

- Anodized Aluminum Crank Case
- Nickel-Plated Manifold
- Stainless Steel Check Valves
- Heavy Duty Bronze Connecting Rods
- Heavy Duty Roller Bearings
- 2-1/2" BSP-F Inlet. 1-1/4" BSP-F Outlet
- Max Fluid Temp, 160°F

### HXR Series Plunger Pumps

HXR Series industrial duty plunger pumps are rated at 32.9 to 104.4 GPM and pressures up to 4350 PSI.

Gear reduction models are available in 1500, 1800 or 2200 RPM models with a 50mm solid, keyed shaft.

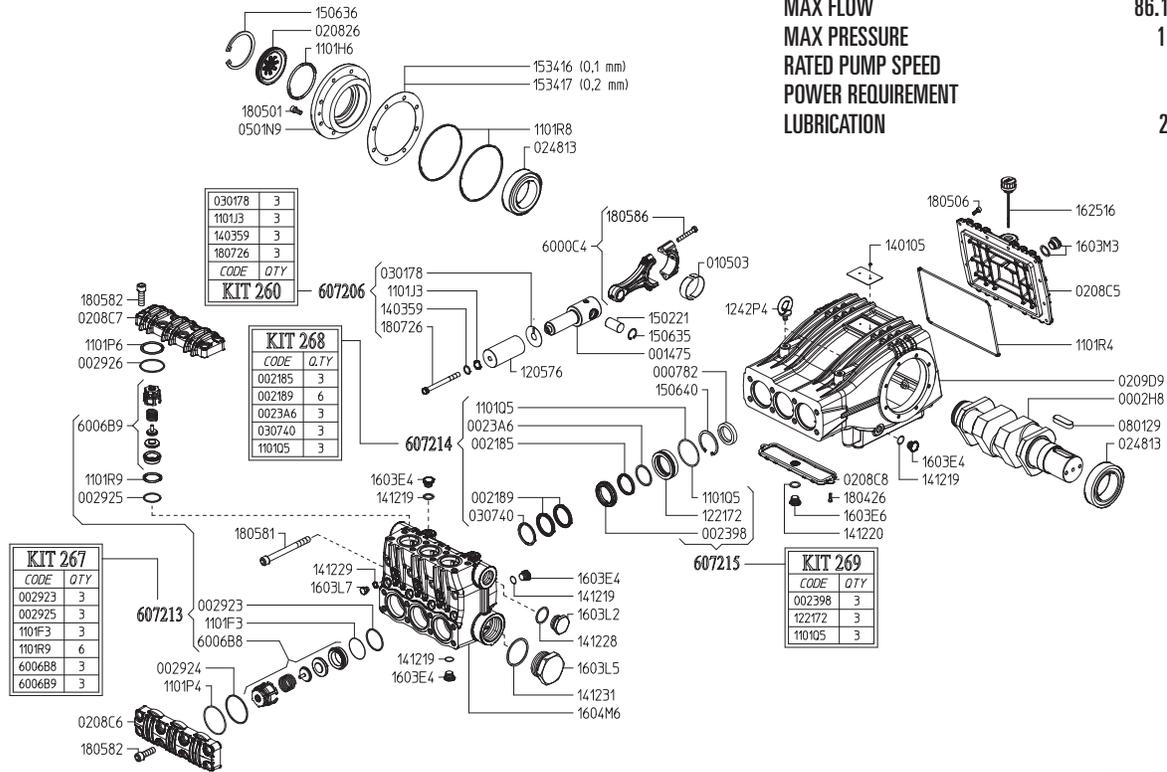
Applications include sewer jetting, hydro-excavation, fire fighting, mining and street cleaning.

|                    | Model            | Flow  |       | Pressure |     | Plunger Dia. | Crankshaft |      | Power      | Seal Kit | Valve Kit | Wt.       |
|--------------------|------------------|-------|-------|----------|-----|--------------|------------|------|------------|----------|-----------|-----------|
|                    |                  | GPM   | l/min | PSI      | bar |              | Stroke     | Code |            |          |           |           |
| 1800 RPM           | HXR1-D 135/300 R | 32.9  | 124.5 | 4350     | 300 | 32mm         | 70.0mm     | 35   | 95.8 EBHP  | 6700.09  | 6072.03   | 367.5 lbs |
|                    | HXR1-D 160/240 R | 42.9  | 162.5 | 3480     | 240 | 36mm         | 70.0mm     | 35   | 100.0 EBHP | 6700.10  | 6072.03   | 367.5 lbs |
|                    | HXR1-D 210/200 R | 54.4  | 206   | 2900     | 200 | 40mm         | 70.0mm     | 35   | 105.7 EBHP | 6700.07  | 6072.13   | 367.5 lbs |
| 2.238:1 Gear Ratio | HXR1-D 270/160 R | 68.7  | 260   | 2320     | 160 | 45mm         | 70.0mm     | 35   | 106.8 EBHP | 6700.08  | 6072.13   | 367.5 lbs |
|                    | HXR1-D 330/130 R | 86.1  | 326.0 | 1885     | 130 | 50mm         | 70.0mm     | 35   | 108.7 EBHP | 6072.14  | 6072.13   | 367.5 lbs |
|                    | HXR1-D 400/100 R | 104.4 | 395.1 | 1450     | 100 | 55mm         | 70.0mm     | 35   | 101.3 EBHP | 6072.16  | 6072.13   | 367.5 lbs |



**MAX FLOW**  
**MAX PRESSURE**  
**RATED PUMP SPEED**  
**POWER REQUIREMENT**  
**LUBRICATION**

**86.1 GPM / 326 L/MIN**  
**1885 PSI / 130 BAR**  
**1800 RPM**  
**108.7 HP ELECTRIC**  
**237 OZ 85W-90 OIL**

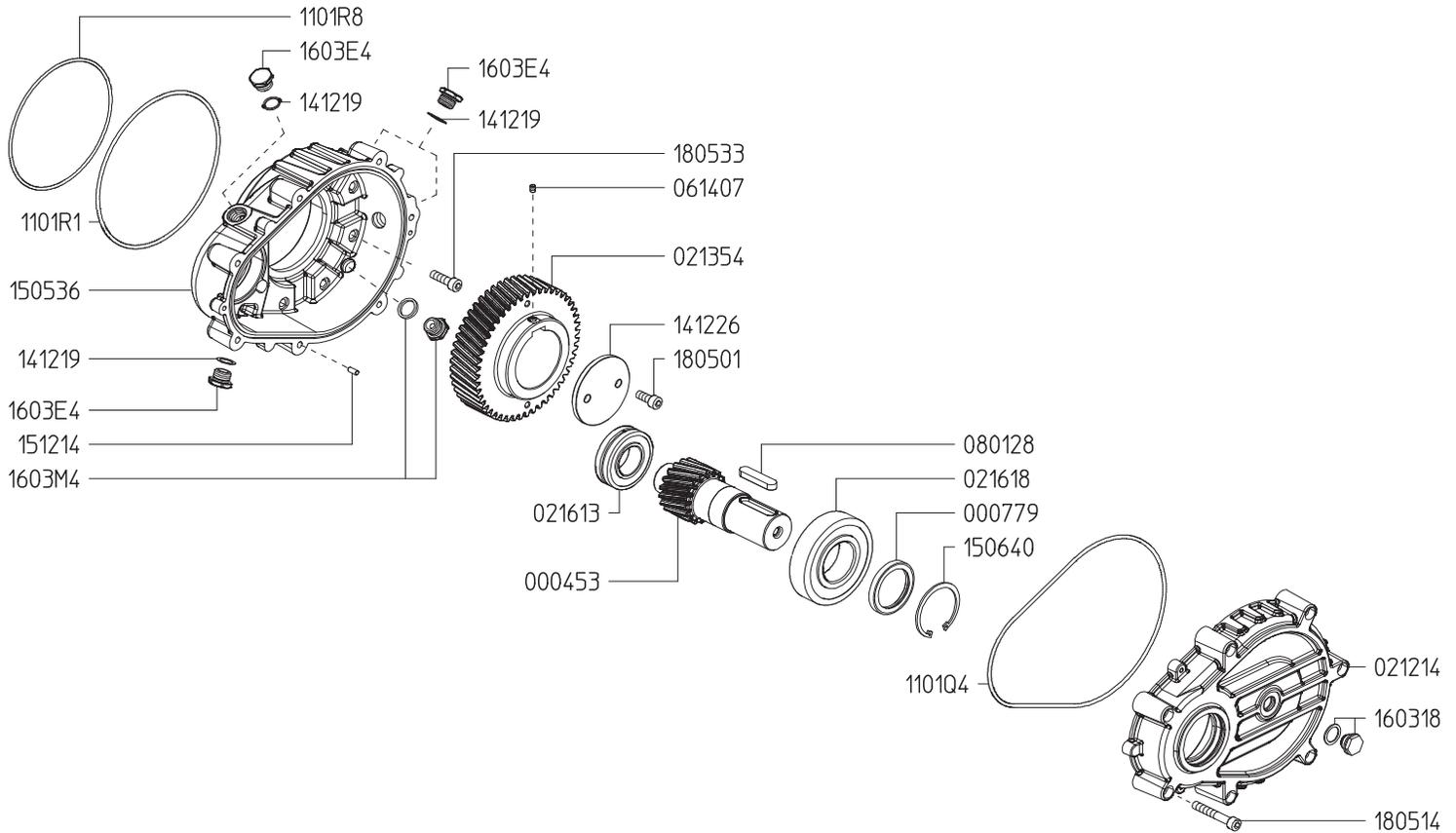


Revised 2-5-2024

| Part #  | Description                                  | Qty | Part #               | Description                                   | Qty |
|---------|--|-----|----------------------|---|-----|
| 0002.H8 | PUMP CRANCKSHAFT                             | 1   | 1403.59              | WASHER <sup>D</sup>                           | 3   |
| 0007.82 | D40 VITON SHAFT SEAL                         | 3   | 141219               | BONDED SEAL G1/2"                             | 10  |
| 0014.75 | PLUNGER GUIDE                                | 3   | 1412.20              | BONDED SEAL G3/4"                             | 1   |
| 0021.85 | LOW PRESSURE SEAL RING D50 <sup>B</sup>      | 3   | 1412.28              | BONDED SEAL G1"1/4                            | 1   |
| 0021.89 | HIGH PRESSURE SEAL RING D50 <sup>B</sup>     | 6   | 1412.29              | BONDED SEAL G1/4"                             | 3   |
| 0023.98 | UPPER RING D50 <sup>C</sup>                  | 3   | 1412.31              | BONDED SEAL G2"1/2                            | 1   |
| 0023.A6 | SCRAPER RING D50 <sup>B</sup>                | 3   | 1502.21              | PIN   | 3   |
| 0029.23 | ANTI EXTRUSION RING <sup>A</sup>             | 3   | 1506.35              | SNAP RING D28 UNI7437                         | 6   |
| 0029.24 | ANTI EXTRUSION RING                          | 3   | 1506.36              | SNAP RING D55 UNI7437 INOX                    | 1   |
| 0029.25 | ANTI EXTRUSION RING <sup>A</sup>             | 3   | 1506.40              | SNAP RING D72 UNI7437                         | 3   |
| 0029.26 | ANTI EXTRUSION RING                          | 3   | 1534.16              | SHIM 0,1mm                                    | 1   |
| 0105.03 | BUSHING                                      | 3   | 1534.17              | SHIM 0,2mm                                    | 1   |
| 0208.26 | OIL LEVEL SIGHT GLASS                        | 1   | 1603.E4              | INOX PLUG G1/2"                               | 10  |
| 0208.C5 | REAR COVER                                   | 1   | 1603.E6              | INOX PLUG G3/4"                               | 1   |
| 0208.C6 | VALVE COVER                                  | 1   | 1603.L2              | INOX PLUG G1"1/4                              | 1   |
| 0208.C7 | VALVE COVER                                  | 1   | 1603.L5              | INOX PLUG G2"1/2                              | 1   |
| 0208.C8 | INFERIOR COVER                               | 1   | 1603.L7              | INOX PLUG G1/4"                               | 3   |
| 0209.D9 | CRANCKCASE                                   | 1   | 1603.M3              | OIL LEVEL SIGHT GLASS G3/4"                   | 1   |
| 0248.13 | BEARING                                      | 2   | 1604.M6              | PUMP HEAD "HX-LP"                             | 1   |
| 0301.78 | SEPARATING DISC <sup>D</sup>                 | 3   | 1625.16              | OIL VENT PLUG G3/4"                           | 1   |
| 0307.40 | RING D50 <sup>B</sup>                        | 3   | 1804.26              | HEX SCREW M6X20 UNI 5739 ZINC PLATED          | 2   |
| 0501.N9 | CLOSED BEARING FLANGE                        | 1   | 1805.01              | SOCKET HEAD SCREW M10X25 UNI5931 ZINC PLATED  | 8   |
| 0801.29 | KEY A22X14X70 UNI6604-A                      | 1   | 1805.06              | SOCKET HEAD SCREW M8X20 UNI5931 ZINC PLATED   | 12  |
| 1101.F3 | OR D60,32X3,53 RIF 164 90SHORE <sup>A</sup>  | 3   | 1805.81              | SOCKET HEAD SCREW M18X180 UNI5931 12.9 GEOMET | 8   |
| 1101.H6 | OR D47,29X2,62 RIF 3187                      | 1   | 1805.82              | SOCKET HEAD SCREW M18X60 UNI5931 12.9 GEOMET  | 16  |
| 1101.J3 | OR D10,78X2,62 RIF 3043 90SHORE <sup>D</sup> | 3   | 1805.86              | HEX SCREW M10X65                              | 6   |
| 1101.P4 | OR D73,02X3,53 RIF 176                       | 3   | 1807.26              | HEX SCREW M12X130 DIN6921 INOX <sup>D</sup>   | 3   |
| 1101.P6 | OR D57,15X3,53 RIF 161                       | 3   | 6000.C4              | PISTON ROD SUBASSEMBLY                        | 3   |
| 1101.Q5 | OR D75,79X3,53 RIF 4300 <sup>B,C</sup>       | 3   | 6006.B8              | VALVE SUBASSEMBLY <sup>A</sup>                | 3   |
| 1101.R4 | OR D275,00x4,00 RIF 2750-40                  | 1   | 6006.B9              | VALVE SUBASSEMBLY <sup>A</sup>                | 3   |
| 1101.R8 | OR D158.3x3.53 RIF 4625                      | 2   | <sup>A</sup> 6072.13 | KIT 267                                       |     |
| 1101.R9 | OR D44,04X3,53 RIF 4175 90SHORE <sup>A</sup> | 3   | <sup>B</sup> 6072.14 | KIT 268                                       |     |
| 1205.76 | PISTON D50                                   | 3   | <sup>C</sup> 6072.15 | KIT 269                                       |     |
| 1221.72 | PRESSURE RING D50 <sup>C</sup>               | 3   | <sup>D</sup> 6072.06 | KIT 260                                       |     |
| 1242.P4 | M12 UNI-ISO3266 ZINC PLATED EYEBOLT          | 2   |                      |   |     |

# RH118 GEAR REDUCER

2.238:1 PTO GEAR REDUCTION  
for HXR1-D \_\_\_/\_\_\_ R PUMPS  
REQUIRES 101 OZ. 85W-90 GEAR LUBE



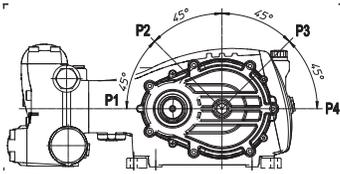
| Part #  | Description                    | Qty | Part #  | Description                                  | Qty |
|---------|--------------------------------|-----|---------|--|-----|
| 0004.53 | PINION "RH 118"                | 1   | 1412.26 | WASHER                                       | 1   |
| 0007.79 | SHAFT SEAL D55 VITON           | 1   | 1412.19 | BONDED SEAL G1/2"                            | 4   |
| 0212.14 | GEARBOX COVER                  | 1   | 1505.36 | GEARBOX CASE                                 | 1   |
| 0213.54 | GEAR "RH 118"                  | 1   | 1506.40 | SNAP RING D72 UNI7437 ZINC PLATED            | 1   |
| 0216.13 | BEARING                        | 1   | 1512.14 | CYLINDRICAL PIN D6,0X14 UNI-EN 28734         | 2   |
| 0216.18 | BEARING                        | 1   | 1603.18 | OIL LEVEL SIGHT GLASS PLUG G1/2"             | 1   |
| 0614.07 | SOCKET SET SCREW M8X10 UNI5929 | 1   | 1603.E4 | INOX PLUG G1/2"                              | 4   |
| 0801.28 | KEY A14X9X60 UNI6604-A         | 1   | 1603.M4 | MAGNETIC PLUG G1/2"                          | 1   |
| 1101.R1 | OR D209,15X3,53 RIF 4825       | 1   | 1805.01 | SOCKET HEAD SCREW M10X25 UNI5931 ZINC PLATED | 2   |
| 1101.Q4 | OR D266,30X3,53 RIF 41050      | 1   | 1805.33 | SOCKET HEAD SCREW M10X35 UNI5931 ZINC PLATED | 8   |
| 1101.R8 | OR D158,3x3,53 RIF 4625        | 1   | 1805.14 | SOCKET HEAD SCREW M10X60 UNI5931 ZINC PLATED | 7   |

## HXR SERIES PUMPS - 50mm SOLID SHAFT

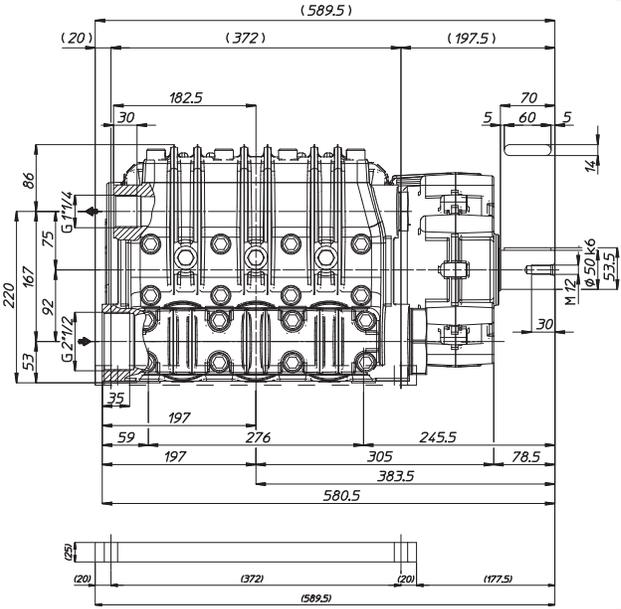
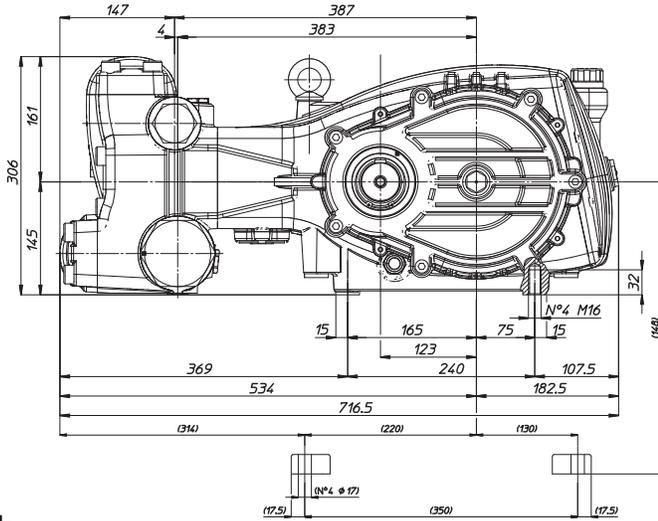
WEIGHT  
LUBRICATION - PUMP  
- GEARBOX

411.5 LBS  
237 OZ 85W-90 OIL  
101 OZ 85W-90 OIL

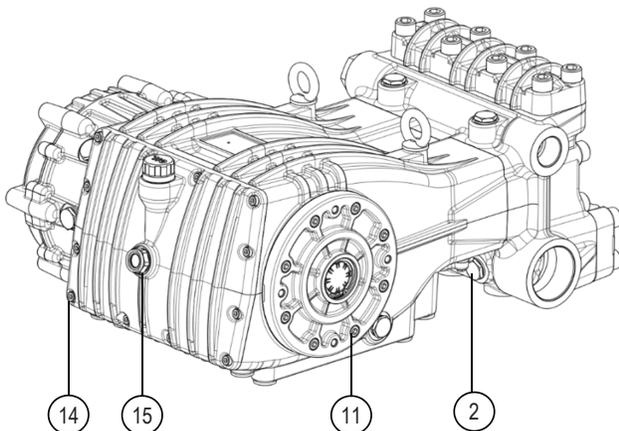
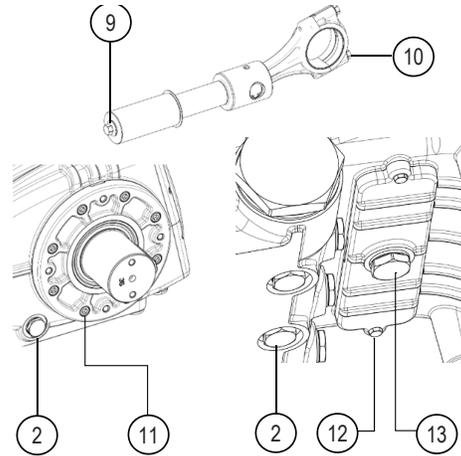
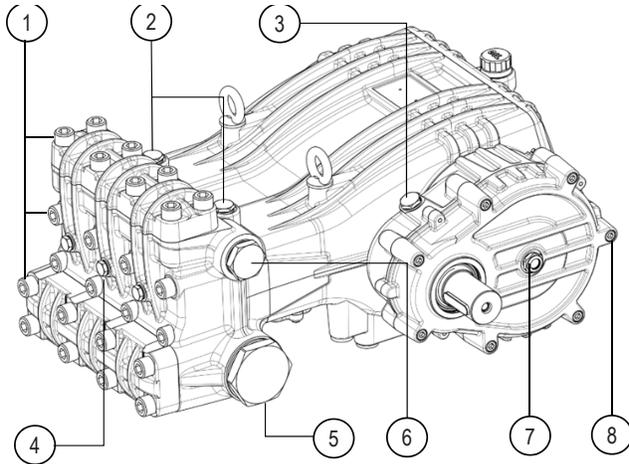
**Dimensional Drawings are  
Shown in Millimeters.  
To Convert to Inches,  
Multiply Dimension x 0.03937**



Depending on specific needs, the Gearbox can be mounted in four different positions P1,P2,P3,P4 as shown in the picture at left.



## TORQUE SPECS



| Position | Description                 | Torque |             |
|----------|-----------------------------|--------|-------------|
| 1        | Head M18 screw              | 450 Nm | 332 ft/lb   |
|          | Valve cover M18 screw       |        |             |
| 2        | Plug G1/2"                  | 100 Nm | 74 lb/ft    |
|          | Plug G1/2" 74 lb/ft         | 100 Nm | 74 lb/ft    |
| 3        | Magnetic plug G1/2"         | 25 Nm  | 18.4 lb/ft  |
|          | Plug G1/4"                  | 50 Nm  | 37 lb/ft    |
| 5        | Plug G2"                    | 250 Nm | 184.4 lb/ft |
|          | Plug G2"- 1/2               |        |             |
| 6        | Plug G1"-1/4 74 lb/ft       | 250 Nm | 184.4 lb/ft |
|          | Plug G1"                    | 200 Nm | 147.5 lb/ft |
| 7        | Oil level sight glass G1/2" | 25 Nm  | 18.4 lb/ft  |
| 8        | Screw M10                   | 50 Nm  | 37 lb/ft    |
| 9        | Screw M12                   | 50 Nm  | 37 lb/ft    |
| 10       | Screw M10                   | 50 Nm  | 37 lb/ft    |
| 11       | Screw M10                   | 50 Nm  | 37 lb/ft    |
| 12       | Screw M6                    | 11 Nm  | 8.1 lb/ft   |
| 13       | Plug G3/4"                  | 100 Nm | 74 lb/ft    |
| 14       | Screw M8                    | 25 Nm  | 18.4 lb/ft  |
| 15       | Oil level sight glass G3/4" | 25 Nm  | 18.4 lb/ft  |