

Parts List - GP8155A-180, GP8160A-180 & GP8165A-180

| Item | Part | Description | Qty | Item | Part | Description | Qty |
|------|-----------|------------------------------------|-----|--------|------------|--|-----|
| 1 | 05651-180 | Crankcase for Reverse Gear | 1 | 45 | 05119 | Seal Tension Spring, GP8165 | 3 |
| 2 | 06893 | Oil Filler Plug Assembly with Vent | 1 | 49 | 05072 | Stud Bolt | 8 |
| 3 | 05652 | Rear Foot for Crankcase | 2 | 49A | 05073 | Hexagon Nut | 8 |
| 4 | 05653 | Front Foot for Crankcase | 2 | 50 | 05074 | Valve Casing | 1 |
| 5 | 05654 | Hexagon Socket Screw | 4 | 50A | 13162 | Centering Stud | 2 |
| 6 | 05655 | Hexagon Socket Screw | 4 | 50B | 05075 | Discharge Casing | 1 |
| 7 | 05381 | Plug, 3/8" for Oil Dipstick | 1 | 51 | 04186 | Suction Valve Assembly | 3 |
| 8 | 04185 | Oil Dipstick Assembly | 1 | 51A | 04166 | Spring Tension Cap | 3 |
| 9 | 01009 | O-Ring | 1 | 51B | 05078 | Suction Valve Seat | 3 |
| 10 | 05657 | Plug, M33 X 1.5 | 1 | 51C | 05079 | Valve Plate | 3 |
| 11 | 07102 | O-Ring | 1 | 51D | 07658 | O-Ring | 3 |
| 12 | 12256 | Plug, 3/8" BSP | 3 | 51E | 05080 | Valve Spring | 3 |
| 13 | 22929 | Copper Washer | 4 | 52 | 04188 | Discharge Valve Assembly | 3 |
| 14 | 05036 | Bearing Cover Closed | 1 | 52A | 04166 | Spring Tension Cap | 3 |
| 16 | 05037 | O-Ring | 1 | 52B | 05084 | Discharge Valve Seat | 3 |
| 17 | 05038 | Hexagon Socket Screw, M12 | 8 | 52C | 05079 | Valve Plate | 3 |
| 18 | 05039 | Spring Ring | 8 | 52D | 06258 | O-Ring | 6 |
| 19 | 05765 | Flange | 1 | 52E | 05080 | Valve Spring | 3 |
| 19A | 05766 | Hexagon Socket Screw | 6 | 56 | 05085 | Discharge Valve Adaptor | 3 |
| 20 | 05659 | Tapered Roller Bearing | 1 | 56A | 06258 | O-Ring | 3 |
| 21 | 05658 | Tapered Roller Bearing | 1 | 57 | 05086 | Pressure Spring | 3 |
| 21A | 05042 | Shim, 0.1 mm | 1-3 | 57A | 07210-0100 | Pressure Spring | 3 |
| 21B | 05043 | Shim, 0.5 mm | 1-3 | 58 | 05087 | Hexagon Socket Screw | 12 |
| 22 | 05741 | Crankshaft For Turned Gear | 1 | 59 | 07109 | Plug, 1/2" BSP | 4 |
| 23 | 05661 | Fitting Key | 1 | 59A | 06272 | Copper Seal | 5 |
| 24 | 05047 | Connecting Rod Assembly | 3 | 59B | 03696 | Magnetic Plug, 1/2" BSP | 1 |
| 25 | 05048 | Crosshead c/w Plunger | 3 | 60 | 06909 | Plug, 1-1/4" BSP | 1 |
| 28 | 05049 | Crosshead Pin | 3 | 61 | 05088 | Plug, 3" BSP | 1 |
| 29 | 05051 | Hexagon Screw | 6 | 62 | 05302 | Plug, 1/4" BSP | 6 |
| 29A | 07408 | Hexagon Nut | 2 | 62A | 06934 | Copper Gasket | 6 |
| 29B | 05383 | Bracket 2 for Cooling Hose | 2 | 66 | 03697 | Gear Cover | 1 |
| 29C | 05662 | Support Clamp | 2 | 66A | 05943 | Oil Sight Glass Assembly | 1 |
| 29D | 05381 | Bracket 1 for Cooling Hose | 1 | 67 | 08484 | Hexagon Screw | 11 |
| 30 | 03802 | Cover Plate | 1 | 67A | 08041 | Washer | 11 |
| 30A | 05051 | Hexagon Screw | 5 | 68 | 03304 | Cylinder Pin | 2 |
| 30C | 08280 | Washer | 9 | 69 | 04171A | Gear Wheel Set (1500 RPM=2.6) | 1 |
| 30D | 05050 | Splash Cover | 1 | 69 | 04170A | Gear Wheel Set (1800 RPM=3.1) | 1 |
| 30E | 03803 | Cover Seal | 2 | 69 | 05767A | Gear Wheel Set (2200 RPM=3.8) | 1 |
| 31 | 07623 | Eye Bolt | 4 | 69 | 05666A | Gear Wheel Set (2600 RPM=4.5) | 1 |
| 32 | 05058 | Radial Shaft Seal | 3 | 70 | 07614 | Fitting Key | 1 |
| 32A | 03118 | Oil Scraper | 3 | 71 | 04571 | Shim | 1 |
| 33 | 03119 | Seal Retainer | 3 | 72 | 05667 | Hexagon Screw | 1 |
| 33A | 05056 | O-Ring | 3 | 73 | 05428 | Shaft Seal Ring for Gear | 1 |
| 33B | 05054 | Clip Ring | 3 | 73A | 03698 | Washer | 1 |
| 33C | 05059 | Fitting Disc | 3 | 74 | 05669 | Self-Aligning Roller Bearing | 1 |
| 34 | 05060 | Oil Shield | 3 | 75 | 03699 | Roller Bearing | 1 |
| 36A | 05063 | Plunger Pipe Cover GP8160/65 | 3 | 75A | 03670 | Fitting Disc | 1 |
| 36B | 05280 | Plunger, GP8155 | 3 | 75B | 03700 | Clip Ring | 1 |
| 36B | 05061 | Plunger, GP8160 | 3 | 75C | 03701 | Clip Ring | 1 |
| 36B | 05115 | Plunger, GP8165 | 3 | 76 | 03309 | Gear Seal | 1 |
| 36C | 05062 | Tension Screw | 3 | 79 | 07662 | Valve Puller (Not Shown) | 1 |
| 36D | 07665 | Copper Washer | 3 | 78 | 03790 | Oil Cooler Assembly (K1 - K18) | 1 |
| 36E | 06900 | Centering Sleeve | 3 | K1 | 03705 | Stainless Steel Tubing | 1 |
| 38 | 05283 | Seal Case, GP8155 | 3 | K2 | 03791 | Seal for Gear Cover | 1 |
| 38 | 05064 | Seal Case, GP8160, GP8165 | 3 | K3 | 03792 | Gear Cover | 1 |
| 38A | 13286 | O-Ring, GP8155 | 6 | K4 | 03710 | Clamping Screw | 2 |
| 38A | 06667 | O-Ring, GP8160, GP8165 | 6 | K5 | 22706 | Hexagon Socket Screw | 8 |
| 38B | 05281 | Support Ring, GP8155 Only | 6 | K6 | 06725 | Spring Washer | 8 |
| 39 | 05275 | Seal Sleeve, GP8155 | 3 | K7 | 05030 | Connection for Oil Cooler | 1 |
| 39 | 05065 | Seal Sleeve, GP8160 | 3 | K8 | 06272 | Copper Seal | 5 |
| 39 | 05116 | Seal Sleeve, GP8165 | 3 | K9 | 07109 | Plug, 1/2" BSP | 1 |
| 39A | 05066 | O-Ring | 3 | K10 | 05031 | Connecting Branch | 1 |
| 40 | 07723 | Seal Ring, GP8155 | 3 | K11 | 05032 | U-Joint Connector c/w Nut | 3 |
| 40 | 05067 | Seal Ring, GP8160 | 3 | K12 | 05033 | Hose for Cooler | 2 m |
| 40 | 06996 | Seal Ring, GP8165 | 3 | K13 | 05402 | Hose Clamp | 4 |
| 41 | 05276 | Pressure Ring, GP8155 | 3 | K14 | 05403 | Hose Guard | 2 m |
| 41 | 05068 | Pressure Ring, GP8160 | 3 | K15 | 05404 | Hose Coupling Nut | 1 |
| 41 | 05117 | Pressure Ring, GP8165 | 3 | K16 | 05405 | Flat Gasket | 4 |
| 42 | 05277 | Sleeve, GP8155 | 9 | K17 | 03706 | Hose Plate for Cooler | 1 |
| 42 | 05069 | Sleeve, GP8160 | 9 | K18 | 03707 | Reduction Nipple | 2 |
| 42 | 06997 | Sleeve, GP8165 | 9 | 05760B | | Gearend Assembly (2200 RPM) (1-34, 66-81) | |
| 43 | 05278 | Sleeve Support Ring, GP8155 | 3 | 05606 | | Manifold Assembly (50-62A w/o 52A) | |
| 43 | 05070 | Sleeve Support Ring, GP8160 | 3 | 05208 | | Plunger Replacement Kit, GP8155 (34A-45) | |
| 43 | 05118 | Sleeve Support Ring, GP8165 | 3 | 05207 | | Plunger Replacement Kit, GP8160 (34A-45) | |
| 45 | 05279 | Seal Tension Spring, GP8155 | 3 | 05209 | | Plunger Replacement Kit, GP8165 (34A-45) | |
| 45 | 05071 | Seal Tension Spring, GP8160 | 3 | | | | |

| Torque Specifications GP8155A-180, GP8160A-180, GP8165A-180 | | | |
|--|--------------------------------------|--------------------------------|------------------------------|
| Item | Description | Tool Needed/Lubrication | Torque - Ft.-lbs (Nm) |
| 1 | Crankcase | Molycote Cu-Paste | |
| 17 | Hexagon Socket Screw | 10mm Allen Wrench | 64 (87) |
| 24 | Connecting Rod Hex. Hd. Socket Screw | 8mm Allen Wrench | 37 (50) |
| 32 | Radial Shaft Seal | Loctite 403 | |
| 33B | Clip Ring | Industrial Snap Ring Pliers | |
| 36C | Tension Screw | 19mm Socket/Loctite 243 | 30 (40) |
| 49 | Stud Bolt | Loctite 243 | |
| 49A | Hexagon Nut (Manifold) | 30mm Socket | 265 (360) |
| 51 | Suction Valve Assembly | Valve Puller (p/n 07662) | |
| 51B | Suction Valve Seat | Molycote Cu-Paste | |
| 52 | Discharge Valve Assembly | Valve Puller (p/n 07662) | |
| 52B | Discharge Valve Seat | Molycote Cu-Paste | |
| 58 | Hexagon Socket Screw | 12mm Allen Wrench/Loctite 243 | 132 (180) |
| 67 | Hexagon Screw | | 18.4 (25) |
| 72 | Hexagon Screw | | 30 (40) |
| K4 | Hexagon Hd Cntrsnc Screw | | 11 (15) |
| K5 | Hexagon Socket Screw | 8mm Allen Wrench | 33 (45) |
| K9 | Plug, 1/2" SP | | 59 (80) |

Pump Repair Kits - GP8155A-180, GP8160A-180, GP8165A-180

Plunger Packing Kits

GP8155 - # 09616

| Item | Part # | Description | Qty. |
|-------------|---------------|--------------------|-------------|
| 38A | 13286 | O-Ring | 6 |
| 38B | 05281 | Support Ring | 6 |
| 39A | 05066 | O-Ring | 3 |
| 40 | 07723 | Seal Ring | 3 |
| 42 | 05277 | Sleeve | 9 |

GP8160 - # 09617

| Item | Part # | Description | Qty. |
|-------------|---------------|--------------------|-------------|
| 38A | 06667 | O-Ring | 6 |
| 39A | 05066 | O-Ring | 3 |
| 40 | 05067 | Seal Ring | 3 |
| 42 | 05069 | Sleeve | 9 |

GP8165 - # 09586

| Item | Part # | Description | Qty. |
|-------------|---------------|--------------------|-------------|
| 38A | 06667 | O-Ring | 6 |
| 39A | 05066 | O-Ring | 3 |
| 40 | 06996 | Seal Ring | 3 |
| 42 | 06997 | V-Sleeve | 9 |

Valve Kits

Inlet Valve Kit - #09587

| Item | Part # | Description | Qty. |
|-------------|---------------|----------------------|-------------|
| 51 | 04186 | Inlet Valve Assembly | 3 |
| 56A | 06258 | O-Ring | 3 |

Discharge Valve Kit - #09588

| Item | Part # | Description | Qty. |
|-------------|---------------|--------------------------|-------------|
| 52 | 04188 | Discharge Valve Assembly | 3 |
| 56A | 06258 | O-Ring | 3 |

Oil Seal Kit

#09584A

| Item | Part # | Description | Qty. |
|-------------|---------------|--------------------|-------------|
| 32 | 05058 | Radial Shaft Seal | 3 |
| 32A | 03118 | Oil Scraper | 3 |
| 33 | 03119 | Seal Retainer | 3 |
| 33A | 05056 | O-Ring | 3 |