------|----------|
| Stroke | 0.71" | 18.1 mm |
| Max Inlet Temp | 160 °F | (70 °C) |
| Max Inlet Temp | 190 °F | (88 °C) |
| Weight | 17.2 lbs. | (7.8 kg) |
| Inlet Port | (2) 1/2" NPT | |
| Discharge Port | (2) 3/8" NPT | |

Materials Used

| | |
|-----------------|---------------------------------|
| Manifold | Special Brass |
| Plunger | Solid ceramic oxide |
| Valves | High Grade Stainless Steel |
| Seals | Nitrile with fabric reinforcing |
| Crankcase | Aluminum |



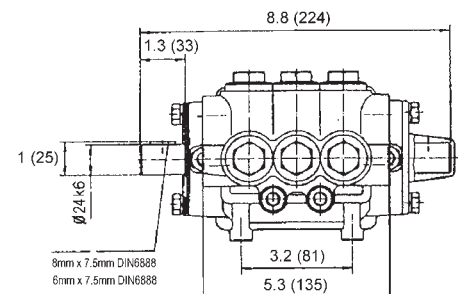
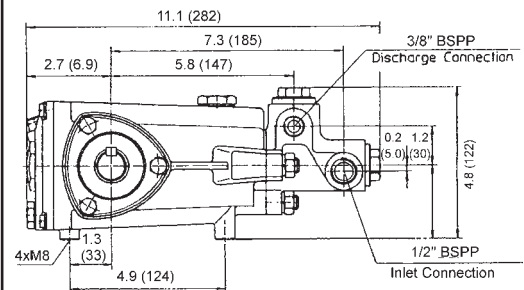
Repair Kits

| Kit | Part Number | List Price |
|-------------------------------|----------------|---------------|
| Plunger Packing Kit (P55W) | 09089 | \$196.11 |
| Plunger Packing Kit (P56W) | 09061 | \$206.89 |
| Valve Kit | 09041 | \$205.43 |
| Oil Seal Kit | 09202 | \$87.69 |

Mounting Accessories

| | Part Number | List Price |
|---------------------------------------|----------------|---------------|
| Bushings | | |
| 24mm Tapered H Bushing | 01074 | \$28.80 |
| Pulley & sheaves | | |
| 9.75" Cast Iron | | |
| 2 gr.-AB Section | 01055 | \$324.65 |
| 7.75" Cast Iron | | |
| 1 gr.-AB Section | 01061 | \$131.85 |
| 7.75" Cast Iron | | |
| 2 gr. - AB Section | 01062 | \$274.20 |
| Steel Box Rails | | |
| (L=9.25"xW=1.18"xH=1.62") | 01034 | \$173.90 |
| Plated Steel Channel Rails | | |
| (L=9.00"xW=2.12"xH=2.50") | 01075 | \$86.70 |
| Direct Drive Accessories: see page 34 | | |

P55/P56 - INCHES (mm)



P54-P59 Pumps

Direct Drive Accessories

Electric Drive

| Part Number | Connections to Electric Motor Type | List Price |
|-------------|--|------------|
| 01156 | Mounting Flange to 56C frames | \$28.30 |
| 06578 | Bell Housing to 182TC, 213TC, 215TC frames | \$63.08 |
| 09821 | Electric Motor Adapting Kit to 254/256TC | \$338.28 |



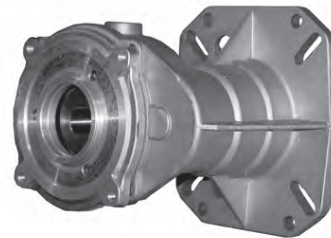
01156



06578

Gas Drive

| Part Number | Connections to Engine Type | List Price |
|-------------|---|------------|
| | Gear Boxes for | |
| 08495B | P54, P58 & P59; 2.176:1, 1" Bore, 18 HP | \$635.00 |
| 08495B-1.1 | P54-P59; 2.176:1, 1-1/8" Bore, 18HP | \$635.00 |



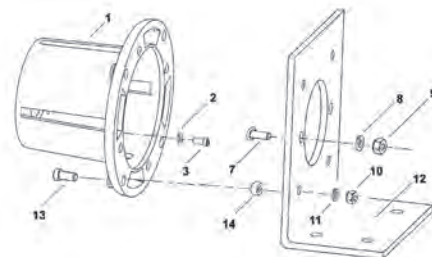
L-Jaw Coupler Sets

| Part Number | Size | Bore Diameters | Weight lbs. (kg) | List Price U.S \$ |
|--------------------|------|----------------|------------------|-------------------|
| 03400-L099-24-1 | L099 | 24mm x 1" | 2.25 (1.0) | \$451.00 |
| 03400-L099-24-1.18 | L099 | 24mm x 1-1/8" | 2.25 (1.0) | \$451.00 |
| 03400-L100-24-1 | L100 | 24mm x 1" | 2.8 (1.3) | \$537.95 |
| 03400-L100-24-1.18 | L100 | 24mm x 1-1/8" | 2.8 (1.3) | \$537.95 |
| 03400-L100-24-1.38 | L100 | 24mm x 1-3/8" | 2.8 (1.3) | \$532.50 |
| 03400-L099-24-0.58 | L099 | 24mm x 5/8" | 2.8 (1.3) | \$451.00 |
| 03400-L099-24-0.75 | L099 | 24mm x 3/4" | 2.8 (1.3) | \$451.00 |
| 03400-L099-24-0.78 | L099 | 24mm x 7/8" | 2.8 (1.3) | \$451.00 |
| 03400-L099-24-24 | L099 | 24mm x 24mm | 2.8 (1.3) | \$451.00 |



Hydraulic Drive

| Part Number | Hydraulic Kits | List Price |
|-------------|---|------------|
| HK-P54/9 | Hydraulic Motor Kit - 2 Bolt | \$182.80 |
| HK-P54/59-1 | Hydraulic Motor Kit with 1/4" Keyway - 2 Bolt | \$187.85 |



| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Price |
|---------|-------------|------------|-------|----------------|------------------|------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | |
| SP351W | 6.7 (25.2) | 3200 (220) | 1420 | 14.7 (11.0) | 0.79 (20) | \$3,345.00 |
| SP200W | 9.6 (36.2) | 2175 (150) | 1420 | 14.4 (10.7) | 0.94 (24) | \$3,740.00 |
| SP100W* | 11.2 (42.5) | 1885 (130) | 1420 | 14.6 (10.9) | 1.02 (26) | \$3,345.00 |

*SP100W-0011- Includes Viton Seals and Packing - \$4,245.00

Common Specification and Materials

| | U.S. | (Metric) |
|----------------------|----------------|----------|
| Stroke | 0.79" | (20 mm) |
| Max Inlet Temp | 160 °F | (70 °C) |
| Weight | 41.9 lbs | (19 kg) |
| Inlet Port | (2) 3/4" NPT | |
| Discharge Port | (2) 1/2" NPT | |

Materials Used

| | |
|-----------------|---------------------------------|
| Manifold | Brass |
| Plunger | Solid ceramic oxide |
| Valves | High Grade Stainless Steel |
| Seals | Nitrile with fabric reinforcing |
| Crankcase | Aluminum |

Repair Kits

| Kit | Part Number | List Price |
|----------------------------|-------------|------------|
| <u>Plunger Packing Kit</u> | | |
| (SP100) | 09077 | \$204.96 |
| (SP200) | 09798 | \$239.11 |
| (SP351) | 09076 | \$183.26 |
| Valve Kit | 09069 | \$305.15 |

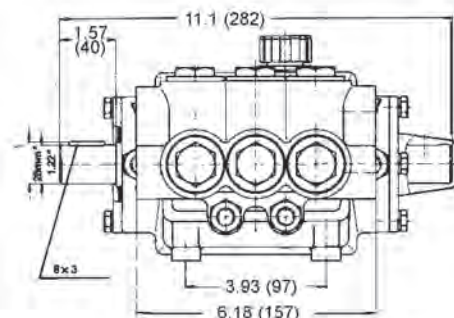
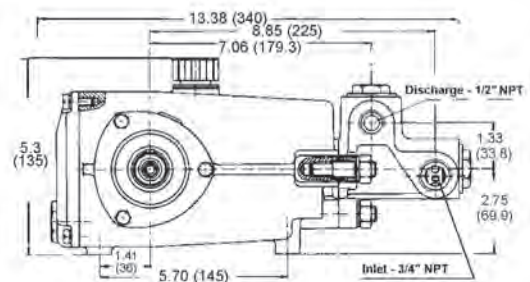
Mounting Accessories

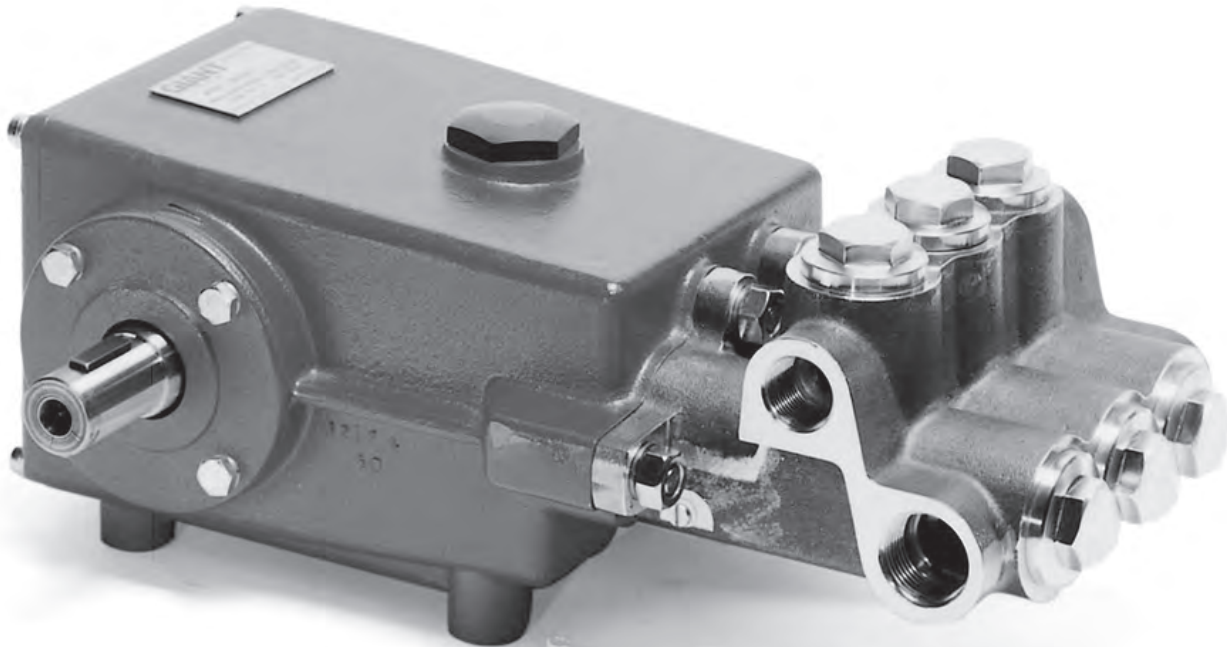
| | Part Number | List Price |
|--------------------------------------|-------------|------------|
| Bushings | | |
| 28mm Tapered H Bushing | 07175 | \$24.20 |
| Pulley & sheaves | | |
| 9.75" Cast Iron | | |
| 2 gr.-AB Section | 01055 | \$324.65 |
| 7.75" Cast Iron | | |
| 2gr.-AB Section | 01062 | \$274.20 |
| Plated Steel Channel Rails | | |
| (L=9.18"xW=1.88"xH=3.00") | | |
| | 07358* | \$76.65 |
| Bell Housing to 184T Electric | 08899 | \$173.90 |
| Hydraulic Kit to SAE 2B | HK-SP-BP100 | \$404.75 |

* Commercial Discount

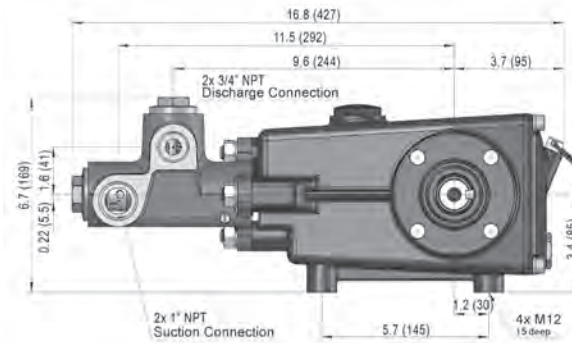
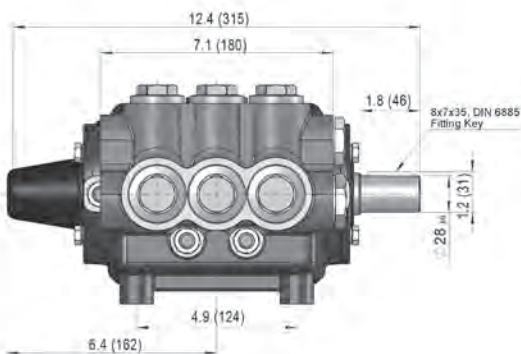


SP100W/SP200/SP351W - INCHES (mm)





MP SERIES - INCHES (mm)



| Model | Flow | Pressure Continuous/ Intermittent | Speed | Power Required | Plunger Diameter | Stroke | Price |
|--------|-------------|---|-------|-------------------|---------------------|-----------|------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| MP4120 | 8.9 (33.8) | 3625 (250) | 1450 | 23.1 (17.2) | 0.79 (20) | 1.02 (26) | \$6,315.00 |
| MP4124 | 12.8 (48.6) | 2610 (180) / 3000 (205) | 1450 | 24.0 (17.9) | 0.95 (24) | 1.02 (26) | \$6,315.00 |
| MP4135 | 13.5 (51.2) | 1885 (130) | 1100 | 18.2 (13.6) | 1.10 (28) | 1.02 (26) | \$5,740.00 |
| MP4130 | 15.4 (58.2) | 1600 (110) / 2000 (140) | 1100 | 17.6 (13.1) | 1.18 (30) | 1.02 (26) | \$6,070.00 |
| MP4126 | 17.9 (67.7) | 1600 (110) | 1100 | 20.4 (15.2) | 1.18 (30) | 1.18 (30) | \$5,740.00 |

Common Specification and Materials

| | U.S. | (Metric) |
|----------------------|--------------|----------|
| Max Inlet Temp | 160 °F | (70 °C) |
| Weight | 66 lbs | (30 kg) |
| Inlet Port | (2) 1" NPT | |
| Discharge Port..... | (2) 3/4" NPT | |

Materials Used

| | |
|-----------------|---------------------------------|
| Manifold | Bronze |
| Plunger | Solid ceramic oxide |
| Valves | High Grade Stainless Steel |
| Seals..... | Nitrile with fabric reinforcing |
| Crankcase | Spheroidal Cast Iron |

Repair Kits

| Kit | Part Number | List Price |
|--|----------------|---------------|
| Plunger Packing Kit (MP4120) | 09044 | \$213.39 |
| Plunger Packing Kit (MP4124) | 09300 | \$268.64 |
| Plunger Packing Kit (MP4126/MP4130) | 09042 | \$216.94 |
| Plunger Packing Kit (MP4135) | 09665 | \$239.87 |
| Valve Repair Kit (MP4120) | 09802 | \$710.58 |
| Valve Repair Kit (MP4124) | 09803 | \$676.07 |
| Valve Repair Kit (MP4126/MP4135) | 09809 | \$676.94 |
| Valve Repair Kit (MP4130) | 09810 | \$711.56 |

Mounting Accessories

| | Part Number | List Price |
|--|----------------|---------------|
| Bushings | | |
| 28mm Tapered H Bushing | 07175* | \$24.20 |
| Pulley & sheaves | | |
| 9.75" Cast Iron 2 gr.-AB Section | 01055* | \$324.65 |
| 7.75" Cast Iron 2gr.-AB Section | 01062* | \$274.20 |
| Plated Steel Channel Rails (L=9.18"xW=1.88"xH=3.00") | 07358* | \$76.65 |
| Bell Housing | | |
| 256TC Motor | 06518 | \$519.35 |
| SAE-C Motor | 04760 | \$820.00 |
| Hydraulic Kits | | |
| SAE 2B Motor | HK-MP | \$581.40 |
| SAE C Motor | HK-MP-C | \$461.85 |

* Commercial Discount

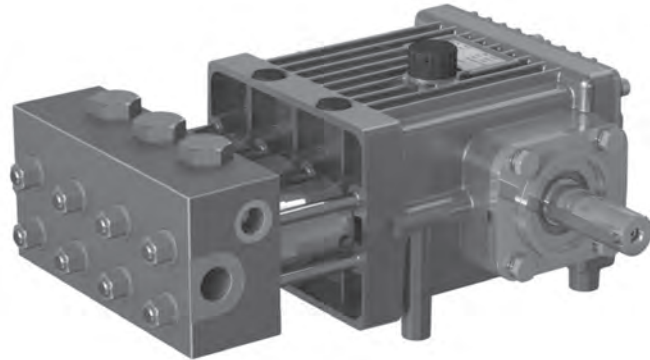
| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Stroke | Price |
|-------|------------------|------------------|------------|----------------|------------------|----------------|------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| P518 | 7.4 (28) | 7250 (500) | 1450 | 38.3 (28.6) | 0.71 (18) | 1.10 (28) | \$8,485.00 |

Common Specifications & Materials

| | U.S. | (Metric) |
|----------------------|--------------|-----------|
| Max Inlet Temp..... | 104 °F | (40 °C) |
| Weight | 73.8 lbs | (33.5 kg) |
| Inlet Port..... | (2) 1/2" BSP | |
| Discharge Port | (2) 3/4" BSP | |

Materials Used

| | |
|-----------------|---------------------------------|
| Manifold..... | Stainless Steel |
| Plunger..... | Hard Metal Coating |
| Valves..... | High Grade Stainless Steel |
| Seals | Nitrile with fabric reinforcing |
| Crankcase | Aluminum |

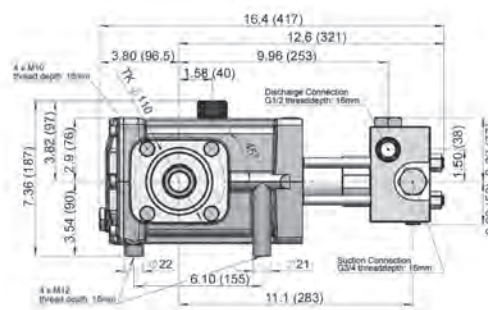
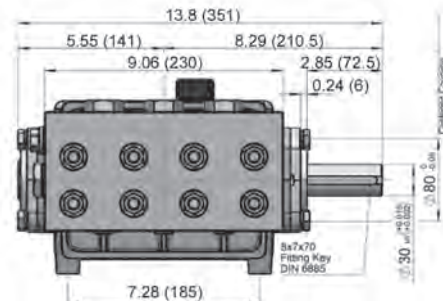


Mounting Accessories

| | Part Number | List Price |
|--|-----------------|------------|
| Plated Steel Channel Rails (L=9.18"xW=1.88"xH=3.00") | 07358* | \$76.65 |
| Hydraulic Kit w/SAE-C Motor | HK-P500-SAE-C-4 | \$809.65 |
| Bell Housing SAE-C Motor (4-Bolt) | 04760 | \$820.00 |

* Commercial Discount

P518 DIMENSIONS INCHES (mm)



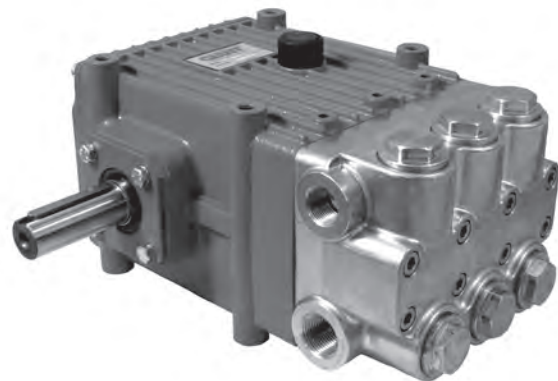
| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Stroke | Price |
|-------|-------------|------------|-------|----------------|------------------|-----------|------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| P533 | 22.7 (86.0) | 2175 (150) | 1450 | 34.1 (25.4) | 1.26 (32) | 1.02 (26) | \$7,265.00 |
| P532 | 24.4 (92.5) | 2175 (150) | 1450 | 36.6 (27.3) | 1.26 (32) | 1.10 (28) | \$7,265.00 |
| P536 | 26.4 (100) | 1740 (120) | 1450 | 31.6 (23.6) | 1.42 (36) | 0.95 (24) | \$7,265.00 |

Common Specifications & Materials

| | U.S. | (Metric) |
|----------------------|--------------|----------|
| Max Inlet Temp..... | 104 °F | (40 °C) |
| Weight | 64 lbs | (29 kg) |
| Inlet Port..... | (2) 1" BSP | |
| Discharge Port | (2) 3/4" BSP | |

Materials Used

| | |
|-----------------|---------------------------------|
| Manifold..... | Brass |
| Plunger..... | Solid ceramic oxide |
| Valves..... | High Grade Stainless Steel |
| Seals | Nitrile with fabric reinforcing |
| Crankcase | Aluminum |



Repair Kits

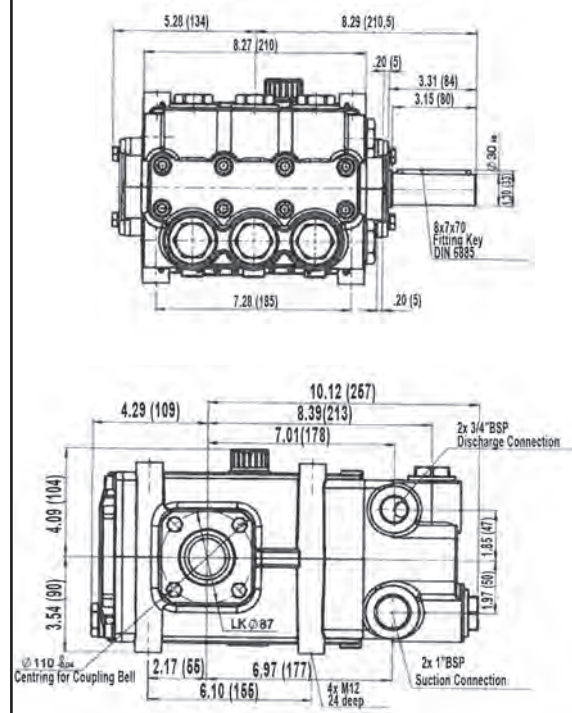
| Kit | Part Number | List Price |
|----------------------------|-------------|------------|
| Plunger Packing Kit | | |
| (P532/P533) | 09760 | \$406.57 |
| (P536) | 09753 | \$377.91 |
| Valve Kit | 09754 | \$747.97 |
| Oil Seal Kit | 09755 | \$127.28 |

Mounting Accessories

| | Part Number | List Price |
|--|-------------|------------|
| Plated Steel Channel Rails (L=9.18"xW=1.88"xH=3.00") | | |
| | 07358* | \$76.65 |
| Hydraulic Kit w/SAE-C Motor HK-P500-SAE-C-4 | | |
| | | \$809.65 |
| Bell Housing SAE-C Motor (4-Bolt) | | |
| | 04760 | \$820.00 |

* Commercial Discount

P532/P533/P536 DIMENSIONS INCHES (mm)



P540 & P541

| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Stroke | Price |
|-------|------------|------------|-------|----------------|------------------|-----------|------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| P540 | 35.4 (134) | 1450 (100) | 1450 | 35.3 (26.3) | 1.57 (40) | 1.02 (26) | \$8,095.00 |
| P541 | 35.4 (134) | 1450 (100) | 1450 | 35.3 (26.3) | 1.57 (40) | 1.02 (26) | \$7,835.00 |

Common Specifications & Materials

| | U.S. | (Metric) |
|---------------------|----------------|-----------|
| Max Inlet Temp..... | 104 °F | (40 °C) |
| Weight (P540)..... | 91.5 lbs | (41.5 kg) |
| Weight (P541)..... | 84.9 lbs | (38.5 kg) |
| Inlet Port..... | (2) 1-1/2" BSP | |
| Discharge Port..... | (2) 1" BSP | |

Materials Used

| | |
|----------------------|------------------------------------|
| Manifold (P540)..... | Brass |
| Manifold (P541)..... | Nickel-Plated Spheroidal Cast Iron |
| Plunger..... | Solid ceramic oxide |
| Valves..... | High Grade Stainless Steel |
| Seals..... | Nitrile with fabric reinforcing |
| Crankcase..... | Aluminum |



Repair Kits

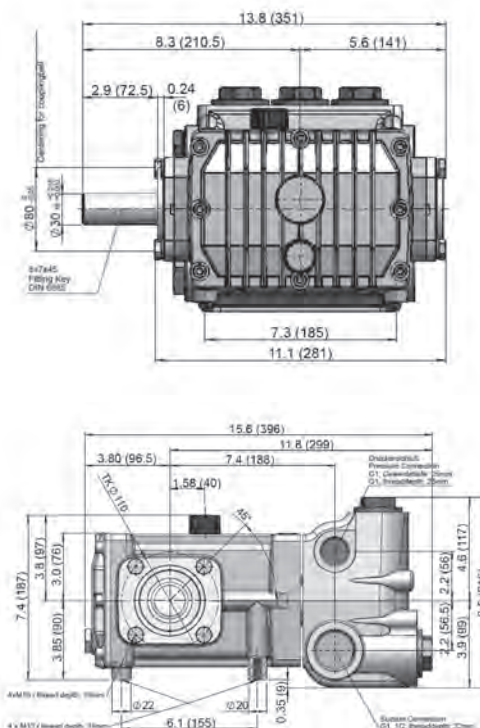
| Kit | Part Number | List Price |
|---------------------|-------------|------------|
| Plunger Packing Kit | 09776 | \$390.63 |
| Inlet Valve Kit | 09777 | \$447.01 |
| Discharge Valve Kit | 09778 | \$475.11 |
| Oil Seal Kit | 09755 | \$127.28 |

Mounting Accessories

| | Part Number | List Price |
|---|-----------------|------------|
| Plated Steel Channel Rails (L=9.18"W=1.88"xH=3.00") | 07358* | \$76.65 |
| Hydraulic Kit w/SAE-C Motor | HK-P500-SAE-C-4 | \$809.65 |
| Bell Housing SAE-C Motor (4-Bolt) | 04760 | \$820.00 |

* Commercial Discount

P540/P541 DIMENSIONS - INCHES (mm)



LP Series

Industrial Pumps

Pages 42 - 54

| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Stroke | Price |
|--------|------------|---------------|-------|----------------|------------------|-----------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| LP1000 | 3.4 (12.8) | 15,000 (1000) | 1000 | 36.4 (27.2) | 0.47 (12) | 1.65 (42) | \$19,460.00 |
| LP800 | 4.6 (17.4) | 11,600 (800) | 1000 | 38.1 (28.4) | 0.55 (14) | 1.65 (42) | \$19,460.00 |
| LP900 | 6.0 (22.8) | 8700 (600) | 1000 | 37.3 (27.8) | 0.63 (16) | 1.65 (42) | \$19,460.00 |

Common Specifications & Materials

| | U.S. | (Metric) |
|----------------------|--------------|----------|
| Max Inlet Temp | 104 °F | (40 °C) |
| Weight | 115 lbs | (52 kg) |
| Inlet Port | (2) 1/2" BSP | |
| Discharge Port | (2) 3/8" BSP | |

Materials Used

| | |
|-----------------|------------------------|
| Manifold | AISI 303 S.S. |
| Plunger | Zirconia Ceramic Oxide |
| Valves | Stainless Steel |
| Seals | Aramid Packing |
| Crankcase | Spheroidal Cast Iron |



Repair Kits

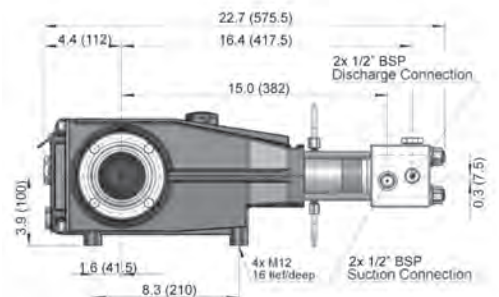
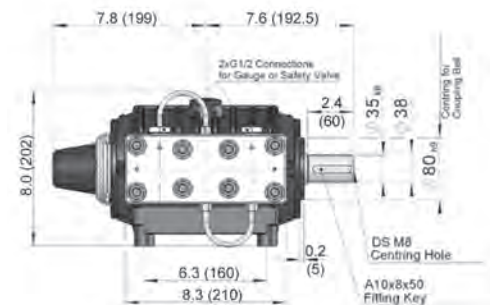
| Kit | Part Number | List Price |
|-----------------------------|-------------|------------|
| <u>Plunger Packing Kit:</u> | | |
| (LP1000) | 09517 | \$716.39 |
| (LP800) | 09618 | \$626.84 |
| (LP900) | 09729 | \$559.68 |
| Valve Kit | 09518 | \$3,135.84 |
| Oil Seal Kit | 09577 | \$48.07 |

Mounting Accessories

| | Part Number | List Price |
|-----------------------------------|---------------|------------|
| Bushings | | |
| 35mm H Bushing | 06496* | \$139.95 |
| Pulley & sheaves | | |
| 12.75" Cast Iron | | |
| 4gr. AB Section | 07165* | \$190.30 |
| Plated Steel Channel Rails | | |
| L=11.75" | | |
| W=1.88" | | |
| H=3.00" | 07357 | \$151.95 |
| Hydraulic Kit | | |
| w/SAE-C Motor | HK-LP-SAE-C-4 | \$809.65 |

* Commercial Discount

LP800/LP900/LP1000 - INCHES (mm)



| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Stroke | Price |
|------------|------------|------------|-------|----------------|------------------|-----------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| LP600 | 9.8 (37.0) | 6000 (400) | 1000 | 38.8 (29.0) | 0.79 (20) | 1.65 (42) | \$10,990.00 |
| LP600-4000 | 9.8 (37.0) | 6000 (400) | 1000 | 38.8 (29.0) | 0.79 (20) | 1.65 (42) | \$15,835.00 |

Common Specifications & Materials

| | U.S. | (Metric) |
|----------------------|----------------|----------|
| Max Inlet Temp | 140 °F | (60 °C) |
| Weight | 119 lbs | (54 kg) |
| Inlet Port | (2) 1-1/4" BSP | |
| Discharge Port | (2) 1" BSP | |

Materials Used

| | |
|-----------------|---------------------------------|
| Manifold | AISI 303 S.S. |
| Plunger | Solid Ceramic Oxide |
| Valves | Duplex Steel |
| Seals | Nitrile with Fabric Reinforcing |
| Crankcase | Spheroidal Cast Iron |

***LP600-4000 - All internal wet-end parts are at least 303 Stainless Steel.**



Repair Kits

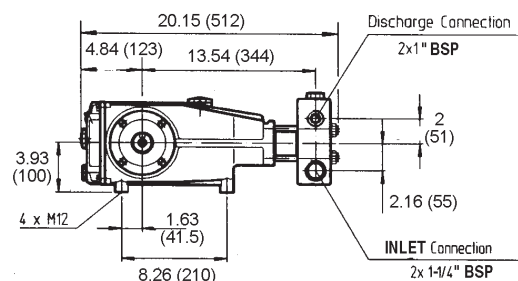
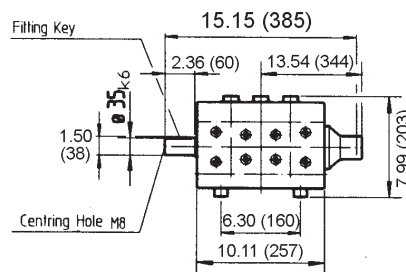
| Kit | Part Number | List Price |
|----------------------------------|-------------|------------|
| Plunger Packing Kit (LP600) | 09197 | \$878.64 |
| Plunger Packing Kit (LP600-4000) | 09197-4000 | \$937.65 |
| Valve Kit (3) | 09195 | \$772.44 |
| Oil Seal Kit | 09577 | \$48.07 |

Mounting Accessories

| | Part Number | List Price |
|-----------------------------------|---------------|------------|
| Bushings | | |
| 35mm H Bushing | 06496* | \$139.95 |
| Pulley & sheaves | | |
| 12.75" Cast Iron | | |
| 4gr. AB Section | 07165* | \$190.30 |
| Plated Steel Channel Rails | | |
| (L=11.75"xW1.88"xH=3.00") | 07357 | \$151.95 |
| Hydraulic Kit | | |
| w/SAE-C Motor | HK-LP-SAE-C-4 | \$809.65 |

* Commercial Discount

LP600 DIMENSIONS - INCHES (mm)



| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Stroke | Price |
|-------|------------------|------------------|------------|----------------|------------------|----------------|------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| LP460 | 9.8 (37.0) | 6000 (400) | 1000 | 39.2 (29.2) | 0.79 (20) | 1.65 (42) | \$8,540.00 |
| LP470 | 12.2 (46.0) | 4640 (320) | 1000 | 39.0 (29.1) | 0.87 (22) | 1.65 (42) | \$8,250.00 |

Common Specifications & Materials

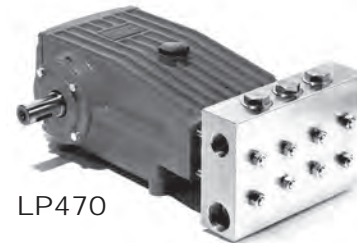
| | U.S. | (Metric) |
|-----------------------------|----------------|----------|
| Max Inlet Temp (LP460) | 104 °F | (40 °C) |
| Max Inlet Temp (LP470) | 140 °F | (60 °C) |
| Weight | 119 lbs | (54 kg) |
| Inlet Port | (2) 1-1/4" BSP | |
| Discharge Port | (2) 1" BSP | |

Materials Used

| | |
|------------------------|---------------------------------|
| Manifold (LP460) | Special Brass |
| Manifold (LP470) | Stainless Steel |
| Plunger | Solid Ceramic Oxide |
| Valves | Duplex Steel |
| Seals | Nitrile with Fabric Reinforcing |
| Crankcase | Spheroidal Cast Iron |



LP460



LP470

Repair Kits

| Kit | Part Number | List Price |
|----------------------|-------------|------------|
| Plunger Packing Kit: | | |
| (LP460) | 09743 | \$840.69 |
| (LP470) | 09741 | \$60.89 |
| Valve Kit (LP460) | 09744 | \$2,446.27 |
| Valve Kit (LP470) | 09742 | \$2,649.01 |
| Oil Seal Kit | 09577 | \$48.07 |

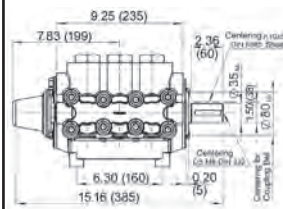
Mounting Accessories

| | Part Number | List Price |
|-----------------------------------|---------------|------------|
| Bushings | | |
| 35mm H Bushing | 06496* | \$139.95 |
| Pulley & sheaves | | |
| 12.75" Cast Iron | | |
| 4gr. AB Section | 07165* | \$190.30 |
| Plated Steel Channel Rails | | |
| (L=11.75"xW1.88"xH=3.00") | 07357 | \$151.95 |
| Hydraulic Kit | | |
| w/SAE-C Motor | HK-LP-SAE-C-4 | \$809.65 |

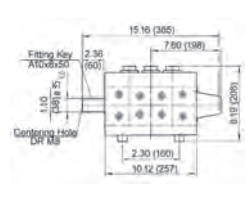
* Commercial Discount

LP460/LP470 DIMENSIONS - INCHES (mm)

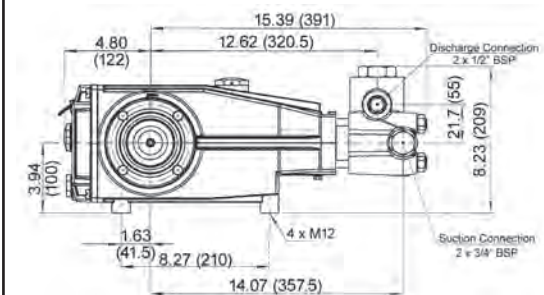
LP460



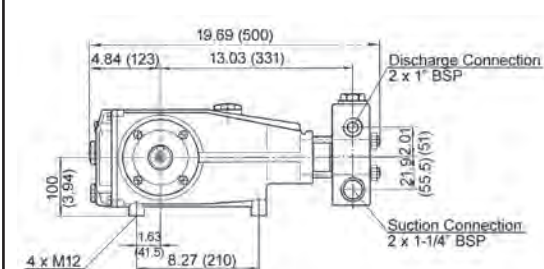
LP470



LP460



LP470



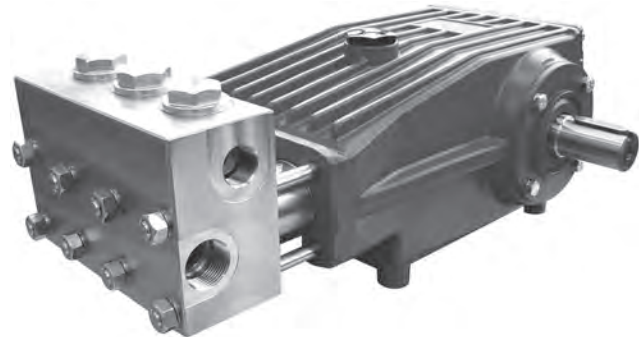
| Model | Flow Continuous/ Intermittent | Pressure | Speed Continuous/ Intermittent | Power Required | Plunger Diameter | Stroke | Price |
|-------|-------------------------------------|------------|--------------------------------------|-------------------|---------------------|-----------|------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| LP605 | 10.6 (40.0) | 6090 (420) | 1100 | 44.5 (33.2) | 0.79 (20) | 1.65 (42) | \$9,420.00 |
| LP305 | 15.9 (60.0) / 18.2 (69) | 4060 (280) | 1100 / 1245 | 51.0 (38.0) | 0.95 (24) | 1.65 (42) | \$9,420.00 |

Common Specifications & Materials

| | U.S. | (Metric) |
|----------------------|--------------|-----------|
| Max Inlet Temp | 140 °F | (60 °C) |
| Weight | 125 lbs | (56.5 kg) |
| Inlet Port | (2) 1" NPT | |
| Discharge Port..... | (2) 3/4" NPT | |

Materials Used

| | |
|-----------------|---------------------------------|
| Manifold | AISI 303 S.S. |
| Plunger | Solid ceramic oxide |
| Valves | High Grade Stainless Steel |
| Seals..... | Nitrile with fabric reinforcing |
| Crankcase | Spheroidal Cast Iron |



Repair Kits

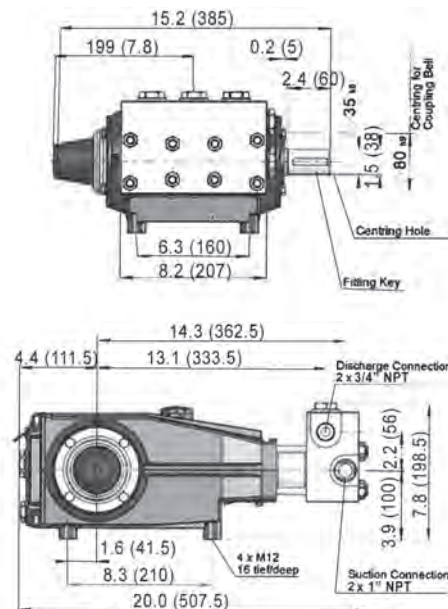
| Kit | Part Number | List Price |
|----------------------|----------------|---------------|
| Plunger Packing Kit: | | |
| (LP305) | 09789 | \$226.63 |
| (LP605) | 09791 | \$651.84 |
| Valve Kit | 09792 | \$836.78 |
| Oil Seal Kit | 09577 | \$48.07 |

Mounting Accessories

| | Part Number | List Price |
|-----------------------------------|----------------|---------------|
| Bushings | | |
| 35mm H Bushing | 06496* | \$139.95 |
| Pulley & sheaves | | |
| 12.75" Cast Iron | | |
| 4gr. AB Section | 07165* | \$190.30 |
| Plated Steel Channel Rails | | |
| (L=11.75"xW1.88"xH=3.00") | 07357 | \$151.95 |
| Hydraulic Kit | | |
| w/SAE-C Motor | HK-LP-SAE-C-4 | \$809.65 |

* Commercial Discount

LP605/LP305 DIMENSIONS - INCHES (mm)



LP301A & LP301A-SSP

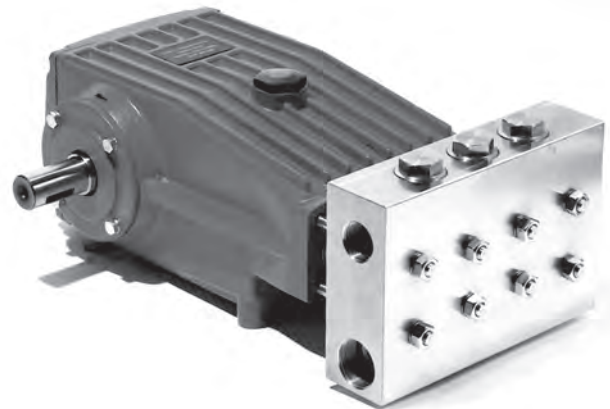


| Model | Flow Continuous/ Intermittent | Pressure | Speed Continuous/ Intermittent | Power Required | Plunger Diameter | Stroke | Price |
|------------|-------------------------------------|------------|--------------------------------------|----------------------------|---------------------|-----------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| LP301A* | 14.2 (53.6) 18.0 (68.1) | 4000 (275) | 1000 1268 | 39.2 (29.2) 49.7 (37.0) | 0.95 (24) | 1.65 (42) | \$9,900.00 |
| LP301A-SSP | 14.2 (53.6) 18.0 (68.1) | 4000 (275) | 1000 1268 | 39.2 (29.2) 49.7 (37.0) | 0.95 (24) | 1.65 (42) | \$10,455.00 |

* LP301A-0020- Includes Teflon V-Sleeves - \$11,590.00
 LP301A-0021- Includes Teflon Seals/Viton O-Rings - \$11,590.00
 LP301A-0056 - Includes Rope Packing/AFLAS O-Rings - \$15,215.00
 LP301A-0081 - Includes Viton O-Rings and Teflon/Nitrile Seals - \$11,590.00

Common Specifications & Materials

| | U.S. | (Metric) |
|---|---------------------------------|----------|
| Max Inlet Temp | 140 °F | (60 °C) |
| Weight | 119 lbs | (54 kg) |
| Inlet Port | (2) 1-1/4" BSP | |
| Discharge Port..... | (2) 1" BSP | |
| Materials Used | | |
| Manifold | AISI 303 S.S. | |
| Plunger (except-SSP)..... | Solid ceramic oxide | |
| Plunger (-SSP) | Stainless Steel | |
| Valves | Duplex Steel | |
| Seals..... | Nitrile with fabric reinforcing | |
| Crankcase | Spheroidal Cast Iron | |
| *LP301-4000 - All internal wet-end parts | | |
| are at least 303 Stainless Steel. | | |



Repair Kits

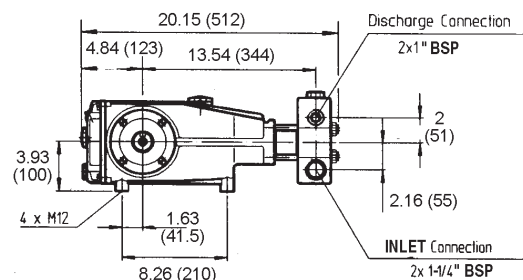
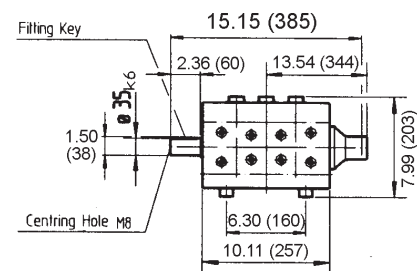
| Kit | Part Number | List Price |
|-----------------------------|-------------|------------|
| Plunger Packing Kit: | | |
| (LP301A) | 09459 | \$488.83 |
| (LP301A-4000) | 09459-4000 | \$539.80 |
| Valve Kit (3) | 09196 | \$492.36 |
| Oil Seal Kit | 09577 | \$48.07 |

Mounting Accessories

| | Part Number | List Price |
|-----------------------------------|---------------|------------|
| Bushings | | |
| 35mm H Bushing | 06496* | \$139.95 |
| Pulley & sheaves | | |
| 12.75" Cast Iron | | |
| 4gr. AB Section | 07165* | \$190.30 |
| Plated Steel Channel Rails | | |
| (L=11.75"xW1.88"xH=3.00") | 07357 | \$151.95 |
| Hydraulic Kit | | |
| w/SAE-C Motor | HK-LP-SAE-C-4 | \$809.65 |

* Commercial Discount

LP301 DIMENSIONS - INCHES (mm)



LP301AGB

Gearbox with Pinion Drive

| Model | Flow Continuous/ Intermittent | Pressure | Speed Continuous/ Intermittent | Power Required | Plunger Diameter | Stroke | Price |
|----------|-------------------------------------|------------|--------------------------------------|----------------------------|---------------------|-----------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| LP301AGB | 14.2 (53.6) 18.0 (68.1) | 4000 (275) | 1000 1268 | 39.2 (29.2) 49.7 (37.0) | 0.95 (24) | 1.65 (42) | \$13,910.00 |

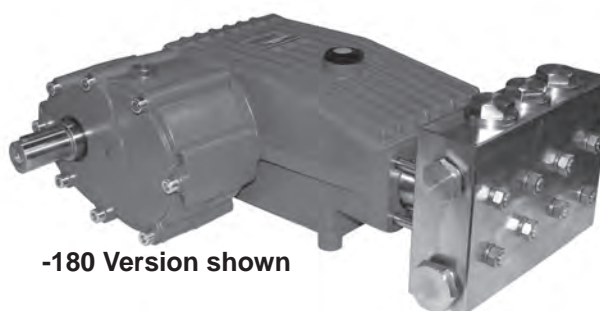
Common Specifications & Materials

| | U.S. | (Metric) |
|----------------------|----------------|----------|
| Max Inlet Temp | 140 °F | (60 °C) |
| Weight | 172 lbs | (78 kg) |
| Inlet Port | (2) 1-1/4" BSP | |
| Discharge Port | (2) 1" BSP | |

Materials Used

| | |
|----------------------------|---------------------------------|
| Manifold | AISI 303 S.S. |
| Plunger (except-SSP) | Solid ceramic oxide |
| Plunger (-SSP) | Stainless Steel |
| Valves | Duplex Steel |
| Seals | Nitrile with fabric reinforcing |
| Crankcase | Spheroidal Cast Iron |

Gear Ratio **2.0:1**



-180 Version shown

Available Gearbox orientations -
90°, 180° and 270° positions

Repair Kits

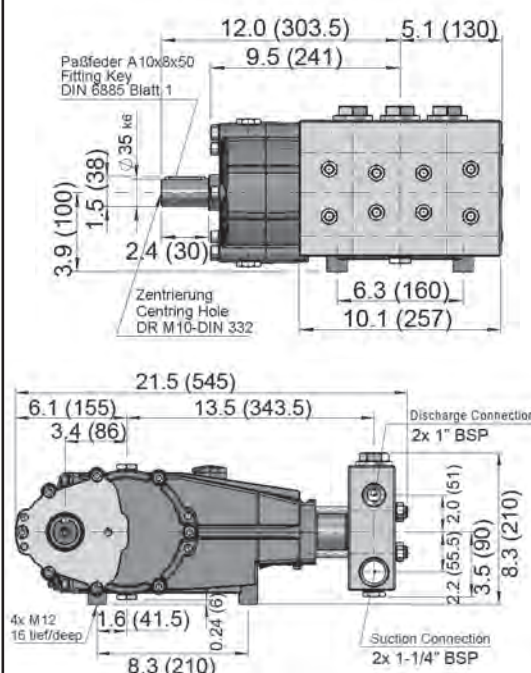
| Kit | Part Number | List Price |
|---------------------|----------------|---------------|
| Plunger Packing Kit | 09459 | \$488.83 |
| Valve Kit (3) | 09196 | \$492.36 |
| Valve Kit (6) | 09196A | \$984.72 |
| Oil Seal Kit | 09577 | \$48.07 |

Mounting Accessories

| | Part Number | List Price |
|--|----------------|---------------|
| Bushings | | |
| 35mm H Bushing | 06496* | \$139.95 |
| Pulley & sheaves | | |
| 12.75" Cast Iron | | |
| 4gr. AB Section | 07165* | \$190.30 |
| Plated Steel Channel Rails (L=11.75"xW1.88"xH=3.00") | 07357 | \$151.95 |

* Commercial Discount

LP301GB DIMENSIONS - INCHES (mm)



LP301AGB

Gearbox with Pinion Drive

| Model | Flow Continuous/ Intermittent | Pressure | Speed Continuous/ Intermittent | Power Required | Plunger Diameter | Stroke | Price |
|------------|-------------------------------------|------------|--------------------------------------|----------------------------|---------------------|-----------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| LP301AGBHS | 14.2 (53.6) 18.0 (68.1) | 4000 (275) | 1000 1268 | 37.9 (28.3) 50.0 (37.0) | 0.95 (24) | 1.65 (42) | \$14,130.00 |

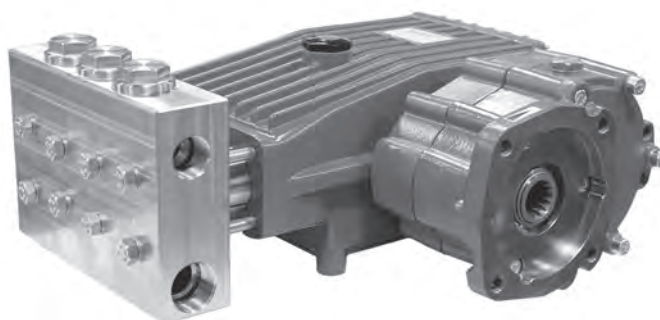
Common Specifications & Materials

| | U.S. | (Metric) |
|----------------------|----------------|----------|
| Max Inlet Temp | 140 °F | (60 °C) |
| Weight | 119 lbs | (54 kg) |
| Inlet Port | (2) 1-1/4" BSP | |
| Discharge Port..... | (2) 1" BSP | |

Materials Used

| | |
|-----------------|---------------------------------|
| Manifold | AISI 303 S.S. |
| Plunger | Solid ceramic oxide |
| Valves | Duplex Steel |
| Seals..... | Nitrile with fabric reinforcing |
| Crankcase | Spheroidal Cast Iron |

Gear Ratio **2.0:1**



Available Gearbox orientations -
90°, 180° and 270° positions

Repair Kits

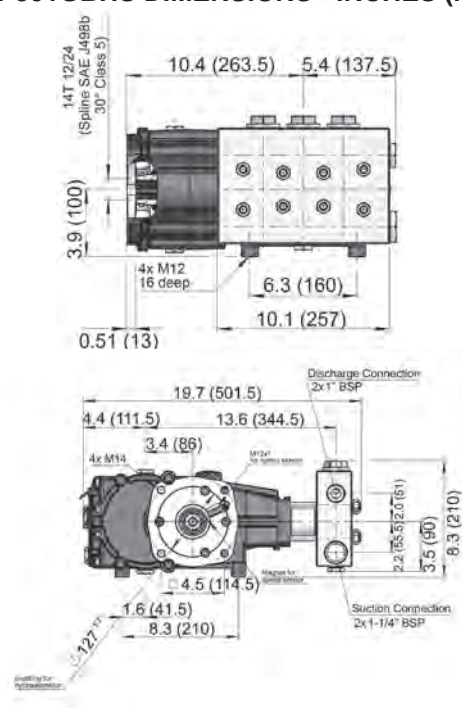
| Kit | Part Number | List Price |
|---------------------|----------------|---------------|
| Plunger Packing Kit | 09459 | \$488.83 |
| Valve Kit (3) | 09196 | \$492.36 |
| Valve Kit (6) | 09196A | \$984.72 |
| Oil Seal Kit | 09577 | \$48.07 |

Mounting Accessories

| | Part Number | List Price |
|--|----------------|---------------|
| Bushings | | |
| 35mm H Bushing | 06496* | \$139.95 |
| Pulley & sheaves | | |
| 12.75" Cast Iron | | |
| 4gr. AB Section | 07165* | \$190.30 |
| Plated Steel Channel Rails (L=11.75"xW1.88"xH=3.00") | 07357 | \$151.95 |

* Commercial Discount

LP301GBHS DIMENSIONS - INCHES (mm)



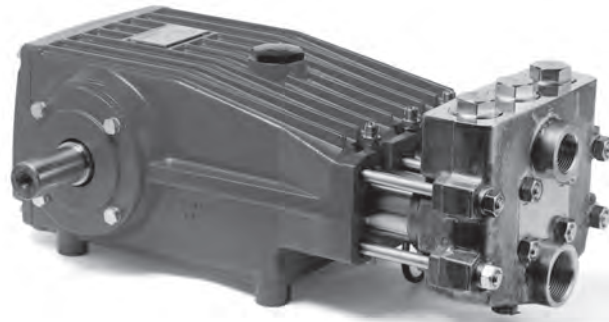
| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Stroke | Price |
|-------|-------------|------------|-------|----------------|------------------|-----------|------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| LP400 | 15.1 (57.0) | 3600 (250) | 1000 | 37.5 (28.0) | 0.94 (24) | 1.65 (42) | \$8,385.00 |
| LP450 | 19.7 (74.5) | 2600 (180) | 1000 | 35.3 (26.3) | 1.10 (28) | 1.65 (42) | \$8,385.00 |
| LP350 | 22.6 (85.5) | 2300 (160) | 1000 | 36.2 (27.0) | 1.18 (30) | 1.65 (42) | \$8,385.00 |

Common Specifications & Materials

| | U.S. | (Metric) |
|----------------------|----------------|----------|
| Max Inlet Temp | 140 °F | (60 °C) |
| Weight | 110 lbs | (50 kg) |
| Inlet Port | (2) 1-1/4" BSP | |
| Discharge Port | (2) 1" BSP | |

Materials Used

| | |
|-----------------|---------------------------------|
| Manifold | Aluminum Bronze |
| Plunger | Solid ceramic oxide |
| Valves | Duplex Steel |
| Seals | Nitrile with fabric reinforcing |
| Crankcase | Spheroidal Cast Iron |



Repair Kits

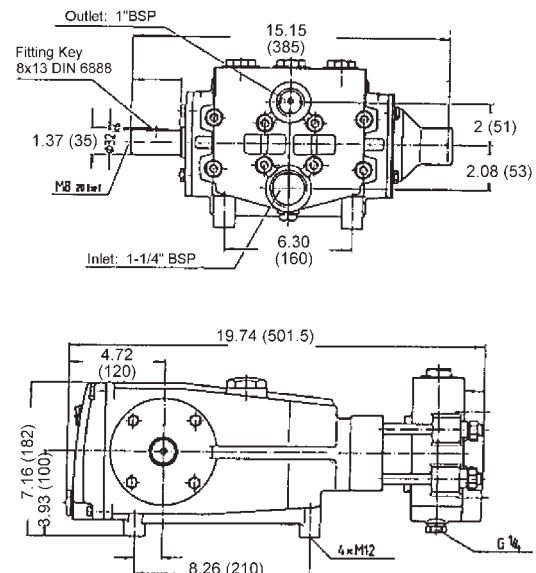
| Kit | Part Number | List Price |
|-----------------------------|-------------|------------|
| Plunger Packing Kit (LP350) | 09546 | \$278.82 |
| Plunger Packing Kit (LP400) | 09548 | \$259.05 |
| Plunger Packing Kit (LP450) | 09549 | \$376.69 |
| Valve Kit (3) | 09196 | \$492.36 |
| Oil Seal Kit | 09577 | \$48.07 |

Mounting Accessories

| | Part Number | List Price |
|-----------------------------------|---------------|------------|
| Bushings | | |
| 35mm H Bushing | 06496* | \$139.95 |
| Pulley & sheaves | | |
| 12.75" Cast Iron | | |
| 4gr. AB Section | 07165* | \$190.30 |
| Plated Steel Channel Rails | | |
| (L=11.75"xW1.88"x H=3.00") | | |
| | 07357 | \$151.95 |
| Hydraulic Kit | | |
| w/SAE-C Motor | HK-LP-SAE-C-4 | \$809.65 |

* Commercial Discount

LP350, LP400, LP450 - INCHES (mm)



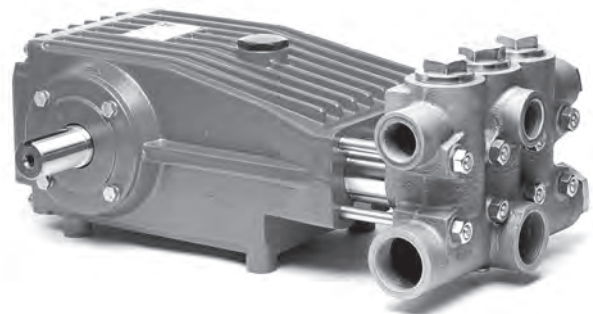
| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Stroke | Price |
|----------|--------------|------------|-------|----------------|------------------|-----------|------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| LP200 | 19.0 (72.1) | 2900 (200) | 1000 | 38.3 (28.6) | 1.10 (28) | 1.65 (42) | \$9,835.00 |
| LP200-SS | 19.0 (72.1) | 2900 (200) | 1000 | 38.3 (28.6) | 1.10 (28) | 1.65 (42) | \$9,890.00 |
| LP250 | 26.0 (98.3) | 2200 (150) | 1000 | 39.7 (29.6) | 1.26 (32) | 1.65 (42) | \$9,835.00 |
| LP121A | 32.5 (123.1) | 1740 (120) | 1000 | 39.3 (29.3) | 1.42 (36) | 1.65 (42) | \$9,835.00 |

Common Specifications & Materials

| | U.S. | (Metric) |
|----------------------|----------------|----------|
| Max Inlet Temp | 140 °F | (60 °C) |
| Weight | 119 lbs | (54 kg) |
| Inlet Port | (3) 1-1/2" BSP | |
| Discharge Port..... | (3) 1" BSP | |

Materials Used

| | |
|-------------------------------|---------------------------------|
| Manifold (except LP200-SS) .. | Aluminum Bronze |
| Manifold (LP200-SS) | Stainless Steel |
| Plunger | Solid ceramic oxide |
| Valves | Duplex Steel |
| Seals..... | Nitrile with fabric reinforcing |
| Crankcase | Spheroidal Cast Iron |



Repair Kits

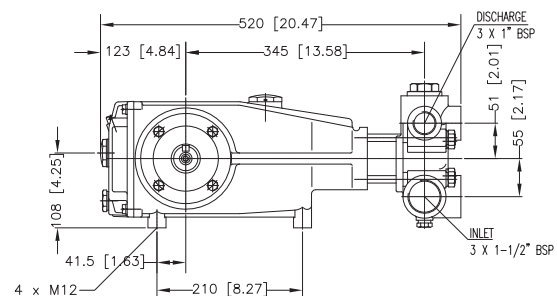
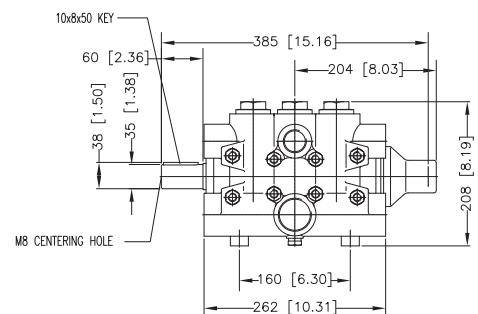
| Kit | Part Number | List Price |
|----------------------------|-------------|------------|
| <u>Plunger Packing Kit</u> | | |
| (LP200) | 09307 | \$373.57 |
| (LP250) | 09308 | \$590.95 |
| Valve Kit (3) | 09196 | \$492.36 |
| Oil Seal Kit | 09577 | \$48.07 |

Mounting Accessories

| | Part Number | List Price |
|-----------------------------------|---------------|------------|
| Bushings | | |
| 35mm H Bushing | 06496* | \$139.95 |
| Pulley & sheaves | | |
| 12.75" Cast Iron | | |
| 4gr. AB Section | 07165* | \$190.30 |
| Plated Steel Channel Rails | | |
| (L=11.75"xW1.88"xH=3.00") | 07357 | \$151.95 |
| Hydraulic Kit | | |
| w/SAE-C Motor | HK-LP-SAE-C-4 | \$809.65 |

* Commercial Discount

LP121A/LP200/LP250 DIMENSIONS- INCHES (mm)



LP200GB



Gearbox with Pinion Drive

| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Stroke | Price |
|------------|------------------|------------------|------------|----------------|------------------|----------------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| LP200GB | 19.0 (72.1) | 2900 (200) | 1000 | 38.3 (28.6) | 1.10 (28) | 1.65 (42) | \$13,855.00 |
| LP200GB-SS | 19.0 (72.1) | 2900 (200) | 1000 | 38.3 (28.6) | 1.10 (28) | 1.65 (42) | \$13,910.00 |

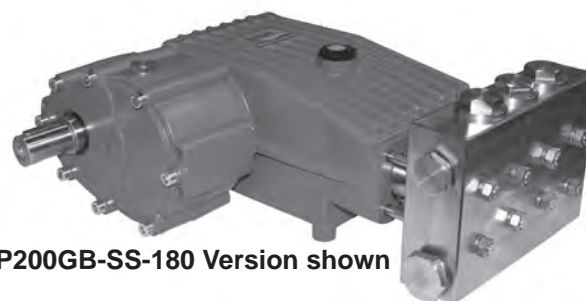
Common Specifications & Materials

| | U.S. | (Metric) |
|----------------------|----------------|----------|
| Max Inlet Temp | 140 °F | (60 °C) |
| Weight | 119 lbs | (54 kg) |
| Inlet Port | (3) 1-1/4" BSP | |
| Discharge Port..... | (3) 1" BSP | |

Materials Used

| | |
|-----------------------------|---------------------------------|
| Manifold (LP200GB) | Aluminum Bronze |
| Manifold (LP200GB-SS) | Stainless Steel |
| Plunger | Solid ceramic oxide |
| Valves | Duplex Steel |
| Seals..... | Nitrile with fabric reinforcing |
| Crankcase | Spheroidal Cast Iron |

Gear Ratio **2.0:1**



LP200GB-SS-180 Version shown

**Available Gearbox orientations -
90°, 180° and 270° positions**

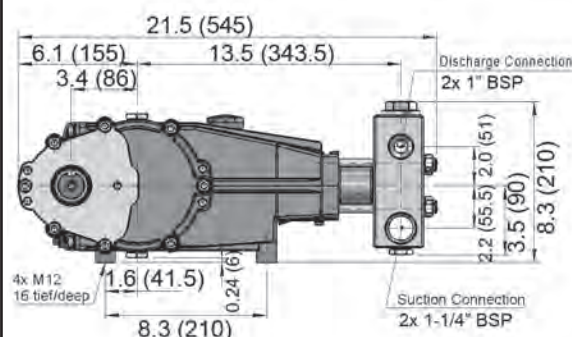
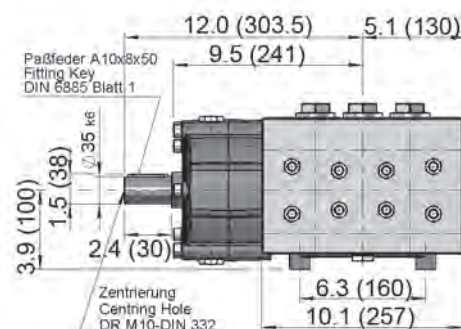
Repair Kits

| Kit | Part Number | List Price |
|-----------------------------|-------------|------------|
| <u>Plunger Packing Kit:</u> | | |
| (LP200) | 09307 | \$373.57 |
| (LP250) | 09308 | \$590.95 |
| Valve Kit (3) | 09196 | \$492.36 |
| Oil Seal Kit | 09577 | \$48.07 |

Mounting Accessories

| | Part Number | List Price |
|-----------------------------------|-------------|------------|
| Plated Steel Channel Rails | | |
| (L=11.75"xW1.88"xH=3.00") | 07357 | \$151.95 |

LP200GB-SS-180 DIMENSIONS- INCHES (mm)



LP200GBHS Hydraulic Drive

| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Stroke | Price |
|-------------------|------------------|------------------|------------|----------------|------------------|----------------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| LP200GBHS | 19.0 (72.1) | 2900 (200) | 1000 | 38.3 (28.6) | 1.10 (28) | 1.65 (42) | \$14,075.00 |
| LP200GBHS-SS | 19.0 (72.1) | 2900 (200) | 1000 | 38.3 (28.6) | 1.10 (28) | 1.65 (42) | \$14,130.00 |
| LP200GBHS-5100-SS | 19.0 (72.1) | 2900 (200) | 1000 | 38.3 (28.6) | 1.10 (28) | 1.65 (42) | \$21,475.00 |

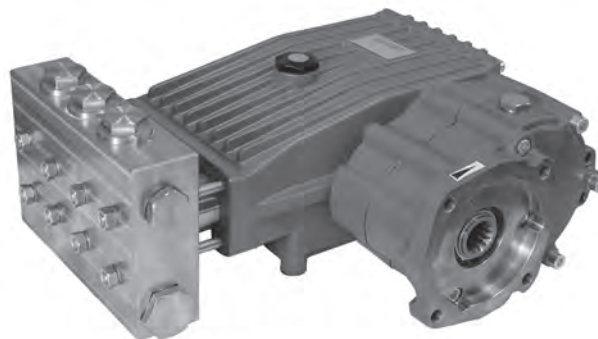
Common Specifications & Materials

| | U.S. | (Metric) |
|----------------------|----------------|----------|
| Max Inlet Temp | 140 °F | (60 °C) |
| Weight | 119 lbs | (54 kg) |
| Inlet Port | (3) 1-1/2" BSP | |
| Discharge Port | (3) 1" BSP | |

Materials Used

| | |
|-------------------------------|---------------------------------|
| Manifold (except LP200-SS) .. | Aluminum Bronze |
| Manifold (LP200-SS) | Stainless Steel |
| Plunger | Solid ceramic oxide |
| Valves | Duplex Steel |
| Seals | Nitrile with fabric reinforcing |
| Crankcase | Spheroidal Cast Iron |

Gear Ratio **2.0:1**



**Available Gearbox orientations -
90°, 180° and 270° positions**

Repair Kits / Accessories

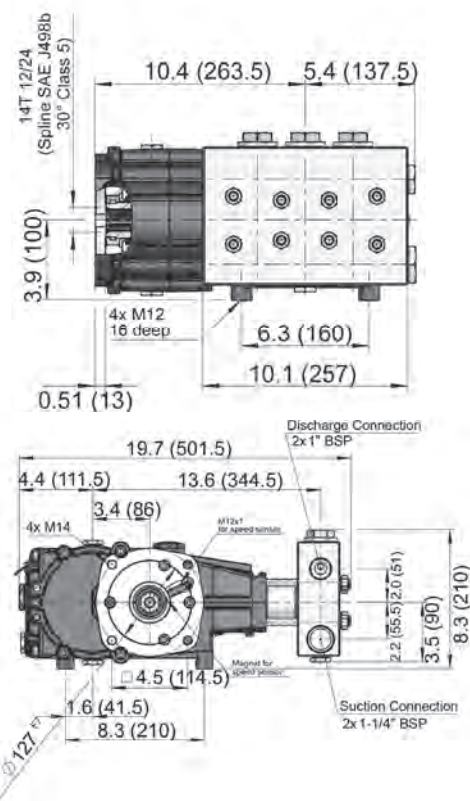
| Kit | Part Number | List Price |
|-----------------------------|-------------|------------|
| <u>Plunger Packing Kit:</u> | | |
| (LP200) | 09307 | \$373.57 |
| (LP250) | 09308 | \$590.95 |
| Valve Kit (3) | 09196 | \$492.36 |
| Oil Seal Kit | 09577 | \$48.07 |
| Anti-Seize | 03325* | \$7.22 |

* Commercial Discount

Mounting Accessories

| | Part Number | List Price |
|-----------------------------------|-------------|------------|
| Plated Steel Channel Rails | | |
| (L=11.75"xW1.88"xH=3.00") | 07357 | \$151.95 |

LP200GBHS-SS DIMENSIONS- INCHES (mm)



| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Stroke | Price |
|-------------|-------------|------------|-------|----------------|------------------|-----------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| LP255 | 25.7 (97.3) | 2175 (150) | 1000 | 39.3 (29.3) | 1.26 (32) | 1.65 (42) | \$8,745.00 |
| LP122A | 35.4 (134) | 1300 (90) | 800 | 31.9 (23.8) | 1.65 (42) | 1.65 (42) | \$9,210.00 |
| LP123 | 35.4 (134) | 1300 (90) | 800 | 31.9 (23.8) | 1.65 (42) | 1.65 (42) | \$8,230.00 |
| LP122A-4000 | 35.4 (134) | 1300 (90) | 800 | 33.1 (24.7) | 1.65 (42) | 1.65 (42) | \$10,870.00 |

Common Specifications & Materials

| | U.S. | (Metric) |
|----------------------|----------------|----------|
| Max Inlet Temp | 140 °F | (60 °C) |
| Weight | 125 lbs | (57 kg) |
| Inlet Port | (2) 1-1/2" NPT | |
| Discharge Port | (2) 1" NPT | |

Materials Used

| | |
|-----------------|---------------------------------|
| Plunger | Solid ceramic oxide |
| Valves | Duplex Steel |
| Seals | Nitrile with fabric reinforcing |
| Crankcase | Spheroidal Cast Iron |



LP122A/LP123/LP255



LP122A-4000

Repair Kits

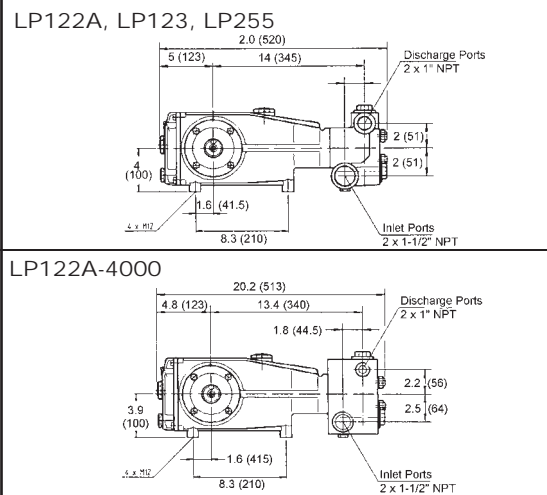
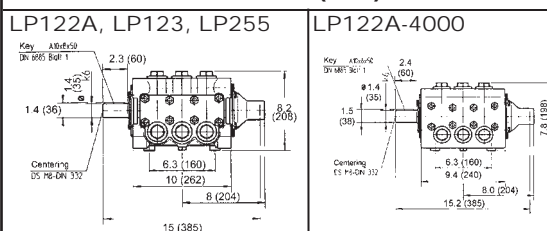
| Kit | Part Number | List Price |
|--|-------------|------------|
| Plunger Packing Kit: (except LP255) | 09477 | \$472.10 |
| (LP255 only) | 09535 | \$658.21 |
| Valve Kit (3) | 09136 | \$556.83 |
| Oil Seal Kit | 09577 | \$48.07 |

Mounting Accessories

| | Part Number | List Price |
|--|---------------|------------|
| Bushings | | |
| 35mm H Bushing | 06496* | \$139.95 |
| Pulley & sheaves | | |
| 12.75" Cast Iron | | |
| 4gr. AB Section | 07165* | \$190.30 |
| Plated Steel Channel Rails (L=11.75"xW1.88"xH=3.00") | 07357 | \$151.95 |
| Hydraulic Kit w/SAE-C Motor | HK-LP-SAE-C-4 | \$809.65 |

* Commercial Discount

LP122, LP122A-4000, LP123, LP255 DIMENSIONS - INCHES (mm)



Large Industrial Pumps:

-GP5100 Series

-GP6100 Series

-GP7100 Series

(pages 56 to 67)

Large Industrial Pumps with Oil Cooling Systems:

-GP7500 Series

-GP7600 Series

-GP8000 Series

-GP8100 Series

(pages 67 to 81)

GP5100 Series

High Pressure Pumps

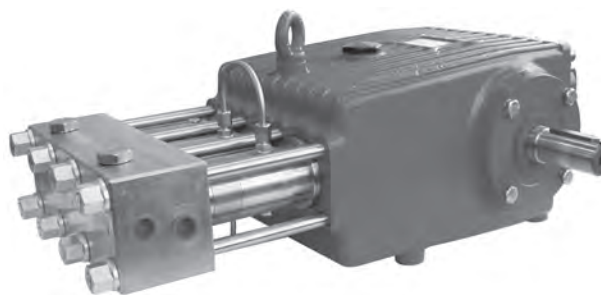
| Model | Flow Continuous/ Intermittent | Pressure Continuous/ Intermittent | Speed | Power Required Continuous/ Intermittent | Plunger Diameter | Price |
|--------|-------------------------------------|---|-------------|--|---------------------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | |
| GP5114 | 4.8 (18.3) | 17,400 (1200) | 1000 | 58.4 (43.6) | 0.55 (14) | \$22,680.00 |
| GP5116 | 5.5 (20.9) 7.0 (26.6) | 15,000 (1000) 11,600 (800) | 850 1050 | 55.8 (41.6) 56.8 (42.4) | 0.63 (16) | \$22,680.00 |

Common Specifications & Materials

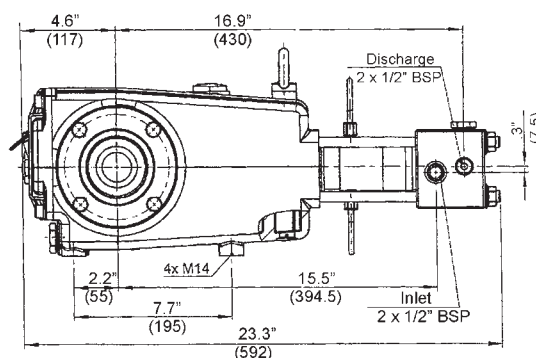
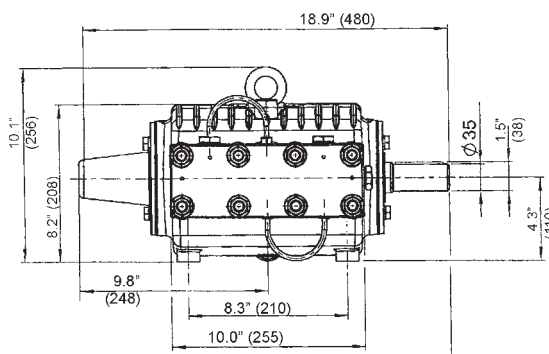
| | U.S. | (Metric) |
|----------------------|--------------|-----------|
| Stroke | 1.81" | (46 mm) |
| Max Inlet Temp | 104 °F | (40 °C) |
| Weight | 182 lbs. | (82.5 kg) |
| Inlet Port | (2) 1/2" BSP | |
| Discharge Port | (2) 1/2" NPT | |

Materials Used

| | |
|-----------------|-------------------------------|
| Manifold | Stainless Steel |
| Plunger | Special Ceramic |
| Valves | Duplex Steel/Plastic Retainer |
| Seals | Aramid/Teflon Packing |
| Crankcase | Spheroidal Cast Iron |



GP5114 and GP5116 DIMENSIONS - INCHES (mm)



Repair Kits

| Kit | Part Number | List Price |
|----------------------|-------------|------------|
| Plunger Packing Kit: | | |
| GP5116 | 09746 | \$691.54 |
| GP5114 | 09807 | \$524.12 |
| Valve Kit | 09835 | \$2,460.60 |
| Oil Seal Kit | 09834 | \$90.89 |

Mounting Accessories

| | Part Number | List Price |
|----------------------|-----------------|------------|
| Hydraulic Kit | | |
| w/SAE-C Motor | HK-GP51-SAE-C-4 | \$793.35 |
| Hydraulic Kit | | |
| w/SAE-D Motor | HK-GP51-SAE-D-4 | \$945.45 |

Medium Pressure Pumps

| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Price |
|--------|-------------|------------|-------|----------------|------------------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | |
| GP5120 | 10.6 (40.0) | 8700 (600) | 1000 | 63.3 (47.2) | 0.79 (20) | \$14,930.00 |
| GP5122 | 11.9 (45.0) | 7250 (500) | 930 | 59.0 (44.0) | 0.87 (22) | \$14,930.00 |
| GP5124 | 13.2 (50.0) | 5800 (400) | 850 | 53.8 (40.1) | 0.94 (24) | \$14,930.00 |

Common Specifications & Materials

| | U.S. | (Metric) |
|----------------------|--------------|----------|
| Stroke | 1.81" | (46 mm) |
| Max Inlet Temp | 140 °F | (60 °C) |
| Weight | 176 lbs. | (80 kg) |
| Inlet Port | (2) 3/4" BSP | |
| Discharge Port | (2) 1/2" BSP | |

Materials Used

| | |
|-----------------|----------------------------|
| Manifold | Stainless Steel |
| Plunger | Special Ceramic |
| Valves | High Grade Stainless Steel |
| Seals | Aramid/Teflon Packing |
| Crankcase | Solid Spheroidal Cast Iron |

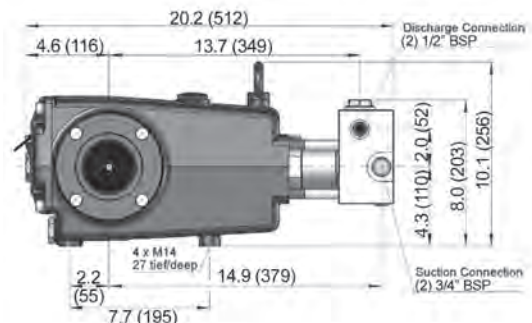
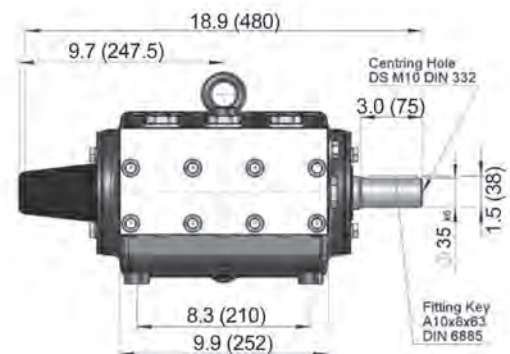


Repair Kits

| Kit | Part Number | List Price |
|------------------------------|-------------|------------|
| <u>Plunger Packing Kits:</u> | | |
| (GP5120) | 09784 | \$918.32 |
| (GP5122) | 09785 | \$640.55 |
| (GP5124) | 09786 | \$415.82 |
| Valve Kit | 09787 | \$796.19 |
| Oil Seal Kit | 09230 | \$64.54 |

Mounting Accessories

| | Part Number | List Price |
|----------------------|-----------------|------------|
| <u>Hydraulic Kit</u> | | |
| w/SAE-C Motor | HK-GP51-SAE-C-4 | \$793.35 |
| <u>Hydraulic Kit</u> | | |
| w/SAE-D Motor | HK-GP51-SAE-D-4 | \$945.45 |

GP5120/GP5122/GP5124
DIMENSIONS - INCHES (mm)

GP5100 Series

High Flow Pumps

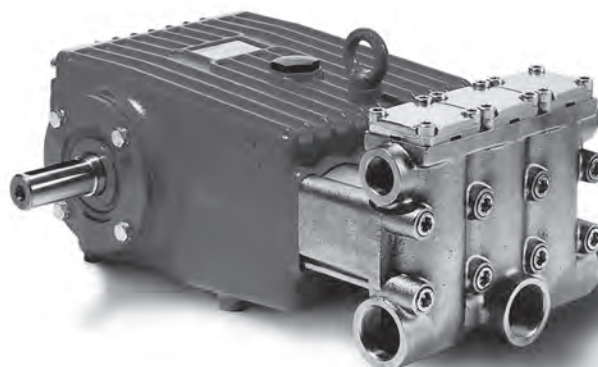
| Model | Flow Continuous/ Intermittent | Pressure | Speed | Power Required | Plunger Diameter | Price |
|------------|-------------------------------------|------------|-------|-------------------|---------------------|------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | |
| GP5124-28 | 20.6 (78.0) | 4060 (280) | 1400 | 56.0 (41.8) | 0.98 (24) | \$9,790.00 |
| GP5128 | 20.6 (78.0) | 4060 (280) | 1000 | 56.0 (41.8) | 1.10 (28) | \$9,790.00 |
| GP5128-SSP | 20.6 (78.0) | 4060 (280) | 1000 | 56.0 (41.8) | 1.10 (28) | \$9,790.00 |
| GP5132 | 27.7 (104.9) / 40.0 (151.4) | 2900 (200) | 1000 | 57.4 (42.8) | 1.26 (32) | \$9,790.00 |
| GP5132-SSP | 27.7 (104.9) / 40.0 (151.4) | 2900 (200) | 1000 | 57.4 (42.5) | 1.26 (32) | \$9,790.00 |
| GP5136 | 33.8 (127.8) | 2320 (160) | 910 | 56.0 (41.8) | 1.42 (36) | \$9,790.00 |
| GP5142 | 40.4 (153.0) | 1885 (130) | 800 | 52.5 (39.2) | 1.65 (42) | \$9,790.00 |
| GP5145 | 43.5 (164.6) | 1450 (100) | 750 | 45.0 (33.6) | 1.77 (45) | \$9,790.00 |

Common Specifications & Materials

| | U.S. | (Metric) |
|----------------------|----------------|----------|
| Stroke | 1.81" | (46 mm) |
| Max Inlet Temp | 140 °F | (60 °C) |
| Weight | 179 lbs. | (81 kg) |
| Inlet Port | (3) 1-1/2" NPT | |
| Discharge Port | (2) 1" NPT | |

Materials Used

| | |
|-----------------------------|------------------------------------|
| Manifold | Nickel-Plated Spheroidal Cast Iron |
| Plunger (except -SSP) | Solid ceramic oxide |
| Plunger (-SSP) | Stainless Steel |
| Valves | Stainless Steel |
| Seals | Nitrile with fabric reinforcing |
| Crankcase | Spheroidal Cast Iron |



Repair Kits

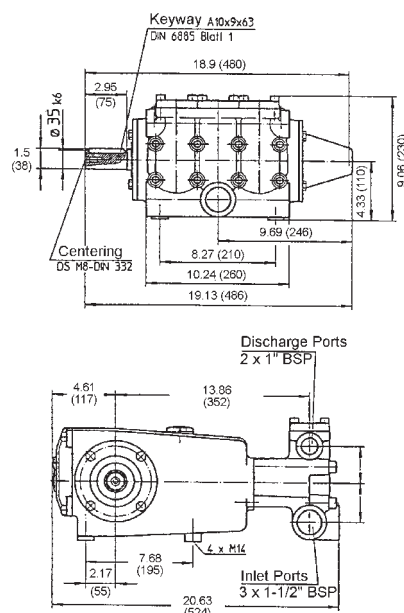
| Kit | Part Number | List Price |
|-----------------------------|----------------|---------------|
| <u>Plunger Packing Kit:</u> | | |
| (GP5128) | 09761 | \$430.92 |
| (GP5132) | 09290 | \$351.85 |
| (GP5136) | 09229 | \$297.61 |
| (GP5142) | 09767 | \$328.34 |
| (GP5145) | 09228 | \$578.37 |
| <u>Valve Assembly Kit</u> | | |
| (GP5128) | 09762* | \$2,071.48 |
| <u>Inlet Valve Kit</u> | | |
| (except GP5128) | 09231* | \$237.22 |
| <u>Discharge Valve Kit</u> | | |
| (except GP5128) | 09232* | \$279.87 |
| Oil Seal Kit | 09230 | \$64.54 |

*One (1) valve assembly/kit

Mounting Accessories

| | Part Number | List Price |
|----------------------|-----------------|---------------|
| Hydraulic Kit | | |
| w/SAE-C Motor | HK-GP51-SAE-C-4 | \$793.35 |
| Hydraulic Kit | | |
| w/SAE-D Motor | HK-GP51-SAE-D-4 | \$945.45 |

GP5128/GP5132/GP5136/GP5142/ GP5145 DIMENSIONS - INCHES (mm)



Hydraulic Drive Versions with Solid Shaft

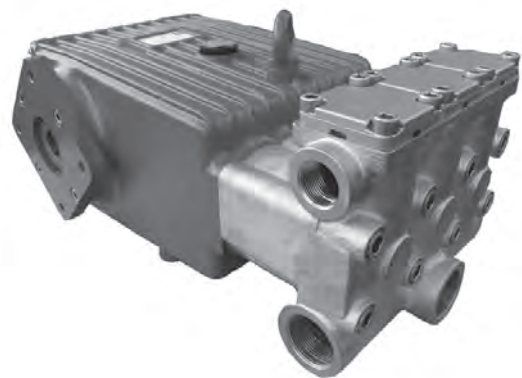
| Model | Flow Continuous/ Intermittent | Pressure | Speed | Power Required | Plunger Diameter | Price |
|-----------|-------------------------------------|------------|-------|-------------------|---------------------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | |
| GP5128-HS | 20.6 (78.0) | 4060 (280) | 1000 | 57.7 (43.0) | 1.10 (28) | \$10,245.00 |
| GP5132-HS | 27.7 (104.9) / 40.0 (151.4) | 2900 (200) | 1000 | 57.4 (42.8) | 1.26 (32) | \$10,245.00 |
| GP5136-HS | 33.8 (127.8) | 2320 (160) | 910 | 56.0 (41.8) | 1.42 (36) | \$10,245.00 |
| GP5145-HS | 43.5 (164.6) | 1450 (100) | 750 | 45.0 (33.6) | 1.77 (45) | \$10,245.00 |

Common Specifications & Materials

| | U.S. | (Metric) |
|----------------------|----------------------------|-----------------|
| Stroke | 1.81" | (46 mm) |
| Max Inlet Temp | 140 °F | (60 °C) |
| Weight | 179 lbs. | (81 kg) |
| Inlet Port | (3) 1-1/2" NPT | |
| Discharge Port | (2) 1" NPT | |
| Shaft | SAE-C flange, C32(Ø31, 75) | |

Materials Used

| | |
|-----------------|------------------------------------|
| Manifold | Nickel-Plated Spheroidal Cast Iron |
| Plunger | Solid ceramic oxide |
| Valves | Duplex Steel/Plastic Retainer |
| Seals | Nitrile with fabric reinforcing |
| Crankcase | Spheroidal Cast Iron |

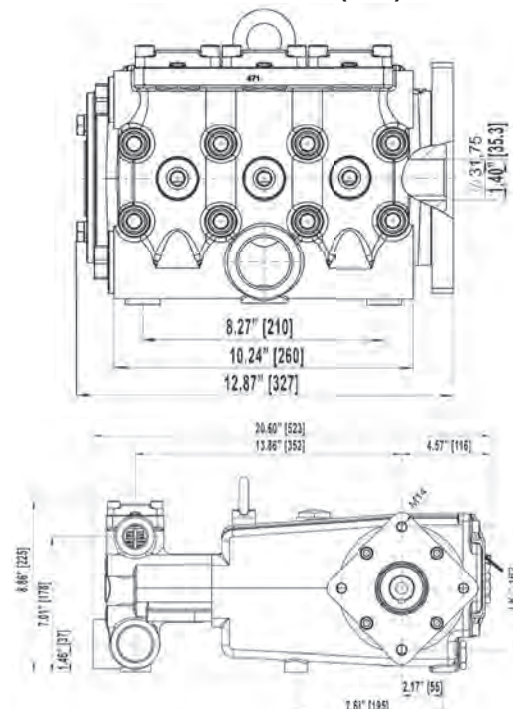


Repair Kits

| Kit | Part Number | List Price |
|-----------------------------|-------------|------------|
| <u>Plunger Packing Kit:</u> | | |
| (GP5132) | 09290 | \$351.85 |
| (GP5136) | 09229 | \$297.61 |
| (GP5145) | 09228 | \$578.37 |
| Inlet Valve Kit | 09231* | \$237.22 |
| Discharge Valve Kit | 09232* | \$279.87 |
| Oil Seal Kit | 09230 | \$64.54 |

*One (1) valve assembly/kit

GP5132-HS/GP5136-HS/GP5145-HS
DIMENSIONS - INCHES (mm)



GP5100 Series

Direct Drive Gearbox Versions

| Model | Flow Continuous/ Intermittent | Pressure | Speed | Power Required | Plunger Diameter | Price |
|-----------|-------------------------------------|------------|-------|-------------------|---------------------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | |
| GP5128GB* | 20.6 (78.0) | 4060 (280) | 1000 | 57.7 (43.0) | 1.10 (28) | \$13,910.00 |
| GP5132GB* | 27.7 (104.9) / 40.0 (151.4) | 2900 (200) | 1000 | 57.4 (42.8) | 1.26 (32) | \$13,910.00 |
| GP5136GB* | 33.8 (127.8) | 2320 (160) | 910 | 56.0 (41.8) | 1.42 (36) | \$13,910.00 |
| GP5142GB* | 40.4 (152.9) | 1885 (130) | 800 | 52.5 (39.2) | 1.65 (42) | \$13,910.00 |
| GP5145GB* | 43.5 (164.6) | 1450 (100) | 750 | 45.0 (33.6) | 1.77 (45) | \$13,910.00 |

Common Specifications & Materials

| | U.S. | (Metric) |
|----------------------|----------------|----------|
| Stroke | 1.81" | (46 mm) |
| Max Inlet Temp | 140 °F | (60 °C) |
| Weight | 269 lbs. | (122 kg) |
| Inlet Port | (3) 1-1/2" NPT | |
| Discharge Port | (2) 1" NPT | |

Materials Used

| | |
|-----------------|------------------------------------|
| Manifold | Nickel-Plated Spheroidal Cast Iron |
| Plunger | Solid ceramic oxide |
| Valves | Stainless Steel |
| Seals | Nitrile with fabric reinforcing |
| Crankcase | Spheroidal Cast Iron |

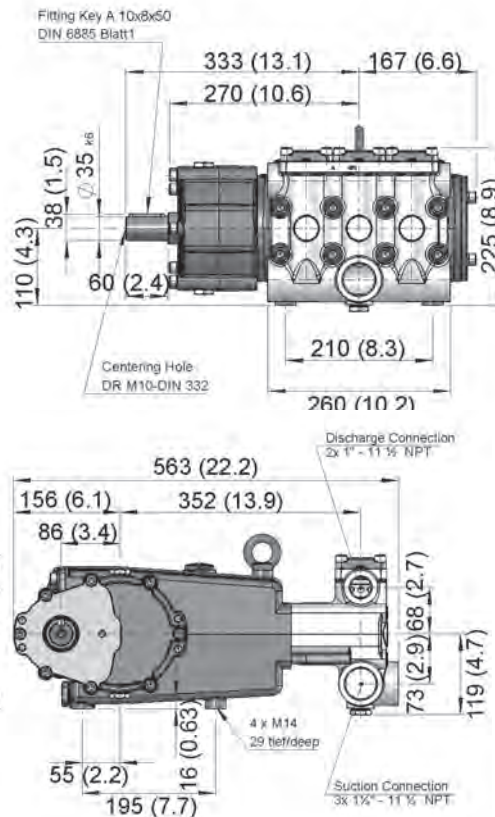
Gear Ratio2.0:1

*0° and 180° orientations available



180° orientation shown

GP5100GB-180 Shown



Repair Kits / Accessories

| Kit | Part Number | List Price |
|-----------------------------|-------------|------------|
| Plunger Packing Kit: | | |
| (GP5128) | 09761 | \$430.92 |
| (GP5132) | 09290 | \$351.85 |
| (GP5136) | 09229 | \$297.61 |
| (GP5142) | 09767 | \$328.34 |
| (GP5145) | 09228 | \$578.37 |
| Valve Assembly Kit | | |
| (GP5128) | 09762* | \$2,071.48 |
| Inlet Valve Kit | | |
| (except GP5128) | 09231* | \$237.22 |
| Discharge Valve Kit | | |
| (except GP5128) | 09232* | \$279.87 |
| Oil Seal Kit | 09230 | \$64.54 |
| Anti-Seize | 03325* | \$7.22 |

*One (1) valve assembly/kit

* Commercial Discount

GP5100 Series



Hydraulic Drive Versions - Splined Shaft and Gearbox

| Model | Flow Continuous/ Intermittent | Pressure | Speed | Power Required | Plunger Diameter | Price |
|-------------|-------------------------------------|------------|-------|-------------------|---------------------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | |
| GP5128GBHS* | 20.6 (78.0) | 4060 (280) | 1000 | 56.0 (41.8) | 1.10 (28) | \$14,130.00 |
| GP5132GBHS* | 27.7 (104.9) / 40.0 (151.4) | 3000 (200) | 1000 | 57.4 (42.8) | 1.26 (32) | \$14,130.00 |
| GP5136GBHS* | 33.8 (127.8) | 2320 (160) | 910 | 56.0 (41.8) | 1.42 (36) | \$14,130.00 |
| GP5142GBHS* | 40.4 (152.9) | 1885 (130) | 800 | 52.5 (39.2) | 1.65 (42) | \$14,130.00 |
| GP5145GBHS* | 43.5 (164.6) | 1450 (100) | 750 | 45.0 (33.6) | 1.77 (45) | \$14,130.00 |

Common Specifications & Materials

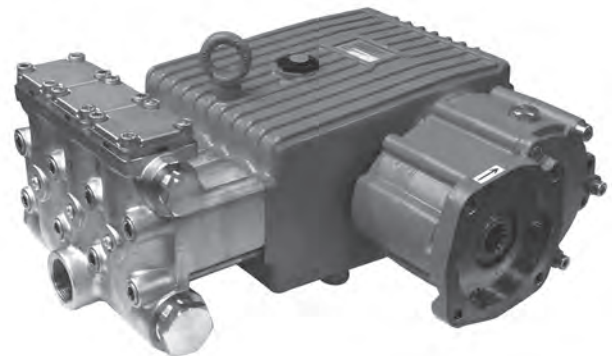
| | U.S. | (Metric) |
|-----------------------|--------------------------|----------|
| Stroke | 1.81" | (46 mm) |
| Max Inlet Temp | 140 °F | (60 °C) |
| Weight | 269 lbs. | (122 kg) |
| Inlet Port | (3) 1-1/2" NPT | |
| Discharge Port | (2) 1" NPT | |
| Crankshaft Bore | SAE-C Spline 14T 12/24DP | |

Materials Used

| | |
|-----------------|------------------------------------|
| Manifold | Nickel-Plated Spheroidal Cast Iron |
| Plunger | Solid ceramic oxide |
| Valves | Duplex Steel/Plastic Retainer |
| Seals | Nitrile with fabric reinforcing |
| Crankcase | Spheroidal Cast Iron |

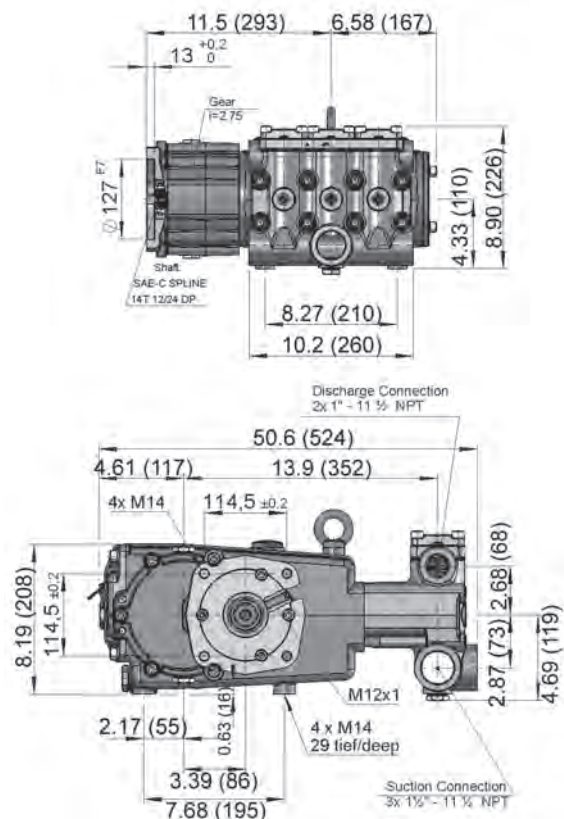
Gear Ratio2.75:1

*0° and 180° orientations available



0° orientation shown

GP5132-HS/GP5136-HS/GP5145-HS DIMENSIONS - INCHES (mm)



Repair Kits / Accessories

| Kit | Part Number | List Price |
|-----------------------------|-------------|------------|
| Plunger Packing Kit: | | |
| (GP5128) | 09761 | \$430.92 |
| (GP5132) | 09290 | \$351.85 |
| (GP5136) | 09229 | \$297.61 |
| (GP5142) | 09767 | \$328.34 |
| (GP5145) | 09228 | \$578.37 |
| Valve Assembly Kit | | |
| (GP5128) | 09762* | \$2,071.48 |
| Inlet Valve Kit | | |
| (except GP5128) | 09231* | \$237.22 |
| Discharge Valve Kit | | |
| (except GP5128) | 09232* | \$279.87 |
| Oil Seal Kit | 09230 | \$64.54 |
| Anti-Seize | 03325* | \$7.22 |

*One (1) valve assembly/kit

+ Commercial Discount

GP6100 Series

High Pressure Pumps

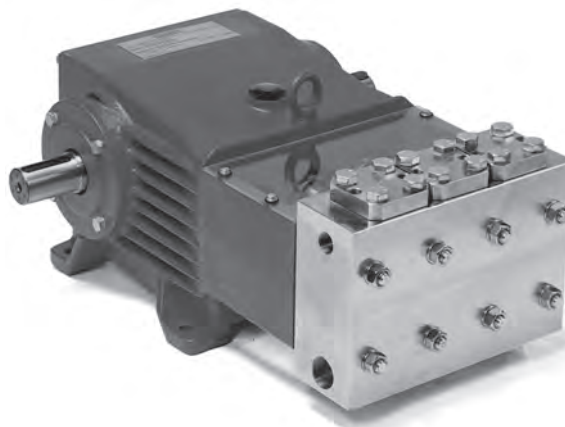
| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Stroke | Price |
|--------|-------------|------------|-------|----------------|------------------|-----------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| GP6124 | 12.8 (48.5) | 6090 (420) | 800 | 56.8 (42.4) | 0.94 (24) | 1.89 (48) | \$23,910.00 |
| GP6128 | 18.0 (68.1) | 4350 (300) | 800 | 55.9 (41.7) | 1.10 (28) | 1.89 (48) | \$18,475.00 |

Common Specifications & Materials

| | U.S. | (Metric) |
|----------------------|----------------|----------|
| Max Inlet Temp | 140 °F | (60 °C) |
| Weight | 309 lbs | (140 kg) |
| Inlet Port | (2) 1-1/2" BSP | |
| Discharge Port..... | (2) 1" BSP | |

Materials Used

| | |
|-----------------------|---------------------------------|
| Manifold..... | AISI 303 S.S. |
| Plunger (GP6124)..... | SS w/Hard metal coating |
| Plunger (GP6128)..... | Solid ceramic oxide |
| Valves..... | Duplex Steel |
| Seals (GP6124) | Aramid packing |
| Seals (GP6128) ... | Nitrile with fabric reinforcing |
| Crankcase | Spheroidal Cast Iron |



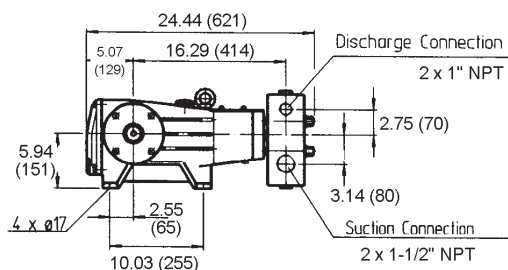
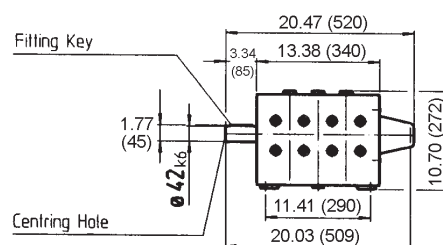
Repair Kits

| Kit | Part Number | List Price |
|-----------------------------|-------------|------------|
| Plunger Packing Kit: | | |
| (GP6124) | 09311 | \$1,016.77 |
| (GP6128) | 09302 | \$438.67 |
| Valve Kit: | | |
| (GP6124) | 09312 | \$2,098.37 |
| (GP6128) | 09303 | \$2,401.80 |
| Oil Seal Kit | 09304 | \$303.83 |

Mounting Accessories

| | Part Number | List Price |
|----------------------|-----------------|------------|
| Hydraulic Kit | | |
| w/SAE-D Motor | HK-GP61-SAE-D-4 | \$1,894.05 |
| Coupling Bell | | |
| SAE-D-4 | 03030 | \$520.00 |

GP6124, GP6128, GP6124-4000 - INCHES (mm)



GP6100 Series High Flow Pumps

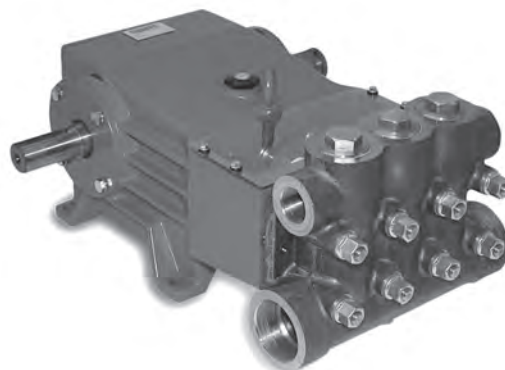
| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Stroke | Price |
|--------|--------------|------------|-------|----------------|------------------|-----------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| GP6132 | 23.5 (88.9) | 3045 (210) | 800 | 49.4 (36.8) | 1.26 (32) | 1.89 (48) | \$20,595.00 |
| GP6140 | 36.7 (139) | 2175 (150) | 800 | 55.0 (41.0) | 1.57 (40) | 1.89 (48) | \$20,595.00 |
| GP6145 | 46.5 (175.9) | 1740 (120) | 800 | 55.8 (41.6) | 1.77 (45) | 1.89 (48) | \$20,595.00 |

Common Specifications & Materials

| | U.S. | (Metric) |
|----------------------|----------------|-----------------|
| Max Inlet Temp | 140 °F | (60 °C) |
| Weight | 309 lbs | (140 kg) |
| Inlet Port | (2) 2-1/2" BSP | |
| Discharge Port | (2) 1-1/4" BSP | |

Materials Used

| | |
|-------------------------------|---------------------------------|
| Manifold | Bronze |
| Manifold (-4000 Series) | Stainless Steel |
| Plunger | Solid ceramic oxide |
| Valves | Duplex Steel |
| Valves (-4000 Series) | Stainless Steel |
| Seals | Nitrile with fabric reinforcing |
| Crankcase | Spheroidal Cast Iron |



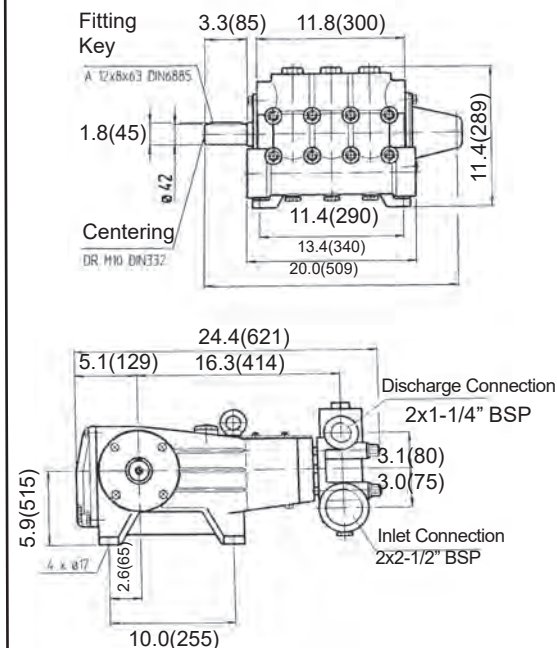
Repair Kits

| Kit | Part Number | List Price |
|----------------------------|-------------|------------|
| <u>Plunger Packing Kit</u> | | |
| (GP6132) | 09319 | \$859.56 |
| (GP6140-4000) | 09622 | \$1,431.54 |
| (GP6145-4000) | 09623 | \$1,020.74 |
| <u>Valve Kit:</u> | | |
| (GP6132) | 09320 | \$3,039.48 |
| (GP6140-4000, GP6145-4000) | 09624 | \$3,480.90 |
| <u>Oil Seal Kit :</u> | | |
| (GP6132) | 09304 | \$303.83 |
| (GP6140/GP6145-4000) | 09625 | \$35.02 |

Mounting Accessories

| | Part Number | List Price |
|---------------------------------------|-----------------|---------------|
| Hydraulic Kit w/SAE-D Motor | HK-GP61-SAE-D-4 | \$1,894.05 |
| Coupling Bell SAE-D-4 | 03030 | \$520.00 |

GP6132, GP6140, GP6145
GP6132-4000, GP6140-4000, GP6145-4000
INCHES (mm)



GP7100 Series



High Pressure Pumps

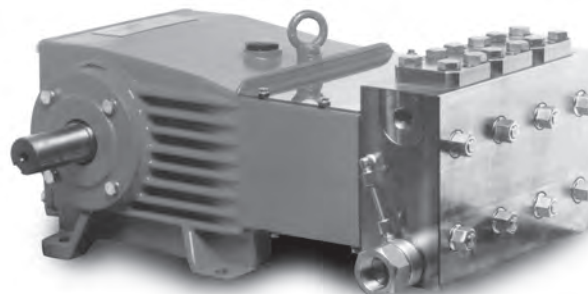
| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Stroke | Price |
|--------------|-------------|--------------|-------|----------------|------------------|----------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| GP7122 | 9.9 (37.4) | 10,000 (700) | 750 | 70.0 (52.2) | 0.87 (22) | 2.0 (52) | \$33,400.00 |
| GP7124A-4000 | 12.8 (48.4) | 7400 (510) | 750 | 65.3 (48.7) | 0.94 (24) | 2.0 (52) | \$33,400.00 |

Common Specifications & Materials

| | U.S. | (Metric) |
|--------------------------------|----------------|----------|
| Max Inlet Temp | 140 °F | (60 °C) |
| Weight | 454 lbs | (296 kg) |
| Inlet Ports (GP7122) | (2) 1-1/2" NPT | |
| Inlet Ports (GP7124) | (2) 1-1/4" NPT | |
| Discharge Ports (GP7122) | (2) 1/2" NPT | |
| Discharge Ports (GP7124) | (2) 3/4" NPT | |

Materials Used

| | |
|-----------------|--------------------------|
| Manifold | AISI 415 Stainless steel |
| Plungers | Hard metal coating |
| Valves | Stainless Steel |
| Seals | Aramid |
| Crankcase | Spheroidal cast iron |



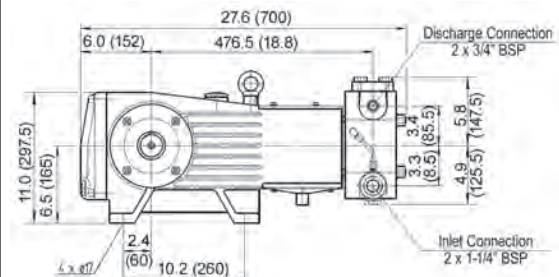
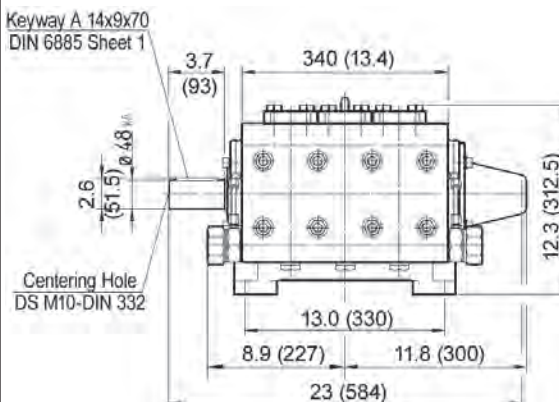
Repair Kits

| Kit | Part Number | List Price |
|----------------------|-------------|------------|
| Plunger Packing Kit: | | |
| (GP7122) | 09701 | \$1,899.21 |
| (GP7124) | 09224A | \$1,444.22 |
| Inlet Valve Kit: | 09702 | \$707.90 |
| Discharge Valve Kit: | 09703 | \$684.51 |
| Oil Seal Kit: | 09221 | \$160.63 |

Mounting Accessories

| | Part Number | List Price |
|-------|-------------|------------|
| Rails | 01145 | \$135.85 |

GP7122 AND GP7124A-4000 DIMENSIONS - INCHES (mm)



GP7100 Series



Medium Pressure Pumps

| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Stroke | Price |
|--------|--------------|------------|-------|----------------|------------------|----------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| GP7128 | 17.9 (67.7) | 5800 (400) | 750 | 71.4 (53.2) | 1.10 (28) | 2.1 (52) | \$36,330.00 |
| GP7132 | 23.4 (88.5) | 4350 (300) | 750 | 70.0 (52.2) | 1.30 (32) | 2.0 (52) | \$32,190.00 |
| GP7136 | 28.3 (107.0) | 3625 (250) | 750 | 70.8 (52.8) | 1.42 (36) | 2.0 (52) | \$33,430.00 |

Common Specifications & Materials

| | U.S. | (Metric) |
|-------------------------------|----------------|----------|
| Max Inlet Temp | 140 °F | (60 °C) |
| Weight (GP7128 & GP7136)..... | 375 lbs | (170 kg) |
| Weight (GP7132)..... | 434 lbs | (197 kg) |
| Inlet Ports | (2) 1-1/4" NPT | |
| Discharge Ports..... | (2) 3/4" NPT | |

Materials Used

| | |
|---------------------------------|------------------------------|
| Manifold | AISI 303 Stainless steel |
| Plungers (GP7128)..... | Hard metal coating |
| Plungers (GP7132, GP7136) | Solid ceramic oxide |
| Valves (GP7128 & GP7136) | Duplex steel |
| Valves (GP7136)..... | Stainless Steel |
| Seals..... | Nitrile w/fabric reinforcing |
| Crankcase | Spheroidal cast iron |



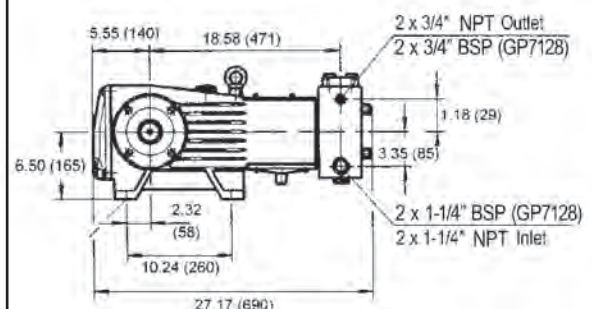
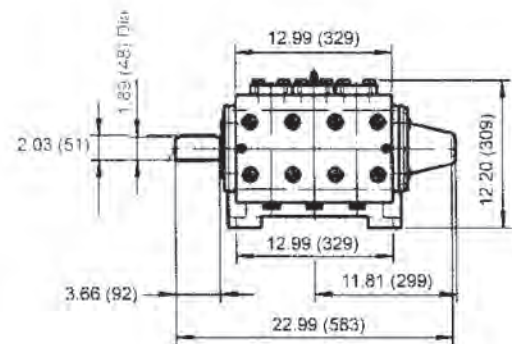
Repair Kits

| Kit | Part Number | List Price |
|----------------------|-------------|------------|
| Plunger Packing Kit: | | |
| (GP7128) | 09464 | \$1,459.23 |
| (GP7132) | 09519 | \$761.53 |
| (GP7136) | 09544 | \$892.57 |
| Valve Kit | 09520 | \$2,140.43 |
| Oil Seal Kit (All) | 09221 | \$160.63 |

Mounting Accessories

| | Part Number | List Price |
|-------|-------------|------------|
| Rails | 01145 | \$135.85 |

GP7128, GP7132 AND GP7136 DIMENSIONS - INCHES (mm)



Stainless Steel/High Flow

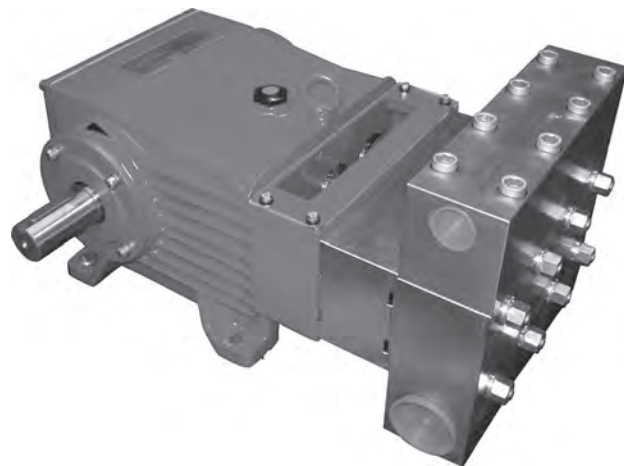
| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Stroke | Price |
|--------------|--------------|------------|-------|----------------|------------------|----------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| GP7142-4000 | 38.4 (145.2) | 2610 (180) | 700 | 69.0 (51.5) | 1.65 (42) | 2.0 (52) | \$36,405.00 |
| GP7145-5000 | 47.5 (180.0) | 3000 (200) | 750 | 98.3 (73.3) | 1.77 (45) | 2.0 (52) | \$40,365.00 |
| GP7150-4000 | 54.5 (205.8) | 1900 (130) | 700 | 70.6 (52.7) | 1.97 (50) | 2.0 (52) | \$36,405.00 |
| GP7155-4000 | 65.8 (249.1) | 1500 (100) | 700 | 65.7 (49.0) | 2.17 (55) | 2.0 (52) | \$36,405.00 |
| GP7170-4000 | 84.5 (320) | 1450 (100) | 700 | 87.4 (65.2) | 2.48 (63) | 2.0 (52) | \$75,040.00 |
| GP7255A-5000 | 65.8 (250) | 1500 (100) | 700 | 68.1 (50.8) | 2.17 (55) | 2.0 (52) | \$40,365.00 |

Common Specifications & Materials

| | U.S. | (Metric) |
|------------------------------------|--------------|----------------|
| Max Inlet Temp | 140 °F | (60 °C) |
| Weight (GP7155-4000) | 430 lbs..... | (195 kg) |
| Weight (all others) | 474 lbs..... | (215 kg) |
| Inlet Port (GP7170-4000)..... | | (2) 2-1/2" NPT |
| Inlet Port (all others) | | (2) 2-1/2" BSP |
| Discharge Port (GP7170-4000) | | (2) 1-1/4" NPT |
| Discharge Port (all others) | | (2) 1-1/4" BSP |

Materials Used

| | |
|------------------------|---------------------------------|
| Manifold (-4000) | Stainless Steel |
| Manifold (-5000) | 316 Stainless Steel |
| Plungers | Ceramic |
| Valves | Duplex steel |
| Seals | Nitrile with fabric reinforcing |
| Crankcase | Spheroidal cast iron |



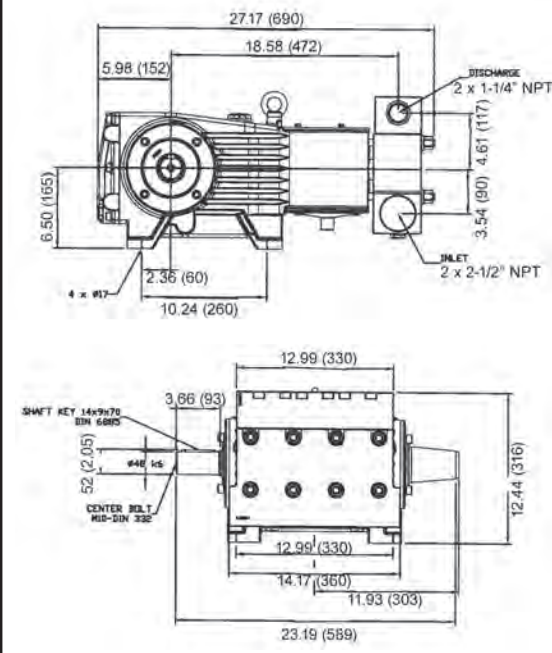
Repair Kits

| Kit | Part Number | List Price |
|--|--------------------|------------|
| <u>Plunger Packing Kits:</u> | | |
| (GP7142-4000) | 09766-4000 | \$304.02 |
| (GP7150-4000) | 09855 | \$702.17 |
| (GP7155-4000) | 09609-0400 | \$932.89 |
| (GP7170-4000) | 09610 | \$1,016.68 |
| <u>Valve Kits:</u> | | |
| (GP7142-4000) | 09859 | \$1,776.85 |
| (GP7150-4000) | 09856 | \$1,906.58 |
| (GP7155-4000) | 09852 | \$1,780.40 |
| (GP7170-4000) | 09611 ⁺ | \$593.48 |
| Oil Seal Kit (All) | 09221 | \$160.63 |
| ⁺ One(1) Valve assembly / kit | | |

Mounting Accessories

| | Part Number | List Price |
|-------|----------------|---------------|
| Rails | 01145 | \$135.85 |

**GP7142-4000, GP7150-4000,
GP7155-4000, GP7170-4000
DIMENSIONS - INCHES (mm)**



GP7100 Series

High Flow Pumps

GIANT

| Model | Flow Continuous/ Intermittent | Pressure | Speed Continuous/ Intermittent | Power Required | Plunger Diameter | Price |
|----------|-------------------------------------|-------------------------|--------------------------------------|-------------------|---------------------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | |
| GP7142 | 38.4 (145.2) | 2610 (180) | 700 | 69.0 (51.5) | 1.7 (42) | \$30,945.00 |
| GP7145* | 47.5 (180) / 60 (227) | 3000 (200) | 750 / 947 | 95.0 (70.9) | 1.8 (45) | \$20,805.00 |
| GP7150 | 54.4 (205.8) | 1900 (130) | 700 | 70.6 (52.7) | 2.0 (50) | \$32,290.00 |
| GP7155 | 65.8 (249.1) | 1500 (100) | 700 | 65.7 (49.0) | 2.2 (55) | \$32,290.00 |
| GP7255A* | 65.8 (250) / 80 (303) | 1500 (100) / 2000 (140) | 700 / 851 | 68.0 (50.7) | 2.2 (55) | \$20,805.00 |

* GP7145-SSP - Stainless Steel Plungers - \$22,045.00
GP7255A-SSP - Stainless Steel Plungers - \$22,045.00

Common Specifications & Materials

| | U.S. | (Metric) |
|----------------------|----------------|----------|
| Stroke | 2.0" | (52 mm) |
| Max Inlet Temp | 140 °F | (60 °C) |
| Weight | 375 lbs | (170 kg) |
| Inlet Port | (2) 2-1/2" NPT | |
| Discharge Port | (2) 1-1/4" NPT | |

Materials Used

| | |
|--------------------------------|------------------------------------|
| Manifold (GP7142) | Cast Aluminum Bronze |
| Manifold (GP7150/55) | Bronze |
| Manifold (GP7145/7255A) | Nickel Plated Spheroidal Cast Iron |
| Plungers | Solid ceramic oxide |
| Plungers (-SSP versions) | Stainless Steel |
| Valves | Duplex steel |
| Valves (-SSV versions) | Stainless Steel |
| Seals | Nitrile with fabric reinforcing |
| Gear End | Spheroidal cast iron |

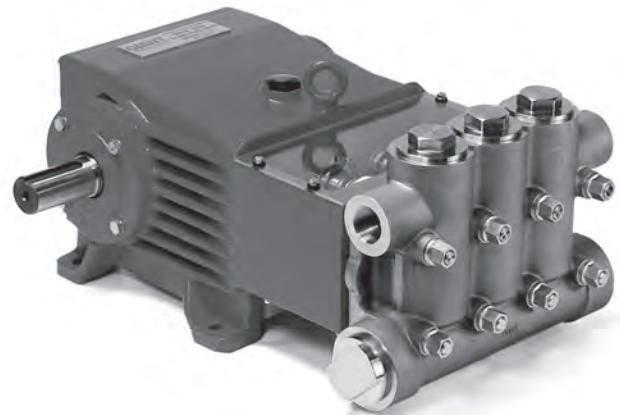
Repair Kits

| Kit | Part Number | List Price |
|----------------------------|----------------|---------------|
| Plunger Packing Kit | | |
| (GP7142) | 09766 | \$312.31 |
| (GP7145) | 09603 | \$704.27 |
| GP7150 | 09526 | \$675.03 |
| (GP7155/GP7255) | 09220 | \$693.33 |
| Valve Kit: | | |
| (GP7142) | 09765 | \$2,378.52 |
| (GP7150/GP7155) | 09614+ | \$508.24 |
| Inlet Valve Kit | | |
| (GP7145/GP7255A) | 09659+ | \$348.14 |
| Discharge Valve Kit | | |
| (GP7145/GP7255A) | 09660+ | \$387.13 |
| Oil Seal Kit (All) | 09221 | \$160.63 |

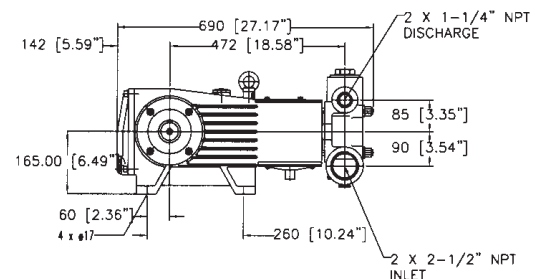
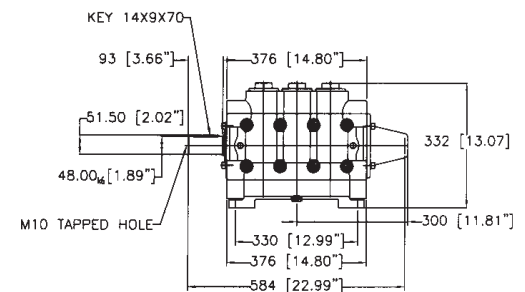
+One(1) Valve assembly / kit

Mounting Accessories

| | Part Number | List Price |
|-------|----------------|---------------|
| Rails | 01145 | \$135.85 |



GP7145, GP7255 DIMENSIONS - INCHES (mm)



GP7500 Series High Pressure Pumps

| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Price |
|-------------|------------|--------------|-------|----------------|------------------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | |
| GP7522 | 9.9 (37.5) | 10,150 (700) | 750 | 71.8 (53.5) | 0.87 (22) | \$42,840.00 |
| GP7522GB* | 9.9 (37.5) | 10,150 (700) | 750 | 71.8 (53.5) | 0.87 (22) | \$37,055.00 |
| GP7522GBHS* | 9.9 (37.5) | 10,150 (700) | 750 | 71.8 (53.5) | 0.87 (22) | \$39,455.00 |

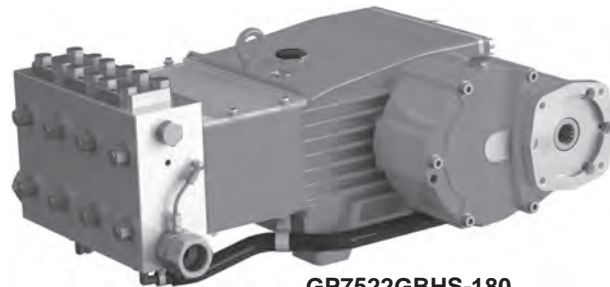
Common Specifications & Materials

| | U.S. | (Metric) |
|------------------------------|----------------|-----------------|
| Stroke | 2.0" | (52 mm) |
| Max. Inlet Temperature | 140 °F | (60 °C) |
| Weight | 375 lbs | (170 kg) |
| Crankcase Oil Capacity | 1.6 Gal | (6.0 Liters) |
| Inlet Ports | (2) 1-1/4" BSP | |
| Outlet Ports | (2) 3/4" BSP | |

Materials Used

| | |
|-----------------|------------------------|
| Manifold | Stainless Steel |
| Plunger | Hard Metal Coating |
| Valves | Duplex Stainless Steel |
| Seals | Aaramid Packing |
| Crankcase | Spheroidal Cast Iron |

***0° and 180° orientations available**

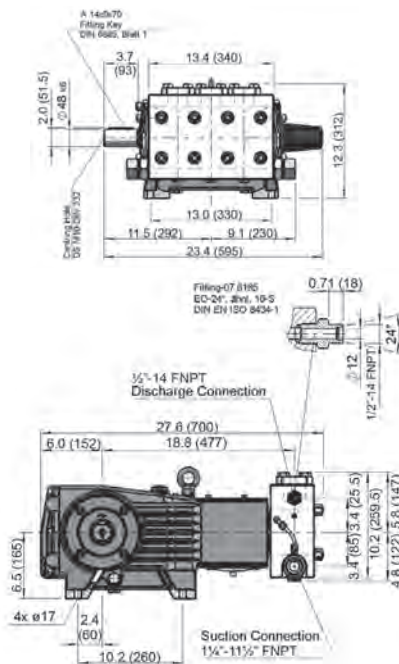


GP7522GBHS-180

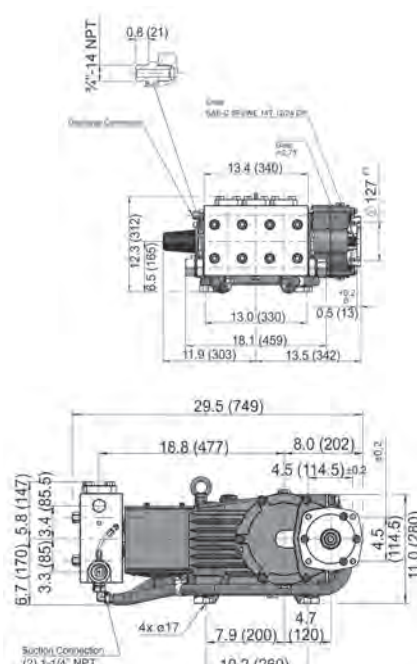
Repair Kits

| Kit | Part Number | List Price |
|----------------------|-------------|------------|
| Plunger Packing Kit | 09701 | \$1,899.21 |
| Inlet Valve Kit: | 09702 | \$707.90 |
| Discharge Valve Kit: | 09703 | \$684.51 |
| Oil Seal Kit: | 09221 | \$160.63 |

GP7522 Dimensions



GP7522GBHS Dimensions



High Flow/Gearbox/Solid Pinion Shaft

| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Stroke | Price |
|----------|------------|------------|-------|----------------|------------------|-----------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | in (mm) | |
| GP7545GB | 55.5 (210) | 3000 (200) | 800 | 111 (82.3) | 1.77 (45) | 2.05 (52) | \$25,875.00 |
| GP7550GB | 70.0 (265) | 2540 (175) | 800 | 121 (90.0) | 1.97 (50) | 2.05 (52) | \$25,875.00 |
| GP7555GB | 84.5 (320) | 2000 (140) | 800 | 118 (88.0) | 2.17 (55) | 2.05 (52) | \$25,875.00 |

Common Specifications & Materials

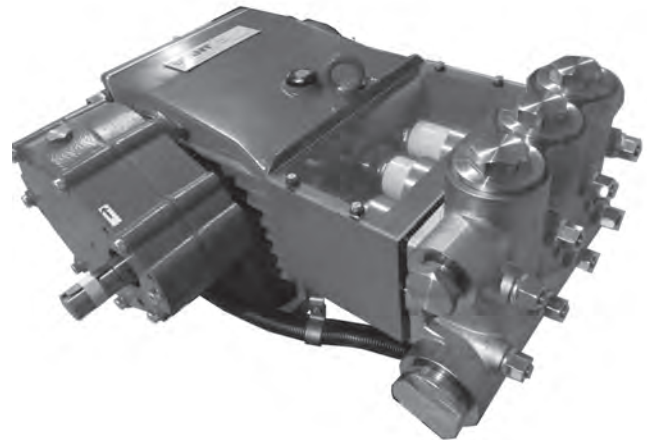
| | U.S. | (Metric) |
|---------------------------------|----------------|--------------|
| Inlet Temperature..... | 140 °F | (60 °C) |
| Inlet Temperature(GP7645/50) .. | 86 °F | (30 °C) |
| Weight | 470 lbs | (213 kg) |
| Crankcase Capacity | 2.1 Gal | (8.0 Liters) |
| Inlet Ports (GP7550GB)..... | (2) 2-1/4" NPT | |
| Inlet Ports (all others)..... | (2) 1-1/4" NPT | |
| Outlet Ports (GP7550GB)..... | (2) 1-1/4" NPT | |
| Outlet Ports (all others)..... | (2) 3/4" NPT | |

Materials Used

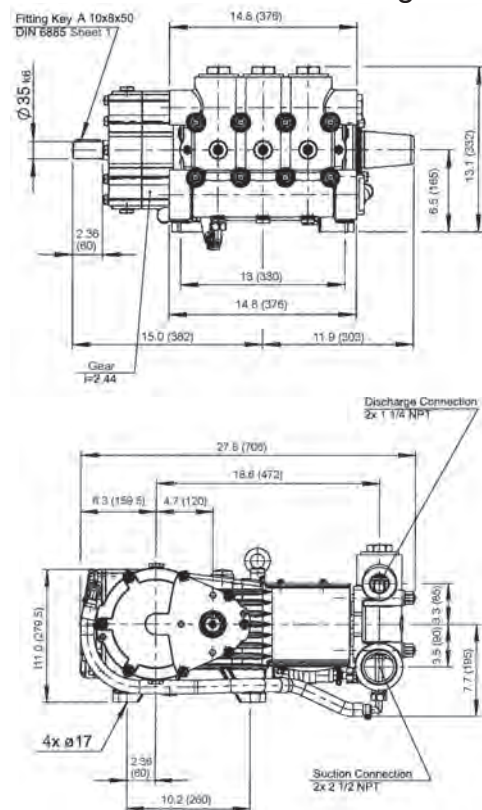
| | |
|-----------------|------------------------------------|
| Manifold | Nickel Plated Spheroidal Cast Iron |
| Plunger | Solid ceramic oxide |
| Valves | Stainless Steel |
| Seals | Nitrile with Fabric Reinforcing |
| Crankcase | Spheroidal Cast Iron |

| Gear Ratios | Input Speed |
|-------------------|-------------|
| 1.9..... | 1500 RPM |
| 2.25..... | 1800 RPM |
| 2.73..... | 2200 RPM |

Gearbox available in 0° and 180° orientations



Solid Pinion Shaft Drive with gearbox



Repair Kits

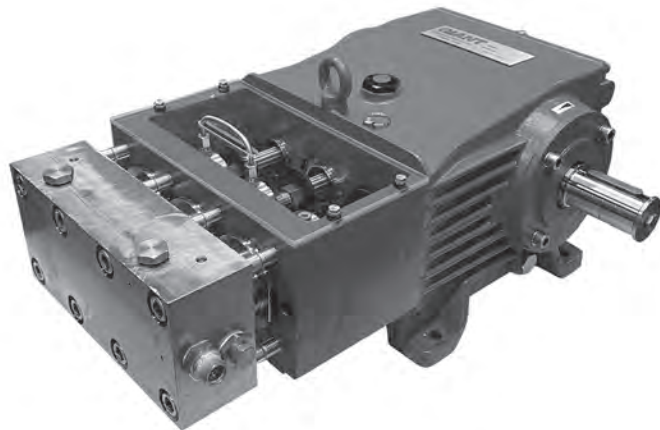
| Kit | Part Number | List Price |
|----------------------|-------------|------------|
| Plunger Packing Kit: | | |
| (GP7532GB) | 09519 | \$761.53 |
| (GP7655GB) | 09220 | \$693.33 |
| Complete Valve Kit: | | |
| (GP7532GB) | 09520 | \$2,140.43 |
| Oil Seal Kit: | 09221 | \$160.63 |

* One Valve Assembly per kit

GP7600 Series

High Flow Pumps

| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Price |
|--------|-------------|---------------|-------|----------------|------------------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | |
| GP7622 | 12.7 (48.0) | 15,000 (1000) | 800 | 126.4 (94.3) | 0.87 (22) | \$44,340.00 |



Common Specifications & Materials

| | U.S. | (Metric) |
|------------------------------|----------------|--------------|
| Stroke | 2.28" | (58 mm) |
| Max. Inlet Temperature | 104 °F | (40 °C) |
| Weight | 379 lbs | (172 kg) |
| Crankcase Oil Capacity | 1.9 Gal | (7.2 Liters) |
| Inlet Ports | (2) 1" BSP | |
| Outlet Ports | (2) M24 x 1.25 | |

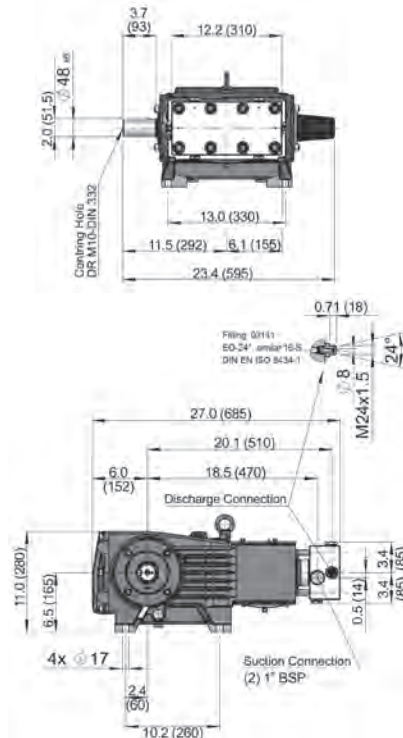
Materials Used

| | |
|-----------------|------------------------|
| Manifold | Stainless Steel |
| Plunger | Hard Metal Coating |
| Valves | Duplex Stainless Steel |
| Seals | Aaramid Packing |
| Crankcase | Spheroidal Cast Iron |

Repair Kits

| Kit | Part Number | List Price |
|---------------------|-------------|------------|
| Plunger Packing Kit | 09853 | \$1,511.24 |
| Valve Kit: | 09854 | \$1,345.32 |
| Oil Seal Kit: | 09221 | \$160.63 |

GP7622 Dimensions



High Flow Pumps

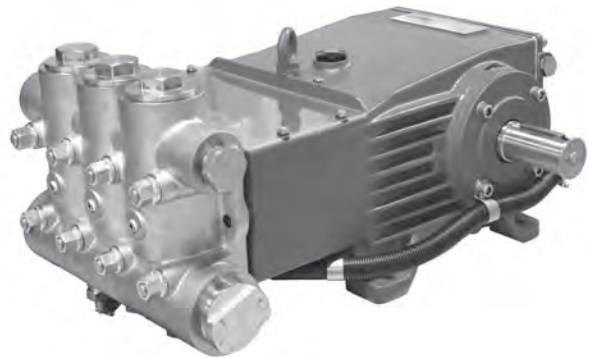
| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Price |
|--------|------------|------------|-------|----------------|------------------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | |
| GP7645 | 55.5 (210) | 3000 (200) | 800 | 115 (85.8) | 1.77 (45) | \$21,130.00 |
| GP7650 | 69.7 (264) | 2540 (175) | 800 | 122 (91.0) | 1.97 (50) | \$21,130.00 |
| GP7655 | 84.5 (320) | 2000 (140) | 800 | 117 (87.3) | 2.17 (55) | \$21,130.00 |

Common Specifications & Materials

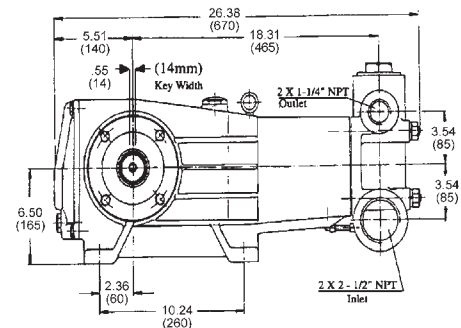
| | U.S. | (Metric) |
|------------------------------|----------------|--------------|
| Stroke | 2.28" | (58 mm) |
| Max. Inlet Temperature | 86 °F | (30 °C) |
| Weight | 408 lbs | (185 kg) |
| Crankcase Oil Capacity | 1.6 Gal | (6.0 Liters) |
| Inlet Ports | (2) 2-1/2" NPT | |
| Outlet Ports | (2) 1-1/4" NPT | |

Materials Used

| | |
|-----------------|------------------------------------|
| Manifold | Nickel Plated Spheroidal Cast Iron |
| Plunger | Solid ceramic oxide |
| Valves | Stainless Steel |
| Seals | Nitrile with Fabric Reinforcing |
| Crankcase | Spheroidal Cast Iron |



GP7645/GP7650/GP7655 Dimensions



Repair Kits

| Kit | Part Number | List Price |
|----------------------|-------------|------------|
| Plunger Packing Kit: | | |
| (GP7645) | 09603 | \$704.27 |
| (GP7650) | 09526 | \$675.03 |
| (GP7655): | 09220 | \$693.33 |
| Inlet Valve Kit: | 09659* | \$348.14 |
| Discharge Valve Kit: | 09660* | \$387.13 |
| Oil Seal Kit: | 09221 | \$160.63 |

* One Valve Assembly per kit

High Flow/Gearbox/Solid Pinion Shaft

| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Price |
|----------|------------|------------|-------|----------------|------------------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | |
| GP7645GB | 55.5 (210) | 3000 (200) | 800 | 111 (82.3) | 1.77 (45) | \$25,875.00 |
| GP7650GB | 70.0 (264) | 2540 (175) | 800 | 121 (90.0) | 1.97 (50) | \$25,875.00 |
| GP7655GB | 84.5 (320) | 2000 (140) | 800 | 118 (88.0) | 2.17 (55) | \$25,875.00 |

Common Specifications & Materials

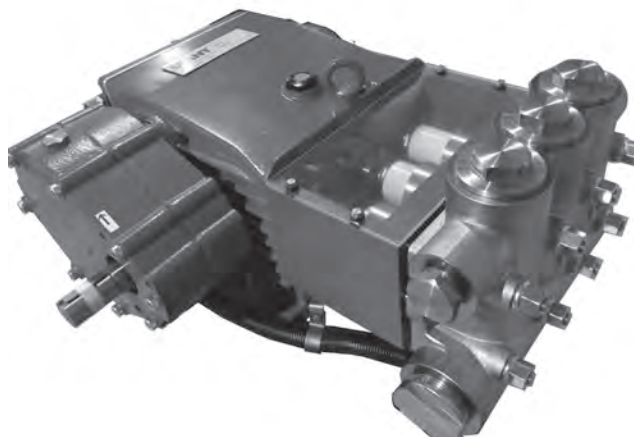
| | U.S. | (Metric) |
|------------------------------|----------------|------------|
| Stroke | 2.28" | (58 mm) |
| Max. Inlet Temperature | 86 °F | (30 °C) |
| Weight | 474 lbs | (215 kg) |
| Crankcase Oil Capacity | 2.1 Gal | (8 Liters) |
| Inlet Ports | (2) 2-1/2" NPT | |
| Outlet Ports | (2) 1-1/4" NPT | |

Materials Used

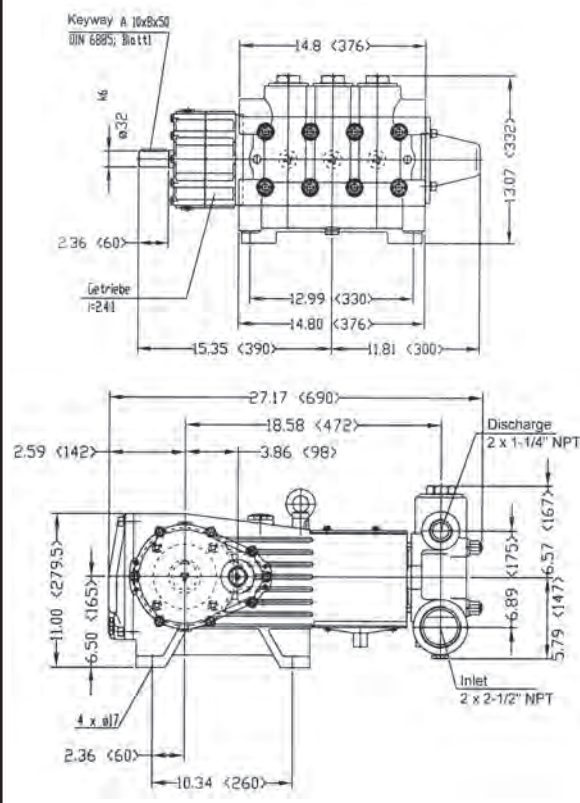
| | |
|-----------------|------------------------------------|
| Manifold | Nickel Plated Spheroidal Cast Iron |
| Plunger | Solid ceramic oxide |
| Valves | Stainless Steel |
| Seals | Nitrile with Fabric Reinforcing |
| Crankcase | Spheroidal Cast Iron |

| Gear Ratios | Input Speed |
|-------------------|-------------|
| 1.9 | 1500 RPM |
| 2.25 | 1800 RPM |
| 2.73 | 2200 RPM |

Gearbox available in 0° and 180° orientations



Solid Pinion Shaft Drive with gearbox



Repair Kits

| Kit | Part Number | List Price |
|----------------------|-------------|------------|
| Plunger Packing Kit: | | |
| (GP7645) | 09603 | \$704.27 |
| (GP7650) | 09526 | \$675.03 |
| (GP7655) | 09220 | \$693.33 |
| Inlet Valve Kit: | 09659* | \$348.14 |
| Discharge Valve Kit: | 09660* | \$387.13 |
| Oil Seal Kit: | 09221 | \$160.63 |

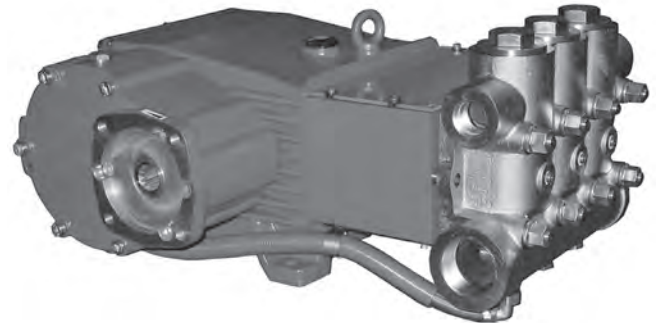
* One Valve Assembly per kit

GP7600GBHS Series



High Flow Gearbox/Hydraulic Drive

| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Price |
|------------|------------|------------|-------|----------------|------------------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | |
| GP7645GBHS | 55.5 (210) | 3000 (200) | 800 | 110 (82.5) | 1.77 (45) | \$26,705.00 |
| GP7650GBHS | 70.0 (264) | 2540 (175) | 800 | 121 (90.0) | 1.97 (50) | \$26,705.00 |
| GP7655GBHS | 84.5 (320) | 2000 (140) | 800 | 118 (88.0) | 2.17 (55) | \$26,705.00 |



Common Specifications & Materials

| | U.S. | (Metric) |
|------------------------------|----------------|--------------|
| Stroke | 2.28" | (58 mm) |
| Max. Inlet Temperature..... | 86 °F | (30 °F) |
| Weight | 476 lbs | (216 kg) |
| Crankcase Oil Capacity | 1.6 Gal. | (6.0 Liters) |
| Inlet Ports | (2) 2-1/2" NPT | |
| Outlet Ports..... | (2) 1-1/4" NPT | |

Materials Used

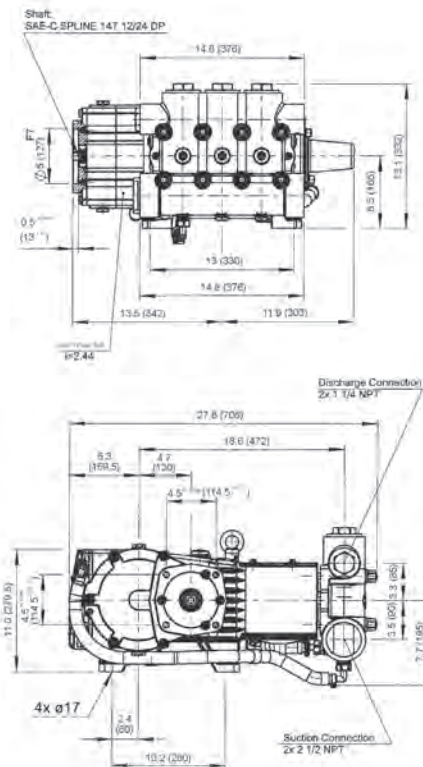
| | |
|-----------------|------------------------------------|
| Manifold | Nickel-Plated Spheroidal Cast Iron |
| Plunger | Solid ceramic oxide |
| Valves | Duplex Steel/Plastic Retainer |
| Seals | Nitrile with Fabric Reinforcing |
| Crankcase | Spheroidal Cast Iron |

Gear Ratios Input Speed

| | |
|-----------|----------|
| 2.25..... | 1800 RPM |
| 2.44..... | 2000 RPM |
| 2.73..... | 2200 RPM |

Gearbox available in 0° and 180° orientations

Hydraulic Drive with gearbox



Repair Kits / Accessories

| Kit | Part Number | List Price |
|----------------------|-------------|------------|
| Plunger Packing Kit: | | |
| (GP7645): | 09603 | \$704.27 |
| (GP7650) | 09526 | \$675.03 |
| (GP7655): | 09220 | \$693.33 |
| Inlet Valve Kit: | 09659* | \$348.14 |
| Discharge Valve Kit: | 09660* | \$387.13 |
| Oil Seal Kit: | 09221 | \$160.63 |
| Anti-Seize | 03325** | \$7.22 |

* One Valve Assembly per kit

**Commercial Discount

GP8135/GP8140 Pumps

High Pressure Pumps with gearbox

| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Price |
|--------|------------|------------|-------|----------------|------------------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | |
| GP8135 | 29.0 (110) | 7250 (500) | 580 | 154 (108) | 1.38 (35) | \$61,065.00 |
| GP8140 | 39.6 (150) | 5510 (380) | 580 | 144 (107) | 1.57 (40) | \$61,065.00 |

Common Specifications & Materials

| | U.S. | (Metric) |
|------------------------------|-------------|-----------------|
| Stroke | 2.83" | (72 mm) |
| Max. Inlet Temperature | 86 °F | (30 °C) |
| Weight (w/ gearbox) | 800 lbs. | (363 kg) |
| Crankcase Oil Capacity | 4.2 Gal | (16.0 Liters) |
| Inlet Ports | (2) 2" NPT* | |
| Outlet Ports..... | (2) 1" NPT* | |

Materials Used

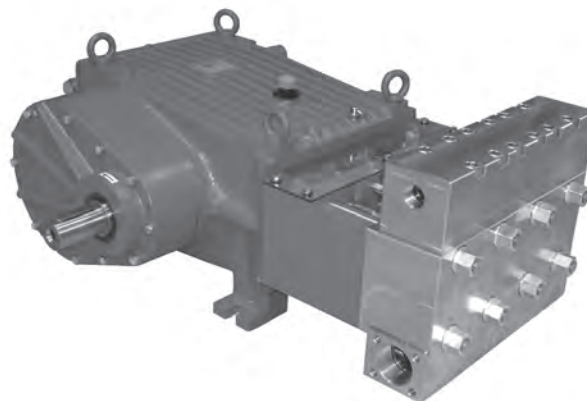
| | |
|-----------------|---------------------------------|
| Manifold | Stainless Steel |
| Plunger | AISI 303 Stainless Steel |
| Valves | Stainless Steel |
| Seals | Nitrile with Fabric Reinforcing |
| Crankcase | Spheroidal Cast Iron |

Gear Ratios Input Speed

| | |
|----------|----------|
| 2.6..... | 1500 RPM |
| 3.1..... | 1800 RPM |
| 3.8..... | 2200 RPM |
| 4.5..... | 2600 RPM |

*BSP versions available upon request

Gearbox available in 0° and 180° orientations

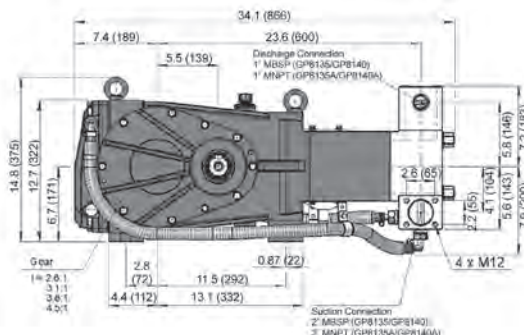
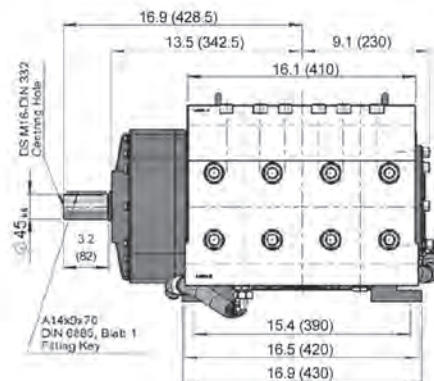


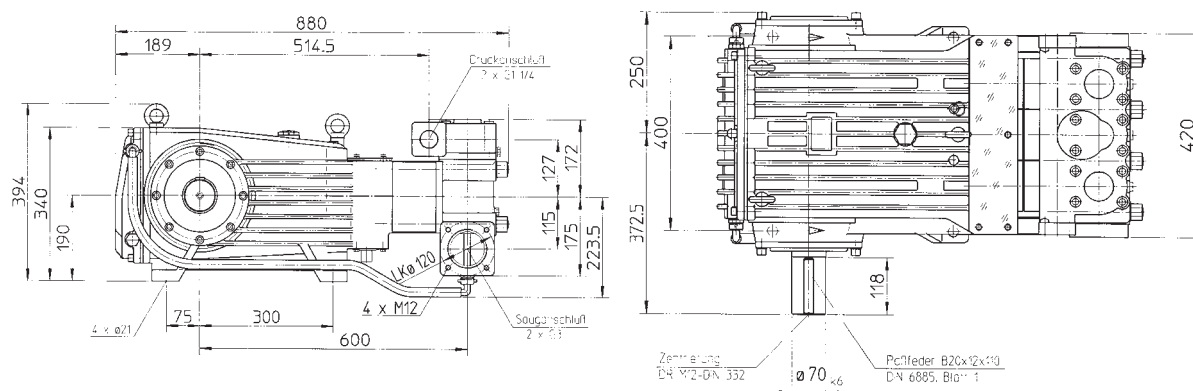
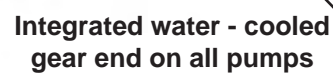
GP8135/40 Shown

Repair Kits

| Kit | Part Number | List Price |
|----------------------|-------------|------------|
| Plunger Packing Kit: | 09707 | \$2,324.73 |
| Inlet Valve Kit: | 09709 | \$1,110.81 |
| Discharge Valve Kit: | 09710 | \$1,096.33 |
| Oil Seal Kit: | 09584A | \$321.48 |

GP8135/GP8145 - Dimensions (mm)





High Flow Pumps

| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Price |
|---------------------|----------------------------|------------|------------|----------------|------------------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | |
| GP8045 | 48.8 (185) | 4350 (300) | 580 | 146 (109) | 1.77 (45) | \$36,020.00 |
| GP8048 | 56.3 (213) | 3770 (260) | 580 | 148 (110) | 1.89 (48) | \$36,020.00 |
| GP8055 ⁺ | 75.3 (285) | 3000 (200) | 580 | 150 (112) | 2.17 (55) | \$37,055.00 |
| GP8055-Brine | 74.8 (283) | 3000 (200) | 580 | 150 (112) | 2.17 (55) | \$60,135.00 |
| GP8060 | 90.0 (340) | 2465 (170) | 580 | 147 (110) | 2.36 (60) | \$37,055.00 |
| GP8060-Brine | 89.8 (340) | 2465 (170) | 580 | 161 (120) | 2.36 (60) | \$56,820.00 |
| GP8065 ⁺ | 105.7 (400) / 120* (45.5)* | 2000 (140) | 580 / 657* | 142 (106) | 2.55 (65) | \$37,055.00 |
| GP8065-Brine | 105.7 (400) | 2000 (140) | 580 | 150 (112) | 2.55 (65) | \$60,135.00 |
| GP8076 | 132 (500) | 1500 (100) | 520 | 129 (96) | 2.99 (76) | \$45,125.00 |
| GP8265 | 127 (480) | 1740 (120) | 700 | 147 (106) | 2.55 (65) | \$46,525.00 |

* Intermittent duty

- ⁺ GP8055-SSP - With Stainless Steel Plungers - \$39,125.00
 GP8065-SS - With Stainless Steel Plungers - \$40,470.00

Repair Kits

| Kit | Part Number | List Price |
|-----------------------------|-------------|------------|
| <u>Plunger Packing Kit:</u> | | |
| GP8045: | 09626 | \$1,367.46 |
| GP8048: | 09627 | \$1,606.85 |
| GP8055: | 09616 | \$696.44 |
| GP8060: | 09617 | \$1,431.27 |
| GP8065/GP8265: | 09586 | \$1,205.76 |
| GP8076: | 09861 | \$2,167.47 |
| <u>Inlet Valve Kit:</u> | | |
| GP8045/GP8048 | 09818 | \$1,303.37 |
| GP8055/GP8060/GP8065 | 09587 | \$1,046.87 |
| <u>Discharge Valve Kit:</u> | | |
| GP8045/GP8048: | 09819 | \$1,466.69 |
| GP8055/GP8060/GP8065: | 09588 | \$1,205.63 |
| <u>Complete Valve Kit:</u> | | |
| GP8076: | 09862 | \$3,135.77 |
| GP8265: | 09865 | \$3,409.71 |
| <u>Oil Seal Kits:</u> | | |
| All other pumps: | 09584 | \$260.69 |
| GP8076/GP8265: | 09584A | \$321.48 |

Common Specifications & Materials

| | U.S. | (Metric) |
|------------------------------|----------------|----------|
| Stroke | 2.83" | (72 mm) |
| Max. Inlet Temperature | 86 °F | (30 °C) |
| Weight | 749 lbs. | (340 kg) |
| Crankcase Oil Capacity | 3.3 Gal. | (12.5 L) |
| Inlet Ports | (2) 3" BSP | |
| Outlet Ports | (2) 1-1/4" BSP | |

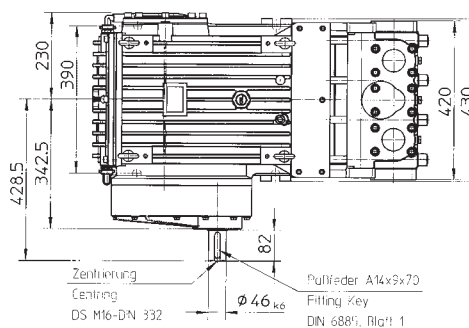
Materials Used

| | |
|-------------------------|------------------------------------|
| Manifold | Nickel Plated Spheroidal Cast Iron |
| Manifold (-1000) | Bronze |
| Manifold (-Brine) | Nickel Aluminum Bronze |
| Plunger | Solid Ceramic Oxide |
| Valves | Duplex Stainless Steel |
| Seals | Nitrile with Fabric Reinforcing |
| Crankcase | Spheroidal Cast Iron |



Technical drawing of the pump assembly showing dimensions and connection points:

- Overall width: 880
- Distance from left edge to center of discharge connection: 600
- Distance from left edge to center of suction connection: 514.5
- Distance from left edge to center of discharge connection (alternative): 189
- Distance from left edge to center of suction connection (alternative): 139
- Overall height: 374
- Height from base to center of discharge connection: 321
- Height from base to center of suction connection: 170
- Distance from left edge to center of discharge connection (alternative): 172
- Distance from left edge to center of suction connection (alternative): 175
- Distance from left edge to center of discharge connection (alternative): 223.5
- Distance from left edge to center of suction connection (alternative): 22
- Distance from left edge to center of discharge connection (alternative): 72
- Distance from left edge to center of suction connection (alternative): 292
- Distance from left edge to center of discharge connection (alternative): 112
- Distance from left edge to center of suction connection (alternative): 332
- Discharge Connection: Druckschluß 2xG1 1/4
- Suction Connection: Saugschluß 2xG3
- Connection detail: 1/4xø 120
- Connection detail: 6xM12



Gearbox w/Solid Pinion Shaft

| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Price |
|--------------|----------------------------|------------|----------|----------------|------------------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | |
| GP8145 | 56.3 (213) | 4350 (300) | 580 | 148 (110) | 1.89 (48) | \$39,850.00 |
| GP8148 | 56.0 (213) | 3770 (260) | 580 | 148 (110) | 1.89 (48) | \$39,850.00 |
| GP8155 | 75.3 (285) | 3000 (200) | 580 | 145 (108) | 2.17 (55) | \$39,850.00 |
| GP8155-Brine | 74.8 (283) | 2900 (200) | 580 | 150 (112) | 2.17 (55) | \$60,135.00 |
| GP8160 | 90.0 (337) | 2500 (170) | 580 | 147 (110) | 2.36 (60) | \$39,850.00 |
| GP8160-Brine | 89.8 (340) | 2465 (170) | 580 | 153 (114) | 2.36 (60) | \$60,135.00 |
| GP8165 | 105.6 (400)/ 120 (455)* | 2000 (140) | 580/658* | 142 (106) | 2.55 (65) | \$39,850.00 |
| GP8165-Brine | 105.6 (400) | 2000 (140) | 580 | 146 (109) | 2.55 (65) | \$60,135.00 |
| GP8176 | 132 (500) | 1500 (100) | 520 | 129 (96) | 2.99 (76) | \$47,770.00 |

* Intermittent duty

Repair Kits

| Kit | Part Number | List Price |
|-----------------------------|-------------|------------|
| <u>Plunger Packing Kit:</u> | | |
| (GP8045): | 09626 | \$1,367.46 |
| (GP8048): | 09627 | \$1,606.85 |
| (GP8055): | 09616 | \$696.44 |
| (GP8060): | 09617 | \$1,431.27 |
| (GP8065): | 09586 | \$1,205.76 |
| <u>Inlet Valve Kit:</u> | | |
| GP8045/GP8048 | 09818 | \$1,303.37 |
| GP8145/GP8148 | 09725 | \$1,447.21 |
| GP8055/GP8060/GP8065 | 09587 | \$1,046.87 |
| <u>Discharge Valve Kit:</u> | | |
| GP8045/GP8048 | 09819 | \$1,466.69 |
| GP8145/GP8148 | 09726 | \$1,560.87 |
| GP8055/GP8060/GP8065 | 09588 | \$1,205.63 |
| Oil Seal Kit: | 09584A | \$321.48 |

Common Specifications & Materials

| | U.S. | (Metric) |
|-------------------------------------|----------------|----------|
| Stroke | 2.83" | (72 mm) |
| Max. Inlet Temperature | 86 °F | (30 °C) |
| Weight | 794 lbs | (360 kg) |
| Crankcase Oil Capacity | 3.3 Gal | (12.5 L) |
| Crankcase Oil Capacity (gearbox) .. | 4.2 Gal | (16.0 L) |
| Inlet Ports | (2) 3" BSP | |
| Outlet Ports | (2) 1-1/4" BSP | |

Materials Used

| | |
|-------------------------|------------------------------------|
| Manifold | Nickel Plated Spheroidal Cast Iron |
| Manifold (-1000) | Bronze |
| Manifold (-Brine) | Nickel Aluminum Bronze |
| Plunger | Solid Ceramic Oxide |
| Valves | Duplex Steel/Plastic Retainer |
| Seals | Nitrile with Fabric Reinforcing |
| Crankcase | Spheroidal Cast Iron |

| Gear Ratios | Input Speed |
|-------------------|-------------|
| 2.6 | 1500 RPM |
| 3.1 | 1800 RPM |
| 3.8 | 2200 RPM |
| 4.5 | 2600 RPM |

Gearbox also available in Reverse Position

High Flow Pump - Gearbox w/Solid Pinion Shaft

| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Price |
|--------------|-------------|------------|-------|----------------|------------------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | |
| GP8155GB-180 | 75.3 (285) | 3000 (200) | 580 | 150 (112) | 2.17 (55) | \$41,295.00 |
| GP8160GB-180 | 90.0 (340) | 2500 (170) | 580 | 155 (116) | 2.36 (60) | \$41,295.00 |
| GP8165GB-180 | 105.7 (400) | 2000 (140) | 580 | 153 (114) | 2.55 (65) | \$41,295.00 |

Common Specifications & Materials

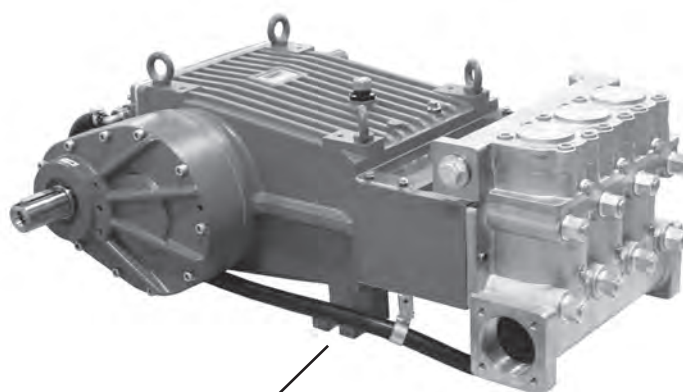
| | U.S. | (Metric) |
|------------------------------|-------------|-----------------|
| Stroke | 2.83" | (72 mm) |
| Max. Inlet Temperature | 86 °F | (30 °C) |
| Weight (approx.) | 775 lbs | (352 kg) |
| Crankcase Oil Capacity | 4.2 Gal. | (16.0 Liters) |
| Inlet Ports | (2) 3" | BSP |
| Outlet Ports | (2) 1-1/4" | BSP |

Materials Used

Manifold Nickel Plated Spheroidal Cast Iron
Plunger Solid Ceramic Oxide
Valves Duplex Stainless Steel
Seals Nitrile with Fabric Reinforcing
Crankcase Spheroidal Cast Iron

| Gear Ratios | Input Speed |
|-------------------|-------------|
| 2.6..... | 1500 RPM |
| 3.1..... | 1800 RPM |
| 3.8..... | 2200 RPM |
| 4.5..... | 2600 RPM |

Gearbox in Reverse Position

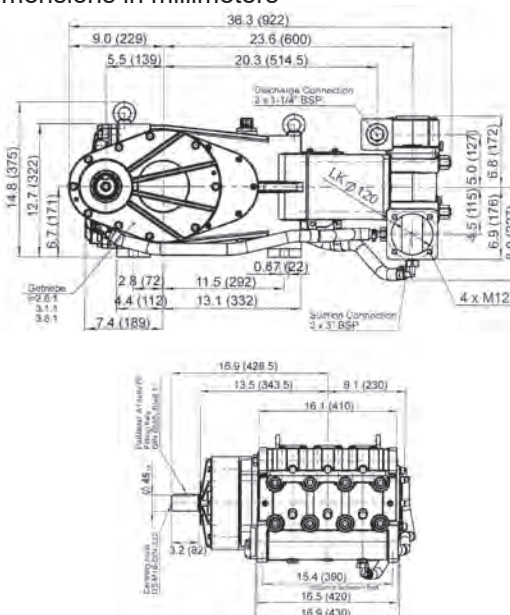


**Integrated water - cooled
gear end on all pumps**

Repair Kits

| Kit | Part Number | List Price |
|------------------------------|-------------|------------|
| <u>Plunger Packing Kit :</u> | | |
| (GP8155): | 09616 | \$696.44 |
| (GP8160): | 09617 | \$1,431.27 |
| (GP8165): | 09586 | \$1,205.76 |
| Inlet Valve Kit: | 09587 | \$1,046.87 |
| Discharge Valve Kit: | 09588 | \$1,205.63 |
| Oil Seal Kit: | 09584A | \$321.48 |

Dimensions in millimeters



GP8100 Series



Hydraulic Drive Pumps with Splined Shaft

| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Price |
|------------|-------------|------------|-------|----------------|------------------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | |
| GP8155GBHS | 75.3 (285) | 3000 (200) | 580 | 145 (108) | 2.17 (55) | \$41,400.00 |
| GP8160GBHS | 90.0 (340) | 2500 (170) | 580 | 147 (110) | 2.36 (60) | \$41,400.00 |
| GP8165GBHS | 106.0 (400) | 2000 (140) | 580 | 142 (106) | 2.55 (65) | \$41,400.00 |

Common Specifications & Materials

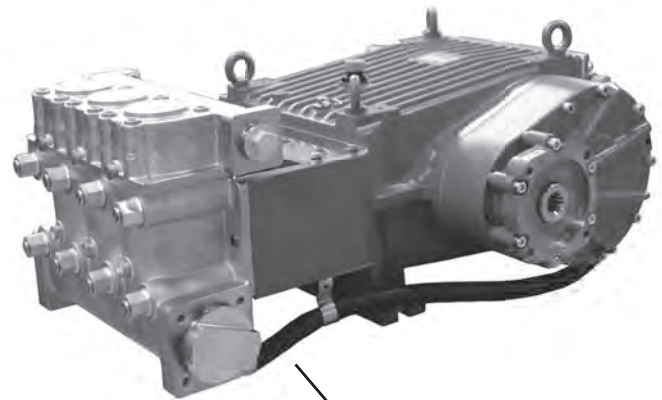
| | U.S. | (Metric) |
|------------------------------|----------------|---------------|
| Stroke | 2.83" | (72 mm) |
| Max. Inlet Temperature | 86 °F | (30 °C) |
| Weight (w/o gearbox) | 793 lbs | (360 kg) |
| Crankcase Oil Capacity | 4.2 Gal | (16.0 Liters) |
| Inlet Ports | (2) 3" BSP | |
| Outlet Ports | (2) 1-1/4" BSP | |

Materials Used

| | |
|-----------------|-------------------------------------|
| Manifold | Nickel Plated Spheroidal Cast Iron |
| Plunger | Solid Ceramic Oxide |
| Valves | Duplex and Standard Stainless Steel |
| Seals | Nitrile with Fabric Reinforcing |
| Crankcase | Spheroidal Cast Iron |

Gear Ratio 3.8:1

Gearbox also available in Reverse Position



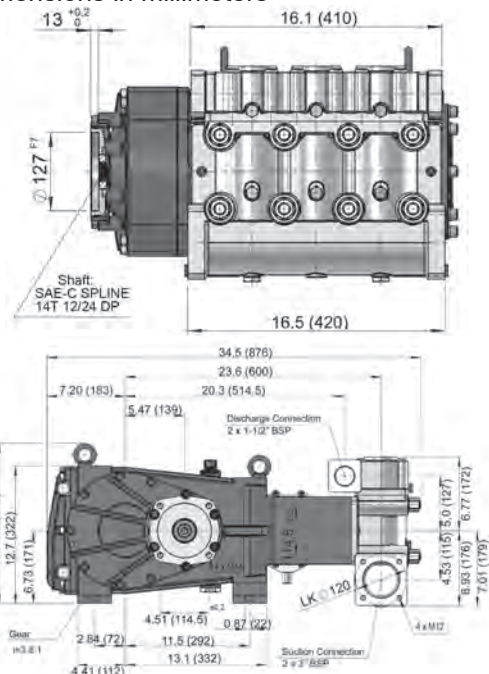
Integrated water - cooled gear end on all pumps

Repair Kits / Accessories

| Kit | Part Number | List Price |
|----------------------|-------------|------------|
| Plunger Packing Kit | | |
| (GP8155): | 09616 | \$696.44 |
| (GP8160): | 09617 | \$1,431.27 |
| (GP8165): | 09586 | \$1,205.76 |
| Inlet Valve Kit: | 09587 | \$1,046.87 |
| Discharge Valve Kit: | 09588 | \$1,205.63 |
| Oil Seal Kit: | 09584A | \$321.48 |
| Anti-Seize: | 03325* | \$7.22 |

*Commercial Discount

Dimensions in millimeters



Specialty Pumps:

-Seawater/Brine Water Pumps

-Corrosion Resistant Pumps

-High Temperature Pumps (220 °F)

-High Temperature Pumps (195 °F)

-CO₂ Pumps

-Machine Tool Pumps

-Bentonite Pumps

-Pentane Pumps

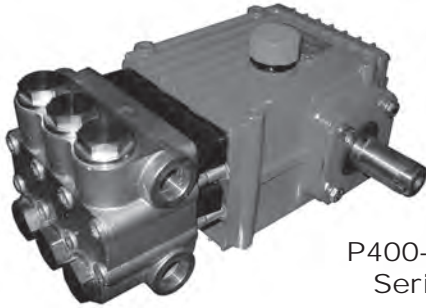
(pages 83 to 91)

Seawater/Brine Water Pumps



Nickel Aluminum-Bronze

These pumps can withstand the corrosive effect of certain types of fluid. Built with either Nickel-Aluminum-Bronze, AISI 316 stainless steel or Duplex stainless steel. Typical applications for these pumps are reverse osmosis (desalination), brine pumping, waste-water injection, chemical processing, humidification, misting, and degreasing/cleaning for industrial applications.



P400-3100
Series



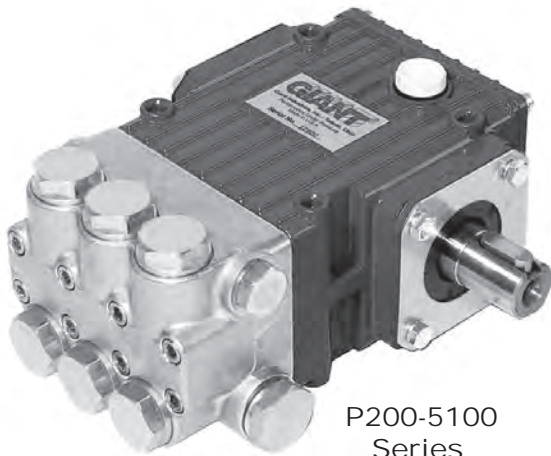
GP7155-3100 Pump

| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Price |
|-------------|--------------|------------|-------|----------------|------------------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | |
| P230-3100 | 1.1 (4.2) | 2200 (150) | 1750 | 1.5 (1.1) | 0.71 (18) | \$1,845.00 |
| P221-3100 | 2.3 (8.9) | 2200 (150) | 1750 | 3.3 (2.5) | 0.71 (18) | \$1,845.00 |
| P217-3100 | 3.3 (12.5) | 2200 (150) | 3450 | 5.0 (3.7) | 0.71 (18) | \$1,845.00 |
| P218-3100 | 3.4 (12.8) | 2200 (150) | 1750 | 4.7 (3.5) | 0.71 (18) | \$1,845.00 |
| P219-3100 | 4.2 (15.9) | 2200 (150) | 1750 | 5.8 (4.3) | 0.71 (18) | \$1,845.00 |
| P220-3100 | 4.7 (17.6) | 2200 (150) | 1750 | 6.5 (4.9) | 0.71 (18) | \$1,845.00 |
| P55-3100 | 4.8 (18.1) | 1900 (130) | 1420 | 6.3 (4.7) | 0.71 (18) | \$2,825.00 |
| P450-3100 | 5.5 (21) | 5100 (350) | 1450 | 19.2 (14.3) | 0.71 (18) | \$5,815.00 |
| P56-3100 | 6.1 (23.0) | 1900 (130) | 1420 | 8.0 (6.0) | 0.71 (18) | \$2,825.00 |
| P435-3100 | 6.6 (25) | 3625 (250) | 1450 | 16.6 (12.4) | 0.71 (18) | \$5,815.00 |
| P423-3100 | 8.2 (31.1) | 2900 (200) | 1450 | 16.4 (12.2) | 0.87 (22) | \$5,815.00 |
| P422-3100 | 9.9 (37.5) | 2610 (180) | 1450 | 17.8 (13.3) | 0.87 (22) | \$5,815.00 |
| P425-3100 | 10.6 (40.4) | 2500 (170) | 1450 | 18.1 (13.5) | 0.98 (25) | \$5,815.00 |
| P420-3100 | 12.8 (48.4) | 2200 (150) | 1450 | 19.2 (14.3) | 0.98 (25) | \$5,815.00 |
| MP4130-3100 | 15.4 (58.3) | 1600 (110) | 1100 | 17.0 (12.7) | 1.2 (30) | \$9,420.00 |
| MP4135-3100 | 18.0 (68.1) | 1600 (110) | 1100 | 19.9 (14.8) | 1.2 (30) | \$9,420.00 |
| LP250A-3100 | 25.7 (97.3) | 2030 (140) | 1000 | 36.0 (26.9) | 1.3 (32) | \$12,835.00 |
| LP122A-3100 | 35.4 (134.0) | 1300 (90) | 800 | 31.7 (23.6) | 1.7 (42) | \$12,835.00 |
| GP6145-3100 | 46.5 (175.9) | 1740 (120) | 800 | 55.8 (41.6) | 1.8 (45) | \$26,080.00 |
| GP8045-3100 | 48.9 (185) | 4350 (185) | 580 | 146.7 (109.4) | 1.8 (45) | \$72,000.00 |
| GP8048-3100 | 56.3 (215) | 3770 (260) | 580 | 146.4 (109.2) | 1.9 (48) | \$72,000.00 |
| GP7155-3100 | 65.8 (249.1) | 1500 (100) | 700 | 65.7 (49.0) | 2.2 (55) | \$39,745.00 |
| GP8055-3100 | 74.8 (285) | 2900 (200) | 580 | 161.8 (120.7) | 2.2 (55) | \$72,000.00 |
| GP8060-3100 | 90.0 (340) | 2465 (170) | 580 | 153.0 (114.1) | 2.4 (60) | \$72,000.00 |
| GP8065-3100 | 105.6 (400) | 2030 (140) | 580 | 150.0 (111.9) | 2.6 (65) | \$72,000.00 |

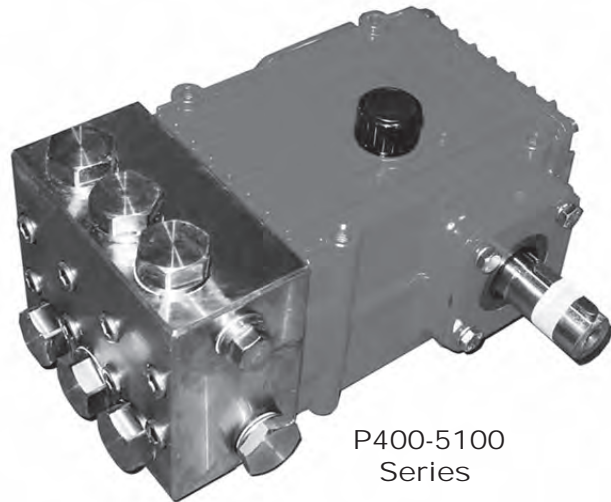
Corrosion Resistant Pumps



AISI 316 Stainless Steel



P200-5100
Series



P400-5100
Series

| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Price |
|----------------------------|-------------|------------|-------|----------------|------------------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | |
| P205-5100 ¹ | 0.38 (1.4) | 2500 (170) | 1750 | 0.7 (0.5) | 0.47 (12) | \$2,340.00 |
| P206-5100 ⁶ | 0.73 (2.8) | 2200 (150) | 1750 | 1.0 (0.7) | 0.47 (12) | \$2,340.00 |
| P230-5100 ^{2,4} | 1.1 (4.2) | 2200 (150) | 1750 | 1.7 (1.2) | 0.71 (18) | \$2,340.00 |
| P209-5100 ⁶ | 1.5 (5.7) | 2200 (150) | 1750 | 2.1 (1.6) | 0.47 (12) | \$2,340.00 |
| P227-5100 | 2.1 (8.0) | 2200 (150) | 1750 | 2.9 (2.2) | 0.71 (18) | \$2,340.00 |
| P221-5100 ^{1,5} | 2.3 (8.9) | 2200 (150) | 1750 | 3.5 (2.6) | 0.71 (18) | \$2,340.00 |
| P217-5100 ^{1,5} | 3.3 (12.5) | 2200 (150) | 3450 | 5.0 (3.7) | 0.71 (18) | \$2,340.00 |
| P218-5100 | 3.4 (12.8) | 2200 (150) | 1750 | 5.2 (3.8) | 0.71 (18) | \$2,340.00 |
| P55-5100 ^{3*} | 3.9 (14.7) | 2320 (160) | 1420 | 7.8 (5.8) | 0.71 (18) | \$5,000.00 |
| P219-5100 ^{1,3,4} | 4.2 (15.9) | 2200 (150) | 1750 | 6.4 (4.8) | 0.71 (18) | \$2,340.00 |
| P220-5100 ^{1,4} | 4.7 (17.6) | 2200 (150) | 1750 | 7.1 (5.3) | 0.71 (18) | \$2,340.00 |
| P450-5100 ^{3,4,5} | 5.5 (20.8) | 5075 (350) | 1450 | 19.2 (14.3) | 0.71 (18) | \$8,785.00 |
| P56-5100 ^{3,7} | 6.1 (23.1) | 1885 (130) | 1420 | 7.9 (5.9) | 0.79 (20) | \$5,000.00 |
| P435-5100 | 6.6 (25.0) | 3625 (250) | 1450 | 16.6 (12.4) | 0.71 (18) | \$7,625.00 |
| P423-5100 | 8.2 (31.1) | 3000 (200) | 1450 | 16.4 (12.2) | 0.87 (22) | \$8,760.00 |
| LP600-5100 | 9.8 (37.0) | 5800 (400) | 1000 | 39.5 (29.5) | 0.79 (20) | \$15,950.00 |
| P422-5100 | 9.9 (37.3) | 2600 (180) | 1450 | 17.7 (13.2) | 0.87 (22) | \$8,760.00 |
| P425-5100 | 10.6 (40.4) | 2500 (170) | 1450 | 18.1 (13.5) | 0.98 (25) | \$7,625.00 |
| P420-5100 ^{1,3} | 12.8 (48.4) | 2200 (150) | 1450 | 19.2 (14.3) | 0.98 (25) | \$7,625.00 |

¹ (-5111) 316 SS with Viton Packing and O-Rings

² (-5120) 316 SS with Teflon Packing

³ (-5121) 316 SS with Teflon Packing and Viton O-Rings

⁴ (-5123) 316 SS with Teflon Seals and EPDM O-Rings

⁵ (-5130) 316 SS with High Temp Seals

⁶ (-5180) 316 SS with Teflon Weep Seals and Nitrile V-Sleeves

⁷ (-5181) 316 SS with Teflon V-Sleeves

* Commercial Discount

Corrosion Resistant Pumps

AISI 316 Stainless Steel



LP Series



GP Series

| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Price |
|--------------------------|--------------|------------|-------|----------------|------------------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | |
| MP4124-5100 | 12.8 (48.6) | 2610 (180) | 1450 | 23.0 (17.1) | 0.94 (24) | \$14,900.00 |
| LP301A-5100 | 14.2 (53.6) | 3900 (270) | 1000 | 39.2 (29.2) | 0.94 (24) | \$15,950.00 |
| MP4126-5100 | 17.9 (67.7) | 1600 (110) | 1100 | 20.4 (15.2) | 1.2 (30) | \$14,900.00 |
| LP200-5100 | 19.1 (72.2) | 3000 (200) | 1000 | 39.5 (29.5) | 1.1 (28) | \$15,950.00 |
| LP250A-5100 | 26 (98.3) | 2200 (150) | 1000 | 39.4 (29.4) | 1.3 (32) | \$15,950.00 |
| GP5132-5100 | 27.7 (104.9) | 2900 (200) | 1000 | 57.4 (42.8) | 1.3 (32) | \$21,840.00 |
| GP8035-5100 | 29 (110) | 7250 (500) | 580 | 145.5 (105.5) | 1.4 (35) | \$81,195.00 |
| LP121A-5100 ¹ | 32.5 (123.1) | 1740 (120) | 1000 | 39.0 (29.1) | 1.4 (36) | \$15,950.00 |
| GP5136-5100 | 33.8 (127.8) | 2320 (160) | 910 | 54.0 (40.3) | 1.4 (36) | \$21,840.00 |
| LP122A-5100 | 35.4 (134.0) | 1300 (90) | 800 | 33.1 (24.7) | 1.7 (42) | \$17,490.00 |
| GP7142-5100 | 38.4 (145.2) | 2600 (180) | 700 | 69.0 (51.5) | 1.7 (42) | \$40,365.00 |
| GP8040-5100 | 39.6 (150) | 5510 (380) | 580 | 150.5 (112.2) | 1.6 (40) | \$81,195.00 |
| GP5145-5100 | 43.5 (164.6) | 1450 (100) | 750 | 43.5 (32.5) | 1.8 (45) | \$21,840.00 |
| GP8045-5100 | 48.9 (185) | 4350 (300) | 580 | 146.7 (109.4) | 1.8 (45) | \$81,195.00 |
| GP7150-5100 | 54.4 (205.8) | 1900 (130) | 700 | 70.6 (52.7) | 2.0 (50) | \$40,365.00 |
| GP8048-5100 | 56.3 (213) | 3770 (260) | 580 | 146.4 (109.2) | 1.9 (48) | \$81,195.00 |
| GP7155-5100 | 65.8 (249.1) | 1500 (100) | 700 | 65.7 (49.0) | 2.2 (55) | \$47,920.00 |
| GP8055-5100 | 74.8 (283) | 3000 (200) | 580 | 161.8 (120.7) | 2.2 (55) | \$81,195.00 |
| GP8060-5100 | 90 (340) | 2465 (170) | 580 | 153.0 (114.1) | 2.4 (60) | \$81,195.00 |
| GP8065-5100 | 105.6 (400) | 2030 (140) | 580 | 150.0 (111.9) | 2.6 (65) | \$81,195.00 |

¹ (-5123) 316 SS with Teflon Seals and EPDM O-Rings

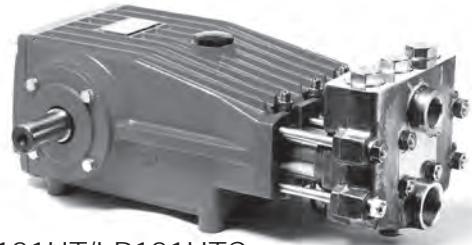
High Temperature/Boiler Feed Pumps

220 Degree Rating

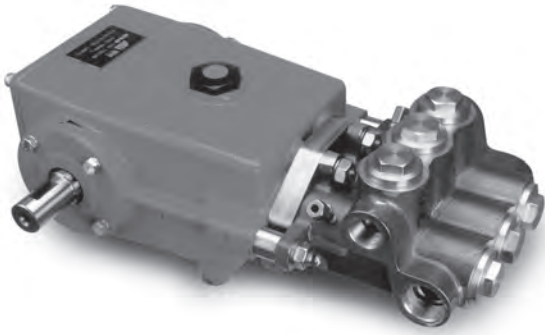
GIANT



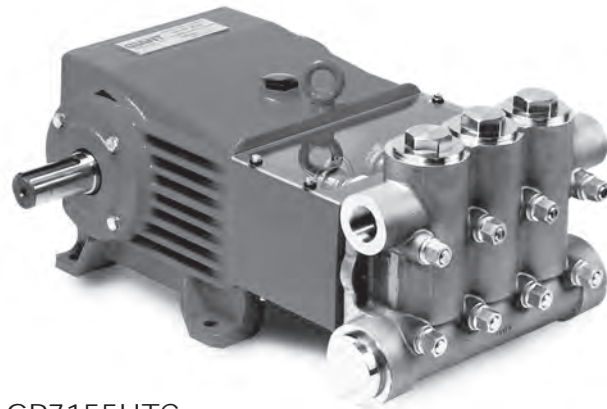
P56HT



LP121HT/LP121HTC



MP4130HTC



GP7155HTC

| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Price |
|----------------|--------------|-----------|-------|----------------|------------------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | |
| P46HT* | 2.5 (9.3) | 870 (60) | 900 | 0.9 (0.7) | 0.71 (18) | \$1,655.00 |
| P56HT* | 3.2 (12.2) | 870 (60) | 750 | 1.9 (1.4) | 0.79 (20) | \$2,275.00 |
| SP100HT | 5.9 (22.5) | 870 (60) | 750 | 3.5 (2.6) | 1.02 (26) | \$4,245.00 |
| MP4130HTC | 10.5 (39.7) | 1160 (80) | 750 | 8.4 (6.2) | 1.18 (30) | \$8,150.00 |
| MP4126HTC | 12.2 (46.2) | 1160 (80) | 750 | 9.8 (7.3) | 1.18 (30) | \$10,105.00 |
| MP4135HTC | 12.2 (46.2) | 1160 (80) | 750 | 9.8 (7.3) | 1.18 (30) | \$10,105.00 |
| LP121HT | 17.7 (66.8) | 1160 (80) | 570 | 14.6 (10.9) | 1.42 (36) | \$10,870.00 |
| LP121HTC | 17.7 (66.8) | 1160 (80) | 570 | 14.6 (10.9) | 1.42 (36) | \$16,570.00 |
| LP121A-4000HT | 17.7 (66.8) | 1160 (80) | 570 | 14.6 (10.9) | 1.42 (36) | \$17,330.00 |
| GP7142HTC | 25.1 (95.0) | 1160 (80) | 460 | 20.1 (15.0) | 1.7 (42) | \$24,945.00 |
| GP7142-4000HTC | 25.1 (95.0) | 1160 (80) | 460 | 20.1 (15.0) | 1.7 (42) | \$47,610.00 |
| GP7155HTC | 42.4 (160.3) | 1160 (80) | 460 | 34.9 (26.0) | 2.17 (55) | \$46,295.00 |
| GP7255AHTC | 42.4 (160.3) | 1160 (80) | 460 | 34.9 (26.0) | 2.17 (55) | \$33,740.00 |
| GP8065HT-1000 | 75.3 (285) | 1450 (80) | 420 | 75.3 (56.1) | 2.55 (65) | \$63,135.00 |

*Commercial Discount

High Temperature/High Pressure Pumps

GIANT

195 Degree Rating



P200-0030 Series



P56HK



P300-0030 Series



MP4130HK

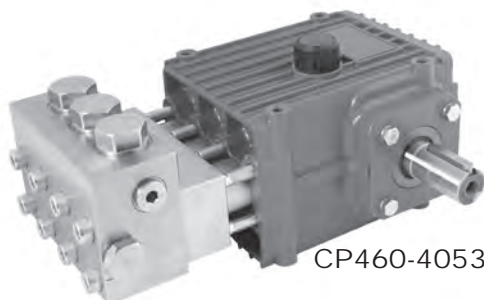
| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Price |
|------------------|-------------|------------|-------|----------------|------------------|------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | |
| P230-0030 | 1.1 (4.2) | 2000 (140) | 1750 | 1.5 (1.1) | 0.71 (18) | \$1,320.00 |
| P217-0030 | 1.8 (6.8) | 2000 (140) | 1750 | 2.5 (1.9) | 0.71 (18) | \$1,320.00 |
| P221-0030 | 2.3 (8.9) | 2000 (140) | 1750 | 3.2 (2.4) | 0.71 (18) | \$1,320.00 |
| P49W-HK | 2.7 (10.2) | 2200 (150) | 1420 | 4.1 (3.1) | 0.71 (18) | \$1,775.00 |
| P218-0030 | 3.4 (12.9) | 2000 (140) | 1750 | 4.7 (3.5) | 0.71 (18) | \$1,320.00 |
| P317-0030 | 3.5 (13.2) | 2500 (175) | 1750 | 6.0 (4.5) | 0.71 (18) | \$1,365.00 |
| P46W-HK | 3.9 (14.7) | 2200 (150) | 1420 | 6.0 (4.5) | 0.71 (18) | \$1,510.00 |
| P219-0030 | 4.2 (15.9) | 2000 (140) | 1750 | 5.8 (4.3) | 0.71 (18) | \$1,320.00 |
| P220-0030 | 4.7 (17.8) | 2000 (140) | 1750 | 6.5 (4.8) | 0.71 (18) | \$1,320.00 |
| P316-0030 | 5.0 (18.9) | 2500 (175) | 1750 | 8.1 (6.0) | 0.71 (18) | \$1,365.00 |
| P319-0030 | 5.2 (19.7) | 2500 (175) | 1750 | 9.0 (6.8) | 0.71 (18) | \$1,365.00 |
| P455B-0030 | 5.5 (21.0) | 4350 (300) | 1450 | 19.3 (14.4) | 0.71 (18) | \$3,105.00 |
| <i>P450-0030</i> | 5.5 (21.0) | 5100 (350) | 1450 | 19.8 (14.8) | 0.71 (18) | \$3,105.00 |
| P56W-HK | 6.1 (23.1) | 1900 (130) | 1420 | 8.0 (6.0) | 0.79 (20) | \$2,055.00 |
| P56HTK | 6.1 (23.1) | 1900 (130) | 1420 | 8.0 (6.0) | 0.79 (20) | \$2,275.00 |
| P435-0030 | 6.6 (25) | 3625 (250) | 1450 | 16.5 (12.3) | 0.71 (18) | \$3,105.00 |
| SP100HTK | 7.1 (26.9) | 870 (60) | 900 | 4.7 (3.5) | 1.02 (26) | \$4,020.00 |
| SP100HK | 11.2 (42.5) | 1885 (130) | 1420 | 14.6 (10.9) | 1.02 (26) | \$4,245.00 |
| <i>MP4130HK</i> | 15.4 (58.2) | 1600 (110) | 1100 | 17.6 (13.1) | 1.18 (30) | \$6,205.00 |



CP420/CP425



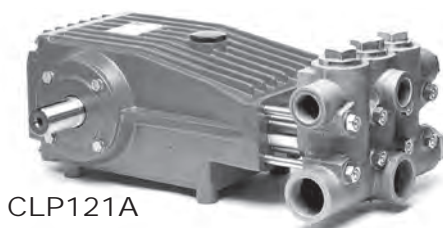
CP470



CP460-4053



CGP7555-1023



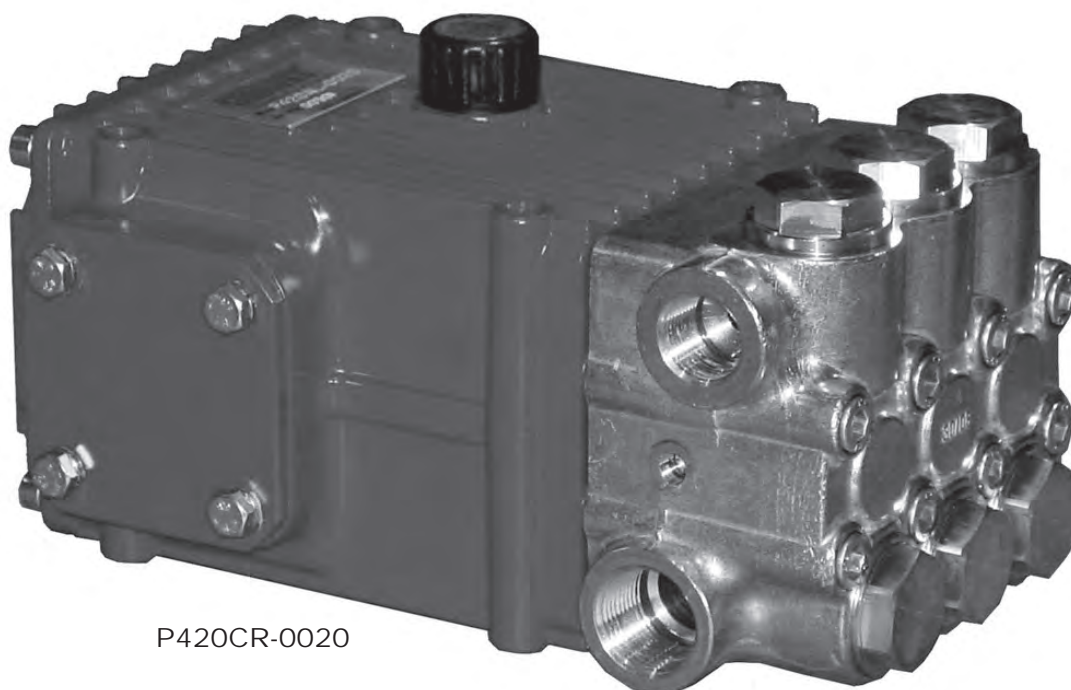
CLP121A



CGP7163

| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Price |
|---------------------|--------------|------------|-------|----------------|------------------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | | | |
| <i>CP230-5123</i> | 0.45 (1.7) | 2000 (140) | 750 | 0.7 (0.5) | 0.71 (18) | \$3,520.00 |
| <i>CP230</i> | 0.5 (1.8) | 2000 (140) | 750 | 0.7 (0.5) | 0.71 (18) | \$1,450.00 |
| <i>CP217</i> | 0.73 (2.7) | 2000 (140) | 750 | 1.0 (0.8) | 0.71 (18) | \$1,450.00 |
| <i>CP217-5123</i> | 0.73 (2.7) | 2000 (140) | 750 | 1.0 (0.8) | 0.71 (18) | \$3,520.00 |
| <i>CP218</i> | 1.4 (5.3) | 2000 (140) | 750 | 2.0 (1.5) | 0.71 (18) | \$1,450.00 |
| <i>CP218-5123</i> | 1.4 (5.3) | 2000 (140) | 750 | 2.0 (1.5) | 0.71 (18) | \$3,520.00 |
| <i>CP220</i> | 1.9 (7.3) | 2000 (140) | 750 | 2.7 (2.0) | 0.71 (18) | \$1,450.00 |
| <i>CP220-5123</i> | 1.9 (7.3) | 2000 (140) | 750 | 2.7 (2.0) | 0.71 (18) | \$3,520.00 |
| <i>CP460-4053</i> | 2.0 (7.5) | 7250 (500) | 750 | 10.0 (7.5) | 0.55 (14) | \$7,835.00 |
| <i>CP425</i> | 5.5 (21.0) | 2000 (140) | 750 | 7.8 (5.8) | 1.02 (25) | \$5,150.00 |
| <i>CP425-5123</i> | 5.5 (21.0) | 2000 (140) | 750 | 7.8 (5.8) | 1.02 (25) | \$9,920.00 |
| <i>CP420</i> | 6.4 (24.3) | 1740 (120) | 750 | 7.7 (5.7) | 1.02 (25) | \$5,150.00 |
| <i>CP420-5123</i> | 6.4 (24.3) | 1740 (120) | 750 | 7.7 (5.7) | 1.02 (25) | \$9,920.00 |
| <i>CP470</i> | 9.2 (35.0) | 1740 (120) | 750 | 11.1 (8.3) | 1.18 (30) | \$5,805.00 |
| <i>CLP121A</i> | 15.9 (60.0) | 1740 (120) | 500 | 19.1 (14.2) | 1.42 (36) | \$17,875.00 |
| <i>CGP7555-1023</i> | 51.5 (195.0) | 1500 (100) | 550 | 55.2 (41.2) | 2.17 (55) | \$47,870.00 |
| <i>CGP7163</i> | 61.8 (233.8) | 1160 (80) | 500 | 47.4 (35.3) | 2.48 (63) | \$46,115.00 |

High pressure pumps that are used in the machining process will assist manufactures in the production of various metallic parts. Because machine tool coolant has special characteristics, special designs are often used to make sure that the pumps operate as needed. These pumps will help a machine cut metal faster and with more consistency.

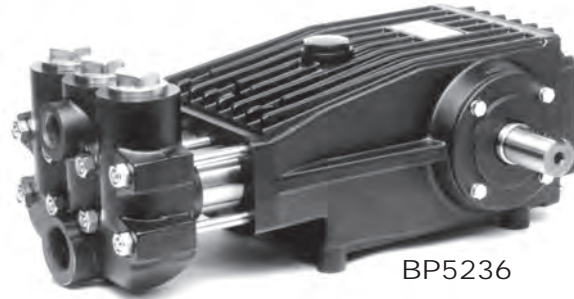


P420CR-0020

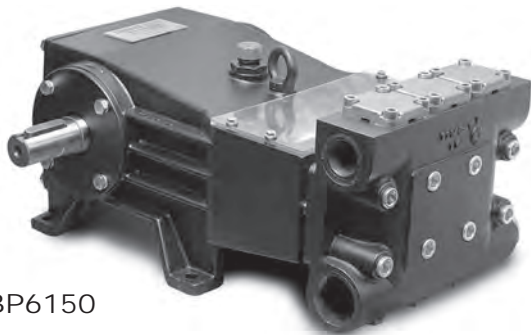
| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Price |
|--------------------|-------------|------------|-------|----------------|------------------|------------|
| | GPM (LPM) | PSI (Bar) | RPM | | | |
| <i>P423CR-0020</i> | 8.2 (31.1) | 2900 (200) | 1450 | 16.4 (12.2) | 0.87 (22) | \$3,060.00 |
| <i>P420CR-0020</i> | 12.8 (48.4) | 2175 (150) | 1450 | 19.2 (14.3) | 0.98 (25) | \$3,060.00 |



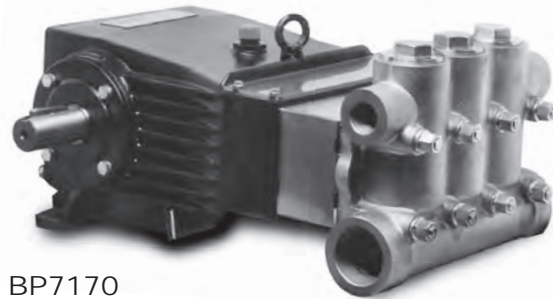
BP100



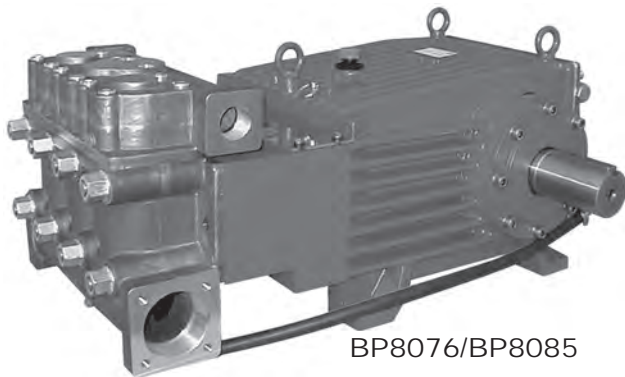
BP5236



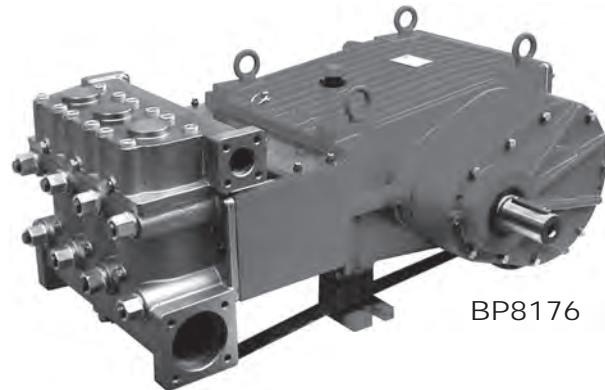
BP6150



BP7170



BP8076/BP8085

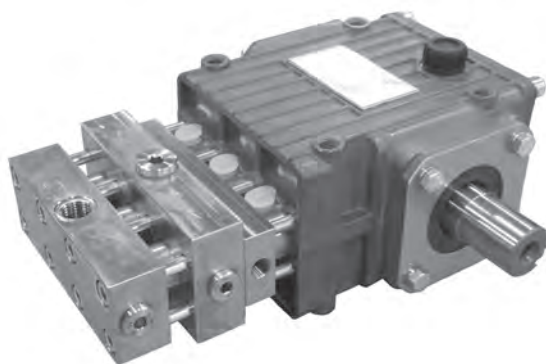


BP8176

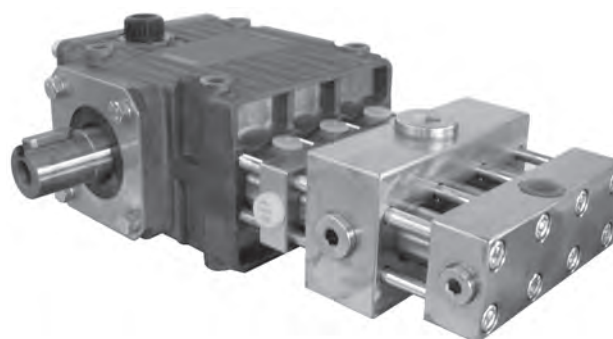
| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Price |
|---------------|-------------|------------|-------|----------------|------------------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | |
| <i>BP100</i> | 5.9 (22.5) | 1885 (130) | 750 | 8.0 (6.0) | 1.02 (26) | \$3,640.00 |
| <i>BP5236</i> | 18.5 (70.0) | 1450 (100) | 570 | 18.5 (13.8) | 1.42 (36) | \$10,325.00 |
| <i>BP6150</i> | 42.3 (160) | 1500 (100) | 600 | 43.8 (32.7) | 1.97 (50) | \$20,105.00 |
| <i>BP7170</i> | 84.5 (320) | 1015 (70) | 560 | 59.2 (44.2) | 2.76 (70) | \$30,445.00 |
| <i>BP7171</i> | 105.7 (400) | 1015 (70) | 700 | 74.0 (55.2) | 2.76 (70) | \$36,325.00 |
| <i>BP8076</i> | 132 (500) | 1500 (100) | 520 | 129 (96) | 2.99 (76) | \$50,715.00 |
| <i>BP8176</i> | 132 (500) | 1500 (100) | 520 | 129 (96) | 2.99 (76) | \$55,270.00 |
| <i>BP8085</i> | 171.7 (650) | 1160 (80) | 530 | 134 (100) | 3.3 (85) | \$53,100.00 |

Pentane Pumps

High pressure pumps that are used for pumping media such as isocyanate, Freon, pentane, polyol and catalysts used in the manufacturing of polyurethane products (including insulating materials, automobile components, plastic panels, etc.).



P201-4100 Series



P202-4100 Series
P204-4100 Series

| Model | Flow | Pressure | Speed | Power Required | Plunger Diameter | Price |
|-----------|------------|------------|-------|----------------|------------------|-------------|
| | GPM (LPM) | PSI (Bar) | RPM | HP (kW) | in (mm) | |
| P201-4120 | 0.4 (1.5) | 3200 (220) | 1450 | 0.94 (0.7) | 0.47 (12) | \$14,455.00 |
| P201-4121 | 0.4 (1.5) | 3200 (220) | 1450 | 0.94 (0.7) | 0.47 (12) | \$14,455.00 |
| P201-4123 | 0.4 (1.5) | 3200 (220) | 1450 | 0.94 (0.7) | 0.47 (12) | \$14,455.00 |
| P201-4127 | 0.4 (1.5) | 3200 (220) | 1450 | 0.94 (0.7) | 0.47 (12) | \$18,745.00 |
| P202-4120 | 1.27 (4.8) | 3200 (220) | 1450 | 2.8 (2.1) | 0.47 (12) | \$14,455.00 |
| P202-4121 | 1.27 (4.8) | 3200 (220) | 1450 | 2.8 (2.1) | 0.47 (12) | \$14,455.00 |
| P204-4120 | 1.8 (6.8) | 3200 (220) | 1450 | 4.0 (3.0) | 0.47 (12) | \$14,455.00 |
| P204-4121 | 1.8 (6.8) | 3200 (220) | 1450 | 4.0 (3.0) | 0.47 (12) | \$14,455.00 |

Optional Materials of O-Rings

- 4120 = Nitrile O-Rings
- 4121 = Viton O-Rings
- 4123 = EPDM O-Rings
- 4127 = Isolast O-Rings



Safe

4:1 Burst pressure - 20,000 PSI

Maintainable

Easy to repair - 5 minutes

Value

Competitively
Priced

Durability

Housing withstands the
toughest abuse

Custom

Made

Private labeling
available

MADE IN THE USA

**Made in
the U.S.A.**

Guarantee

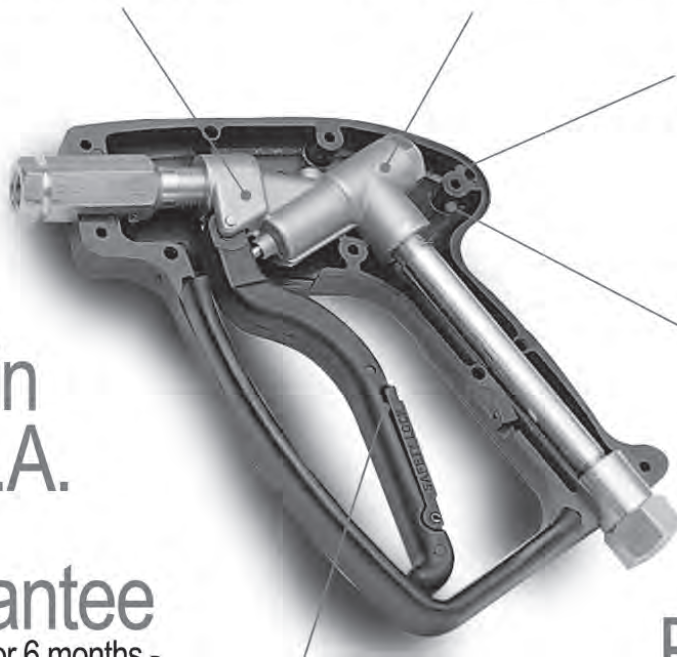
Guaranteed for 6 months -
2 times the competition

Versatile

Weep (blue trigger) or
non-weep (black trigger)

Reliable

Hundreds of thousands of cycles



Common Specifications

| | U.S. | (Metric) |
|-----------------------------|---------------|-----------|
| Flow | 10 GPM..... | (38 LPM) |
| Pressure | 5000 PSI..... | (350bar) |
| Pressure (21280B only)..... | 1500 PSI..... | (100bar) |
| Temp..... | 300 °F..... | (150 °C) |
| Temp (21280B only) | 250 °F..... | (121 °C) |
| Inlet Fitting..... | | 3/8" NPT |
| Discharge Fitting..... | | 1/4" NPT |
| Weight | 1.8 lbs..... | (0.82 kg) |

Shut-Off Guns

| Model | Weep | Discharge Fitting | Inlet Size | Discharge Size | Special Features | Order Qty | List Price |
|----------------|------|-------------------|------------|----------------|-----------------------|-----------|------------|
| 21250B | N | Stainless Steel | 3/8" FNPT | 1/4" FNPT | Heavy Duty Housing | 20 | \$66.05 |
| 21250B-08-08SS | N | Stainless Steel | | | SS Inlet | 20 | \$97.30 |
| 21250-4000 | N | Stainless Steel | | | SS Inlet Fitting/Tube | 20 | \$97.30 |
| 21250B-4000-CR | N | Stainless Steel | 3/8" FNPT | 1/4" FNPT | Ceramic Ball | 20 | \$104.05 |
| 21255B | Y | Stainless Steel | 3/8" FNPT | 1/4" FNPT | Heavy Duty Housing | 20 | \$66.05 |
| 21255B-001 | Y | Stainless Steel | | | Viton O-Rings | 20 | \$75.55 |
| 21255-4000 | Y | Stainless Steel | | | SS Inlet Fitting/Tube | 20 | \$97.30 |
| 21260A | N | None | 3/8" FNPT | 1/4" FNPT | | 20 | \$46.30 |
| 21265A | Y | None | 3/8" FNPT | 1/4" FNPT | | 20 | \$46.30 |
| 21280B | N | Stainless Steel | 3/8" FNPT | 1/4" FNPT | Plastic Ball | 20 | \$66.25 |
| 21290C | N | Plated Steel | 3/8" FNPT | 1/4" FNPT | | 20 | \$52.30 |
| 21290C-001 | N | Plated Steel | 3/8" FNPT | 1/4" FNPT | Viton O-Rings | 20 | \$61.85 |
| 21290CB | N | Brass | 3/8" FNPT | 1/4" FNPT | Brass Inlet | 20 | \$58.55 |
| 21290CC | N | Plated Steel | 3/8" FNPT | 1/4" FNPT | Blue Housing | 20 | \$55.10 |
| 21290C-CR | N | Plated Steel | 3/8" FNPT | 1/4" FNPT | Ceramic Ball | 20 | \$59.15 |
| 21295C | Y | Plated Steel | 3/8" FNPT | 1/4" FNPT | | 20 | \$52.30 |
| 21295C-001 | Y | Plated Steel | | | Viton O-Rings | 20 | \$61.85 |
| 21295CB | Y | Plated Steel | 3/8" FNPT | 1/4" FNPT | | 20 | \$58.55 |
| 21295CC | Y | Plated Steel | 3/8" FNPT | 1/4" FNPT | Blue Housing | 20 | \$55.10 |
| 21295CX | Y | Plated Steel | 3/8" FNPT | 1/4" FNPT | XL Weep | 20 | \$52.30 |
| 21490 | N | Brass | 3/8" FNPT | 1/4" FNPT | Heavy Duty Housing | 20 | \$54.35 |
| 21495 | Y | Brass | 3/8" FNPT | 1/4" FNPT | Heavy Duty Housing | 20 | \$54.35 |
| 21495CB | Y | Brass | 3/8" FNPT | 1/4" FNPT | Heavy Duty Housing | 20 | \$60.55 |

Linear and Special Shut-off Guns



21380



21381



21382

Linear Guns

| Model | Flow | Pressure | Inlet Size | Discharge Size | Special Features | List Price |
|---------------|--------|----------|------------|----------------|--------------------------|------------|
| 21380 | 10 GPM | 4500 PSI | 3/8" FNPT | 1/4" FNPT | | \$90.00 |
| 21380SS | 10 GPM | 4500 PSI | 3/8" FNPT | 1/4" FNPT | Stainless Steel Fittings | \$105.00 |
| 21380-08-08SS | 10 GPM | 4500 PSI | 1/2" FNPT | 1/2" FNPT | Stainless Steel Fittings | \$130.00 |
| 21380-12-12SS | 10 GPM | 4500 PSI | 3/4" FNPT | 3/4" FNPT | Stainless Steel Fittings | \$145.00 |
| 21382 | 27 GPM | 2800 PSI | 1/2" FNPT | 1/2" FNPT | | \$300.00 |
| 21381 | 32 GPM | 4500 PSI | 1/2" FNPT | 1/2" FNPT | | \$475.00 |



21650



21790



21795



21480



21650

Heavy Duty Shut-Off Guns

| Model | Flow | Pressure | Inlet Size | Discharge Size | Special Features | List Price |
|------------|----------|------------|------------|----------------|----------------------|------------|
| 21475 | 7.4 GPM | 7250 PSI | 3/8" FNPT | 1/4" FNPT | | \$415.00 |
| 21460 | 10.5 GPM | 15,000 PSI | 3/8" FNPT | 3/8" FNPT | | \$975.00 |
| 21480 | 15.8 GPM | 8700 PSI | 3/8" FBSP | 1/4" FBSP | | \$745.00 |
| 21480-E | 15.9 GPM | 8700 PSI | 3/8" FBSP | 1/4" FBSP | w/microswitch | \$745.00 |
| 21650 | 21 GPM | 7250 PSI | 1/2" FNPT | 1/2" FNPT | | \$515.00 |
| 21650-16 | 21 GPM | 7250 PSI | 1/2" FNPT | 1/2" FNPT | w/16" lance and grip | \$720.00 |
| 21650-32 | 21 GPM | 7250 PSI | 1/2" FNPT | 1/2" FNPT | w/32" lance and grip | \$810.00 |
| 21650-50 | 21 GPM | 7250 PSI | 1/2" FNPT | 1/2" FNPT | w/50" lance and grip | \$1,045.00 |
| 21390-4000 | 10 GPM | 5200 PSI | 3/8" FNPT | 1/2" FNPT | | \$430.00 |
| 21790 | 31.7 GPM | 1740 PSI | 1/2" FBSP | 1/2" FBSP | | \$250.00 |
| 21790-16 | 31.7 GPM | 1740 PSI | 1/2" FBSP | 1/2" FBSP | w/16" lance and grip | \$335.00 |
| 21790-32 | 31.7 GPM | 1740 PSI | 1/2" FBSP | 1/2" FBSP | w/32" lance and grip | \$360.00 |
| 21795 | 52.8 GPM | 2900 PSI | 3/4" FBSP | 1/2" FBSP | | \$480.00 |



Long Range w/lance and nozzle

| Model | Flow | Pressure | Inlet Size | List Price |
|-----------|--------|----------|------------|------------|
| 21915A-XX | 10 GPM | 3650 PSI | 3/8" BSP | \$340.00 |
| 21910-XX | 21 GPM | 1850 PSI | 1/2" BSP | \$555.00 |
| 21920-XX | 32 GPM | 1740 PSI | 1/2" BSP | \$565.00 |



Gun Assemblies

| Model | Flow | Pressure | Inlet Size | List Price |
|-----------------|----------|------------|------------|------------|
| 21460-06G-04-25 | 10.5 GPM | 15,000 PSI | 1/4" FNPT | \$2,105.00 |



Dump Guns

| Model | Flow | Pressure | Inlet Size | List Price |
|-------|--------|------------|------------|------------|
| 27510 | 15 GPM | 15,000 PSI | 1/2" MNPT | \$3,423.25 |
| 21470 | 10 GPM | 40,000 PSI | 9/16" HP | \$2,500.70 |

Straight, Stainless Steel Lances



| Model Number | Size Inches | Pressure PSI (bar) | Thread Size Inches (MNPT) | Weight lbs. | Order Quantity | List Price U.S \$ |
|--------------|-------------|--------------------|---------------------------|-------------|----------------|-------------------|
| 21732 | 6 | 7250 (500) | 1/4" | 0.20 | 10 | \$7.10 |
| 21732-08 | 6 | 7250 (500) | 1/2" | 0.4 | 10 | \$7.10 |
| 21784 | 8 | 7250 (500) | 1/4" | 0.26 | 10 | \$9.65 |
| 21733 | 12 | 7250 (500) | 1/4" | 0.41 | 10 | \$12.20 |
| 21733-08 | 12 | 7250 (500) | 1/2" | 0.8 | 10 | \$18.20 |
| 21734 | 15.5 | 7250 (500) | 1/4" | 0.53 | 10 | \$15.20 |
| 21734-08 | 15.5 | 7250 (500) | 1/2" | 1.0 | 10 | \$44.75 |
| 21782 | 17 | 7250 (500) | 1/4" | 0.55 | 10 | \$16.55 |
| 21783 | 19 | 7250 (500) | 1/4" | 0.65 | 10 | \$18.15 |
| 21735 | 24 | 7250 (500) | 1/4" | 0.82 | 10 | \$22.50 |
| 21735-08 | 24 | 7250 (500) | 1/2" | 1.6 | 10 | \$38.35 |
| 21736 | 36 | 7250 (500) | 1/4" | 1.23 | 10 | \$32.75 |
| 21736-06 | 36 | 7250 (500) | 3/8" | 1.70 | 10 | \$56.45 |
| 21736-08 | 36 | 7250 (500) | 1/2" | 2.4 | 10 | \$101.50 |
| 21737 | 48 | 7250 (500) | 1/4" | 1.64 | 10 | \$43.00 |
| 21737-06 | 48 | 7250 (500) | 3/8" | 2.27 | 10 | \$74.60 |
| 21737-08 | 48 | 7250 (500) | 1/2" | 3.2 | 10 | \$134.65 |
| 21738 | 60 | 7250 (500) | 1/4" | 2.05 | 10 | \$53.25 |
| 21738-06 | 60 | 7250 (500) | 3/8" | 2.84 | 10 | \$92.85 |
| 21738-08 | 60 | 7250 (500) | 1/2" | 4.0 | 10 | \$167.85 |
| 21739 | 72 | 7250 (500) | 1/4" | 2.46 | 10 | \$63.50 |
| 21739-06 | 72 | 7250 (500) | 3/8" | 3.41 | 10 | \$111.00 |
| 21739-08 | 72 | 7250 (500) | 1/2" | 4.8 | 10 | \$201.00 |
| 21741* | 84 | 7250 (500) | 1/4" | 2.87 | 10 | \$79.65 |
| 21741-08* | 84 | 7250 (500) | 1/2" | 5.6 | 10 | \$234.15 |
| 21754* | 96 | 7250 (500) | 1/4" | 3.28 | 10 | \$89.90 |
| 21781* | 120 | 7250 (500) | 1/4" | 4.10 | 10 | \$110.40 |
| 21781-08* | 120 | 7250 (500) | 1/2" | 10.5 | 10 | \$182.05 |

*These models are 2 piece lances

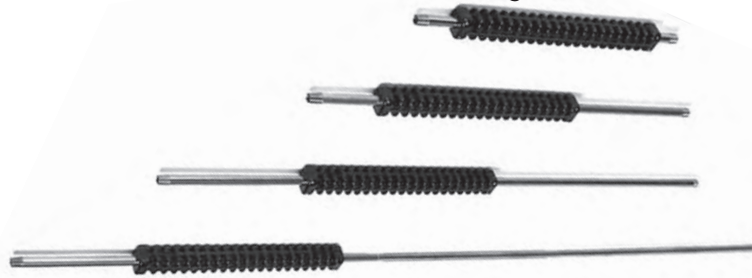
| | | | | | | |
|--------------|-----|---------------|------|----|--|------------|
| 21719-06-15K | 60" | 15,000 (1000) | 3/8" | 12 | | \$1,184.80 |
|--------------|-----|---------------|------|----|--|------------|

All Giant Single Tube Lances can be cut to custom lengths. Please contact Giant Industries for custom pricing.

Lances



Straight, Stainless Steel with 12" Adj. Handle



| Model Number | Size Inches | Pressure PSI (bar) | Thread Size Inches (MNPT) | Weight lbs. | Order Quantity | List Price U.S \$ |
|---------------------|-------------|--------------------|---------------------------|-------------|----------------|-------------------|
| 21742 | 15.5" | 7250 (500) | 1/4" | 0.83 | 10 | \$20.20 |
| 21743 | 24" | 7250 (500) | 1/4" | 1.12 | 10 | \$27.50 |
| 21744 | 36" | 7250 (500) | 1/4" | 1.53 | 10 | \$37.75 |
| 21745 | 48" | 7250 (500) | 1/4" | 1.94 | 10 | \$47.95 |
| 21746 | 60" | 7250 (500) | 1/4" | 2.35 | 10 | \$58.25 |
| 21747 | 72" | 7250 (500) | 1/4" | 2.76 | 10 | \$68.50 |
| 21749* | 84" | 7250 (500) | 3/8" | 3.17 | 10 | \$84.60 |
| 21759* | 96" | 7250 (500) | 1/4" | 4.08 | 10 | \$94.85 |
| 21759-2G (2 grips)* | 96" | 7250 (500) | 3/8" | 4.11 | 10 | \$99.90 |

*These lances come in 2 pieces

Lance Grips



| Model | Size | Weight (lbs) | Order Quantity | List Price |
|-----------------|------|--------------|----------------|------------|
| 21701A | 12" | 0.3 | 5 | \$8.45 |
| 21704 side grip | 1/4" | 0.45 | 5 | \$38.25 |
| 21705 side grip | 1/2" | 0.4 | 5 | \$29.40 |



21704

21701A

Bent, Single Tube Lance, 30°



| Model | Size | Weight (lbs) | Version | List Price |
|----------|-------|--------------|--------------------------------|------------|
| 03327 | 12" | 0.40 | Standard | \$12.20 |
| 21762B | 35.5" | 1.25 | Standard | \$46.50 |
| 21762B-1 | 35.5" | 1.70 | Side Grip | \$100.30 |
| 21762B-2 | 35.5" | 1.30 | Quick Disconnect | \$62.00 |
| 21762B-3 | 35.5" | 1.75 | Quick Disconnect and Side Grip | \$115.80 |
| 21736-B | 36" | 2.4 | Standard | \$32.75 |

Bent, Double Tube Lance, 30°



| Model | Size | Weight (lbs) | Notes | List Price |
|----------|-------|--------------|----------------------|------------|
| 21780A-S | 35.3" | 2.8 | Stainless Steel Seat | \$160.00 |

0° Rotating Nozzles

GIANT



Standard Rotating Nozzles

27530 Series

List Price \$90.00*

| | U.S. | (Metric) |
|-----------------------|----------|-----------|
| Maximum Pressure..... | 3000 PSI | (200 bar) |
| Maximum Flow | 3.9 GPM | (33 LPM) |
| Max Temperature..... | 195 °F | (95 °C) |
| Bearing | | Plastic |
| Nozzle..... | | Ceramic |
| Nozzle Sizes..... | | 025-045 |
| Spray Angle | | 20° |
| Inlet..... | | 1/4" BSP |
| Weight | 0.4 lbs. | (0.20 kg) |
| Kit Series | | 09790-XX |

XX = nozzle/kit size (2.0, 3.0, 3.5, 4.0, 4.5)

*Sold in lots of 100 pieces or more



27530

23800 Series

List Price \$100.00

23800C Series (with cover)

List Price \$100.00

| | U.S. | (Metric) |
|-----------------------|----------|-----------|
| Maximum Pressure..... | 3700 PSI | (255 bar) |
| Maximum Flow | 8.7 GPM | (33 LPM) |
| Max Temperature..... | 195 °F | (95 °C) |
| Bearing | | Ceramic |
| Nozzle..... | | Ceramic |
| Nozzle Sizes..... | | 020-090 |
| Spray Angle | | 20° |
| Inlet..... | | 1/4" BSP |
| Weight | 0.7 lbs. | (318 g) |
| Kit Series | | 09511-XX |

XX = nozzle/kit size (2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 9.0, 10.0, 12.0)



23800

23810 Series

List Price \$80.00*

23810C Series (with cover)

List Price \$85.00*

| | U.S. | (Metric) |
|-----------------------|----------|-----------|
| Maximum Pressure..... | 3700 PSI | (255 bar) |
| Maximum Flow | 11 GPM | (42 LPM) |
| Max Temperature..... | 195 °F | (90 °C) |
| Bearing | | Ceramic |
| Nozzle..... | | Ceramic |
| Nozzle Sizes..... | | 020-200 |
| Spray Angle | | 20° |
| Inlet..... | | 1/4" BSP |
| Weight | 0.7 lbs. | (318 g) |
| Kit Series | | 09730-XX |

XX = nozzle/kit size (3.0 and 6.0)

*Sold in lots of 50 pieces or more *Contact Giant for color options



23810

22040B Series

List Price \$110.00

22040B-XX-QDP Assemblies

List Price \$135.00

| | U.S. | (Metric) |
|-----------------------|----------|-----------|
| Maximum Pressure..... | 3700 PSI | (255 bar) |
| Maximum Flow | 12 GPM | (45 LPM) |
| Max Temperature..... | 195 °F | (95 °C) |
| Bearing | | Ceramic |
| Nozzle..... | | Ceramic |
| Nozzle Sizes..... | | 020-200 |
| Spray Angle | | 20° |
| Inlet..... | | 1/4" BSP |
| Weight | 0.7 lbs. | (0.32 kg) |
| Kit Series | | 09440A-XX |

XX = nozzle/kit size (2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0, 15.0, 18.0, 20.0)



22040B

0° Rotating Nozzles

GIANT



Standard Rotating Nozzles

24036 Series

List Price \$195.00

| | U.S. | (Metric) |
|-----------------------|----------|-----------|
| Maximum Pressure..... | 3200 PSI | (220 bar) |
| Maximum Flow | 6.1 GPM | (25 LPM) |
| Max Temperature..... | 212 °F | (100 °C) |
| Bearing | | Ceramic |
| Nozzle..... | | Ceramic |
| Nozzle Sizes..... | | 020-055 |
| Spray Angle | | 30° |
| Inlet..... | | 1/4" BSP |
| Weight | 1.1 lbs. | (0.49 kg) |
| Kit: (see below)..... | | 09795-XX |

*XX = nozzle/kit size (2.0, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5)



24036

22800 Series

List Price \$300.00

| | U.S. | (Metric) |
|-----------------------|----------|-----------|
| Maximum Pressure..... | 3700 PSI | (255 bar) |
| Maximum Flow | 5.3 GPM | (20 LPM) |
| Max Temp | 195 °F | (90 °C) |
| Bearing | | Ceramic |
| Nozzle..... | | Ceramic |
| Nozzle Sizes..... | | 020-055 |
| Spray Angle | | 40° |
| Inlet..... | | 1/4" BSP |
| Kit Series | | 09800-XX |

*XX = nozzle/kit size (2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.5, 6.0, 6.5, 7.0, 7.5)



22800

23900 Series

List Price \$145.00

| | U.S. | (Metric) |
|-----------------------|----------|------------|
| Maximum Pressure..... | 4500 PSI | (310 bar) |
| Maximum Flow | 6.3 GPM | (24 LPM) |
| Max Temperature..... | 195 °F | (90 °C) |
| Bearing | | Ceramic |
| Nozzle..... | | Ceramic |
| Nozzle Sizes..... | | 020-100 |
| Spray Angle | | 20° |
| Inlet..... | | 1/4" BSP |
| Weight | 1.0 lbs. | (450 g) |
| Kit Series | | 09615-XXX* |

XXX = nozzle/kit size (3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0)



23900

22060A Series

List Price \$175.00 (Sizes 2.0-12.0)

\$210.00 (Sizes 15,18,20)

22060A-XX-08 Series

List Price \$220.00/\$260.00 (15-20)

22060A-XX-F-QDP Assemblies

List Price \$230.00

22060A-XX-F-QDP (15, 18, 20)

List Price \$315.00

| | U.S. | (Metric) |
|-----------------------|----------|------------|
| Maximum Pressure..... | 6000 PSI | (400 bar) |
| Maximum Flow | 18.7 GPM | (83 LPM) |
| Max Temperature..... | 195 °F | (90 °C) |
| Bearing | | Ceramic |
| Nozzle..... | | Ceramic |
| Nozzle Sizes..... | | 020-200 |
| Spray Angle | | 20° |
| Inlet (22060A)..... | | 1/4" BSP |
| Weight | 1.3 lbs. | (590 g) |
| Kit (see below)..... | | 09240A-XX* |

*XX = nozzle/kit size (2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 9.0, 10.0, 11.0, 12.0, 15.0, 18.0, 20.0)



22060A



22060A-XX-F-QDP

0° Rotating Nozzles

GIANT



Standard Rotating Nozzles

22400 Series

List Price \$1,170.00

| | U.S. | (Metric) |
|-----------------------|----------|------------|
| Maximum Pressure..... | 7250 PSI | (500 bar) |
| Maximum Flow | 16.2 GPM | (61 LPM) |
| Max Temp | 195 °F | (90 °C) |
| Bearing | | Hard Metal |
| Nozzle..... | | Hard Metal |
| Nozzle Sizes..... | | 020-120 |
| Spray Angle | | 20° |
| Inlet..... | | 1/4" BSP |
| Weight | 2.0 lbs. | (950 g) |
| Kit (see below)..... | | 09485-XX |

XX = nozzle size (2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 9.0, 10.0, 11.0, 12.0)



22400

23750 Series

List Price \$2,520.00 (sizes 2.0 and 3.5)

List Price \$2,685.00 (sizes 3.0 and 4.0-7.0)

| | U.S. | (Metric) |
|-----------------------|------------|------------|
| Maximum Pressure..... | 10,150 PSI | (700 bar) |
| Maximum Flow | 16.2 GPM | (61 LPM) |
| Max Temperature..... | 195 °F | (90 °C) |
| Bearing | | Hard Metal |
| Nozzle..... | | Hard Metal |
| Nozzle Sizes..... | | 020-120 |
| Spray Angle | | 20° |
| Inlet..... | | 1/4" BSP |
| Weight | 2.0 lbs. | (950 g) |
| Kit (see below)..... | | 09555-XXX |

*XX = nozzle size (2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0)



23750

23850 Series

List Price \$4,150.00 (sizes 2.0-2.5)

List Price \$4075.00 (size 5.5)

List Price \$4,195.00 (sizes 3.0-6.5 except 5.5)

List Price \$4,555.00 (sizes 1.5, 1.8 and 7.0-12.0)

| | U.S. | (Metric) |
|-----------------------|------------|------------|
| Maximum Pressure..... | 15,000 PSI | (1000bar) |
| Maximum Flow | 22.8 GPM | (86 LPM) |
| Max Temperature..... | 195 °F | (90 °C) |
| Bearing | | Hard Metal |
| Nozzle..... | | Hard Metal |
| Nozzle Sizes..... | | 020-120 |
| Spray Angle | | 20° |
| Inlet..... | | 1/4" BSP |
| Weight | 3.75 lbs. | (1.70 kg) |
| Kit: (see below)..... | | 09545-XXX |

*XXX = nozzle/kit size (1.5, 1.8, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 9.0, 10.0, 11.0, 12.0)



23850

0° Rotating Nozzles

GIANT



Oscillating Nozzles

22000 Series

List Price \$175.00

| | U.S. | (Metric) |
|-----------------------|----------|-----------|
| Maximum Pressure..... | 3700 PSI | (255 bar) |
| Maximum Flow | 5.3 GPM | (20 LPM) |
| Max Temperature..... | 195 °F | (95 °C) |
| Bearing | | Ceramic |
| Nozzle..... | | Ceramic |
| Nozzle Sizes..... | | 020-055 |
| Spray Angle | | 26° |
| Inlet..... | | 1/4" BSP |
| Kit Series | | .09805-XX |

XX = nozzle/kit size (2.5, 3.0, 3.5, 4.5, 5.0, 5.5, 6.5)



22000

22700 Series

List Price \$150.00

| | U.S. | (Metric) |
|-----------------------|----------|-----------|
| Maximum Pressure..... | 3700 PSI | (255 bar) |
| Maximum Flow | 5.3 GPM | (20 LPM) |
| Max Temperature..... | 195 °F | (95 °C) |
| Bearing | | Ceramic |
| Nozzle..... | | Ceramic |
| Nozzle Sizes..... | | 020-055 |
| Spray Angle | | 24° |
| Inlet..... | | 1/4" BSP |
| Weight | 1.4 lbs. | (0.64 kg) |
| Kit | | .09470-XX |

XX = nozzle/kit size (2.0, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0)



22700
Brown cover

Hydroexcavating Nozzles

23000 Series Slow Rotating

List Price \$175.00+
\$210.00** \$260.00***

| | U.S. | (Metric) |
|-----------------------|----------|-----------|
| Maximum Pressure..... | 3600 PSI | (248 bar) |
| Maximum Flow | 22 GPM | (83 LPM) |
| Max Temperature..... | 195 °F | (90 °C) |
| Bearing | | Ceramic |
| Nozzle..... | | Ceramic |
| Nozzle Sizes..... | | 020-060 |
| Spray Angle | | 20° |
| Inlet..... | | 1/4" BSP |
| Weight | 1.4 lbs. | (0.64 g) |
| Kit Series | | .09620-XX |

XX = nozzle/kit size (2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0)

*Sizes 2.0-6.0 (except 2.5 which is \$245.00)

**Size 10.0

***Size 30.0



23000

Sewer Cleaning Nozzles

GIANT



23820-02-25 (-40 or -60) **List Price \$341.25**

23820-02-30 (-40 or -60) **List Price \$358.60**

23820-02-35 (-40 or -60) **List Price \$274.90**

| | U.S. | (Metric) |
|-----------------------------|-----------|------------|
| Maximum Pressure..... | 2175 PSI | (150 bar) |
| Maximum Flow (-40)..... | 2.9 GPM | (11.0 LPM) |
| Maximum Flow (-60)..... | 4.3 GPM | (16.4 LPM) |
| Max Temperature..... | 104 °F | (40 °C) |
| Bearing | Ceramic | |
| Nozzle..... | Ceramic | |
| Spray Angle (Forward)..... | 20° | |
| Spray Angle (Backward)..... | 20° | |
| Inlet..... | 1/8" FBSP | |

XX = nozzle/kit size (2.5, 3.0, 3.5, 3.8, 4.0, 6.9, 5.5, 9.5)



23820

23820-08 Series **List Price \$682.45**

23820-16 Series **List Price \$840.00**

| | U.S. | (Metric) |
|---------------------------------|----------|-----------|
| Maximum Pressure..... | 4350 PSI | (300 bar) |
| Maximum Flow (23820-08-69)..... | 18.2 GPM | (69 LPM) |
| Maximum Flow (23820-08-95)..... | 25.1 GPM | (95 LPM) |
| Maximum Flow (23820-08-69)..... | 18.2 GPM | (69 LPM) |
| Max Temperature..... | 195 °F | (90 °C) |
| Bearing | Ceramic | |
| Nozzle..... | Ceramic | |
| Spray Angle (Forward)..... | 24° | |
| Spray Angle (Backward)..... | 40° | |
| Inlet (-08)..... | 1/2" BSP | |
| Inlet (-16)..... | 1" BSP | |
| Weight (-08)..... | 0.7 lbs. | (300 g) |
| Weight (-16)..... | 1.8 lbs. | (800 g) |
| Kit Series (-08)..... | 09780-XX | |
| Kit Series (-16)..... | 09827-XX | |

XX = nozzle/kit size (2.5, 3.0, 3.5, 3.8, 4.0, 6.9, 5.5, 9.5)



23820-08



23820-16

Turbo Nozzle Filters



| Model Number | Description | Weight lbs. (kg) | List Price U. S. (\$) | Order Quantity |
|--------------|------------------------------------|------------------|-----------------------|----------------|
| 22175 | 1/4" NPT x 1/4" FNPT (50 mesh) | 0.16 (0.07) | \$21.00 | 10 |
| 22175-BSP | 1/4" NPT x 1/4" FBSP (50 mesh) | 0.16 (0.07) | \$21.00 | 10 |
| 22175-08 | 1/4" NPT x 1/2" FNPT (50 mesh) | 0.29 (0.13) | \$36.55 | 10 |
| 22175-4000 | 1/4" NPT x 1/4" FNPT (50 mesh, SS) | 0.40 (0.18) | \$28.50 | 10 |

Rated up to 5000 PSI



22175

Turbo Nozzle Holders

| Model Number | Description | Weight lbs. (kg) | List Price U. S. (\$) | Order Quantity |
|---------------|------------------------------|------------------|-----------------------|----------------|
| 05875 | 1/4" MNPT | 0.35 (0.16) | \$24.30 | 10 |
| 05875-04 | 2X1/4" MNPT | 0.35 (0.16) | \$24.30 | 10 |
| 05875-04-4000 | 2x1/4" MNPT, Stainless Steel | 0.34 (0.15) | \$41.35 | 10 |

Rated up to 5000 PSI / up to 30° angle

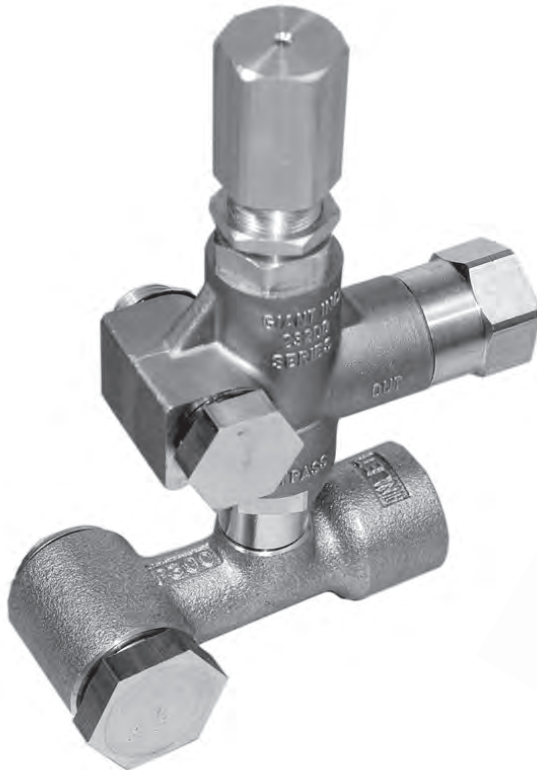


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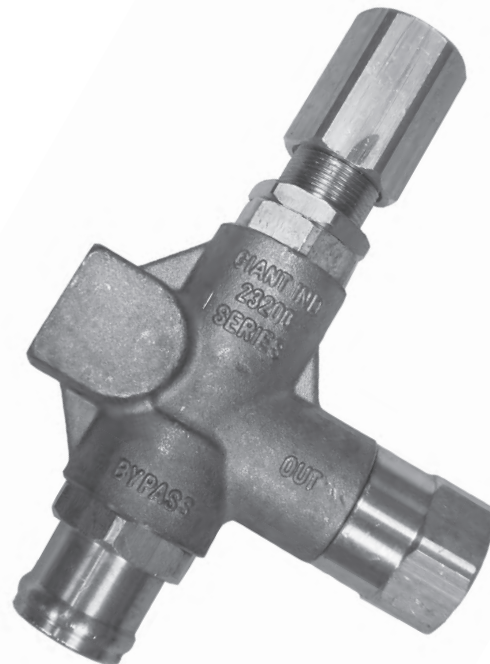
Pressure Actuated Unloaders



| Model Number | Flow GPM (LPM) | Pressure PSI (bar) | Temp °F (°C) | Discharge FNPT in. | Inlet FNPT in. | Bypass in. | Weight lbs. | Order Qty | List Price U.S \$ |
|--------------------------------------|----------------|--------------------|--------------|--------------------|----------------|------------|-------------|-----------|-------------------|
| 23275 | 6.6 (24) | 2000 (140) | 194 (90) | 3/8 | 1/2 | Internal | 2.0 | 2 | \$130.40 |
| 23285 | 6.6 (24) | 2000 (140) | 194 (90) | 3/8 | 1/2 | Internal | 2.0 | 2 | \$130.40 |
| 23295 | 6.6 (24) | 2000 (140) | 194 (90) | 3/8 | 3/8 | 3/8 FNPT | 1.8 | 10 | \$130.40 |
| 23270 | 6.6 (24) | 4000 (276) | 194 (90) | 3/8 | 1/2 | Internal | 2.0 | 2 | \$130.40 |
| 23270-01 | 6.6 (24) | 4000 (276) | 194 (90) | 3/8 | 1/2 | Internal | 2.0 | 2 | \$136.55 |
| 23280 | 6.6 (24) | 4000 (276) | 194 (90) | 3/8 | 1/2 | Internal | 2.0 | 2 | \$130.40 |
| 23280-01 | 6.6 (24) | 4000 (276) | 194 (90) | 3/8 | 1/2 | Internal | 2.0 | 2 | \$136.55 |
| 23290 | 6.6 (24) | 4000 (276) | 194 (90) | 3/8 | 3/8 | 3/8 FNPT | 1.8 | 10 | \$130.40 |
| 23290-01 | 6.6 (24) | 4000 (276) | 194 (90) | 3/8 | 3/8 | 3/8 FNPT | 1.8 | 10 | \$136.55 |
| 23270/23280 with fixed injector | | | | | | | | 2 | \$135.15 |
| 23270/23280 with adjustable injector | | | | | | | | 2 | \$137.35 |
| 23270H/23280H comes with Handwheel | | | | | | | | 2 | \$141.30 |
| 23290H comes with Handwheel | | | | | | | | 10 | \$136.55 |



23270/23280
23275/23285
(Banjo Mount)



23290/23295

Pressure Actuated Unloaders

| Model Number | Flow GPM (LPM) | Pressure PSI (bar) | Temp °F (°C) | Discharge FNPT in. | Inlet FNPT in. | Bypass in. | Weight lbs. | List Price U.S \$ |
|-------------------------|----------------|---------------------|--------------|--------------------|----------------|------------|-------------|-------------------|
| 22765A | 5 (19) | 4000 (275) | 160 (70) | 3/8 | 3/8 | 1/4 BSP | 2.1 | \$225.00 |
| 22765APM | 5 (19) | 4000 (275) | 160 (70) | 3/8 | 3/8 | 1/4 BSP | 2.1 | \$315.00 |
| 22760A | 8 (30) | 145-3050 (10-210) | 160 (70) | 3/8 | 3/8 | 1/4 BSP | 2.1 | \$160.00 |
| 22760L | 8 (30) | 600 (40) | 160 (70) | 3/8 | 3/8 | 1/4 BSP | 2.1 | \$160.00 |
| 22760APM | 8 (30) | 3000 (200) | 160 (70) | 3/8 | 3/8 | 1/4 BSP | 2.1 | \$185.00 |
| 22760A-SS | 8 (30) | 3000 (200) | 160 (70) | 3/8 | 3/8 | 1/4 BSP | 2.1 | \$180.00 |
| 22760-01 | 8 (30) | 145-3050 (10-210) | 195 (91) | 3/8 | 3/8 | 1/4 BSP | 2.1 | \$200.00 |
| 22760-03 | 8 (30) | 600 (40) | 160 (70) | 3/8 | 3/8 | 1/4 BSP | 2.1 | \$200.00 |
| 22240 | 10 (40) | 150-2000 (10-140) | 160 (70) | 3/8 | 1/2 FNPT | Internal | 1.4 | \$116.06 |
| 25150 | 10.5 (40) | 4100 (280) | 195 (90) | 3/8* | 3/8* | 3/8 | 1.5 | \$100.00 |
| 22085 | 10.5 (40) | 5100/5655 (350/390) | 140 (60) | 3/8 | 3/8 MNPT | 1/2 BSP | 10.8 | \$285.00 |
| 22910A ^{1,2} | 13.2 (50) | 800 (55) | 160 (70) | 1/2 | 1/2 | 1/2 BSP | 2.8 | \$265.00 |
| 22911A ^{1,2} | 13.2 (50) | 1450 (100) | 160 (70) | 1/2 | 1/2 | 1/2 BSP | 2.8 | \$265.00 |
| 22912A ^{1,2,6} | 13.2 (50) | 2000 (140) | 160 (70) | 1/2 | 1/2 | 1/2 BSP | 2.8 | \$265.00 |
| 22913A ^{1,2} | 13.2 (50) | 3000 (200) | 160 (70) | 1/2 | 1/2 | 1/2 BSP | 2.8 | \$265.00 |
| 22230 | 15.9 (60) | 11600 (800) | 195 (90) | 1/2 | 1/2 | 1/2 BSP | 5.5 | \$1,465.00 |
| 22950(H) | 16 (61) | 5800 (400) | 160 (71) | 1 FNPT | 1 FNPT | 1 | 17.5 | \$2,385.00 |
| 22083 ³ | 21 (80) | 2200 (150) | 195 (90) | 1/2 | 1/2 | 1/2 | 6.7 | \$240.00 |
| 22082 ³ | 21 (80) | 4100 (280) | 195 (90) | 1/2 | 1/2 | 1/2 | 6.7 | \$240.00 |
| 22082-SS ³ | 21 (80) | 4100 (280) | 195 (90) | 1/2 | 1/2 | 1/2 | 6.7 (3.0) | \$250.00 |
| 22083-SS ³ | 21 (80) | 2200 (150) | 195 (90) | 1/2 | 1/2 | 1/2 | 6.7 (3.0) | \$280.00 |
| 22210 | 21.1 (80) | 5800 (400) | 158 (70) | 1/2 | 1/2 | 1/2 | 2.2 | \$855.00 |
| 22215 | 21.1 (80) | 7250 (500) | 158 (70) | 1/2 | 1/2 | 1/2 | 2.2 | \$975.00 |
| 22980 | 26.4 (100) | 7250 (500) | 160 (71) | 1/2 BSP | 3/4 BSP | 1/2 BSP | 15.4 | \$1,935.00 |
| 22973C ^{5,7} | 26.4 (100) | 4060 (280) | 160 (71) | 3/4 | 3/4 | 3/4 BSP | 6.7 | \$650.00 |
| 22973CH | 26.4 (100) | 4060 (280) | 160 (71) | 3/4 | 3/4 | 3/4 BSP | 6.7 | \$750.00 |
| 22949(H) | 32 (121) | 3200 (221) | 160 (71) | 1 FNPT | 1 FNPT | 1 | 17.5 | \$2,385.00 |
| 22974C | 35.7 (135) | 580 (40) | 160 (71) | 3/4 | 3/4 | 3/4 BSP | 6.7 | \$650.00 |
| 22971C ⁵ | 35.7 (135) | 1740 (120) | 160 (71) | 3/4 | 3/4 | 3/4 BSP | 6.7 | \$650.00 |
| 22971CH | 35.7 (135) | 1740 (120) | 160 (71) | 3/4 | 3/4 | 3/4 BSP | 6.7 | \$750.00 |
| 22091 | 53 (200) | 1015 (70) | 195 (90) | 1 | 1 | 1 | 4.4 | \$630.00 |
| 22090 | 53 (200) | 2200 (152) | 195 (90) | 1 | 1 | 1 | 4.4 | \$690.00 |
| 22947(H) | 60 (227) | 1160 (80) | 160 (71) | 1 FNPT | 1 FNPT | 1 | 17.5 | \$2,385.00 |
| 22948(H) | 60 (227) | 1600 (110) | 160 (71) | 1 FNPT | 1 FNPT | 1 | 17.5 | \$2,385.00 |
| 22981 | 79.3 (300) | 2200 (150) | 190 (88) | 1 | 1 | 3/4 | 15.4 | \$1,935.00 |
| 22981-LF ⁴ | 79.3 (300) | 2200 (150) | 160 (71) | 1 BSP | 1 BSP | 3/4 BSP | 15.4 | \$2,480.00 |
| 22982A | 79.3 (300) | 3000 (200) | 190 (88) | 1 | 1 | 3/4 | 15.4 | \$1,935.00 |
| 22984 | 79.3 (300) | 3000 (200) | 160 (70) | 1 FBSP | 1 FBSP | 3/4 FBSP | 15.4 | \$1,935.00 |
| 22109 | 120 (450) | 4350 (300) | 140 (60) | 1-1/4 FNPT | 1-1/4 FNPT | 1-1/2 FNPT | 13.3 | \$2,460.00 |

¹ (H) with handwheel \$285.00

² (-01) with Viton seals \$290.00

³ 22083/22082 can be purchased with a Handwheel - Add an H to the part number and \$15.00 to the list price.

⁴ LF - Low Friction (better for lower pressure settings)

⁵ with Viton \$750.00

⁶ (-BSP) with BSP Threads \$265.00

⁷ (-BSP) with BSP Threads \$650.00

Pressure Actuated Unloaders

GIANT



22760 (APM)
22765 (APM)



25150/25151



22085



22910A = Silver Springs
22911A = Yellow Springs
22912A = Red Springs
22913A = Orange Springs



22230



22082/22083



22210



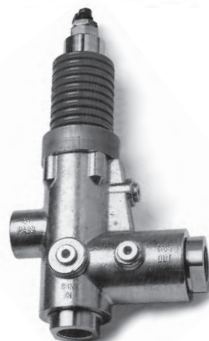
22971C
22973C
22974C



22985



22090/22091



22947 = Silver Springs
22948 = Yellow Springs
22949 = Red Springs
22950 = Orange Springs



22980/22981/22982A



22109

Pressure Actuated Unloaders



Stainless Steel Versions

| Model Number | Flow GPM (LPM) | Pressure PSI (bar) Rated/Permissible | Temp °F (°C) | Discharge FNPT in. | Inlet FNPT in. | Bypass in. | Weight lbs. | List Price U.S \$ |
|-------------------------|----------------|--------------------------------------|--------------|--------------------|----------------|------------|-------------|-------------------|
| 22097-4000 ^A | 21 (80) | 2175/2465(150/170) | 195 (90) | 1/2 | 1/2 | 1/2 | 2.9 (1.3) | \$940.00 |
| 22097-5000 ^B | 21 (80) | 2200/2450(150/170) | 195 (90) | 1/2 | 1/2 | 1/2 | 2.6 (1.2) | \$1,785.00 |
| 22095-4000 ^A | 21 (80) | 5800/6500(400/450) | 195 (90) | 1/2 | 1/2 | 1/2 | 2.9 (1.3) | \$940.00 |
| 22095-5000 ^B | 21 (80) | 4050/4520(283/310) | 195 (90) | 1/2 BSP | 1/2 BSP | 1/2 BSP | 2.6 (1.2) | \$1,785.00 |
| 22106-51 | 21 (80) | 4060/4500(280/310) | 195 (90) | 1/2 BSP | 1/2 BSP | 1/2 BSP | 6.7 (3.0) | \$1,445.00 |
| 22980-40 * | 26 (98) | 7250 (500) | 190 (88) | 1/2 NPT | 3/4 NPT | 1/2 NPT | 15.4 (7.0) | \$6,450.00 |
| 22973C-40 * | 26.4 (100) | 4060 (280) | 160 (71) | 3/4 BSP | 3/4 BSP | 3/4 BSP | 6.7 (3.0) | \$2,865.00 |
| 22973C-50 * | 26.4 (100) | 4060 (280) | 160 (71) | 3/4 BSP | 3/4 BSP | 3/4 BSP | 6.7 (3.0) | \$6,540.00 |
| 22971C-40 * | 35.7 (135) | 1740 (120) | 160 (71) | 3/4 BSP | 3/4 BSP | 3/4 BSP | 6.7 (3.0) | \$2,865.00 |
| 22971C-50 * | 35.7 (135) | 1740 (120) | 160 (71) | 3/4 BSP | 3/4 BSP | 3/4 BSP | 6.7 (3.0) | \$6,540.00 |
| 22981-40* | 79.3 (300) | 2200 (152) | 190 (88) | 1 | 1 | 3/4 | 15.4 (7.0) | \$6,305.00 |

A = 303 Stainless Steel B = 316 Stainless Steel

- * -SS = Stainless Steel
 -01 = Unloader with Viton Seals
 -40 = Unloader with 303 S.S.
 -41 = Unloader with 303 S.S. and Viton O-Rings/Seals
 -50 = Unloader with 316 S.S.
 -51 = Unloader with 316 S.S. and Viton O-Rings/Seals
 -53 = Unloader with 316 S.S. and EPDM O-Rings/Teflon Backup Ring



22106-51



22971C-40
 22971C-50
 22973C-40
 22973C-50



22095-4000
 22095-5000
 22097-4000
 22097-5000



22981-40

Pressure Actuated Unloaders

Pneumatic Versions

| Model Number | Flow GPM (LPM) | Pressure PSI (bar) | Temp °F (°C) | Discharge FNPT in. | Inlet FNPT in. | Bypass in. | Weight lbs. | List Price U.S \$ |
|--------------|----------------|--------------------|--------------|--------------------|----------------|------------|-------------|-------------------|
| 22980P | 26.4 (100) | 7250 (500) | 158 (70) | 1/2 | 3/4 | 1/2 | 22.0 (10) | \$3,740.00 |
| 22973CP | 35.7 (135) | 4060 (280) | 160 (71) | 3/4 | 3/4 | 3/4 BSP | 8.0 (3.6) | \$2,705.00 |
| 22971CP | 35.7 (135) | 1740 (120) | 160 (71) | 3/4 | 3/4 | 3/4 BSP | 8.0 (3.6) | \$2,705.00 |
| 22090P | 53 (200) | 2200 (150) | 195 (90) | 1 | 1 | 1 | 8.8 (4.0) | \$1,465.00 |
| 22981P | 79.3 (300) | 2200 (150) | 158 (70) | 1 | 1 | 3/4 | 22.0 (10) | \$3,740.00 |
| 22981LFP* | 79.3 (300) | 2200 (150) | 158 (70) | 1 BSP | 1 BSP | 3/4 BSP | 15.4 (7.0) | \$3,740.00 |
| 22982P | 79.3 (300) | 2600 (180) | 158 (70) | 1 | 1 | 3/4 | 15.4 (7.0) | \$3,740.00 |
| 22984P | 79.3 (300) | 3000 (200) | 160 (71) | 1 | 1 | 3/4 | 15.4 (7.0) | \$3,740.00 |
| 22860P | 106 (400) | 2320 (160) | 104 (40) | 1-1/4 | 1-1/4 | 1-1/4 | 17.6 (8) | \$3,640.00 |

* "LF" - Low Friction (better for lower pressure settings)



22980P/22981P/22982P



22973CP



22090P



22860P

Pressure Actuated Regulators

| Model Number | Flow GPM (LPM) | Pressure PSI (bar) | Temp °F (°C) | Inlet FNPT in. | Bypass in. | Weight lbs. | List Price U.S \$ |
|------------------------|----------------|--------------------|--------------|----------------|------------|-------------|-------------------|
| 22765AR | 5 (19) | 4000 (275) | 160 (71) | 3/8 | 1/4 BSP | 2.1 (0.95) | \$225.00 |
| 22107-51 | 5.3 (20) | 1813 (125) | 194 (90) | 1/4+ | 1/4+ | 7.6 (3.4) | \$285.00 |
| 22760AR | 8 (30) | 3045 (210) | 160 (71) | 3/8 | 1/4 | 2.1 (1.0) | \$160.00 |
| 22760LR | 8 (30) | 580 (40) | 160 (71) | 3/8 | 1/4 | 2.1 (1.0) | \$160.00 |
| 21906 | 10 (40) | 150 (10) | 160 (71) | 3/8 | 3/8 FNPT | 0.8 (0.4) | \$59.75 |
| 21906F | 10 (40) | 150 (10) | 160 (71) | 3/8 | 3/8 FNPT | 0.8 (0.4) | \$62.50 |
| 21908 | 10 (40) | 150 (10) | 160 (71) | 3/8 | 3/8 FNPT | 0.8 (0.4) | \$59.75 |
| 21905 | 10 (40) | 2000 (140) | 160 (71) | 3/8 | 3/8 FNPT | 0.8 (0.4) | \$59.75 |
| 21905F | 10 (40) | 2000 (140) | 160 (71) | 3/8 | 3/8 FNPT | 0.8 (0.4) | \$62.50 |
| 21907F | 10 (40) | 2000 (140) | 160 (71) | 1/4 | 1/4 FNPT | 0.8 (0.4) | \$62.50 |
| 25165 | 10.5 (40) | 1500 (100) | 194 (90) | 3/8** | 1/4** | 1.3 (0.6) | \$100.00 |
| 25160 | 10.5 (40) | 4100 (283) | 194 (90) | 3/8** | 1/4** | 1.3 (0.6) | \$100.00 |
| 22235 | 10.6 (40) | 4500 (310) | 195 (90) | 3/8 | 3/8 | 0.8 (0.4) | \$100.00 |
| 22910AR ¹ | 13 (49) | 800 (55) | 160 (71) | 1/2 | 1/2 | 2.8 (1.3) | \$265.00 |
| 22911AR ¹ | 13 (49) | 1400 (97) | 160 (71) | 1/2 | 1/2 | 2.8 (1.3) | \$265.00 |
| 22912AR ¹ | 13 (49) | 2400 (165) | 160 (71) | 1/2 | 1/2 | 2.8 (1.3) | \$265.00 |
| 22913AR ^{1,2} | 13 (49) | 3000 (207) | 160 (71) | 1/2 | 1/2 | 2.8 (1.3) | \$265.00 |
| 22950R | 16.0 (61) | 5800 (400) | 160 (71) | 1 | 1/2 FNPT | 17.5 (8.0) | \$2,385.00 |
| 22083R | 21.1 (80) | 2320 (160) | 140 (60) | 1/2 | 1/2 FNPT | 6.7 (3.0) | \$240.00 |
| 22082R | 21.1 (80) | 4060 (280) | 140 (60) | 1/2 | 1/2 FNPT | 6.7 (3.0) | \$240.00 |
| 22980R | 26 (98) | 8700 (600) | 160 (71) | 3/4+ | 1/2 | 15.4 (7.0) | \$1,935.00 |
| 22973CR ³ | 26.4 (100) | 4060 (280) | 160 (71) | 3/4 | 3/4 | 6.7 (3.0) | \$650.00 |
| 22949R ³ | 32 (120) | 3200 (220) | 160 (71) | 1 | 1 | 17.5 (8.0) | \$2,385.00 |
| 22974R | 35.7 (135) | 580 (40) | 160 (71) | 3/4 | 3/4 | 6.7 (3.0) | \$650.00 |
| 22971CR | 35.7 (135) | 1740 (120) | 160 (71) | 3/4 | 3/4 | 6.7 (3.0) | \$650.00 |
| 22090R | 53 (200) | 2200 (152) | 195 (90) | 1 | 1 FNPT | 4.6 (2.1) | \$690.00 |
| 22105 | 53 (200) | 2600 (180) | 194 (90) | 3/4 | 1/2 FNPT | 1.8 (0.8) | \$310.00 |
| 22948R ³ | 60 (227) | 1600 (110) | 160 (71) | 1 | 1 | 17.5 (8.0) | \$2,385.00 |
| 22191-A | 66 (250) | 1000 (70) | 140 (60) | 1** | 1** | 4.1 (1.9) | \$2,400.00 |
| 22191-B | 66 (250) | 1740 (120) | 140 (60) | 1** | 1** | 4.1 (1.9) | \$2,400.00 |
| 22191-C | 66 (250) | 3000 (200) | 140 (60) | 1** | 1** | 4.1 (1.9) | \$2,400.00 |
| 22191-D | 66 (250) | 4060 (280) | 140 (60) | 1** | 1 MBSP | 4.1 (1.9) | \$2,400.00 |
| 22981R ⁴ | 79.3 (300) | 2200 (152) | 190 (88) | 1+ | 3/4 | 15.4 (7.0) | \$1,935.00 |
| 22982R | 79.3 (300) | 3000 (200) | 190 (88) | 1+ | 3/4 | 15.4 (7.0) | \$1,935.00 |
| 22984R | 79.3 (300) | 3000 (200) | 160 (71) | 1** | 1** | 15.4 (7.0) | \$1,935.00 |
| 22109R | 120 (450) | 4800 (330) | 194 (90) | 1-1/4** | 1-1/2 | 13.3 (6.0) | \$2,460.00 |

** FBSP (not FNPT)

+ BSPP (not FNPT)

¹ (H) with handwheel \$285.00

² (-01) with Viton seals \$290.00

³ (H) with handwheel \$2,385.00

⁴ (H) with handwheel \$750.00

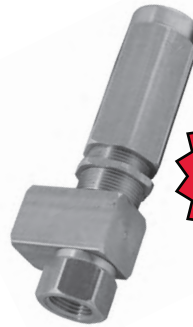
⁵ (-LF) Low Friction (better for lower pressures) \$2,480.00

Pressure Actuated Regulators

GIANT



22760AR/
22760LR



21905/
21906/
21908

Lot
Size
10



21905F/
21908F

Lot
Size
10



25165



22235



22910AR = Silver Springs
22911AR = Yellow Springs
22912AR = Red Springs
22913AR = Orange Springs



22950R



22980R-30



22973CR



22105



22191

Pressure Actuated Regulators

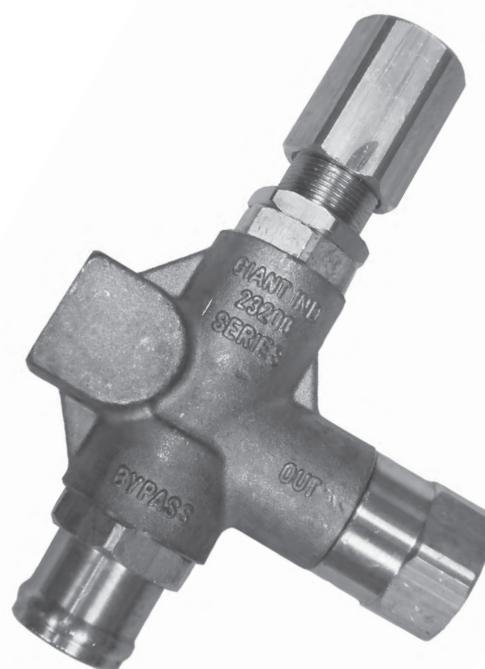
GIANT



| Model Number | Flow GPM (LPM) | Pressure PSI (bar) | Temp °F (°C) | Discharge FNPT in. | Inlet FNPT in. | Bypass in. | Weight lbs. | Order Qty | List Price U.S \$ |
|--------------|----------------|--------------------|--------------|--------------------|----------------|------------|-------------|-----------|-------------------|
| 23275R | 6.6 (24) | 2000 (140) | 194 (90) | 3/8 | 1/2 | Internal | 2.0 | 2 | \$130.40 |
| 23295R | 6.6 (24) | 2000 (140) | 194 (90) | 3/8 | 3/8 | 3/8 FNPT | 1.8 | 10 | \$130.40 |
| 23270R | 6.6 (24) | 4000 (276) | 194 (90) | 3/8 | 1/2 | Internal | 2.0 | 2 | \$130.40 |
| 23280R | 6.6 (24) | 4000 (276) | 194 (90) | 3/8 | 1/2 | Internal | 2.0 | 2 | \$130.40 |
| 23290R | 6.6 (24) | 4000 (276) | 194 (90) | 3/8 | 3/8 | 3/8 FNPT | 1.8 | 10 | \$130.40 |



23270/23280
23275/23285
(Banjo Mount)



23290/23295

Pressure Actuated Regulators

Stainless Steel Versions

| Model Number | Flow GPM (LPM) | Pressure PSI (bar) | Temp °F (°C) | Inlet FNPT in. | Bypass in. | Weight lbs. | List Price U.S \$ |
|--------------|----------------|--------------------|--------------|------------------|------------|-------------|-------------------|
| 22107-51 | 5.3 (20) | 1813 (125) | 194 (90) | 1/4 ⁺ | 1/4 | 7.6 (3.4) | \$285.00 |
| 22098-4000 | 21 (79) | 2200 (152) | 194 (90) | 1/2 | 1/2 FNPT | 2.8 (1.3) | \$940.00 |
| 22096-4000 | 21 (79) | 5800 (400) | 194 (90) | 1/2 | 1/2 FNPT | 2.8 (1.3) | \$940.00 |
| 22098-5000 | 21 (79) | 2200 (152) | 194 (90) | 1/2 | 1/2 FNPT | 2.8 (1.3) | \$1,785.00 |
| 22096-5000 | 21 (79) | 4000 (275) | 194 (90) | 1/2 | 1/2 FNPT | 2.8 (1.3) | \$1,785.00 |
| 22980R-40 | 26 (98) | 10,000 (690) | 190 (88) | 3/4 ⁺ | 1/2 | 15.4 (7.0) | \$6,450.00 |
| 22973CR-40 | 26.4 (100) | 4060 (280) | 160 (70) | 3/4 ⁺ | 3/4" BSP | 11.0 (5.0) | \$2,865.00 |
| 22973CR-50 | 26.4 (100) | 4060 (280) | 160 (70) | 3/4 ⁺ | 3/4" BSP | 11.0 (5.0) | \$6,540.00 |
| 22971CR-40 | 35.7 (135) | 1740 (120) | 160 (70) | 3/4 ⁺ | 3/4" BSP | 11.0 (5.0) | \$2,865.00 |
| 22971CR-50 | 35.7 (135) | 1740 (120) | 160 (70) | 3/4 ⁺ | 3/4" BSP | 11.0 (5.0) | \$6,540.00 |
| 22981R-40 | 79.3 (300) | 2200 (152) | 190 (88) | 1 | 3/4 | 15.4 (7.0) | \$6,305.00 |

*BSPP (not FNPT)

A = 303 Stainless Steel B = 316 Stainless Steel

- *
 -H = Handwheel
 -SS = Stainless Steel
 -01 = Unloader with Viton Seals
 -40 = Unloader with 303 S.S.
 -41 = Unloader with 303 S.S. and Viton O-Rings/Seals
 -50 = Unloader with 316 S.S.
 -51 = Unloader with 316 S.S. and Viton O-Rings/Seals
 -53 = Unloader with 316 S.S. and EPDM O-Rings/Teflon Backup Ring



22107-51



22098-4000/
 22096-4000/
 22098-5000/
 22096-5000



22971CR-40
 22971CR-50
 22973CR-40
 22973CR-50

Pressure Actuated Regulators



Pneumatic Versions

| Model Number | Flow GPM (LPM) | Pessure PSI (bar) | Temp °F (°C) | Discharge FBSP in. | Inlet FBSP in. | Bypass in. | List Price U.S \$ |
|--------------|----------------|-------------------|--------------|--------------------|----------------|------------|-------------------|
| 22980PR | 26.4 (100) | 7250 (500) | 150 (70) | 1/2 | 3/4 | 1/2 | \$3,740.00 |
| 22981PR | 79.3 (300) | 2200 (150) | 150 (70) | 1 | 1 | 3/4 | \$3,740.00 |
| 22982PR | 79.3 (300) | 3000 (180) | 150 (70) | 1 | 1 | 3/4 | \$3,740.00 |



Flow Actuated Unloaders

| Model Number | Flow GPM (LPM) | Pressure PSI (bar) | Temp °F (°C) | Inlet Fitting | Discharge Fitting | Weight lbs (kg) | List Price U.S \$ |
|--------------|------------------|---------------------|--------------|---------------|-------------------|-----------------|-------------------|
| 22648 | 1.5-4.0 (5.7-15) | 0-3000 (0-207) | 160 (70) | 3/4" FNPT | 3/4" FNPT | 2 (0.9) | \$217.35 |
| 22648A | 1.5-4.0 (5.7-15) | 0-3000 (0-207) | 160 (70) | 3/4" FNPT | 3/4" FNPT | 2 (0.9) | \$263.90 |
| 22650 | 3.0-4.5 (12-17) | 0-3000 (0-207) | 160 (70) | 3/4" FNPT | 3/4" FNPT | 2 (0.9) | \$217.35 |
| 22650A | 3.0-4.5 (12-17) | 0-3000 (0-207) | 160 (70) | 3/4" FNPT | 3/4" FNPT | 2 (0.9) | \$263.90 |
| 22655 | 3.0-5.5 (12-21) | 0-3000 (0-207) | 160 (70) | 3/4" FNPT | 3/4" FNPT | 2 (0.9) | \$217.35 |
| 22654A | 3.5-4.8 (13-18) | 3000-4000 (207-276) | 160 (70) | 3/4" FNPT | 3/4" FNPT | 2 (0.9) | \$263.90 |
| 22656 | 4.5-6.5 (17-25) | 0-3000 (0-207) | 160 (70) | 3/4" FNPT | 3/4" FNPT | 2 (0.9) | \$217.35 |
| 22647 | 5.5-6.5 (21-25) | 0-3000 (0-207) | 160 (70) | 3/4" FNPT | 3/4" FNPT | 2 (0.9) | \$217.35 |



22600 Series



Industrial Flow Actuated Unloaders

| Model Number | Flow GPM (LPM) | Pressure PSI (bar) | Temp °F (°C) | Inlet Fitting | Discharge Fitting | Bypass Fitting | Weight lbs. | List Price U.S \$ |
|--------------|----------------|--------------------|--------------|---------------|-------------------|----------------|-------------|-------------------|
| 22665 | 13 (49) | 7250 (500) | 140 (60) | 1/2 FNPT | 1/2 FNPT | 1/2 FNPT | 9 (4.1) | \$2,855.00 |
| 22675-M24 | 13 (49) | 15,000 (1034) | 140 (60) | M24 x 1.5 | M24 x 1.5 | 1/2 MNPT | 9.7 (4.4) | \$4,275.00 |
| 22675-F26 | 13 (49) | 15,000 (1034) | 140 (60) | F26 x 1.5 | F26 x 1.5 | 1/2 MNPT | 9.7 (4.4) | \$4,275.00 |
| 22675-08-08 | 13 (49) | 15,000 (1034) | 140 (60) | 1/2 MNPT | 1/2 MNPT | 1/2 MNPT | 9.7 (4.4) | \$4,275.00 |

22665



22675 Series



Accumulators



| Model Number | Body/Bladder Construction | Pressure (PSI) | Gas Volume | Inlet Fitting (MNPT) | Weight lbs. (kg) | Order Qty | List Price U.S \$ |
|--|---------------------------|----------------|----------------------|----------------------|------------------|-----------|-------------------|
| 22050 | 303 S.S./Buna-N | 3000 | 5.6 in ³ | 3/8" FNPT | 3.6 (1.4) | 1 | \$302.95 |
| 22050-5100 | 316 S.S./Buna-N | 3000 | 5.6 in ³ | 3/8" FNPT | 3.6 (1.4) | 1 | \$321.40 |
| 22050A | 316 S.S./Buna-N | 2700 | 6.75 in ³ | 1/2" | 5.2 (2.4) | 1 | \$286.70 |
| 22050A-0010 | 316 S.S./Viton | 2700 | 6.75 in ³ | 1/2" | 5.2 (2.4) | 1 | \$286.70 |
| 22050A-0033 | 316 S.S./Buna-N | 2700 | 6.75 in ³ | 1/2" | 5.2 (2.4) | 1 | \$216.40 |
| 22050A-5100 | 316 S.S./Buna-N | 2700 | 6.75 in ³ | 1/2" | 5.2 (2.4) | 1 | \$244.50 |
| 22155A | 316 S.S./Buna-N | 2700 | 9.1 in ³ | 3/4" | 4.6 (2.1) | 1 | \$293.40 |
| 22155A-5100 | 316 S.S./Buna-N | 2700 | 9.1 in ³ | 3/4" | 4.6 (2.1) | 1 | \$322.65 |
| 22155 | 303 S.S./Buna-N | 2700 | 9.1 in ³ | 3/4" FNPT | 4.6 (2.1) | 1 | \$297.75 |
| 22155-5100 | 303 S.S./Buna-N | 2700 | 9.1 in ³ | 3/8" FNPT | 4.6 (2.1) | 1 | \$453.05 |
| 22188 | Chrome-Moly Steel/Buna-N | 5000 | 1 qt | 3/4" FNPT | 9.5 (4.3) | 1 | \$1,662.75 |
| 22188-5100 | Stainless Steel/Buna-N | 5000 | 1 qt | 3/4" FNPT | 9.5 (4.3) | 1 | \$6,696.45 |
| 22189 | Chrome-Moly Steel/Buna-N | 3000 | 1 qt | 3/4" FNPT | 9.5 (4.3) | 1 | \$1,532.30 |
| 22189-5100 | Stainless Steel/Buna-N | 3000 | 1 qt | 3/4" FNPT | 9.5 (4.3) | 1 | \$3,630.00 |
| 22156 | Chrome-Moly Steel/Buna-N | 3000 | 214 in ³ | 1-1/4" FNPT | 32 (14.5) | 1 | \$3,015.75 |
| 22156-0100 | Marine Epoxy/SS/Buna-N | 3000 | 214 in ³ | 1-1/4" FNPT | 32 (14.5) | 1 | \$3,015.75 |
| 22156-7000 | Nickel-Plated/SS/Buna-N | 3000 | 214 in ³ | 1-1/4" FNPT | 32 (14.5) | 1 | \$3,015.75 |
| 22156-0103 | Marine Epoxy/SS/EPR | 3000 | 214 in ³ | 1" | 32 (14.5) | 1 | \$3,015.75 |
| 22152-0100 | Marine Epoxy/SS/Nitrile | 3000 | 1106 in ³ | 2" FNPT | 76 (34.5) | 1 | \$5,096.85 |
| 22149 | Forged Steel/Nitrile | 3000 | 32.8 in ³ | 3/4" FNPT | 33 (15.0) | 1 | \$3,363.50 |
| 22149-0100 | Marine Epoxy/SS/Buna-N | 3000 | 32.8 in ³ | 3/4" FNPT | 33 (15.0) | 1 | \$5,477.20 |
| 09842 - Accumulator Charging Kit, Complete (22149, 22152, 22156, 22188 and 22189) | | | | | | | \$656.40 |
| 09843 - Accumulator Charging Kit, without Hose assembly (22149, 22152, 22156, 22188 and 22189) | | | | | | | \$277.89 |
| 20001 - Accumulator Charging and Gauging Kit (22050 and 22155 Models) | | | | | | | \$614.00 |



22050



22155



22050A



22188/
22189

Pop-Off Valves/Relief Valves



| Model Number | Description | Pressure PSI (bar) | Order Qty | List Price U.S \$ |
|--------------|-------------------------------|--------------------|-----------|-------------------|
| 22530A | 3/8", Silver Spring (5) | 1200 (83) | 10 | \$15.80 |
| 22530A-5100 | 3/8", Yellow Spring, 316 S.S. | 1200 (83) | 10 | \$57.15 |
| 22550A | 1/4", Silver Spring (1) | 1200 (83) | 10 | \$15.80 |
| 22550A-5100 | 1/4", Yellow Spring, 316 S.S. | 1200 (83) | 10 | \$57.15 |
| 22531A | 3/8", Red Spring (6) | 2400 (165) | 10 | \$15.80 |
| 22531A-5100 | 3/8", Purple Spring, 316 S.S. | 2400 (165) | 10 | \$57.15 |
| 22560A | 1/4", Red Spring (2) | 2400 (165) | 10 | \$15.80 |
| 22532A | 3/8", Orange Spring (7) | 3600 (248) | 10 | \$15.80 |
| 22532A-5100 | 3/8", Black Spring, 316 S.S. | 3600 (248) | 10 | \$57.15 |
| 22565A | 1/4", Orange Spring (3) | 3600 (248) | 10 | \$15.80 |
| 22533A | 3/8", Blue Spring (8) | 5000 (345) | 10 | \$15.80 |
| 22533A-5100 | 3/8", Green Spring, 316 S.S. | 5000 (345) | 10 | \$57.15 |
| 22568 | 1/4", Blue Spring (4) | 5000 (345) | 10 | \$15.80 |
| 22568-5100 | 1/4", Green Spring, 316 S.S. | 5000 (345) | 10 | \$57.15 |
| 22533B | 1/4" MNPT, Blue Spring | 6000 (414) | 10 | \$15.80 |
| 22568B | 1/4" MNPT, Blue Spring | 6000 (414) | 10 | \$15.80 |



22530
SERIES

Flow: 10 GPM (40 LPM), Temp: 195 °F (90 °C), Weight: 0.3 lbs. (0.14 kg)

Industrial Pressure Relief Valves

| Model Number | Description | Flow GPM (LPM) | Pressure PSI (bar) | Temp. °F (°C) | List Price U.S \$ |
|--------------|------------------|----------------|--------------------|---------------|-------------------|
| 23140 | Heavy Duty Valve | 13 (49) | 15,000 (1034) | 104 (40) | \$1,645.00 |



23140

Filter/Strainer

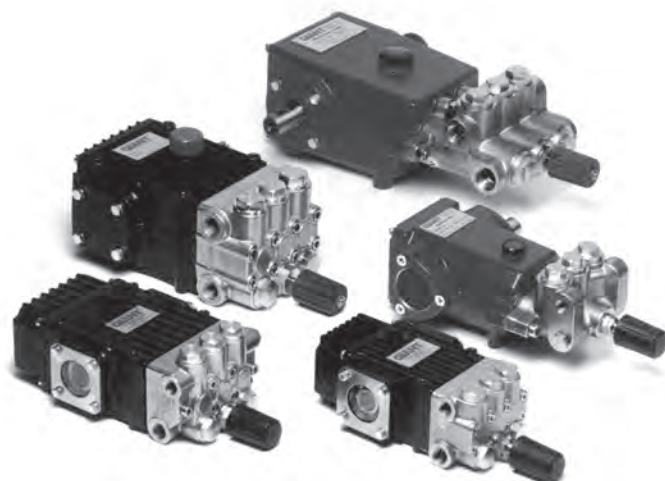
| Model Number | Description | List Price U.S \$ |
|--------------|-------------------------------------|-------------------|
| 22145C | Inlet Filter, 1/2" FBSP, 300 micron | \$30.00 |
| 04755 | Y-Strainer, 3/4", Bronze | \$108.70 |
| 03313 | Y-Strainer, 1-1/4", 60 mesh | \$388.30 |



22145C



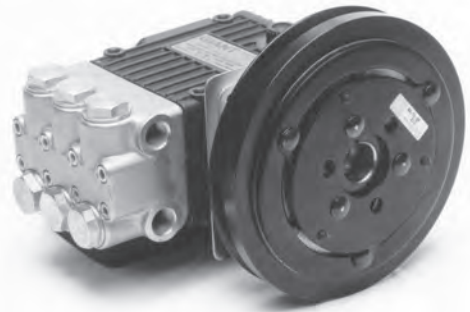
03313/
04755



| Model Number | Pulsator Valve For: | List Price U.S \$ |
|--------------|--|-------------------|
| 08199 | P200 | \$59.75 |
| 22733 | MP4130 | \$163.00 |
| 22734 | MP4120/MP4124 | \$163.00 |
| 22734SB | MP4120/MP4124 w/solenoid | \$434.70 |
| 22734SB-DC | MP4120/MP4124 w/solenoid & deutsch connector | \$434.70 |
| 22735 | P420/P422 | \$163.00 |
| 22735SB | P420/P422/P423/P425 | \$391.25 |
| 22736 | P316/P317/P319 | \$59.75 |
| 22737 | LP301A/LP600 | \$163.00 |
| 22737S | LP301A w/solenoid | \$434.70 |
| 22737SB | LP301A w/solenoid valve and cover | \$434.70 |
| 22737SB-DC | LP301A w/solenoid & deutsch connector | \$455.60 |
| 22738 | P54/P58/P59 | \$67.20 |
| 22739 | P321/P314 | \$59.75 |
| 22740 | LP350/LP400/LP450 | \$163.00 |
| 22741 | LP123 | \$163.00 |
| 22741SB | LP123 w/solenoid | \$391.25 |
| 22742 | GP5128/GP5132/GP5142/GP5145 | \$269.00 |
| 22742SB | GP5128/GP5132/GP5142/GP5145 w/solenoid & cover | \$391.25 |
| 22743 | P435B/P455B | \$122.30 |
| 22744 | P420/P422/P423-HP | \$163.00 |
| 22745 | LP305 | \$163.00 |
| 22746 | GP7100/GP7600 High Flow | \$269.00 |
| 22746SB | GP7100/GP7600 High Flow | \$391.25 |
| 22747 | SP100W | \$163.00 |
| 22748 | GP8000/GP8100 High Flow | \$391.25 |

Electric Clutch

| Model Number | Electric Clutch For: | List Price U.S \$ |
|--------------|-------------------------------|-------------------|
| 23910 | P200 & P300 | \$745.20 |
| 23920 | P54, P55, P56, P58, P59 Pumps | \$744.80 |
| 23930 | P46 Pumps | \$744.80 |
| 23940 | P400 Series Pumps | \$1,025.25 |
| 23960 | MP Series Pumps | \$978.05 |
| 23970 | P57 Pump | \$744.75 |



Pump Oil

| Model Number | Description | List Price U.S \$ |
|--------------|--|-------------------|
| 01153 | Giant Oil, 20W-50 (1 Quart) | \$21.75 |
| 01154 | Industrial Gear Oil, 80W-90 (1 Gallon) | \$72.85 |
| 01157 | Food Grade for CO2 (1 Quart) | \$96.20 |
| 01157-2.5 | Food Grade for CO2 (2.5 Gallon) | \$695.05 |
| 01158 | Gear Guard 220 (1 Gallon) | \$63.30 |
| 01159 | Gear Guard 220 (2.5 Gallon) | \$67.95 |



Foot Valve

| Item | Flow GPM (LPM) | Pressure PSI (bar) | Temp F (C) | Weight lbs. (kg) | List Price U.S \$ |
|-------|----------------|--------------------|------------|------------------|-------------------|
| 21515 | 10 (38) | 5000 (345) | 300 (149) | 10.3 (4.7) | \$353.20 |



Thermal Relief Valves

**Flow: 8 GPM (30 LPM), Pressure: 90 PSI (6.2 bar),
Temp: 140 °F (60 °C), Weight: 0.3 lbs. (0.14 kg)**



| Model Number | Description | List Price U.S \$ |
|--------------|-------------------------------|-------------------|
| 23422B | 1/2" NPT Thermal Relief Valve | \$9.95 |
| 23421B | 3/8" NPT Thermal Relief Valve | \$10.35 |
| 23420B | 1/4" NPT Thermal Relief Valve | \$10.35 |



Drain Valves

| Model Number | Description | List Price U.S \$ |
|--------------|----------------------|-------------------|
| 22320 | GP8000 Valve Lifters | \$665.00 |
| 22321 | GP7000 Valve Lifters | \$665.00 |

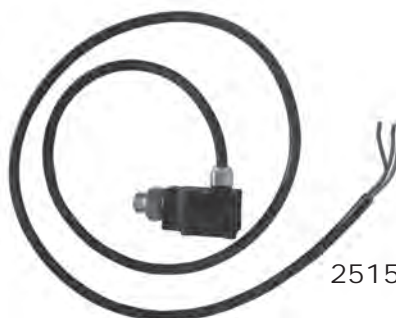


22320

Pressure Switches



25177A-4000



25152

195 °F, IP55, 3 Wire

| Model Number | Inlet Size | Material | Actuation Pressure | Pressure PSI (bar) | Weight lbs. (kg) | List Price U.S \$ |
|--------------|------------|----------|--------------------|--------------------|------------------|-------------------|
| 25166 | 1/8" MBSP | Brass | 210 PSI | 4100 (283) | 0.3 (0.14) | \$30.80 |
| 25167 | 1/8" MBSP | Brass | 360 PSI | 4100 (283) | 0.3 (0.14) | \$30.80 |
| 25168 | 1/8" MBSP | Brass | 580 PSI | 4100 (283) | 0.3 (0.14) | \$30.80 |
| 25169 | 1/4" MBSP | Brass | 210 PSI | 4100 (283) | 0.3 (0.14) | \$30.80 |
| 25153 | 1/4" MBSP | Brass | 580 PSI | 4100 (283) | 0.3 (0.14) | \$30.00 |
| 25171 | 3/8" MBSP | Brass | 210 PSI | 4100 (283) | 0.3 (0.14) | \$45.00 |
| 25172 | 3/8" MBSP | Brass | 360 PSI | 4100 (283) | 0.3 (0.14) | \$30.80 |
| 25173 | 3/8" MBSP | Brass | 580 PSI | 4100 (283) | 0.3 (0.14) | \$30.80 |
| 23174 | 1/4" MNPT | S.S. | 25 PSI | 3650 (248) | 0.3 (0.14) | \$70.65 |
| 23175A-4000 | 1/4" MNPT | S.S. | 580 PSI | 3650 (248) | 0.6 (0.27) | \$126.25 |
| 23176A-4000 | 3/8" BSP | S.S. | 360 PSI | 3650 (248) | 0.6 (0.27) | \$69.95 |
| 23177-4000 | 3/8" MBSP | S.S. | 580 PSI | 8700 (600) | 0.6 (0.27) | \$41.85 |
| 23178-4000 | 3/8" MNPT | S.S. | 360 PSI | 4000 (280) | 0.6 (0.26) | \$45.00 |

Injectors/Pressure Gauges



Injectors

| Model Number | Description | Nozzle Size* | Orifice (mm) | Order Qty | List Price U.S \$ |
|--------------|---------------------|--------------|--------------|-----------|-------------------|
| 25170-1.8 | Fixed Injector | 9 | 1.8 | 10 | \$22.80 |
| 25170-1.8A | Adjustable Injector | 9 | 1.8 | 10 | \$31.50 |
| 25170-2.1 | Fixed Injector | 12 | 2.1 | 10 | \$22.80 |
| 25170-2.1A | Adjustable Injector | 12 | 2.1 | 10 | \$31.50 |
| 25170-2.3 | Fixed Injector | 15 | 2.3 | 10 | \$22.80 |
| 25170-2.3A | Adjustable Injector | 15 | 2.3 | 10 | \$31.50 |

Pressure: 4000 PSI (275 bar), Temperature 194 °F (90 °C)

Inlet/outlet: 3/8" MNPT, Weight: 0.3 lbs. (0.14 kg)

*Minimum nozzle size required for operation

Fixed



Adjustable

Pressure Gauges

These are Giant Industries' most common sizes of pressure gauges. Additional sizes are available. Contact Giant Industries for more information.

| Part Number | Range - PSI (bar) | List Price U.S \$ |
|------------------------------------|-------------------|-------------------|
| Brass, 1/4" Lower | | |
| 25000-04-100 | 0-100 (0-7) | \$120.90 |
| 25000-04-1000 | 0-1000 (0-70) | \$120.90 |
| 25000-04-2000 | 0-2000 (0-138) | \$120.90 |
| 25000-04-3000 | 0-3000 (0-206) | \$120.90 |
| 25000-04-4000 | 0-4000 (0-275) | \$120.90 |
| 25000-04-5000 | 0-5000 (0-345) | \$120.90 |
| 25000-04-6000 | 0-6000 (0-415) | \$120.90 |
| 25000-04-15000 | 0-15000 (0-1034) | \$1,375.00 |
| Brass, 1/4" Back | | |
| 25000-04B-1000 | 0-1000 (0-70) | \$128.30 |
| 25000-04B-2000 | 0-2000 (0-138) | \$128.30 |
| 25000-04B-3000 | 0-3000 (0-206) | \$128.30 |
| 25000-04B-4000 | 0-4000 (0-275) | \$128.30 |
| 25000-04B-5000 | 0-5000 (0-345) | \$128.30 |
| 25000-04B-6000 | 0-6000 (0-415) | \$128.30 |
| 25000-04B-10000 | 0-10000 (0-690) | \$365.20 |
| Brass, 1/2" Lower | | |
| 25000-08-10000 | 0-10000 (0-690) | \$543.40 |
| 25000-08-15000 | 0-15000 (0-1034) | \$695.50 |
| 25000-08-20000 | 0-20000 (0-1379) | \$787.90 |
| Stainless Steel, 1/4" Lower | | |
| 25000-04-1000SS | 0-1000 (0-70) | \$226.15 |
| 25000-04-2000SS | 0-2000 (0-138) | \$222.50 |
| 25000-04-3000SS | 0-3000 (0-206) | \$226.15 |
| 25000-04-5000SS | 0-5000 (0-345) | \$226.15 |
| Stainless Steel, 1/4" Back | | |
| 25000-04B-2000SS | 0-2000 (0-138) | \$380.35 |



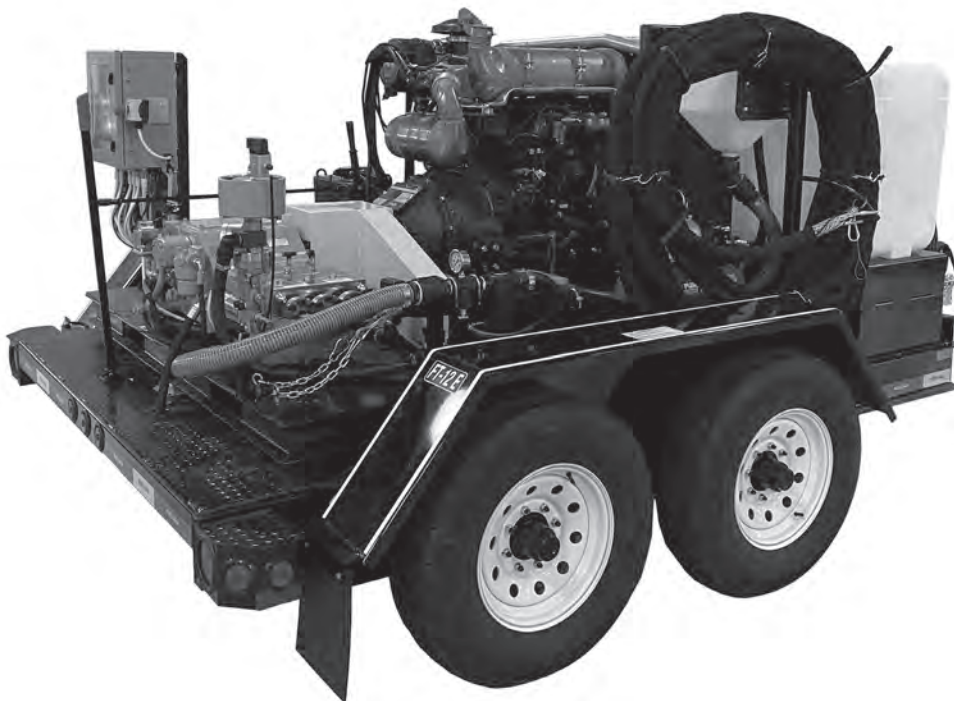
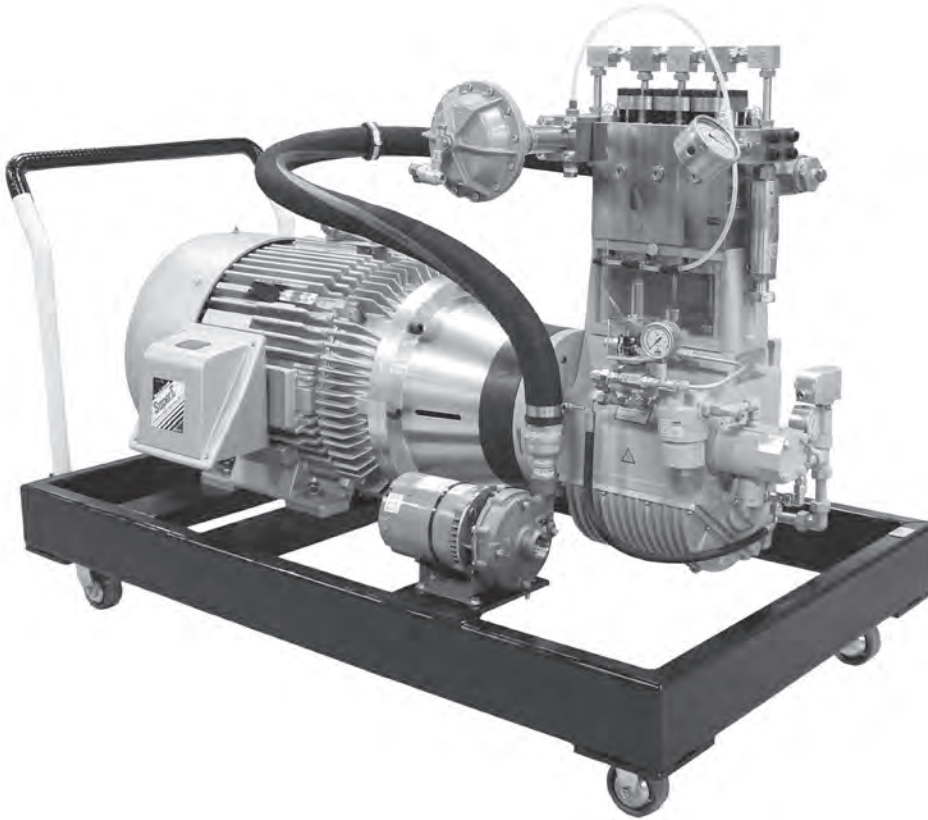
25000-04 Series



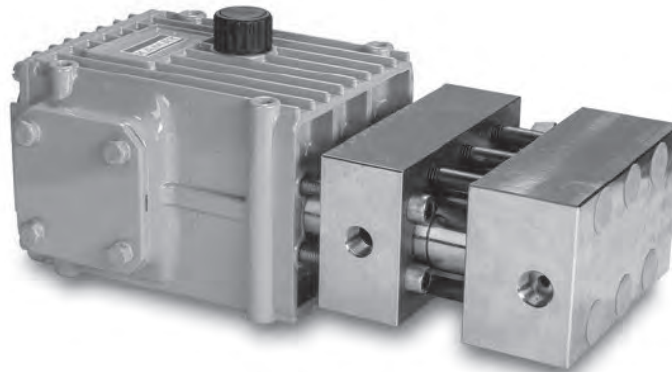
25000-04B Series

Kamat Units

Giant's rugged Industrial Power Packs have been designed to provide you with the durability you require. Your return on investment comes with each use. Built to your specifications the Industrial Power Pack provides liquid power for every application. Gasoline, diesel, natural gas and hydraulic drives are available. With a flow range of 1.8 to 1000 GPM and up to 50,000 PSI there are a variety of options available to you.



Kamat Pumps



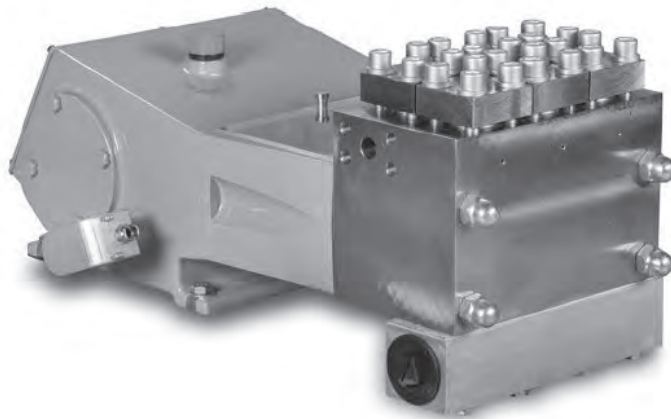
- ◆ Flow rate based on 100% volumetric efficiency and 68 °F (20 °C) ambient temperature
- ◆ Gear end with splash Lubrication
- ◆ Load-cycle-free pump head in stainless steel
- ◆ Tungsten carbide plungers
- ◆ Parts in contact with fluid stainless steel
- ◆ Horizontal installation

K 100-3 Performance Data

| Type | Plunger Diameter | Pump Speed | Flow | | Power Required at | | Power Required at | | Power Required at | |
|------|------------------|------------|------|-------|-------------------|----------|-------------------|----------|-------------------|----------|
| | | | | | 14,500 PSI | 1000 bar | 21,750 PSI | 1500 bar | 29,000 PSI | 2000 bar |
| | mm | RPM | GPM | l/min | hp | kW | hp | kW | hp | kW |
| 108 | 8.5 mm | min. 500 | 0.53 | 2 | 5.16 | 3.85 | 7.74 | 5.77 | 10.31 | 7.69 |
| | | 600 | 0.63 | 2.4 | 6.20 | 4.62 | 9.28 | 6.92 | 12.38 | 9.23 |
| | | 700 | 0.74 | 2.8 | 7.22 | 5.38 | 10.84 | 8.08 | 14.44 | 10.77 |
| | | 800 | 0.85 | 3.2 | 8.25 | 6.15 | 12.38 | 9.23 | 16.51 | 12.31 |
| | | 900 | 0.95 | 3.6 | 9.28 | 6.92 | 13.92 | 10.38 | 18.57 | 13.85 |
| | | max. 1000 | 1.06 | 4 | 10.31 | 7.69 | 15.48 | 11.54 | 20.12 | 15.00 |

| Type | Plunger Diameter | Pump Speed | Flow | | Power Required at | | Power Required at | | |
|------|------------------|------------|------|-------|-------------------|----------|-------------------|----------|--|
| | | | | | 14,500 PSI | 1000 bar | 17,400 PSI | 1200 bar | |
| | mm | RPM | GPM | l/min | hp | kW | hp | kW | |
| 111 | 11 mm | min. 500 | 0.9 | 3.4 | 8.77 | 6.54 | 10.53 | 7.85 | |
| | | 600 | 1.08 | 4.1 | 10.57 | 7.88 | 12.69 | 9.46 | |
| | | 700 | 1.24 | 4.7 | 12.12 | 9.04 | 14.55 | 10.85 | |
| | | 800 | 1.43 | 5.4 | 13.92 | 10.38 | 16.71 | 12.46 | |
| | | 900 | 1.61 | 6.1 | 15.73 | 11.73 | 18.88 | 14.08 | |
| | | max. 1000 | 1.8 | 6.8 | 17.54 | 13.08 | 20.12 | 15.00 | |

Kamat Pumps

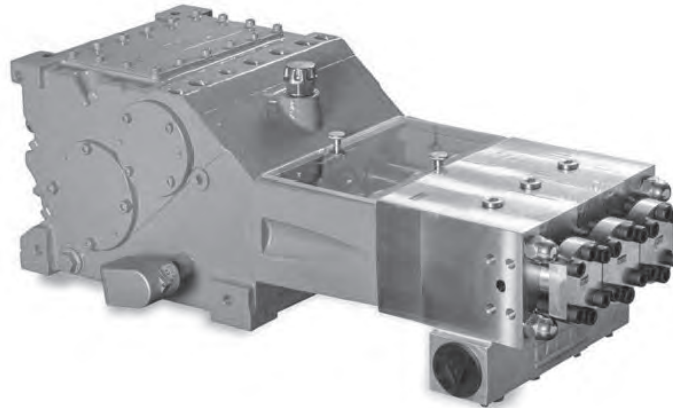


- ◆ Flow rate is based on 100% volumetric efficiency and 68° F (20° C) ambient temperature.
- ◆ Depending on fluid medium, a minimum inlet pressure is required.
- ◆ Speed range: 10-100% (depending on rod force)
- ◆ Gear with splash lubrication.
- ◆ Weight: 430 lbs (195 kg)
- ◆ API 674 specifications available upon request (maximum of 450 RPM).
- ◆ Contact your local distributor or Giant Industries for use with special mediums. i.e. seawater, glycol, methanol, oil, etc.

K4500-3 Performance Data

| Rated Speed 650 RPM | | | Pressure at specific power inputs | | | | | | | | Pump Head Style | | |
|---------------------|------|-------|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-----------------|---|----|
| Type | FLOW | | 30 Hp | 22 kW | 40 Hp | 30 kW | 50 Hp | 37 kW | 60 Hp | 45 kW | A | M | M2 |
| | GPM | L/min | PSI | Bar | PSI | Bar | PSI | Bar | PSI | Bar | | | |
| 4510 | 2.1 | 8 | 22119 | 1525 | 30095 | 2075 | 37130 | 2560 | 43511 | 3000 | 1 | | |
| 4512 | 2.9 | 11 | 15374 | 1060 | 20958 | 1445 | 25817 | 1780 | 30820 | 2125 | 1 | | |
| 4514 | 4.0 | 15 | 11240 | 775 | 15374 | 1060 | 18928 | 1305 | 22625 | 1560 | 1 | | |
| 4516 | 5.3 | 20 | 8630 | 595 | 11748 | 810 | 14500 | 1000 | 17332 | 1195 | 1 | | |
| 4518 | 6.6 | 25 | 6817 | 470 | 9283 | 640 | 11458 | 790 | 13706 | 945 | 2 | 1 | |
| 4520 | 8.2 | 31 | 5512 | 380 | 7542 | 520 | 9282 | 640 | 11095 | 765 | 2 | 1 | |
| 4522 | 9.8 | 37 | 4569 | 315 | 6237 | 430 | 7687 | 530 | 9138 | 630 | 2 | 1 | |
| 4524 | 11.6 | 44 | 3844 | 265 | 5221 | 360 | 6454 | 445 | 7687 | 530 | 2 | 1 | |
| 4526 | 13.7 | 52 | 3263 | 225 | 4424 | 305 | 5511 | 380 | 6527 | 450 | 2 | 1 | |
| 4528 | 15.9 | 60 | 2828 | 195 | 3844 | 265 | 4714 | 325 | 5657 | 390 | 2 | 1 | |
| 4530 | 18.2 | 69 | 2466 | 170 | 3335 | 230 | 4133 | 285 | 4930 | 340 | 2 | | 1 |
| 4532 | 20.6 | 78 | 2175 | 150 | 2973 | 205 | 3625 | 250 | 4351 | 300 | 2 | | 1 |
| 4536 | 26.2 | 99 | 1740 | 120 | 2320 | 160 | 2900 | 200 | 3408 | 235 | | | 1 |
| 4540 | 32.2 | 122 | 1378 | 95 | 1885 | 130 | 2320 | 160 | 2755 | 190 | | | 1 |
| 4545 | 41.0 | 155 | 1088 | 75 | 1523 | 105 | 1813 | 125 | 2175 | 150 | | | 1 |
| 4550 | 50.5 | 191 | 870 | 60 | 1233 | 85 | 1450 | 100 | 1740 | 120 | | | 1 |
| 4555 | 61.3 | 232 | 725 | 50 | 1015 | 70 | 1233 | 85 | 1450 | 100 | | | 1 |

Kamat Pumps

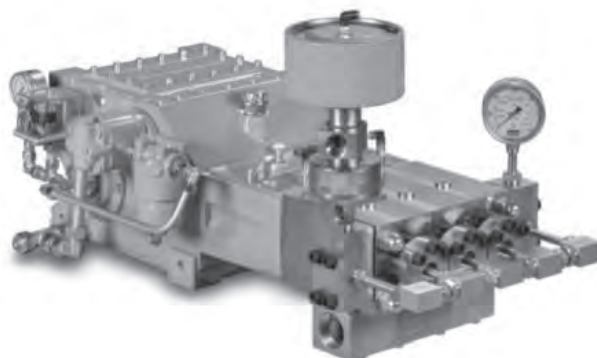


- ◆ Flow rate is based on 100% volumetric efficiency and 68° F (20° C) ambient temperature.
- ◆ Depending on fluid medium, a minimum inlet pressure is required.
- ◆ Depending on rod loading, speed range = 10-100%.
- ◆ Gear with splash lubrication.
- ◆ Standard Gear Ratios: $i = 2.75, 3.22$ and 3.68
- ◆ Weight: 551 lbs (250 kg)
- ◆ API 674 specifications (400 RPM) available upon request.
- ◆ Contact your local distributor or Giant Industries for use with special mediums. i.e. seawater, glycol, methanol, oil, etc.

K8000-3G Performance Data

| Rated Speed 530 RPM | | | Pressure at specific power inputs | | | | | | | | Pump Head Style | | |
|---------------------|------|-------|-----------------------------------|-------|-------|-------|-------|-------|--------|-------|-----------------|---|----|
| Type | FLOW | | 60 Hp | 45 kW | 74 Hp | 55 kW | 80 Hp | 60 kW | 100 Hp | 75 kW | A | M | M2 |
| | GPM | L/min | PSI | Bar | PSI | Bar | PSI | Bar | PSI | Bar | | | |
| 8010 | 2.4 | 9 | 36985 | 2550 | 45180 | 3115 | 49241 | 3395 | 50764 | 3500 | 1 | | |
| 8012 | 3.4 | 13 | 25672 | 1770 | 31329 | 2160 | 34229 | 2360 | 42787 | 2950 | 1 | | |
| 8014 | 4.8 | 18 | 18855 | 1300 | 23061 | 1590 | 25164 | 1735 | 31404 | 2165 | 1 | | |
| 8016 | 6.3 | 24 | 14431 | 995 | 17622 | 1215 | 19218 | 1325 | 24077 | 1660 | 1 | | |
| 8018 | 7.9 | 30 | 11386 | 785 | 13924 | 960 | 15229 | 1050 | 19000 | 1310 | 2 | | |
| 8020 | 9.8 | 37 | 9210 | 635 | 11313 | 780 | 12328 | 850 | 15374 | 1060 | 2 | | |
| 8022 | 11.9 | 45 | 7615 | 525 | 9355 | 645 | 10153 | 700 | 12691 | 875 | 2 | 1 | |
| 8024 | 14.3 | 54 | 6382 | 440 | 7832 | 540 | 8557 | 590 | 10660 | 735 | 2 | 1 | |
| 8026 | 16.6 | 63 | 5439 | 375 | 6672 | 460 | 7325 | 505 | 9138 | 630 | 2 | 1 | |
| 8028 | 19.3 | 73 | 4714 | 325 | 5729 | 395 | 6309 | 435 | 7832 | 540 | 2 | 1 | |
| 8030 | 22.2 | 84 | 4134 | 285 | 5004 | 345 | 5439 | 375 | 6817 | 470 | 2 | | 1 |
| 8032 | 25.4 | 96 | 3626 | 250 | 4424 | 305 | 4786 | 330 | 6019 | 415 | 2 | | 1 |
| 8036 | 32.0 | 121 | 2828 | 195 | 3481 | 240 | 3771 | 260 | 4786 | 330 | | | 1 |
| 8040 | 39.6 | 150 | 2321 | 160 | 2828 | 195 | 3046 | 210 | 3844 | 265 | | | 1 |
| 8045 | 50.2 | 190 | 1813 | 125 | 2248 | 155 | 2466 | 170 | 3046 | 210 | | | 1 |
| 8050 | 61.8 | 234 | 1450 | 100 | 1813 | 125 | 1958 | 135 | 2466 | 170 | | | 1 |
| 8055 | 74.8 | 283 | 1233 | 85 | 1523 | 105 | 1595 | 110 | 2031 | 140 | | | 1 |

Kamat Pumps

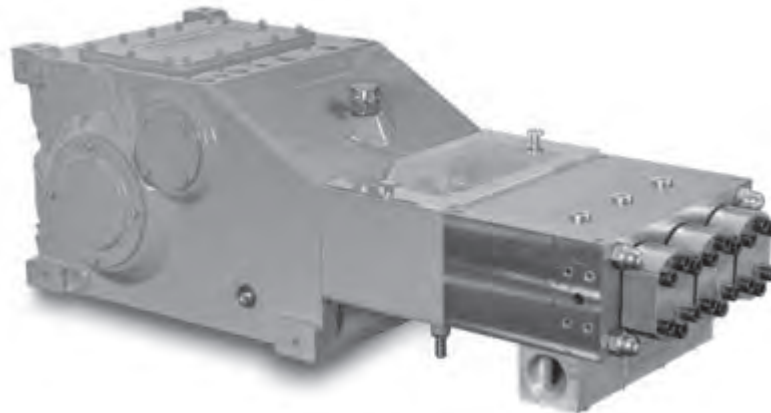


- ◆ Flow rate is based on 100% volumetric efficiency and 68° F (20° C) ambient temperature.
- ◆ Depending on fluid medium, a minimum inlet pressure is required.
- ◆ Depending on rod loading, speed range = 10-100%.
- ◆ Gear with splash lubrication.
- ◆ Standard Gear Ratios: $i = 2.75, 3.22$ and 3.68
- ◆ Weight: 562 lbs (255 kg)
- ◆ API 674 specifications (maximum 400 RPM) available upon request.
- ◆ Contact your local distributor or Giant Industries for use with special mediums. i.e. seawater, glycol, methanol, oil, etc.
- ◆ Vertical Operation is possible

K9000-3G Performance Data

| Rated Speed 530 RPM | | | Pressure at specific power inputs | | | | | | | | Pump Head Style | | |
|---------------------|------|-------|-----------------------------------|-------|-------|-------|--------|-------|--------|-------|-----------------|---|----|
| Type | FLOW | | 61 HP | 45 kW | 74 Hp | 55 kW | 100 Hp | 75 kW | 121 Hp | 90 kW | A | M | M2 |
| | GPM | L/min | PSI | Bar | PSI | Bar | PSI | Bar | PSI | Bar | | | |
| 9012 | 3.4 | 13 | 25672 | 1770 | 31329 | 2160 | 42787 | 2950 | 45543 | 3140 | 1 | | |
| 9014 | 4.8 | 18 | 18855 | 1300 | 23061 | 1590 | 31401 | 2165 | 33432 | 2305 | 1 | | |
| 9016 | 6.3 | 24 | 14431 | 995 | 17622 | 1215 | 24077 | 1660 | 25600 | 1765 | 1 | | |
| 9018 | 7.9 | 30 | 11386 | 785 | 13924 | 960 | 19000 | 1310 | 20233 | 1395 | 2 | | |
| 9020 | 9.8 | 37 | 9210 | 635 | 11313 | 780 | 15734 | 1060 | 16390 | 1130 | 2 | | |
| 9022 | 11.9 | 45 | 7615 | 525 | 9355 | 645 | 12691 | 875 | 13561 | 935 | 2 | 1 | |
| 9024 | 14.3 | 54 | 6382 | 440 | 7832 | 540 | 10660 | 735 | 11386 | 785 | 2 | 1 | |
| 9026 | 16.6 | 63 | 5439 | 375 | 6672 | 460 | 9138 | 630 | 9718 | 670 | 2 | 1 | |
| 9028 | 19.3 | 73 | 4714 | 325 | 5729 | 395 | 7832 | 540 | 8340 | 575 | 2 | 1 | |
| 9030 | 22.2 | 84 | 4134 | 285 | 5004 | 345 | 6817 | 470 | 7252 | 500 | 2 | | 1 |
| 9032 | 25.4 | 96 | 3626 | 250 | 4424 | 305 | 6019 | 415 | 6382 | 440 | 2 | | 1 |
| 9036 | 32.0 | 121 | 2828 | 195 | 3481 | 240 | 4786 | 330 | 5076 | 350 | | | 1 |
| 9040 | 39.6 | 150 | 2321 | 160 | 2828 | 195 | 3844 | 265 | 4134 | 285 | | | 1 |
| 9045 | 50.2 | 190 | 1813 | 125 | 2248 | 155 | 3046 | 210 | 3263 | 225 | | | 1 |
| 9050 | 61.8 | 234 | 1450 | 100 | 1813 | 125 | 2466 | 170 | 2611 | 180 | | | 1 |
| 9055 | 74.8 | 283 | 1233 | 85 | 1523 | 105 | 2031 | 140 | 2176 | 150 | | | 1 |

Kamat Pumps

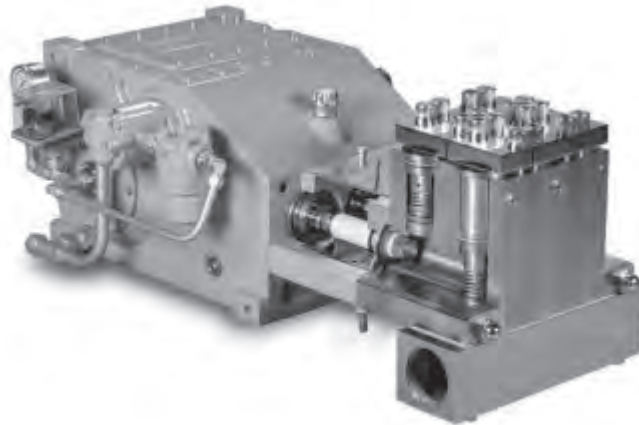


- ◆ Flow rate is based on 100% volumetric efficiency and 68° F (20° C) ambient temperature.
- ◆ Depending on fluid medium, a minimum inlet pressure is required.
- ◆ Depending on rod loading, speed range = 10-100%.
- ◆ Gear dynamically balanced
- ◆ Gear with splash lubrication.
- ◆ Standard Gear Ratios: $i = 3.00, 3.14, 3.39, 3.76, 4.13, 4.50$ and 4.93
- ◆ Weight: 937 lbs (425 kg)
- ◆ API 674 specifications (maximum 340 RPM) available upon request.
- ◆ Contact your local distributor or Giant Industries for use with special mediums. i.e. seawater, glycol, methanol, oil, etc.

K11000-3G Performance Data

| Rated Speed 435 RPM | | | Pressure at specific power inputs | | | | | | | | Pump Head Style | | |
|---------------------|-------|-------|-----------------------------------|-------|--------|-------|--------|-------|--------|--------|-----------------|---|----|
| Type | FLOW | | 80 Hp | 60 kW | 101 Hp | 75 kW | 121 Hp | 90 kW | 147 Hp | 110 kW | A | M | M2 |
| | GPM | L/min | PSI | Bar | PSI | Bar | PSI | Bar | PSI | Bar | | | |
| 11014 | 5.6 | 21 | 21901 | 1510 | 27340 | 1885 | 32852 | 2265 | 38653 | 2665 | 1 | | |
| 11016 | 7.4 | 28 | 16752 | 1155 | 20958 | 1445 | 25092 | 1730 | 29588 | 2040 | 1 | | |
| 11018 | 9.3 | 35 | 13199 | 910 | 16535 | 1140 | 19870 | 1370 | 23351 | 1610 | 1 | | |
| 11020 | 11.4 | 43 | 10733 | 740 | 13416 | 925 | 16099 | 1110 | 18928 | 1305 | 2 | | |
| 11022 | 13.7 | 52 | 8847 | 610 | 11096 | 765 | 13271 | 915 | 15664 | 1080 | 2 | | |
| 11024 | 16.4 | 62 | 7470 | 515 | 9283 | 640 | 11168 | 770 | 13126 | 905 | 2 | 1 | |
| 11026 | 19.3 | 73 | 6309 | 435 | 7905 | 545 | 9500 | 655 | 11241 | 775 | 2 | 1 | |
| 11028 | 22.2 | 84 | 5439 | 375 | 6817 | 470 | 8195 | 565 | 9645 | 665 | 2 | 1 | |
| 11030 | 25.6 | 97 | 4786 | 330 | 5947 | 410 | 7179 | 495 | 8412 | 580 | 2 | 1 | |
| 11032 | 29.1 | 110 | 4206 | 290 | 5221 | 360 | 6309 | 435 | 7397 | 510 | 2 | 1 | |
| 11036 | 36.7 | 139 | 3336 | 230 | 4134 | 285 | 4931 | 340 | 5874 | 405 | 2 | | 1 |
| 11040 | 45.4 | 172 | 2683 | 185 | 3336 | 230 | 3989 | 275 | 4714 | 325 | | | 1 |
| 11045 | 57.6 | 218 | 2103 | 145 | 2611 | 180 | 3191 | 220 | 3771 | 260 | | | 1 |
| 11050 | 71.1 | 269 | 1740 | 120 | 2176 | 150 | 2538 | 175 | 3046 | 210 | | | 1 |
| 11055 | 85.9 | 325 | 1450 | 100 | 1740 | 120 | 2103 | 145 | 2538 | 175 | | | 1 |
| 11060 | 102.2 | 387 | 1160 | 80 | 1523 | 105 | 1813 | 125 | 2103 | 145 | | | 1 |
| 11065 | 119.9 | 454 | 1015 | 70 | 1233 | 85 | 1523 | 105 | 1813 | 125 | | | 1 |

Kamat Pumps



- ◆ Flow rate is based on 100% volumetric efficiency and 68° F (20° C) ambient temperature.
- ◆ Depending on fluid medium, a minimum inlet pressure is required.
- ◆ Depending on rod loading, speed range = 10-100%.
- ◆ Gear dynamically balanced
- ◆ Gear with force-fed lubrication (> 174 HP [130 kW] with oil cooler).
- ◆ Standard Gear Ratios: $i = 3.00, 3.14, 3.39, 3.76, 4.13, 4.50$ and 4.93
- ◆ Weight: 970 lbs (440 kg)
- ◆ API 674 specifications (maximum 340 RPM) available upon request.
- ◆ Contact your local distributor or Giant Industries for use with special mediums. i.e. seawater, glycol, methanol, oil, etc.

K18000-3G Performance Data

| Rated Speed 500 RPM | | | Pressure at specific power inputs | | | | | | | | Pump Head Style | | |
|---------------------|-------|-------|-----------------------------------|--------|--------|--------|--------|--------|--------|--------|-----------------|---|----|
| Type | FLOW | | 147 Hp | 110 kW | 177 Hp | 132 kW | 215 Hp | 160 kW | 241 Hp | 180 kW | A | M | M2 |
| | GPM | L/min | PSI | Bar | PSI | Bar | PSI | Bar | PSI | Bar | | | |
| 18014 | 6.3 | 24 | 34882 | 2405 | 41844 | 2885 | 50764 | 3500 | -- | -- | 1 | | |
| 18016 | 8.5 | 32 | 26687 | 1840 | 32054 | 2210 | 38871 | 2680 | 43294 | 2985 | 1 | | |
| 18018 | 10.6 | 40 | 21103 | 1455 | 25309 | 1745 | 30676 | 2115 | 34229 | 2360 | 1 | | |
| 18020 | 12.9 | 49 | 17115 | 1180 | 20523 | 1415 | 24874 | 1715 | 27703 | 1910 | 1 | | |
| 18022 | 15.9 | 60 | 14141 | 975 | 16970 | 1170 | 20523 | 1415 | 22916 | 1580 | 2 | | |
| 18024 | 18.8 | 71 | 11893 | 820 | 14214 | 980 | 17260 | 1190 | 19218 | 1325 | 2 | | |
| 18026 | 22.2 | 84 | 10153 | 700 | 12111 | 835 | 14722 | 1015 | 16390 | 1130 | 2 | | |
| 18028 | 25.6 | 97 | 8702 | 600 | 10443 | 720 | 12691 | 875 | 14141 | 975 | 2 | 1 | |
| 18030 | 29.3 | 111 | 7615 | 525 | 9138 | 630 | 11023 | 760 | 12328 | 850 | 2 | 1 | |
| 18032 | 33.6 | 127 | 6672 | 460 | 8050 | 555 | 9718 | 670 | 10805 | 745 | 2 | 1 | |
| 18036 | 42.3 | 160 | 5294 | 365 | 6309 | 435 | 7687 | 530 | 8557 | 590 | 2 | | 1 |
| 18040 | 52.3 | 198 | 4279 | 295 | 5149 | 355 | 6237 | 430 | 6962 | 480 | | | 1 |
| 18045 | 66.1 | 250 | 3408 | 235 | 4061 | 280 | 4931 | 340 | 5439 | 375 | | | 1 |
| 18050 | 81.6 | 309 | 2756 | 190 | 3263 | 225 | 3989 | 275 | 4424 | 305 | | | 1 |
| 18055 | 98.8 | 374 | 2248 | 155 | 2683 | 185 | 3263 | 225 | 3699 | 255 | | | 1 |
| 18060 | 117.6 | 445 | 1886 | 130 | 2248 | 155 | 2756 | 190 | 3046 | 210 | | | 1 |
| 18065 | 137.9 | 522 | 1595 | 110 | 1958 | 135 | 2321 | 160 | 2611 | 180 | | | 1 |

Kamat Pumps



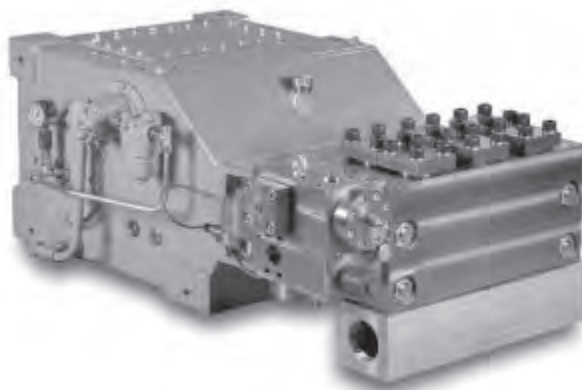
- ◆ Flow rate is based on 100% volumetric efficiency and 68° F (20° C) ambient temperature.
- ◆ Depending on fluid medium, a minimum inlet pressure is required.
- ◆ Depending on rod loading, speed range = 10-100%.
- ◆ Gear dynamically balanced
- ◆ Gear with force-fed lubrication (> 214 HP/160 kW with oil cooler).
- ◆ Standard Gear Ratios: $i = 3.33, 3.50, 4.04, 4.62$ and 5.44
- ◆ Weight: 2127 lbs (965 kg)
- ◆ API 674 specifications (maximum 340 RPM) and vertical operation available upon request.
- ◆ Contact your local distributor or Giant Industries for use with special mediums. i.e. seawater, glycol, methanol, oil, etc.

K25000-3G Performance Data

| Rated Speed 450 RPM | | | Pressure at specific power inputs | | | | | | | | Pump Head Style | | |
|---------------------|-------|-------|-----------------------------------|--------|--------|--------|--------|--------|--------|--------|-----------------|---|----|
| Type | FLOW | | 177 Hp | 132 kW | 215 Hp | 160 kW | 268 Hp | 200 kW | 335 Hp | 250 kW | A | M | M2 |
| | GPM | L/min | PSI | Bar | PSI | Bar | PSI | Bar | PSI | Bar | | | |
| 25018 | 10.8 | 41 | 24657 | 1700 | 29878 | 2060 | 37348 | 2575 | 46195 | 3185 | 1 | | |
| 25020 | 13.5 | 51 | 19943 | 1375 | 24149 | 1665 | 30241 | 2085 | 37420 | 2580 | 1 | | |
| 25022 | 16.4 | 62 | 16462 | 1135 | 20016 | 1380 | 24947 | 1720 | 30894 | 2130 | 1 | | |
| 25024 | 19.3 | 73 | 13851 | 955 | 16825 | 1160 | 20958 | 1445 | 25962 | 1790 | 1 | | |
| 25026 | 22.7 | 86 | 11821 | 815 | 14286 | 985 | 17912 | 1235 | 22119 | 1525 | 2 | | |
| 25028 | 26.4 | 100 | 10153 | 700 | 12328 | 850 | 15447 | 1065 | 19073 | 1315 | 2 | | |
| 25030 | 30.1 | 114 | 8847 | 610 | 10733 | 740 | 13416 | 925 | 16607 | 1145 | 2 | | |
| 25032 | 34.3 | 130 | 7760 | 535 | 9428 | 650 | 11821 | 815 | 14649 | 1010 | 2 | 1 | |
| 25036 | 43.6 | 165 | 6164 | 425 | 7470 | 515 | 9355 | 645 | 11531 | 795 | 2 | 1 | |
| 25040 | 53.6 | 203 | 5004 | 345 | 6019 | 415 | 7542 | 520 | 9355 | 645 | 2 | 1 | |
| 25045 | 68.2 | 258 | 3916 | 270 | 4786 | 330 | 5947 | 410 | 7397 | 510 | 2 | 1 | |
| 25050 | 84.0 | 318 | 3191 | 220 | 3844 | 265 | 4859 | 335 | 6019 | 415 | 2 | 1 | |
| 25055 | 101.7 | 385 | 2611 | 180 | 3191 | 220 | 3989 | 275 | 4931 | 340 | | 1 | |
| 25060 | 121.0 | 458 | 2248 | 155 | 2683 | 185 | 3336 | 230 | 4134 | 285 | | 1 | |
| 25065 | 141.9 | 537 | 1886 | 130 | 2321 | 160 | 2828 | 195 | 3553 | 245 | | 1 | 1 |
| 25070 | 164.6 | 623 | 1595 | 110 | 1958 | 135 | 2466 | 170 | 3046 | 210 | | | 1 |
| 25075 | 188.9 | 715 | 1450 | 100 | 1740 | 120 | 2176 | 150 | 2683 | 185 | | | 1 |
| 25085 | 242.8 | 919 | 1088 | 75 | 1305 | 90 | 1668 | 115 | 2103 | 145 | | | 1 |
| 25095 | 303.3 | 1148 | 870 | 60 | 1088 | 75 | 1305 | 90 | 1668 | 115 | | | 1 |

K45000-3G

Kamat Pumps



- ◆ Flow rate is based on 100% volumetric efficiency and 68° F (20° C) ambient temperature.
- ◆ Depending on fluid medium, a minimum inlet pressure is required.
- ◆ Depending on rod loading, speed range = 10-100%.
- ◆ Gear dynamically balanced
- ◆ Gear with force-fed lubrication with oil cooler.
- ◆ Standard Gear Ratios: $i = 3.39, 4.05, 4.76$ and 5.25
- ◆ Weight: 2998 lbs (1360 kg)
- ◆ API 674 specifications (maximum 290 RPM) and vertical operation available upon request.
- ◆ Contact your local distributor or Giant Industries for use with special mediums. i.e. seawater, glycol, methanol, oil, etc.

K45000-3G Performance Data

| Rated Speed 440 RPM | | | Pressure at specific power inputs | | | | | | | | Pump Head Style | | |
|---------------------|-------|-------|-----------------------------------|--------|--------|--------|--------|--------|--------|--------|-----------------|---|----|
| Type | FLOW | | 422 Hp | 315 kW | 469 Hp | 350 kW | 536 Hp | 400 kW | 604 Hp | 450 kW | A | M | M2 |
| | GPM | L/min | PSI | Bar | PSI | Bar | PSI | Bar | PSI | Bar | | | |
| 45020 | 15.3 | 58 | 41699 | 2875 | 46340 | 3195 | 50764 | 3500 | ----- | ----- | 1 | | |
| 45022 | 18.5 | 70 | 34520 | 2380 | 38291 | 2640 | 43802 | 3020 | 49241 | 3395 | 1 | | |
| 45024 | 22.2 | 84 | 29008 | 2000 | 32199 | 2220 | 36768 | 2535 | 41409 | 2855 | 1 | | |
| 45026 | 25.9 | 98 | 24657 | 1700 | 27413 | 1890 | 31329 | 2160 | 35245 | 2430 | 1 | | |
| 45028 | 30.1 | 114 | 21321 | 1470 | 23642 | 1630 | 27050 | 1865 | 30386 | 2095 | 1 | | |
| 45030 | 34.6 | 131 | 18565 | 1280 | 20596 | 1420 | 23569 | 1625 | 26470 | 1825 | 1 | | |
| 45032 | 39.4 | 149 | 16317 | 1125 | 18130 | 1250 | 20668 | 1425 | 23279 | 1605 | 1 | | |
| 45036 | 49.7 | 188 | 12909 | 890 | 14286 | 985 | 16390 | 1130 | 18420 | 1270 | 2 | | |
| 45040 | 61.3 | 232 | 10443 | 720 | 11603 | 800 | 13271 | 915 | 14939 | 1030 | 2 | 1 | |
| 45045 | 77.7 | 294 | 8267 | 570 | 9138 | 630 | 10443 | 720 | 11748 | 810 | 2 | 1 | |
| 45050 | 95.9 | 363 | 6672 | 460 | 7397 | 510 | 8485 | 585 | 9573 | 660 | 2 | 1 | |
| 45055 | 116.0 | 439 | 5512 | 380 | 6164 | 425 | 7034 | 485 | 7905 | 545 | | 1 | |
| 45060 | 137.9 | 522 | 4641 | 320 | 5149 | 355 | 5874 | 405 | 6599 | 455 | | 1 | |
| 45065 | 162.0 | 613 | 3916 | 270 | 4424 | 305 | 5004 | 345 | 5657 | 390 | | 1 | |
| 45070 | 187.8 | 711 | 3408 | 235 | 3771 | 260 | 4351 | 300 | 4859 | 335 | | | 1 |
| 45075 | 215.6 | 816 | 2973 | 205 | 3263 | 225 | 3771 | 260 | 4206 | 290 | | | 1 |
| 45085 | 276.9 | 1048 | 2321 | 160 | 2538 | 175 | 2901 | 200 | 3336 | 230 | | | 1 |
| 45095 | 345.8 | 1309 | 1886 | 130 | 2031 | 140 | 2321 | 160 | 2611 | 180 | | | 1 |

Kamat Pumps

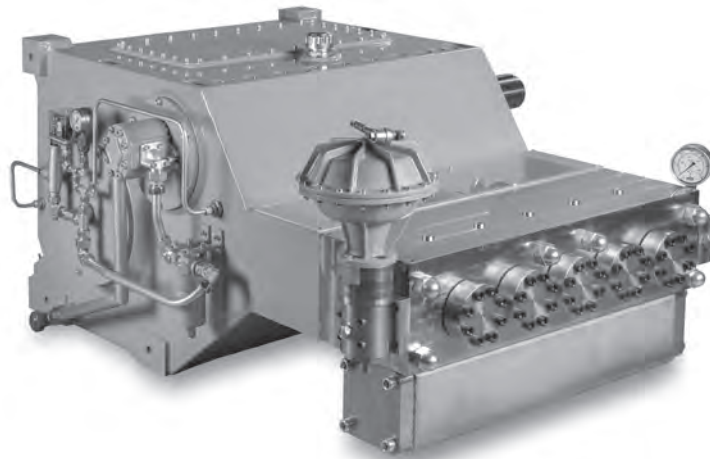


- ◆ Flow rate is based on 100% volumetric efficiency and 68° F (20° C) ambient temperature.
- ◆ Depending on fluid medium, a minimum inlet pressure is required.
- ◆ Depending on rod loading, speed range = 10-100%.
- ◆ Gear dynamically balanced
- ◆ Gear with force-fed lubrication with oil cooler.
- ◆ Standard Gear Ratios: $i = 3.30, 3.95, 4.66$ and 5.63
- ◆ Weight: 4850 lbs (2200 kg)
- ◆ API 674 specifications (maximum 380 RPM) and vertical operation available upon request.
- ◆ Contact your local distributor or Giant Industries for use with special mediums. i.e. seawater, glycol, methanol, oil, etc.

K55000-5G Performance Data

| Rated Speed 450 RPM | | | Pressure at specific power inputs | | | | | | | | Pump Head Style | | |
|---------------------|-------|-------|-----------------------------------|--------|--------|--------|--------|--------|--------|--------|-----------------|---|----|
| Type | FLOW | | 536 Hp | 400 kW | 604 Hp | 450 kW | 671 Hp | 500 kW | 738 Hp | 550 kW | A | M | M2 |
| | GPM | L/min | PSI | Bar | Hp | kW | Hp | kW | Hp | kW | | | |
| 55018 | 18.2 | 69 | 44745 | 3085 | 50401 | 3475 | 50764 | 3500 | ----- | ----- | 1 | | |
| 55020 | 22.5 | 85 | 36260 | 2500 | 40829 | 2815 | 45325 | 3125 | 49894 | 3440 | 1 | | |
| 55022 | 27.2 | 103 | 29951 | 2065 | 33722 | 2325 | 37493 | 2585 | 41191 | 2840 | 1 | | |
| 55024 | 32.2 | 122 | 25164 | 1735 | 28355 | 1955 | 31474 | 2170 | 34665 | 2390 | 1 | | |
| 55026 | 37.8 | 143 | 21466 | 1480 | 24149 | 1665 | 26832 | 1850 | 29516 | 2035 | 1 | | |
| 55028 | 43.9 | 166 | 18493 | 1275 | 20813 | 1435 | 23134 | 1595 | 25455 | 1755 | 1 | | |
| 55030 | 50.5 | 191 | 16099 | 1110 | 18130 | 1250 | 20161 | 1390 | 22191 | 1530 | 2 | | |
| 55032 | 57.3 | 217 | 14141 | 975 | 15954 | 1100 | 17695 | 1220 | 19508 | 1345 | 2 | | |
| 55036 | 72.7 | 275 | 11168 | 770 | 12618 | 870 | 13996 | 965 | 15374 | 1060 | 2 | 1 | |
| 55040 | 89.6 | 339 | 9065 | 625 | 10225 | 705 | 11313 | 780 | 12473 | 860 | 2 | 1 | |
| 55045 | 113.3 | 429 | 7179 | 495 | 8050 | 555 | 8920 | 615 | 9863 | 680 | 2 | 1 | |
| 55050 | 140.0 | 530 | 5802 | 400 | 6527 | 450 | 7252 | 500 | 7977 | 550 | 2 | 1 | |
| 55055 | 169.3 | 641 | 4786 | 330 | 5366 | 370 | 6019 | 415 | 6599 | 455 | | 1 | |
| 55060 | 201.6 | 763 | 4061 | 280 | 4569 | 315 | 5004 | 345 | 5512 | 380 | | 1 | |
| 55065 | 236.4 | 895 | 3408 | 235 | 3844 | 265 | 4279 | 295 | 4714 | 325 | | 1 | |
| 55070 | 274.5 | 1039 | 2973 | 205 | 3336 | 230 | 3699 | 255 | 4061 | 280 | | | 1 |
| 55075 | 314.9 | 1192 | 2611 | 180 | 2901 | 200 | 3191 | 220 | 3553 | 245 | | | 1 |
| 55085 | 404.5 | 1531 | 2031 | 140 | 2248 | 155 | 2538 | 175 | 2756 | 190 | | | 1 |
| 55090 | 453.6 | 1717 | 1813 | 125 | 2031 | 140 | 2248 | 155 | 2466 | 170 | | | 1 |
| 55095 | 505.4 | 1913 | 1595 | 110 | 1813 | 125 | 2031 | 140 | 2176 | 150 | | | 1 |

Kamat Pumps

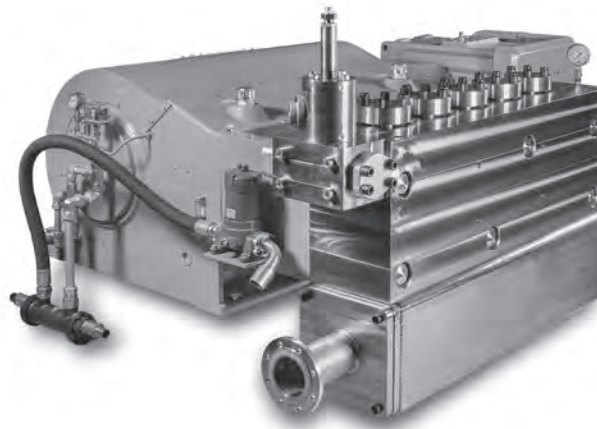


- ◆ Flow rate is based on 100% volumetric efficiency and 68° F (20° C) ambient temperature.
- ◆ Depending on fluid medium, a minimum inlet pressure is required.
- ◆ Depending on rod loading, speed range = 10-100%.
- ◆ Gear dynamically balanced
- ◆ Gear with force-fed lubrication with oil cooler.
- ◆ Standard Gear Ratios: $i = 3.30, 3.95, 4.66$ and 5.63
- ◆ Weight: 8047 lbs (3650 kg)
- ◆ API 674 specifications (maximum 340 RPM) and vertical operation available upon request.
- ◆ Contact your local distributor or Giant Industries for use with special mediums. i.e. seawater, glycol, methanol, oil, etc.

K100000-5G Performance Data

| Rated Speed 440 RPM | | | Pressure at specific power inputs | | | | | | | | Pump Head Style | | |
|---------------------|-------|-------|-----------------------------------|--------|--------|--------|---------|--------|---------|---------|-----------------|---|----|
| Type | FLOW | | 845 Hp | 630 kW | 952 Hp | 710 kW | 1073 Hp | 800 kW | 1341 Hp | 1000 kW | A | M | M2 |
| | GPM | L/min | PSI | Bar | PSI | Bar | PSI | Bar | PSI | Bar | | | |
| 100022 | 30.9 | 117 | 41409 | 2855 | 46630 | 3215 | 50764 | 3500 | ----- | ----- | 1 | | |
| 100024 | 36.7 | 139 | 34810 | 2400 | 39161 | 2700 | 44165 | 3045 | 50764 | 3500 | 1 | | |
| 100026 | 43.1 | 163 | 29661 | 2045 | 33359 | 2300 | 37638 | 2595 | 47065 | 3245 | 1 | | |
| 100028 | 50.2 | 190 | 25527 | 1760 | 28790 | 1985 | 32416 | 2235 | 40539 | 2795 | 1 | | |
| 100032 | 65.5 | 248 | 19580 | 1350 | 22046 | 1520 | 24874 | 1715 | 31039 | 2140 | 1 | | |
| 100036 | 82.7 | 313 | 15447 | 1065 | 17405 | 1200 | 19653 | 1355 | 24512 | 1690 | 1 | | |
| 100040 | 102.2 | 387 | 12546 | 865 | 14141 | 975 | 15882 | 1095 | 19870 | 1370 | 2 | | |
| 100045 | 129.5 | 490 | 9863 | 680 | 11168 | 770 | 12546 | 865 | 15737 | 1085 | 2 | 1 | |
| 100050 | 159.6 | 604 | 7977 | 550 | 9065 | 625 | 10153 | 700 | 12691 | 875 | 2 | 1 | |
| 100055 | 193.1 | 731 | 6599 | 455 | 7470 | 515 | 8412 | 580 | 10515 | 725 | | 1 | |
| 100060 | 229.8 | 870 | 5584 | 385 | 6237 | 430 | 7034 | 485 | 8847 | 610 | | 1 | |
| 100065 | 270.0 | 1022 | 4714 | 325 | 5366 | 370 | 6019 | 415 | 7542 | 520 | | 1 | |
| 100070 | 313.1 | 1185 | 4061 | 280 | 4641 | 320 | 5221 | 360 | 6454 | 445 | | 1 | |
| 100075 | 359.3 | 1360 | 3553 | 245 | 3989 | 275 | 4496 | 310 | 5657 | 390 | | 1 | |
| 100080 | 408.7 | 1547 | 3118 | 215 | 3553 | 245 | 3989 | 275 | 5004 | 345 | | | 1 |
| 100085 | 461.5 | 1747 | 2756 | 190 | 3118 | 215 | 3553 | 245 | 4424 | 305 | | | 1 |
| 100090 | 517.3 | 1958 | 2466 | 170 | 2756 | 190 | 3118 | 215 | 3916 | 270 | | | 1 |
| 100095 | 576.4 | 2182 | 2248 | 155 | 2466 | 170 | 2828 | 195 | 3553 | 245 | | | 1 |
| 100100 | 638.8 | 2418 | 2031 | 140 | 2248 | 155 | 2538 | 175 | 3191 | 220 | | | 2 |
| 100110 | 773.0 | 2926 | 1668 | 115 | 1886 | 130 | 2103 | 145 | 2611 | 180 | | | 2 |
| 100120 | 919.9 | 3482 | 1378 | 95 | 1595 | 110 | 1740 | 120 | 2176 | 150 | | | 2 |

Kamat Pumps



- ◆ Flow rate is based on 100% volumetric efficiency and 68° F (20° C) ambient temperature.
- ◆ Depending on fluid medium, a minimum inlet pressure is required.
- ◆ Depending on rod loading, speed range = 10-100%.
- ◆ Crankshaft dynamically balanced
- ◆ Gear with external force-fed lubrication with oil cooling.
- ◆ Standard Gear Ratios: $i = 4.76, 5.72$ and 6.35
- ◆ Weight: 16,535 lbs (7500 kg)
- ◆ API 674 specifications (maximum 310 RPM) and vertical operation available upon request.
- ◆ Contact your local distributor or Giant Industries for use with special mediums. i.e. seawater, glycol, methanol, oil, etc.

K150000-5G Performance Data

| Rated Speed 320 RPM | | | Pressure at specific power inputs | | | | | | | | Pump Head Style | | |
|---------------------|--------|-------|-----------------------------------|--------|---------|---------|---------|---------|---------|---------|-----------------|---|----|
| Type | FLOW | | 1006 Hp | 750 kW | 1341 Hp | 1000 kW | 1676 Hp | 1250 kW | 2012 Hp | 1500 kW | A | M | M2 |
| | GPM | L/min | PSI | Bar | PSI | Bar | PSI | Bar | PSI | Bar | | | |
| 150028 | 49.4 | 187 | 30821 | 2125 | 41119 | 2835 | 50764 | 3500 | ----- | ----- | 1 | | |
| 150030 | 56.8 | 215 | 26832 | 1850 | 35825 | 2470 | 44745 | 3085 | 50764 | 3500 | 1 | | |
| 150032 | 64.5 | 244 | 23569 | 1625 | 31474 | 2170 | 39306 | 2710 | 46340 | 3195 | 1 | | |
| 150036 | 81.6 | 309 | 18638 | 1285 | 24874 | 1715 | 31039 | 2140 | 36623 | 2525 | 1 | | |
| 150040 | 100.9 | 382 | 15084 | 1040 | 20161 | 1390 | 25164 | 1735 | 29661 | 2045 | 1 | | |
| 150045 | 127.6 | 483 | 11966 | 825 | 15882 | 1095 | 19870 | 1370 | 23424 | 1615 | 1 | | |
| 150050 | 157.7 | 597 | 9645 | 665 | 12909 | 890 | 16099 | 1110 | 19000 | 1310 | 2 | | |
| 150055 | 190.7 | 722 | 7977 | 550 | 10660 | 735 | 13344 | 920 | 15664 | 1080 | 2 | | |
| 150060 | 226.9 | 859 | 6744 | 465 | 8920 | 615 | 11168 | 770 | 13199 | 910 | 2 | 1 | |
| 150065 | 266.3 | 1008 | 5729 | 395 | 7615 | 525 | 9500 | 655 | 11241 | 775 | 2 | 1 | |
| 150070 | 308.8 | 1169 | 4931 | 340 | 6599 | 455 | 8195 | 565 | 9718 | 670 | 2 | 1 | |
| 150075 | 354.5 | 1342 | 4279 | 295 | 5729 | 395 | 7179 | 495 | 8412 | 580 | 2 | 1 | |
| 150080 | 403.4 | 1527 | 3771 | 260 | 5004 | 345 | 6309 | 435 | 7397 | 510 | | | 1 |
| 150085 | 455.4 | 1724 | 3336 | 230 | 4424 | 305 | 5584 | 385 | 6599 | 455 | | | 1 |
| 150090 | 510.7 | 1933 | 2973 | 205 | 3989 | 275 | 5004 | 345 | 5874 | 405 | | | 1 |
| 150095 | 569.0 | 2154 | 2683 | 185 | 3553 | 245 | 4496 | 310 | 5294 | 365 | | | 1 |
| 150100 | 630.3 | 2386 | 2393 | 165 | 3191 | 220 | 4061 | 280 | 4714 | 325 | | | 2 |
| 150110 | 762.9 | 2888 | 2031 | 140 | 2683 | 185 | 3336 | 230 | 3916 | 270 | | | 2 |
| 150120 | 833.7 | 3156 | 1813 | 125 | 2466 | 170 | 3046 | 210 | 3626 | 250 | | | 2 |
| 150130 | 907.7 | 3436 | 1668 | 115 | 2248 | 155 | 2828 | 195 | 3263 | 225 | | | 2 |
| 150140 | 1235.5 | 4677 | 1233 | 85 | 1668 | 115 | 2031 | 140 | 2393 | 165 | | | 2 |

Kamat Accessories

KSP500

- KSP 500 with 500 mm spray tube
- KSP 500 with 1000 mm spray tube

Part no. 7002580

Part no. 7002581

Technical Data

| | U.S. | Metric |
|-----------------------|----------------|--------------------|
| Max. Working Pressure | 8700 PSI | 600 bar |
| Maximum Capacity | 21.1 GPM | 80 L/min |
| Connection | | 1/2" FBSP |
| Nozzle Connection | | 1/4" MBSP |
| Total Length | 25.6" or 45.3" | 650 mm or 1150 mm* |
| Weight | 6.6-8.8 lbs. | 3-4 kg* |
| Temperature | maximum 302 °F | maximum 150 °C |

*depending on actual model



KSP1500

HP - Gun complete with spray tube 29.5 in. (750 mm)
handle and nozzle holder for insert nozzles
(without hose connector and nozzle)

Part no. 7009209

Technical Data

| | U.S. | Metric |
|-----------------------|---|---------------|
| Max. Working Pressure | 17,400 PSI | 1200 bar |
| Maximum Capacity | 10.6 GPM | 40 L/min |
| Connection | M 26x1.5 (with pressure screw M 26x1.5 and pressure ring M 14x1.5 LH) | |
| Total Length | 39.4" | 1000 mm |
| Weight | 7.5 lbs. | 3.4 kg |
| Temperature | maximum 122 °F | maximum 50 °C |



KSP3000

HP - Gun complete with spray tube - 29.5 in. (750 mm)
and nozzle holder for insert nozzles.
(Supplied without nozzles)

Technical Data

| | U.S. | Metric |
|-----------------------|-----------------|---------------|
| Max. Working Pressure | 43,500 PSI | 3000 baar |
| Maximum Capacity | 10.6 GPM | 40 L/min |
| Total Length | 39.4" | 1000 mm |
| Weight | 6.6 lbs. | 3.0 kg |
| Temperature | maximum 122 °F | maximum 50 °C |
| Connection | M 26x1.5 female | |

Part No. 7018125



K1500 Spray Dump Gun



Part no. 7010442

High Pressure Gun complete with spray tube 29.5 in. (750 mm), handle, hose connector M 24x1.5 DKO, bypass tube 15.7 in. (400 mm) and nozzle holder for insert nozzles

Technical Data

| | U.S. | Metric |
|---|----------------|---------------|
| Max. Working Pressure | 21,750 PSI | 1500 bar |
| Maximum Capacity | 10.6 GPM | 40 L/min |
| Connection | | M 24x1.5 DKO |
| Total Length | 39.4" | 1000 mm |
| Weight (complete) | 7.5 lbs. | 3.4 kg |
| Weight (without spray tube and bypass tube) | 6.8 lbs. | 3.1 kg |
| Temperature | maximum 122 °F | maximum 50 °C |

K3000 Spray Dump Gun



Part no. 7016690

HP - Gun complete with spray tube 29.5 in. (750 mm), handle, hose connector M 14x1.5 LH, bypass tube 15.7 in. (400 mm) and nozzle holder for insert nozzles

Technical Data

| | U.S. | Metric |
|---|---|---------------|
| Max. Working Pressure | 43,500 PSI | 3000 bar |
| Maximum Capacity | 7.9 GPM | 30 L/min |
| Connection | M 26x1.5 female (with pressure ring M 14x1.5 LH and pressure screw M26x1.5) | |
| Total Length | 39.4" | 1000 mm |
| Weight (complete) | 7.5 lbs. | 3.4 kg |
| Weight (without spray tube and bypass tube) | 6.8 lbs. | 3.1 kg |
| Temperature | maximum 122 °F | maximum 50 °C |

Kamat Accessories

- Roto-Lance complete with rotating tube, protection tube, pneumatic drive and initiator (without nozzle head)



Part no. 7029552

Optional Equipment:

-without gun handle

Part no. 7028912



Additional Equipment:

-Shoulder support



Part no. 7009215

Applications

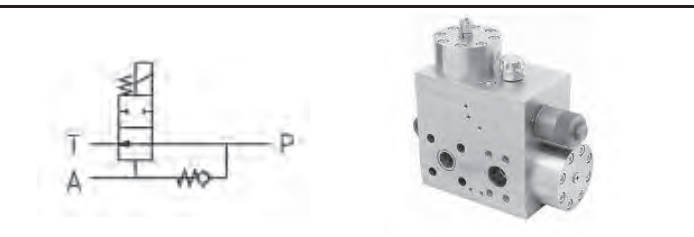
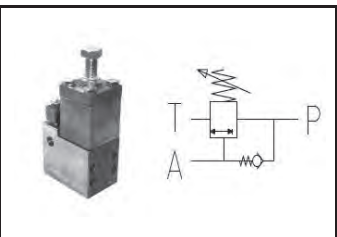
Cleaning of surfaces, cleaning and washing of concrete and stones, removal of concrete and laying bare reinforcements as well as removal of paints and coatings, removal of graffiti, etc.

Technical Data

| | U.S. | Metric |
|-----------------------------|-------------|--|
| Max. Working Pressure: | 50,770 PSI | 3500 bar |
| Max. Capacity: | 13.2 GPM | 50 L/min |
| Pressure Connection: | | M 26x1.5 female (pressure screw & pressure ring available see accessories) |
| Connection for nozzle head: | | M 14x1.5 LH male |
| Total Length: | 39.4" | 1000 mm |
| Weight (complete) | 13.2 lbs. | 6 kg |
| Weight (without handle): | 7.7 lbs. | 3.5 kg |
| Temperature: | max. 194 °F | max. 90 °C |
| Usable Nozzle Heads: | | -see page Z 35-1e |

Pneumatic Drive

| | |
|-----------------------|----------------------------------|
| Speed RPM: | 0 - 1800 RPM |
| Air Connection: | Quick coupling for air hose ID 6 |
| Air Requirement: | 5.0 l/s (filtered and oiled air) |
| Air Working Pressure: | 91.4 PSI 6.3 bar |

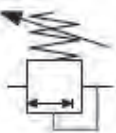
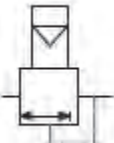
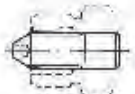
| | | | | | | |
|---|--|-----------------------------|---------------------------------|-----------------------------|---|-------------------------|
| Symbol |  | | | |  | |
| ID | DN 16 | DN 32 | DN 50 | DN 80 | DN 17 | DN 25 |
| Function | Electric | | | | Spring Loaded | |
| Maximum Pressure PSI (bar) | 7250 (500) | | | | 10,150 (700) | |
| Flow GPM (L/min) | 0 - 53 (0 -200) | 53 - 159 (200 - 600) | 159 - 370 (600 - 1400) | 370 - 687 (1400 - 3600) | 0 - 53 (0 -200) | 0 - 92.5 (0 - 350) |
| Inlet Connection | 30x65 mm ø 15 mm | 70x70 mm ø 17 mm | 80x90 mm ø 17 mm | 100x200 mm ø 25 mm | 30x65 mm ø 15 mm | 30x65 mm ø 15 mm |
| Discharge Connection | SAE 3/4" 6000 PSI | SAE 1-1/2" 6000 PSI | SAE 2" 6000 PSI | SAE 2-1/2" 6000 PSI | M 22x1.5 IG - female | M 38x1.5 IG - female |
| Bypass | SAE 1-1/2" 3000 PSI | SAE 2" or 3" 3000 PSI | SAE 2-1/2" or 4" 3000 PSI | SAE 3" or 5" 3000 PSI | 1" BSP IG - female | 1" BSP IG - female |
| Standard Industry | 7024463 | 7015910 | 7023051 | 7026472 | 7005662 | 7024034 |
| Stainless Steel Industry | 7028548 | 7020784 | 7028550 | 7028552 | xxx | xxx |
| CE Ex-ATEX | 7028547 | 7028549 | 7028551 | xxx | xxx | |
| Special Note | Spacer comple for all pilot valves (industry) required For pilot valves (mining) no spacer required | | | | only mechanical | |
| Spacer for assembly of the unloader with the pilot valve | | | | | xxx | |
| Standard | 7016993 | | | | | |
| Stainless Steel | 7020810 | | | | | |
| 3/2 way pilot valve | | | | | | |
| Industry Standard | 24 V DC | | 7016250 | | | |
| | 230 V AC | | 7017455 | | | |
| Industry Ex-ATEX | 24 V DC | | 7026131 | | | |
| | 230 V DC | | xxx | | | |
| Mining Ex-ATEX | 12 V | | 7019030 | | | |

Pressure Limiting Valves

GIANT

Kamat Accessories



| Symbol | Maximum Pressure PSI (bar) | Max. Flow GPM (L/min) | Inlet Connection | Measuring Connection | Bypass | Function | Part No. with ceramic seat and cone | | | | |
|---|--|-----------------------------|--|----------------------|--------|---------------|--|---------|-----------|---------|---------|
| | | | | | | | Standard | Duplex | | | |
|  | 21,750 (1500) 8700 (600) | 105 (400) | 80x50 mm | M26x1.5 | ø 28 | Spring loaded | 7025701 | 7026716 | | | |
| | | | | | | | | | 7026224 | 7026715 | |
|  | 21,750 (1500) 11,600 (800) 4350 (300) | 105 (400) | | | | | | | pneumatic | 7025300 | 7026719 |
| | | | | | | | | | | 7026223 | 7026718 |
| | | | | | | | | | | 7026235 | 7026717 |
| | | | | | | | | | | | |
|  | | | Plug complete for closing the measuring connection | | | | 7026708 | | | | |

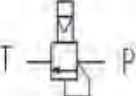

| Symbol | Maximum Pressure PSI (bar) | Max. Flow GPM (L/min) | Inlet Connection | Measuring Connection | Bypass | Function | Part No. with ceramic seat and cone | |
|--------|--|-----------------------------|------------------|----------------------|--------|-----------|--|--------|
| | | | | | | | Standard | Duplex |
| | 6092 (420) | 1215 (4600) | 200x100 mm | 1/2" BSP | ø 125 | pneumatic | 703447 | xxx |
| | plug complete for closing the measuring connection | | | | | | 7000595 + 1060216 | |

Pressure Limiting Valves



Kamat Accessories



| Symbol | Maximum Pressure PSI (bar) | Max. Flow GPM (L/min) | Inlet Connection | Measuring Connection | Bypass IG Female | Function | Part No. with ceramic seat and cone | |
|--|----------------------------------|-----------------------------|--------------------------|-------------------------|------------------------|-----------|---|---------|
| | | | | | | | Standard | Duplex |
|  | 50,763 (3500) | 39.6 (150) | 30 x 65 | M 26x1.5 IG - female | 1" BSP | pneumatic | 7034717* | xxx |
| | | 15.9 (60) | | | | | 7035522 | |
| | 58,015 (4000) | 15.9 (60) | M 26x1.5 IG - female | ----- | | | 7033983* | xxx |
| | | | | | | | 7035521 | xxx |
|  | 50,763 (3500) | 15.9 (60) | 30 x 65 | M 26x1.5 IG - female | | | spring loaded | 7029380 |
| | | | Note: no pressure outlet | | | | | |



Plug complete for closing the measuring connection

7026708

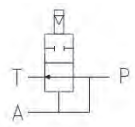

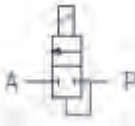
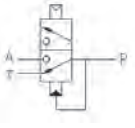
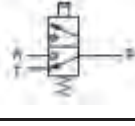
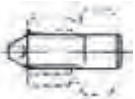
With Inlet Hole (*)



| Symbol | Maximum Pressure PSI (bar) | Max. Flow GPM (L/min) | Inlet Connection | Discharge Connection | Bypass | Function | Part No. with steel seat and cone | |
|--------|----------------------------------|-----------------------------|------------------|----------------------|------------|---------------|---|---------|
| | | | | | | | Standard | Duplex |
| | 8700 (600) | 317 (1200) | 80x90 mm | 2" BSP | 1-1/2" BSP | Spring loaded | 7003776 | 7003804 |
| | 3190 (220) | | | | | pneumatic | 7026200 | 7028077 |
| | 8700 (600) | | | | | | 7003808 | 7003809 |

Kamat Accessories



| Symbol | Max. PSI (bar) | Max. GPM (L/min) | Inlet Connection | Discharge Side Out- let | Bypass | Function | Part no. |
|---|--|------------------------|---------------------|-------------------------------|--------|-----------|----------|
|  | 58015 (4000) | 15.8 (60) | M26 x 1.5 | ----- | | | 7032831 |
| | 50763 (3500) | 39.6 (150) | 30 x 65 mm | M26 x 1.5 | | | 7035397 |
| | | 15.8 (60) | | | | | 7035480* |
| | | | | | | | 7033982* |
| | | | | | | | 7035523 |
|  | 21,750 (1500) | 10.6 (40) | M26 x 1.5 | M26 x 1.5 | ----- | pneumatic | 7034330 |
| | 50763 (3500) | 13.2 (50) | M26 x 1.5 | M26 x 1.5 | ----- | pneumatic | 7035349 |
|  | 21,750 (1500) | 10.6 (40) | M26 x 1.5 | M26 x 1.5 | ----- | electric | 7011424 |
| | 36,250 (2500) | 7.9 (30) | M26 x 1.5 | M26 x 1.5 | ----- | electric | 7011436 |
|  | 50763 (3500) | 13.2 (50) | M26 x 1.5 | M26 x 1.5 | ----- | pneumatic | 7026520 |
|  | 14,500 (1000) | 63.4 (240) | M30 x 1.5 | M30 x 1.5 | ----- | pneumatic | 7003250 |
|  | Plug complete for closing the measuring connection | | | | | | 7026708 |

Rotating Nozzles

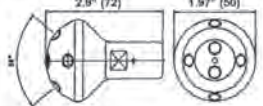
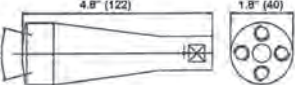
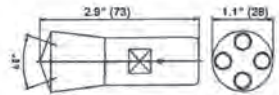
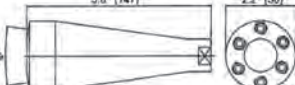
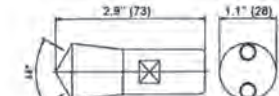
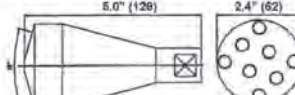
Kamat Accessories



| Part Number | Flow GPM (L/min) | Pressure PSI (bar) | Length inches (mm) | Connection | Weight Complete lbs (kg) |
|-------------|------------------|--------------------|--------------------|------------|--------------------------|
| PRD3500 | 13.2 (50) | 50,750 (3500) | 7.1 (181) | M 26 x 1.5 | 2.2 (1.0) |



Nozzle Heads for Rotating Tools

| Type | Dimensions - in (mm) | Nozzle Configuration | Application | Part No. |
|---|---|--|---|-----------------------------------|
| RLH 1 |  | max. 6 x Type 0987 Standard configuration: 6 x 0.35 mm | Cleaning and removal in areas of difficult access | 7006182 without nozzle inserts |
| RLH 2 |  | max. 4 x Type 0965 Standard configuration: 4 x 0.4 mm | Surface treatment Concrete removal Roughening of concrete surfaces Removal of paint and coatings | 7006381 without nozzle inserts |
| RLH 3 |  | max. 4 x Type 0987 Standard configuration: 4 x 0.4 mm | Removal of difficult coatings Cleaning in areas where access is limited | 7006184 without nozzle inserts |
| RLH 4 |  | max. 6 x Type 0965 Standard configuration: 6 x 0.35 mm | Surface treatment Concrete removal Roughening of concrete surfaces Removal of paint and coatings | 7006428 without nozzle inserts |
| RLH 5 |  | max. 2 x Type 0987 Standard configuration: 2 x 0.6 mm | Removal of difficult coatings Cleaning in areas where access is limited | 7006183 without nozzle inserts |
| RLH 6 |  | max. 8 x Type 0965 Standard configuration: 8 x 0.3 mm | Surface treatment Concrete removal Roughening of concrete surfaces Removal of paint and coatings | 7006943 without nozzle inserts |
| Steel protection cover for nozzle head type RLH 2 | | | | 7007949 |
| Steel protection cover for nozzle head type RLH 4 | | | | 7008082 |

Rotating Nozzles

Kamat Accessories

PRD3500 Air Rotating Nozzle

- Pneumatic drive with air motor
(without nozzle head)



Technical Data

Part Number: 7028896

| | <u>U.S.</u> | <u>Metric</u> |
|-------------------------|--|--------------------|
| Max. Working Pressure: | 50,750 PSI | 3500 bar |
| Max. Flow Rate: | 13.2 GPM | 50 L/min |
| Hose Connection: | | M 26x1.5 IG |
| Nozzle Head Connection: | | M 14 x 1.5 LH male |
| Length: | 8.5" | 217 mm |
| Weight: | 5.5 lbs. | 2.5 kg |
| Usable Nozzle Inserts: | Nozzle Heads for Rotating Tools Literature | |

Pneumatic Drive / Air motor:

| | | |
|----------------------|------------------------|--------------------------------|
| Speed | | 0-1800 RPM |
| Air Required: | 305 in ³ /s | 5.0 l/s (filtered & oiled air) |
| Air Working Pressure | 91.3 PSI | 6.3 bar |
| Power: | | 120W |

Rotating Joint

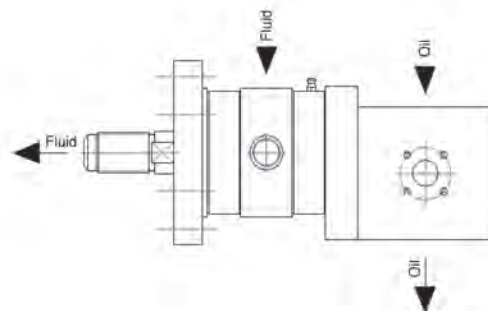
Kamat Accessories

Range of rotating joints available:

- Rotating joints up to 50,750 PSI (3500 bar)
- Rotating joints up to size DN 20
- High speed rotating joints with non-contacting seals
- Rotating joints for contaminated media, with contact seals
- Externally-driven rotating joints; hydraulic pneumatic, electric
- Hose reel rotating joints
- Custom-built rotating joints designed to specification

Technical Data

| Part Number 7008787 | | |
|-----------------------|---|-------------------|
| | U.S. | Metric |
| Maximum Pressure | 21,750 PSI | 1500 bar |
| Nom. Diameter (ID) | 0.8" | 20 mm |
| Connection Inlet | | M 22 x 1.5 female |
| Connection Shaft Side | | M 30 x 2 |
| Length | 7.4" | 188 mm |
| Length with Motor | 12.6" | 320 mm |
| Weight | 16.5 lbs. | 7.5 kg |
| Speed | 0-500 RPM (depending on pressure of rotating joint) | |



Flow Required (based on required torque)

| | | |
|-------------------------|---------------------------|------------------|
| 0.49 in ³ /U | (8 cm ³ /U) | Part No. 7008788 |
| 0.67 in ³ /U | (11 cm ³ /U) | Part No. 7008789 |
| 0.97 in ³ /U | (16 cm ³ /U) | Part No. 7008790 |
| 1.16 in ³ /U | (19 cm ³ /U) | Part No. 7008791 |
| 1.37 in ³ /U | (22.5 cm ³ /U) | Part No. 7008792 |

Maximum Oil Pressure 3,335-2,230 PSI (230-160 bar) (depending on hydraulic motor)

Note

Rotating arms, nozzle holder etc. can be designed to specification

Multi-Operation 2/2 Way Control Valve

Kamat Accessories

Application: These valves are used as control valves for multi-gun operations as well as for hydroforming, testing applications, etc.
Only use with KSP 1500 or KSP 3000 electric or Dump Gun 1500 or 3000 electric

Model: Pilot controlled ball-seat valve

Function: When all valves are closed, the pressure regulating valve (master valve) directs water to bypass at near zero pressure.

Material: All parts coming in contact with fluid medium are stainless steel. Also available in seawater-resistant materials on request.

Control: Pneumatic or electric.

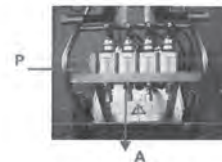
Master Control Valve (7029380): Required for operation (sold separately)



Design Example (left): Portable pneumatic control unit for up to four (4) operators. With four (4) valves, control box, cable reel and pneumatic hose reel.

Technical Data

| | | |
|------------------|--|---------------|
| | U.S. | Metric |
| Flow | 10.6 GPM max. | 40 L/min max. |
| Working Pressure | 21,750 PSI max. | 1500 bar max. |
| Flow Direction | “P” to “A” (See Diagram) | |
| Operation | | |
| Electrical | 24 VDC (Standard) | |
| Pneumatic | (Other Voltages - 220VAC, 12 VDC, explosion proof or ATEX) | |
| Connections | 1x Inlet M 26 x 1.5 female with Discharge M 26 x 1.5 female - One per operator | |



Electric Version 24 VDC

1x Operator Control
2x Operator Control
3x Operator Control
4x Operator Control

Part

70114
70114
70114
70114



Pneumatic Version

1x Operator Control
2x Operator Control
3x Operator Control
4x Operator Control

70107
70111
70111
70110



Cartridge Repair Kit for each valve

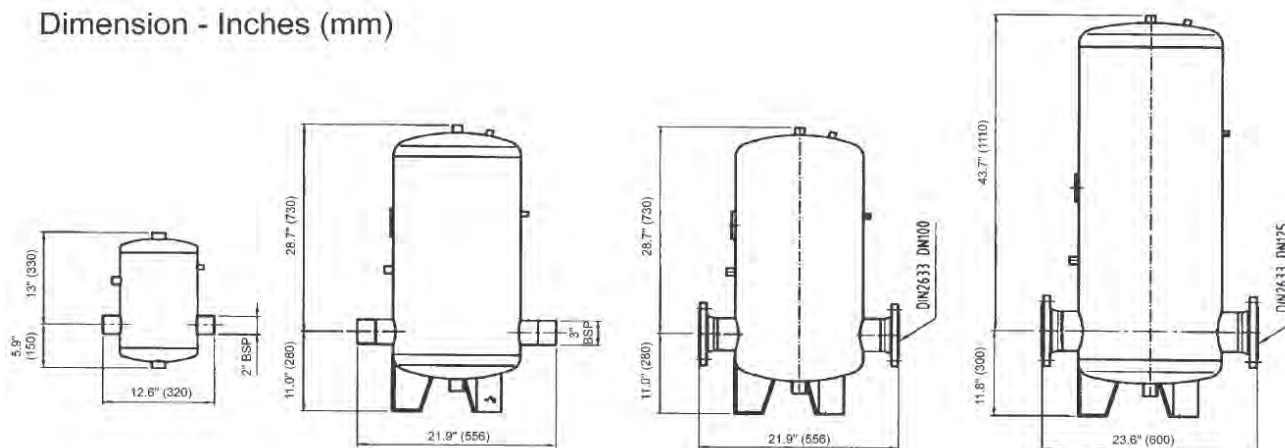
7012459

Kamat Accessories

Inlet Suction Stabilizers

| Type | Flow- GPM (L/ min) | Diameter | Pressure - PSI (Bar) | Temp. - F (C) | Weight - Lbs. (Kg) | Material | Suction Stabilizer Part Number | Complete Part Number |
|------|--------------------------|----------|----------------------------|------------------|-----------------------|--------------------|---|----------------------------|
| I | 31.7 (120) | 2" | 116 (8) | 176 (80) | 33 (15) | Steel, zinc plated | 7006487 | 7006620 |
| | | | | | | Stainless Steel | 7009412 | 7009415 |
| II | 79.3 (300) | 3" | 116 (8) | 176 (80) | 179 (81) | Steel, zinc plated | 1030493 | 1010849 |
| | | | | | | Stainless Steel | 7009413 | 7009416 |
| | 124 (470) | DN 100 | | | | Steel, zinc plated | 7010059 | 7010063 |
| | | | | | | Stainless Steel | 7010061 | 7010065 |
| III | 198 (750) | DN 125 | 116 (8) | 176 (80) | 339 (154) | Steel, zinc plated | 7010060 | 7010064 |
| | | | | | | Stainless Steel | 7010062 | 7010066 |

Dimension - Inches (mm)



Safety Valves

| Max. PSI (bar) | Inlet Port | Bypass Port | Function | Part Number |
|----------------|------------|-------------|---------------|-------------|
| 725 (50) | M 22 x 1.5 | M 22 x 1.5 | Spring Loaded | 7015412 |
| 725 (50) | M 30 x 1.5 | M 22 x 1.5 | Spring Loaded | 7019631 |
| 2900 (200) | M 30 x 1.5 | M 22 x 1.5 | Spring Loaded | 7016461 |
| 7250 (500) | M 30 x 1.5 | M 22 x 1.5 | Spring Loaded | 7004607 |
| 7250 (500) | M 22 x 1.5 | M 22 x 1.5 | Spring Loaded | 7004608 |
| 14,500 (1000) | M 22 x 1.5 | M 22 x 1.5 | Spring Loaded | 7004609 |
| 14,500 (1000) | M 30 x 1.5 | M 22 x 1.5 | Spring Loaded | 7011430 |
| 21,750 (1500) | M 22 x 1.5 | M 22 x 1.5 | Spring Loaded | 7004610 |
| 21,750 (1500) | M 30 x 1.5 | M 22 x 1.5 | Spring Loaded | 7011431 |
| 58,000 (4000) | M 26 x 1.5 | M 22 x 1.5 | Spring Loaded | 7006378 |



Tank Cleaning Nozzle TWK 200/1500 Air

GIANT

Kamat Accessories

Application

The tank cleaning nozzles are ideally suited for a wide range of applications in the chemical, petrochemical, paper and plastics industries.

Applicable as a tool for cleaning tanks, reactors, vessels, as well as pipes of various types.

Description

- Rotor arm positioned three dimensionally
- During the operation the speed and the direction of rotation can be adjusted from the outside
- During the operation the speed and direction of rotation for each axis can be controlled individually from the outside
- Straight lance pipes as nozzle arms
- Simple and easy nozzle arm extension possible



Technical Data

| | U.S. | Metric |
|---|---------------------------------|--------------------------|
| Model - TWK 200-1500 | | |
| Maximum Pressure | 21,750 PSI | 1500 bar |
| Maximum Flow Rate | 52.8 GPM | 200 L/min |
| Model - TWK 340-700 | | |
| Maximum Pressure | 10,150 PSI | 700 bar |
| Maximum Flow Rate | 90 GPM | 340 L/min |
| Common Specifications | | |
| Minimum Man-Hole | 7.9 inches | 200 mm |
| Minimum Tube | 8.7 inches | 220 mm |
| Max. Air Consumption (prefer oiled and filtered) | 33.2 ft ³ /min | 0.94 m ³ /min |
| Maximum Air Pressure | 87 PSI | 6 bar |
| Water Connection* | M 24x1.5 DKOS male | |
| Air Connection* | 4x 1/4" FBSP | |
| Number of Nozzles | 2+2 | |
| Nozzle Type | Straight Jet Insert nozzle, M10 | |
| Weight | 50.1 lbs | 23 kg |
| Maximum Arm Length | 5 ft | 1.5 meters |
| *Upon request, other connection types are available | | |



Well Cleaning Nozzle

Kamat Accessories

Technical data and equipment

| | | |
|---|------------------------------------|----------------|
| Part No. | 1010210 | |
| Max. Working Pressure: | 7250 PSI | 500 bar |
| Max. Flow Rate: | 52.8 GPM | 200 L/min |
| HP-Connection*: | | M 22 x 1.5 DKL |
| *Other pressure connection sizes available on request | | |
| Minimum Pipe (well) | ø 5.5" | ø 140 mm |
| Maximum Quantity of Nozzles: | | 4 |
| Threaded Nozzles Form S | 1/4" BSP Threaded Nozzles - Form S | |
| Length total: | 34.3" | 870 mm |
| Weight: | 46.3. lbs. | 21.0 kg |

Without set of nozzle tube (4 pc.) and distance holder (6 pc.)



Additional:

| For tube ø in (mm) | Set of Nozzle Tube Part No. | Set of distance holder Part No. |
|-----------------------|--------------------------------|------------------------------------|
| 5.9 (150) | xxx | 7028801 |
| 7.9 (200) | 7028809 | 7028802 |
| 9.8 (250) | 7028810 | 7028803 |
| 11.8 (300) | 7028811 | 7028804 |
| 13.8 (350) | 7028812 | 7028805 |
| 15.7 (400) | 7028813 | 7028806 |
| 19.7 (500) | 7028814 | 7028807 |
| 23.6 (600) | 7029531 | 7029523 |
| 31.5 (800) | 7029532 | 7029524 |
| 35.4 (900) | 7029533 | 7029525 |
| 39.4 (1000) | 7028815 | 7028808 |



High Pressure Filter

Kamat Accessories

Design

- Stainless steel housing without filter insert
- Reworkable, metal-to-metal sealing system
- Transparent spray protection
- FDA/GMP suitability

Fluids

- Water, saline and demineralized
- Non-aggressive chemical fluids
- Biotechnological suspensions
- Solutions (e.g. acetone)
- Viscosity up to 2000 mPas



German Patent 10224634 granted and
Foreign Patents applied for

| | | |
|-----------------------|----------|------------------|
| Max. working pressure | 1500 bar | Part No. 7010825 |
| Max. working pressure | 2500 bar | Part No. 7011380 |

Technical Data

| Technical Data | U.S. | (Metric) |
|---|------------|------------|
| Maximum Flow (water) | 13.2 GPM | (50 L/min) |
| Maximum Temperature | 300 °F | (150 °C) |
| Maximum differential pressure | 2175 PSI | (150 bar) |
| Total Length | 8.1" | (205 mm) |
| Outer Diameter | 5.9" | (150 mm) |
| Weight | 32.2 lbs. | (14.6 kg) |
| Connection | M 26 x 1.5 | |
| (autoclave hp-fitting with pressure ring M 14 x 1.5 LH and pressure screw M 26 x 1.5) | | |

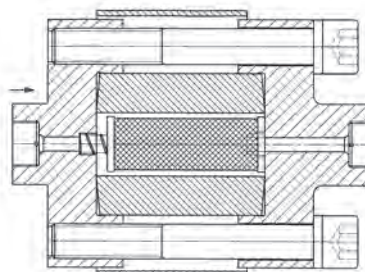
Applications

- High pressure filtration, nozzle and valve protection in process plants and on high pressure jetting installations

Filter inserts

Available, reusable, washable filter inserts in stainless steel

- 10 µm Part No. 7011321
- 25 µm Part No. 7011322
- 50 µm Part No. 7009953
- 100 µm Part No. 7009954
- 200 µm Part No. 7010298



Surface Cleaners

Kamat Accessories

Surface Cleaner 3000 Air

Mobile Surface Cleaner - Pneumatically Driven

Applications

- Cleaning of steel surfaces
- Cleaning of floors and concrete surfaces
- Removal of paints and coatings

Technical Data

| | U.S. | Metric |
|------------------------|----------------------------------|--------------|
| Max. Working Pressure | 43,500 PSI | 3000 bar |
| Max. Capacity | 10.6 GPM | 40 L/min |
| Connection | M 14 x 1.5 LH left female | |
| Working Width | 9.8" | 250 mm |
| Weight | 121.2 lbs. | 55 kg |
| Vacuum Fitting | | 1-1/2" BSP |
| Max. Nozzle Quantity | | 12 |
| Pneumatic Drive | | |
| Speed | | 0 - 1000 RPM |
| Air Connection | Quick coupling for air hose ID 6 | |
| Air Requirement | 1.2 CFM | 5.3 l/s |
| Air Working Pressure | 91 PSI | 6.3 bar |



Wall Cleaner 3000 Air

Pneumatically Driven, Hand-Held Surface Cleaner

Applications

- Cleaning of steel surfaces (e.g. ship hulls and superstructures)
- Cleaning of concrete surfaces
- Removal of paints, graffiti and coatings

Technical Data

| | U.S. | Metric |
|------------------------|----------------------------------|--------------|
| Max. Working Pressure | 43,500 PSI | 3000 bar |
| Max. Capacity | 7.9 GPM | 30 L/min |
| Connection | M 14 x 1.5 LH female | |
| Working Width | 7.9" | 200 mm |
| Weight | 24.3 lbs. | 11 kg |
| Vacuum Fitting | | 1-1/2" BSP |
| Max. Nozzle Quantity | | 12 |
| Pneumatic Drive | | |
| Speed | | 0 - 3000 RPM |
| Air Connection | Quick coupling for air hose ID 6 | |
| Air Requirement | 10.6 CFM | 5.0 l/s |
| Air Working Pressure | 91 PSI | 6.3 bar |

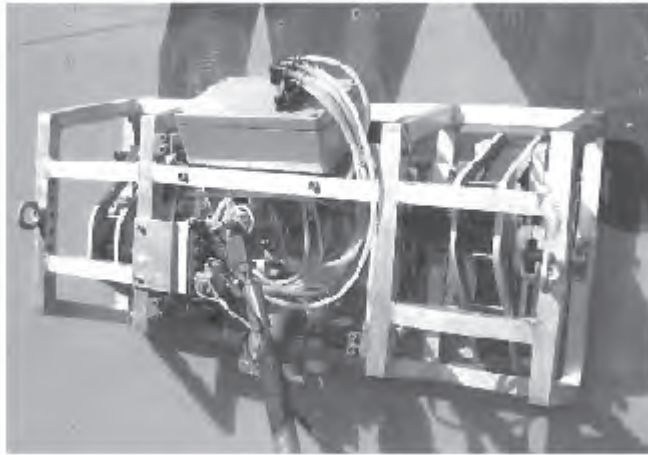


Surface Cleaners

Kamat Accessories

Surface Cleaner 3000

Mobile Surface Cleaner



APPLICATIONS

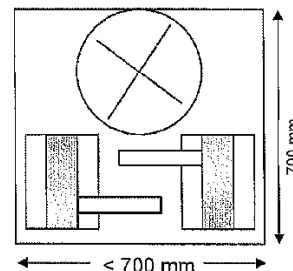
The machine, developed specifically for a wide range of applications in the steel industry, offshore and shipyards, has proven to be an excellent choice for cleaning outer surfaces of tanks, vessels, steel structures and ship hulls.

TECHNICAL DATA

| | |
|---------------------------------|--|
| • Maximum flow | 10.6 GPM (40 l/m) |
| • Max. operating pressure | 43,500 PSI (3000 bar) |
| • Working width | 11.8" (300mm) |
| • Cleaning unit width | 14.2" (360mm) |
| • Dimensions L x W* | 37" x 18.1" (940x460mm)* |
| • Medium to be used | Water |
| • Max. water temperature | 122° F (50° C) |
| • High pressure fitting | M 14 x 1.5 LH |
| • Weight | 143 lbs (65 kg) |
| • Number of nozzles | Max. 12 |
| • Nozzle Inserts (Straight Jet) | XP Type 0965 |
| • Air consumption required | 53 CFM (25 l/sec) (Filtered & oiled air) |
| • Filtration | 5 mm |
| • Min. air pressure required | 87 PSI (6 bar) |
| • Stepless speed adjustment | 0 - 14.8 ft / min.(0 - 4.5 M / min.) (depending on surface) |
| • Control voltage | 24 VDC |

* Also available, upon request, is a frame conversion kit.

Dimensions: 27.6" x 27.6" (700mm x 700mm)



Kamat Accessories

Magnet Crawler Gekko 350**Automatic Surface Cleaner, pneumatically driven**

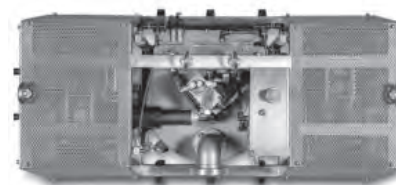
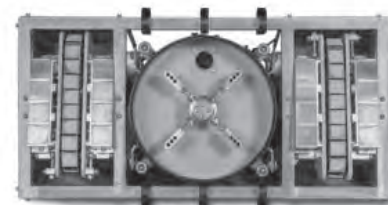
The magnetic Gekko 350 crawler is a compact remote controlled surface cleaner. The rotating cleaner is pneumatically controlled and moves with magnetic tracks ensuring firm attachment to metallic surfaces. It specializes in cleaning and decoating of storage tanks and ship hulls with a maximum operating pressure at 50,750 PSI (3500 bar) and a width of 11.8-13.8 in. (300-350 mm). Thanks to remote steering the user profits from a low-fatigue operation and optimal safety during the process. The Gekko 350 crawler can be further optimized with the addition of an optional suction system, disposing of all wastewaters and keeping pollutants contained and out of the environment.

Industries

- Steel construction
- Offshore
- Ship Industry

Technical Data

| | |
|--------------------------------|--------------------------------|
| Part No.: | 7018909 |
| Max. Flow.: | 10.6 GPM (40 L/min) |
| Max. Pressure: | 43,500 PSI (3000 bar) |
| Cleaning width (dia): | 11.8" to 13.8" (300-350 mm) |
| Swivel Unit Diameter: | 18.1" (460 mm) |
| Length of unit: | 37" (940 mm) |
| Medium used: | Water |
| Maximum Temperature: | 122 °F (50 °C) |
| High Pressure Fitting: | M14 x 1.5 LH |
| Weight: | Approx. 143 lbs (65 kg) |
| Number of Nozzles: | Max. 12 |
| Type of Nozzle Inserts: | Form 0964 |
| Air Flow Required: | 25 l/s |
| Filtration: | 5 microns |
| Minimum Air Pressure Required: | 87 PSI (6 bar) |
| Cleaning Speed: | 0 to 14.8 ft/min (0-4.5 m/min) |
| Control Voltage (Standard): | 24 VDC |



The pneumatically driven rotary joint sets the jetting arms into motion. The speed of the rotation can be set to any speed without steps, all using the remote control. Same applies for the speed of movement of the crawler and the water pressure applied by it, ensuring trouble-free cleaning on uneven surfaces including difficult welds. The surfaces worked on can be oriented in all ways, overhead and vertical applications are tested and possible. In case of slipping, safety ropes can be attached for additional safety.

| Optional | Part No. |
|---|----------|
| Safety guard: Reel with 82 ft (25 m) of cable | 7013586 |
| External power supply - Power Pack, 230 VAC / 24 VDC with 16 ft (5 m) cable and plug | 7019756 |
| Cable reel with 164 ft. (50 m) for surface cleaner Gekko 350 to remote control console | 7019719 |
| Adapter with 164 ft. (50 m) for cable extension with two cable reels with the Gekko 350 to the remote control console | 7020962 |

Vacuum Unit Kamat Accessories

Compact, mobile vacuum device with filter separator and dirty-water return pump in a weather-proof, rugged design and height-adjustable frame.

FOR SUCTION OF FLUIDS AND SOLIDS

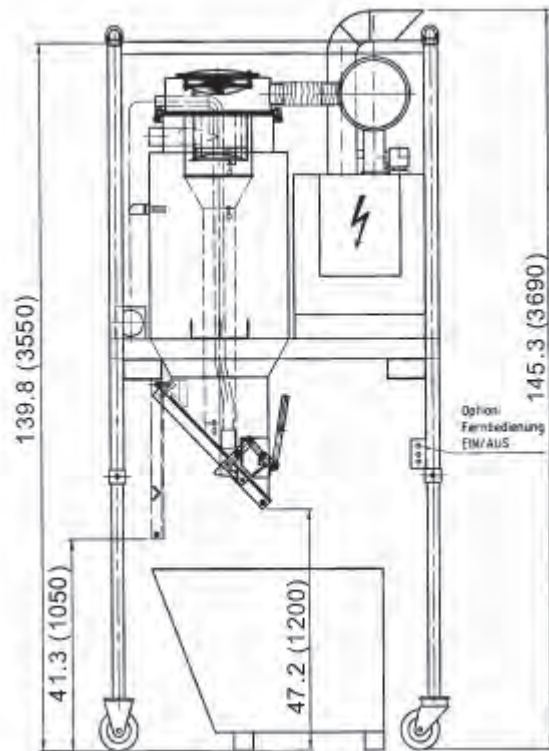
Ideally suited for use with the **XPSHC 2500 & 3000** Surface Cleaners, using hoses up to a maximum distance of 164 ft. (50 m).

Information

- Height-Adjustable supports with fixed and steering rollers, with space below for a 265 gallon (1,000 L) collection container.
- Draining via shuttle valve.
- 100 mm screen filtration for separation of fluids and solids.
- Level indicator for fluids and solids.
- Float valve for return pump - on/off
- 11 kW suction unit with side-channel vacuum pump, vacuum limiter and safety valve.
- Dirty water return pump - approx. 528 gallon/hour (2,000 L/hour) with Stortz D-coupling in outlet, non-return valve and ball valve.
- Suction fitting DN 100 MV / 60K
- Electric controls with outlet - 230V / 50 Hz / 16A
- Supply voltage 400V / 50 Hz (440V / 60 Hz Available)
- Control voltage 24V / 50Hz
- Auxillary contacts for on/off switching via remote control
- Cable reel with 164 ft. (50 m) cable and plug

Optional Equipment

| Part No. | Description |
|----------|---|
| 7014097 | Suction hose DN60 x 32ft. (9.75 m) with connector |
| 7014098 | Coupling piece DN60 for hose connection |
| 7014099 | Suction hose DN50 x 32ft. (9.75 m) |



Part No.: 7014096

Pipe Cleaning Machine TORNADO

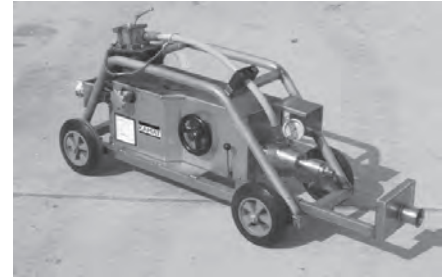
Semi-automatic pipe cleaning machine up to 16,000 PSI (1100 bar)

Applications

Application: Cleaning of fully or partially blocked pipelines in various industries
 Removing: Cement, plastics, bauxite, coke and much more from steel, plastic and concrete pipes, etc.

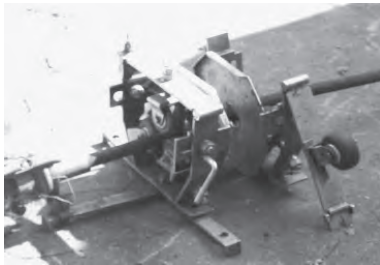
Technical Data

Length: 40" (1016 mm)
 Width: 13" (330 mm)
 Height: 22" (560 mm)
 Weight: 143 lbs. (65 kg)
 Flow: Max. 52.8 GPM (200 L/min)
 Working Pressure: Max. 16,000 PSI (1100 bar)
 Speed: 6-350 rpm
 Air Pressure: 87 PSI (6 bar)
 Air Consumption: 99.9 CFM (2.83 m³/min)
 HP Input: M 24x1.5 DKO-S
 HP Output: M 24x1.5 DKO-S
 Cleaning Pipe: Diameters 1.57" - 59" - max length 984 ft.
 (Diameters 40-1500 mm - max length 300m)



Part No. 7010382

Units for cleaning pipes of other sizes and lengths available upon request.



Design

- Robust stainless steel tubular frame; mobile with 4 plastic wheels with rubber tires
- Infinitely variable two-step gearbox and automatic friction clutch
- High pressure rotating joint DN 12
- Maintenance unit for air supply and pneumatic motor
- High Pressure ball valve for shutting-off and pressure gauge
- Tachometer

Ancillary Equipment

- Advance device PUSHER for direction changes of the hose lines
- Positioning hose guide with spray guard that fits protected hose DN 50 with quick release coupling; useable for a variety of pipes and heat exchanger sizes
- Protection hose DN 50 with quick release coupling
- HP hoses in various widths and lengths with connecting nipples and reducers
- Standard and special nozzles for various applications

Foot Valves and Electric Foot Switch

mechanical and electrical



Technical Data - Foot Valve 1500

| | |
|---------------------------|-----------------------|
| Part Number: | 7032719 |
| Maximum working pressure: | 21,755 PSI (1500 bar) |
| Nominal diameter: | DN 8 |
| Pressure connection: | M26 x 1.5 IG |
| Design: | mechanical |

Additional equipment

| | |
|-------------------------------------|---------|
| Hose connection adaptor M 22 x 1.5: | 7009212 |
| Hose connection adaptor M 24 x 1.5: | 7009213 |
| Initiator for remote control: | 7017928 |

Technical Data - Dump Foot Valve 1500

| | |
|---------------------------|-----------------------|
| Part Number: | 7032733 |
| Maximum working pressure: | 43,500 PSI (3000 bar) |
| Nominal diameter: | DN 6 |
| Pressure connection: | M24 x 1.5 DKO |
| Design: | mechanical |

Additional equipment

| | |
|-------------------------------|---------|
| Initiator for remote control: | 7017928 |
|-------------------------------|---------|

Technical Data - Dump Foot Valve 3000

| | |
|---------------------------|--|
| Part Number: | 7032732 |
| Maximum working pressure: | 43,500 PSI (3000 bar) |
| Nominal diameter: | DN 6 |
| Pressure connection: | autoclave HP-Fitting Pressure ring M 14 x 1.5 LH Pressure screw M 26 x 1.5 |
| Design: | mechanical |

Additional equipment

| | |
|-------------------------------|---------|
| Initiator for remote control: | 7017928 |
|-------------------------------|---------|

Technical Data - Foot Switch

| | |
|--------------|---|
| Part Number: | 7017920 |
| Design: | electrical complete with 2 m cable and plug 6-pole |

Technical Pages

Hose Friction Loss

Hose Friction Loss (Pressure Drop) for Typical Water Flow Rates

| Flow of Water (GPM) | Diameter of Hose (inches) | | | | | | |
|---------------------|--|-----|-----|-----|-----|-----|----|
| | 1/4 | 5/6 | 3/8 | 1/2 | 5/8 | 3/4 | 1 |
| | Pressure Drop (PSI) per 100 ft. of Hose at a fixed flow rate (any pressure*) | | | | | | |
| 0.5 | 16 | 5 | 2 | | | | |
| 1 | 54 | 20 | 7 | 2 | | | |
| 2 | 180 | 60 | 25 | 6 | 2 | | |
| 3 | 380 | 120 | 50 | 13 | 4 | 2 | |
| 4 | | 220 | 90 | 24 | 7 | 3 | |
| 5 | | 320 | 130 | 34 | 10 | 4 | |
| 6 | | | 220 | 52 | 16 | 7 | 1 |
| 8 | | | 300 | 80 | 25 | 10 | 2 |
| 10 | | | | 120 | 38 | 14 | 3 |
| 15 | | | | 250 | 80 | 30 | 7 |
| 20 | | | | | 121 | 50 | 12 |
| 25 | | | | | 200 | 76 | 19 |
| 40 | | | | | 410 | 162 | 42 |
| 60 | | | | | | 370 | 93 |

Values shown are valid at all pressure levels.

*At a fixed flow rate (with a given hose size), the pressure drop across the hose length will be directly proportional. For example, a 50 foot hose will have 1/2 the pressure drop of a 100 foot hose. Pipe or metal tubing (of similar inside diameter) will exhibit a similar pressure drop.

OPTIONAL PUMP CONSTRUCTION CHART

Selected models of Giant pumps are available with optional Materials of construction for special fluid handling. These special construction pumps are identified by a 4-digit suffix following the basic pump model number. The position of the number in the four digit suffix designates the area of the pump that is specially constructed. See the chart and example below.

| 1st digit Manifolds | 2nd digit Internal Wet End | 3rd digit Packing | 4th digit O-Rings |
|------------------------------|--|----------------------|----------------------|
| 1= Aluminum Bronze | 316 Stainless Steel | Viton | Viton |
| 2= N/A | Super Corrosion Resistant Aluminum Bronze | Teflon | N/A |
| 3= Super Corrosion Resistant | Seawater Resistant Materials Aluminum Bronze | High Temp Seals | EPDM |
| 4= 303 Stainless Steel | S.S. Valve Retainers | Teflon/Nitrile | Kalrez |
| 5= 316 Stainless Steel | Duplex Steel | Rope Packing | Paraflour |
| 6= Duplex Steel | Ceramic | UHMPE | N/A |
| 7= N/A | Hastelloy | N/A | Isolast |

For example, a P56-1111= P56 pump with an aluminum bronze manifold, 316 S.S. Internal wet end, viton packing and viton o-rings.

Common Equations/Duty Cycle

| | |
|--------------------------------------|--|
| To find required input power: | $P \text{ (HP)} = \frac{p \text{ (PSI)} \times q \text{ (GPM)}}{1457}$ |
| To find HP: | $\text{(HP)} = \frac{\text{Torque (in.-lbs.)} \times \text{RPM}}{1457}$ |
| To find Pitch Diameter Motor Pulley: | $\frac{\text{RPM pump} \times \text{Pitch Diameter Pump Pulley}}{\text{RPM Motor}}$ |
| To find Pitch Diameter Pump Pulley: | $\frac{\text{RPM motor} \times \text{Pitch Diameter Motor Pulley}}{\text{RPM Motor}}$ |
| To Find the RPM of Motor: / | $\frac{\text{RPM of pump} \times \text{Pitch Diameter Pump Pulley}}{\text{Pitch Diameter of Pump Pulley}}$ |
| To find the RPM of Pump: | $\frac{\text{RPM of motor} \times \text{Pitch Diameter Motor Pulley}}{\text{Pitch Diameter of Pump Pulley}}$ |

Determining Duty Cycle of Pumps

| | |
|---------------|--|
| Continuous: | 8 to 24 hours per day |
| Light: | 3 to 8 hours per day |
| Intermittent: | Up to 3 hours per day |
| Cyclic: | 30 seconds loaded out of every 3 minutes |

Technical Pages

Nozzle Rating Chart



Oriface Size

| | 400 PSI | 500 PSI | 600 PSI | 700 PSI | 800 PSI | 1000 PSI | 1250 PSI | 1500 PSI | 2000 PSI | 2500 PSI | 3000 PSI | 4000 PSI | 5000 PSI | 6000 PSI | 7000 PSI |
|------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 03.0 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.5 | 1.6 | 1.8 | 2.1 | 2.3 | 2.5 | 3.0 | 3.3 | 3.6 | 3.9 |
| 03.5 | 1.1 | 1.2 | 1.4 | 1.5 | 1.6 | 1.8 | 2.0 | 2.1 | 2.5 | 2.8 | 3.0 | 3.5 | 3.9 | 4.3 | 4.6 |
| 04.0 | 1.2 | 1.4 | 1.5 | 1.7 | 1.8 | 2.0 | 2.2 | 2.4 | 2.8 | 3.1 | 3.5 | 4.0 | 4.5 | 4.9 | 5.3 |
| 04.5 | 1.4 | 1.5 | 1.7 | 1.8 | 2.0 | 2.2 | 2.5 | 2.7 | 3.1 | 3.5 | 3.8 | 4.5 | 5.0 | 5.5 | 5.9 |
| 05.0 | 1.5 | 1.8 | 1.9 | 2.1 | 2.2 | 2.5 | 2.7 | 3.1 | 3.5 | 3.9 | 4.3 | 5.0 | 5.6 | 6.1 | 6.6 |
| 05.5 | 1.7 | 1.9 | 2.1 | 2.3 | 2.5 | 2.8 | 3.0 | 3.4 | 3.9 | 4.3 | 4.8 | 5.5 | 6.2 | 6.7 | 7.3 |
| 06.0 | 1.8 | 2.1 | 2.3 | 2.5 | 2.7 | 3.0 | 3.3 | 3.7 | 4.2 | 4.7 | 5.2 | 6.0 | 6.7 | 7.3 | 7.9 |
| 06.5 | 2.0 | 2.3 | 2.5 | 2.7 | 2.9 | 3.3 | 3.6 | 4.0 | 4.6 | 5.1 | 5.6 | 6.5 | 7.3 | 8.0 | 8.6 |
| 07.0 | 2.2 | 2.5 | 2.7 | 2.9 | 3.1 | 3.5 | 3.9 | 4.3 | 4.9 | 5.5 | 6.1 | 7.0 | 7.8 | 8.6 | 9.3 |
| 07.5 | 2.3 | 2.7 | 2.9 | 3.1 | 3.4 | 3.8 | 4.1 | 4.6 | 5.3 | 5.9 | 6.5 | 7.5 | 8.4 | 9.2 | 9.9 |
| 08.0 | 2.5 | 2.8 | 3.1 | 3.3 | 3.6 | 4.0 | 4.4 | 4.9 | 5.7 | 6.3 | 6.9 | 8.0 | 8.9 | 9.8 | 10.6 |
| 08.5 | 2.6 | 3.0 | 3.3 | 3.6 | 3.8 | 4.3 | 4.7 | 5.2 | 6.0 | 6.7 | 7.4 | 8.5 | 9.5 | 10.4 | 11.2 |
| 09.0 | 2.8 | 3.2 | 3.5 | 3.8 | 4.0 | 4.5 | 5.0 | 5.5 | 6.4 | 7.1 | 7.8 | 9.0 | 10.1 | 11.0 | 11.9 |
| 10.0 | 3.1 | 3.5 | 3.9 | 4.2 | 4.5 | 5.0 | 5.5 | 6.1 | 7.1 | 7.9 | 8.7 | 10.0 | 11.2 | 12.2 | 13.2 |
| 12.5 | 3.9 | 4.4 | 4.8 | 5.2 | 5.6 | 6.3 | 6.9 | 7.7 | 8.8 | 9.8 | 10.8 | 12.5 | 14.0 | 15.3 | 16.5 |
| 15.0 | 4.7 | 5.3 | 5.8 | 6.3 | 6.7 | 7.5 | 8.3 | 9.2 | 10.6 | 11.8 | 12.9 | 15.0 | 16.8 | 18.4 | 19.8 |

To Calculate Nozzle Diameter:

$$d \text{ (mm)} = 4\sqrt{\frac{2.77 \times Q^2}{p \text{ (bar)}}}$$

To Calculate Nozzle #:

$$\text{Nozzle \#} = \text{GPM} \sqrt{\frac{4000}{\text{PSI}}}$$

To Calculate Reaction Force, lbs.:

$$\text{Reaction Force, lbs.} = \frac{\text{GPM} \sqrt{\text{PSI}}}{18.92}$$

To Calculate GPM:

$$\text{GPM} = \text{nozzle \#} \sqrt{\frac{4000}{\text{PSI}}}$$

To Calculate PSI:

$$\text{PSI} = \left(\frac{\text{GPM}}{\text{noz \#}} \right)^2 \times 4000$$

Giant Industries Limited Warranty

Giant Industries, Inc. pumps and accessories are warranted by the manufacturer to be free from defects in workmanship and material as follows:

1. For portable pressure washers and car wash applications, the discharge manifolds will never fail, period. If they ever fail, we will replace them free of charge. Our other pump parts, used in portable pressure washers and in car wash applications, are warranted for five years from the date of shipment for all pumps used in NON-SALINE, clean water applications.
2. One (1) year from the date of shipment for all other Giant industrial and consumer pumps.
3. Six (6) months from the date of shipment for all rebuilt pumps.
4. Ninety (90) days from the date of shipment for all Giant accessories.

This warranty is limited to repair or replacement of pumps and accessories of which the manufacturer's evaluation shows were defective at the time of shipment by the manufacturer. The following items are NOT covered or will void the warranty:

1. Defects caused by negligence or fault of the buyer or third party.
2. Normal wear and tear to standard wear parts.
3. Use of repair parts other than those manufactured or authorized by Giant.
4. Improper use of the product as a component part.
5. Changes or modifications made by the customer or third party.
6. The operation of pumps and or accessories exceeding the specifications set forth in the Operations Manuals provided by Giant Industries, Inc.

Liability under this warranty is on all non-wear parts and limited to the replacement or repair of those products returned freight prepaid to Giant Industries which are deemed to be defective due to workmanship or failure of material. A Returned Goods Authorization (R.G.A.) number and completed warranty evaluation form is required prior to the return to Giant Industries of all products under warranty consideration. Call (419)-531-4600 or fax (419)-531-6836 to obtain an R.G.A. number.

Repair or replacement of defective products as provided is the sole and exclusive remedy provided hereunder and the MANUFACTURER SHALL NOT BE LIABLE FOR FURTHER LOSS, DAMAGES, OR EXPENSES, INCLUDING INCIDENTAL AND CONSEQUENTIAL DAMAGES DIRECTLY OR INDIRECTLY ARISING FROM THE SALE OR USE OF THIS PRODUCT.

The limited warranty set forth herein is in lieu of all other warranties or representation, express or implied, including without limitation any warranties or merchantability or fitness for a particular purpose and all such warranties are hereby disclaimed and excluded by the manufacturer.

RETURNED GOODS POLICY

Credit for any merchandise to be returned is subject to approval from Giant Industries. Credit will be issued to the original purchaser only and will be applied directly to your account. Under no circumstances will credits be given on a cash basis. Credit will be based upon the price of the merchandise, less the given discount at the time of purchase.

TERMS:

1. Any pump, part or accessory may be returned up to 45 days from the date of shipment with no restocking charge, providing the product is in good condition and has not been used or damaged.
2. Merchandise returned between 45 days and one year, providing the total is below \$2500, will be subject to a 25% restocking charge. For larger dollar amounts, a negotiable restocking charge may be assessed.
3. We regret the fact that elastomers and obsolete parts will not be accepted for credit beyond the 45 day period (as stated in item #1).
4. Giant Industries reserves the right to amend or cancel any or all portions of this policy at any time.

Terms and Conditions

- All prices subject to change without notice. ■ Minimum invoice: \$25. ■ Payment Terms: 2% 10 Net 30 with prior credit approval.
- Late Penalty Charge- 1-1/2% monthly interest penalty will be assessed on all due accounts. ■ Method of Shipment- All orders will be shipped F.O.B. Toledo, Ohio. Orders without specific shipping instructions will be shipped by the most efficient method possible.
- Drop Shipments- Giant Industries, Inc. will not drop-ship orders as a normal course of business. Orders requiring emergency rush shipment will be drop-shipped under the following conditions:
 1. No C.O.D. shipment
 2. \$25 Net Minimum Invoice
 3. Only Accounts with established credit will be considered for emergency drop shipments.
 4. A \$10 invoice up charge will be assessed for drop shipments.

