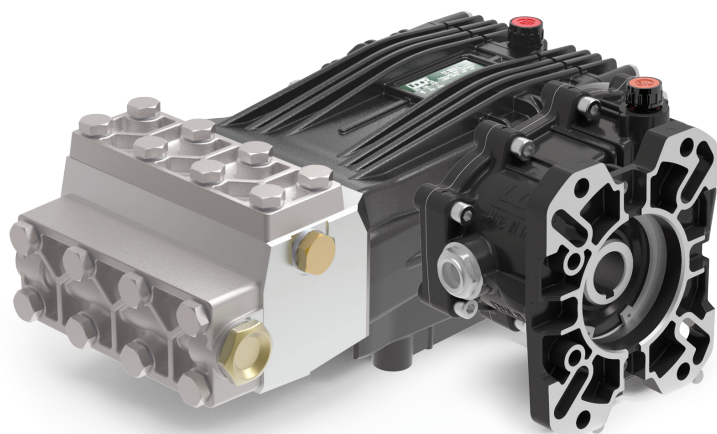


## Gear Reduction, Gas Engine Models

1" or 1-1/8" Hollow Shaft, SAE J609-B Flange.

2.2:1 Gear Reduction Drive



- Solid Ceramic Plungers
- Stainless Steel Check Valves
- Stainless Steel Block Manifold with Nickel Plated Valve Covers
- Deeper Back Cover for Increased Oil Capacity
- 34.5 oz. Capacity Vented Oil Bath Crank Case
- 3/4" BSP-F Inlet. 3/8" BSP-F Outlet
- Max Fluid Temp, 160°F

### CHC Series Gas Engine, Gear Reduction Drive Plunger Pumps

CHC Series super duty plunger pumps include a wide range of models with flow rates from 3.2 to 5.3 GPM and pressures up to 7250 PSI.

Other drive options include a 24mm solid, keyed shaft.

Applications include general pressure cleaning,, construction, hydro-excavation and oil field applications.

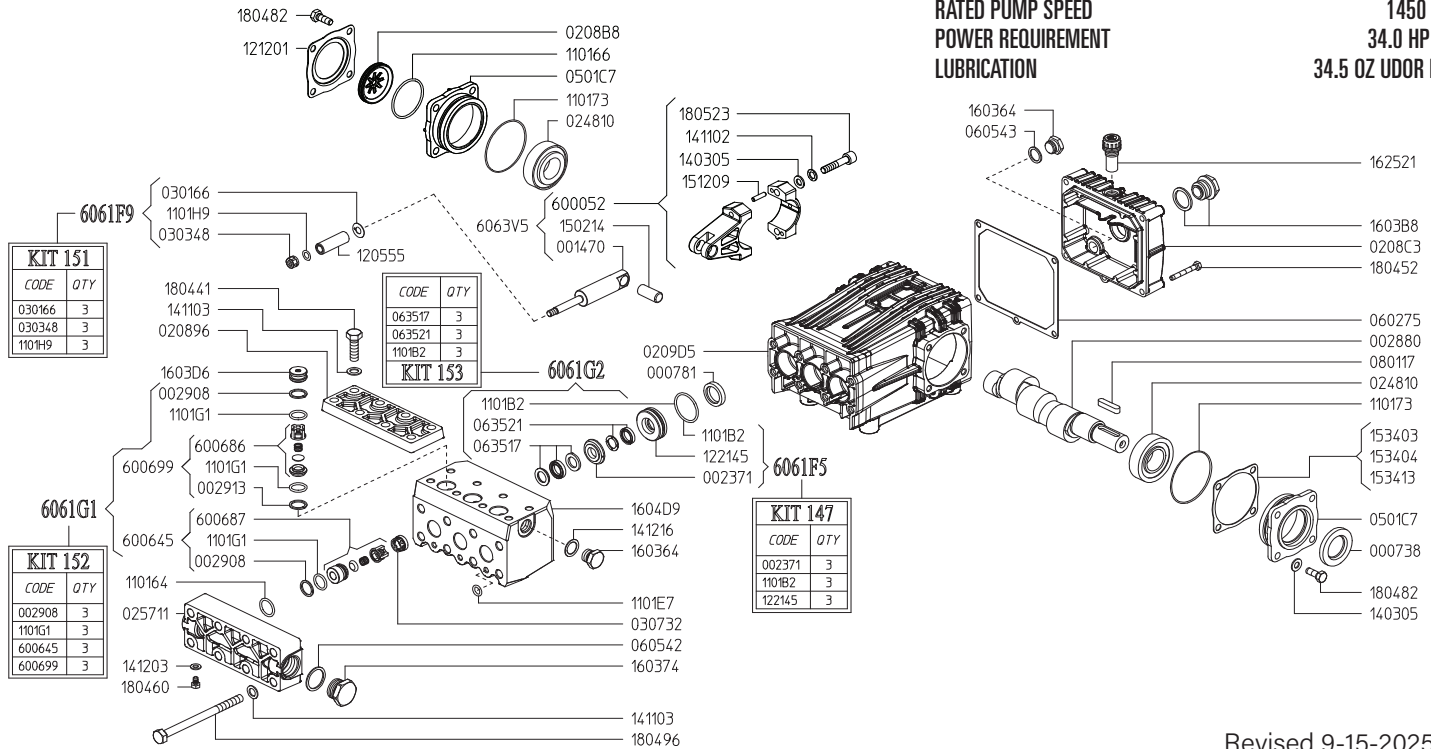
|                | Model        | Flow |       | Pressure |     | Plunger Dia. | Crankshaft |      | Power       | Seal Kit | Valve Kit | Wt.    |
|----------------|--------------|------|-------|----------|-----|--------------|------------|------|-------------|----------|-----------|--------|
|                |              | GPM  | l/min | PSI      | bar |              | Stroke     | Code |             |          |           |        |
| Gear Reduction | CHC 12/50 GR | 3.2  | 12.0  | 7250     | 500 | 15mm         | 17.0mm     | X    | 20.0 HP Gas | 6061.88  | 6061.G1   | 59 lbs |
|                | CHC 16/50 GR | 4.2  | 16.0  | 7250     | 500 | 15mm         | 22.0mm     | 1    | 26.0 HP Gas | 6061.88  | 6061.G1   | 59 lbs |
|                | CHC 20/50 GR | 5.3  | 20.0  | 7250     | 500 | 18mm         | 19.0mm     | Y    | 34.0 HP Gas | 6061.G2  | 6061.G1   | 59 lbs |

**NOTE:** All models available with 1" or 1-1/8" Hollow Shafts . Specify size when ordering (ex. **CHC 12/50 GR1** or **CHC 12/50 GR1-1/8.**)



MAX FLOW  
MAX PRESSURE  
RATED PUMP SPEED  
POWER REQUIREMENT  
LUBRICATION

5.3 GPM / 20.0 L/MIN  
7250 PSI / 500 BAR  
1450 RPM  
34.0 HP GAS  
34.5 OZ UDOR LUBE



Revised 9-15-2025

| Part #  | Description                              | Qty |
|---------|------------------------------------------|-----|
| 0007.38 | OIL SEAL D30                             | 1   |
| 0007.81 | OIL SEAL D20                             | 3   |
| 0014.69 | PLUNGER GUIDE D15 "CH"                   | 3   |
| 0023.71 | UPPER RING D18 <sup>D</sup>              | 3   |
| 0028.80 | MALE SHAFT D24                           | 1   |
| 0029.08 | RING <sup>A</sup>                        | 3   |
| 0029.08 | RING <sup>A</sup> / PART OF 6006.45      | 3   |
| 0029.13 | RING <sup>A</sup> / PART OF 6006.99      | 3   |
| 0208.96 | COVER "CH"                               | 1   |
| 0208.B8 | OIL SIGHT GLASS                          | 1   |
| 0208.C3 | BACK COVER "C/CK"                        | 1   |
| 0209.D5 | GRANKCASE "C/CK/CH"                      | 1   |
| 0248.10 | ROLLER BEARING D30                       | 2   |
| 0257.11 | SUCTION MANIFOLD                         | 1   |
| 0301.66 | SLINGER RING <sup>B</sup>                | 3   |
| 0303.48 | NUT D18 <sup>B</sup>                     | 3   |
| 0307.27 | SPACER                                   | 3   |
| 0501.C7 | BEARING HOLLOW FLANGE                    | 2   |
| 0602.75 | BACK COVER GASKET                        | 1   |
| 0605.42 | GASKET D27                               | 1   |
| 0605.43 | GASKET D17                               | 1   |
| 0635.17 | HIGH PRESSURE SEAL KIT D18 <sup>C</sup>  | 3   |
| 0635.21 | LOW PRESSURE SEAL KIT D18 <sup>C</sup>   | 3   |
| 0801.17 | KEY A8X7X35                              | 1   |
| 1101.64 | O-RING - SUCTION MANIFOLD                | 3   |
| 1101.66 | O-RING - OIL SIGHT GLASS                 | 1   |
| 1101.73 | O-RING - BEARING FLANGE                  | 2   |
| 1101.B2 | O-RING - PRESSURE RING <sup>C D</sup>    | 3   |
| 1101.E7 | O-RING - SPLIT MANIFOLD                  | 3   |
| 1101.G1 | O-RING - VALVE <sup>A</sup>              | 3   |
| 1101.G1 | O-RING - VALVE <sup>A</sup> / in 6006.99 | 3   |
| 1101.G1 | O-RING - VALVE <sup>A</sup> / in 6006.45 | 3   |
| 1101.H9 | O-RING - PLUNGER <sup>B</sup>            | 3   |
| 1205.55 | CERAMIC PLUNGER D18                      | 3   |
| 1212.01 | RETAINER - OIL SIGHT GLASS               | 1   |
| 1221.45 | PRESSURE RING D18 <sup>D</sup>           | 3   |

| Part #  | Description                                              | Qty |
|---------|----------------------------------------------------------|-----|
| 1403.05 | WASHER D8.4                                              | 10  |
| 1411.02 | SERRATED WASHER D8                                       | 6   |
| 1411.03 | SERRATED WASHER D10                                      | 16  |
| 1412.03 | BONDED WASHER D6.7                                       | 1   |
| 1412.16 | BONDED WASHER D17.3                                      | 1   |
| 1502.14 | PIN D14X32                                               | 3   |
| 1512.09 | PLUG D5X20 UNI1707                                       | 6   |
| 1534.03 | SHIM 0.1 MM                                              | -   |
| 1534.04 | SHIM 0.2 MM                                              | -   |
| 1534.13 | SHIM 0.05 MM                                             | -   |
| 1603.64 | PLUG G3/8                                                | 2   |
| 1603.74 | PLUG G3/4                                                | 1   |
| 1603.B8 | OIL PLUG G3/4 + GASKET                                   | 1   |
| 1603.D6 | PLUG                                                     | 3   |
| 1604.D9 | HEAD PISTON D18 SS                                       | 1   |
| 1625.21 | OIL PLUG G3/8                                            | 1   |
| 1804.09 | HEX BOLT M8X40                                           | 6   |
| 1804.41 | HEX BOLT M10X35                                          | 8   |
| 1804.52 | HEX BOLT M6X45                                           | 5   |
| 1804.60 | HEX BOLT M6X10                                           | 1   |
| 1804.82 | HEX BOLT M8X22                                           | 8   |
| 1804.96 | HEX BOLT M10X140                                         | 8   |
| 6000.52 | ROD ASSEMBLY                                             | 3   |
| 6006.45 | SUCTION VALVE ASS'Y COMPLETE <sup>A</sup>                | 3   |
| 6006.86 | OUTLET VALVE ASS'Y W/O O-RING <sup>A</sup> / in 6006.99  | 3   |
| 6006.87 | SUCTION VALVE ASS'Y W/O O-RING <sup>A</sup> / in 6006.45 | 3   |
| 6006.99 | OUTLET VALVE ASS'Y COMPLETE <sup>A</sup>                 | 3   |
| 6061.F5 | BRASS RING KIT D18 (KIT 147)                             |     |
| 6061.F9 | PLUNGER KIT D18 (KIT 151)                                |     |
| 6061.G1 | VALVE KIT D18 (KIT 152)                                  |     |
| 6061.G2 | WATER SEAL KIT (KIT 153)                                 |     |

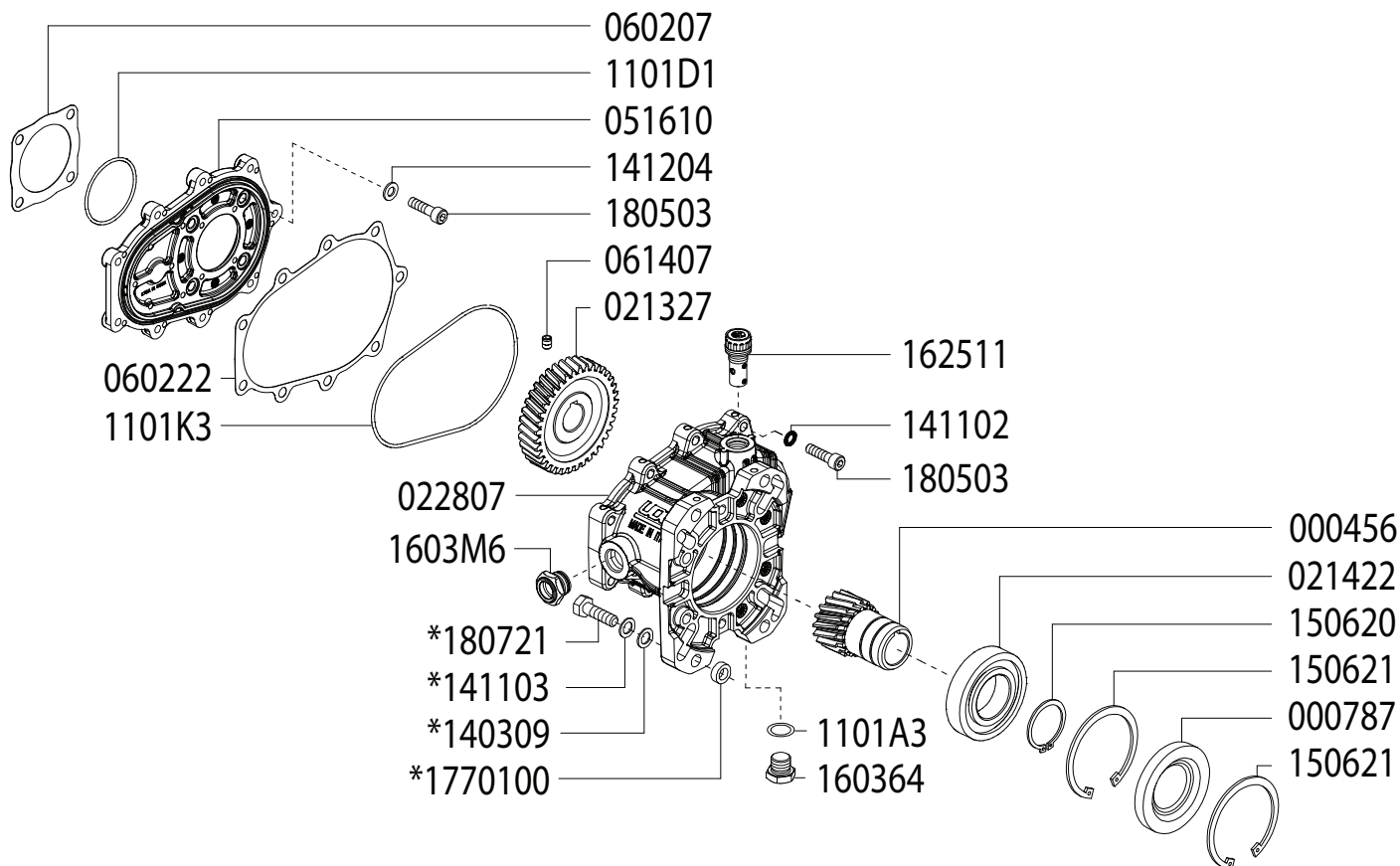
<sup>A</sup> Parts in 6061.G1 (Kit 152).

<sup>B</sup> Parts in 6061.F9 (Kit 151).

<sup>C</sup> Parts in 6061.G2 (Kit 153).

<sup>D</sup> Parts in 6061.F5 (Kit 147).

**GAS ENGINE GEAR REDUCTION FOR  
B/BK/BS/BWT/C/CS/CWT/CK/CX-SERIES PLUNGER PUMPS  
on GAS ENGINES with 1" SHAFTS  
REQUIRES 11.5 OZ. ISO VG 220 GEAR LUBE**



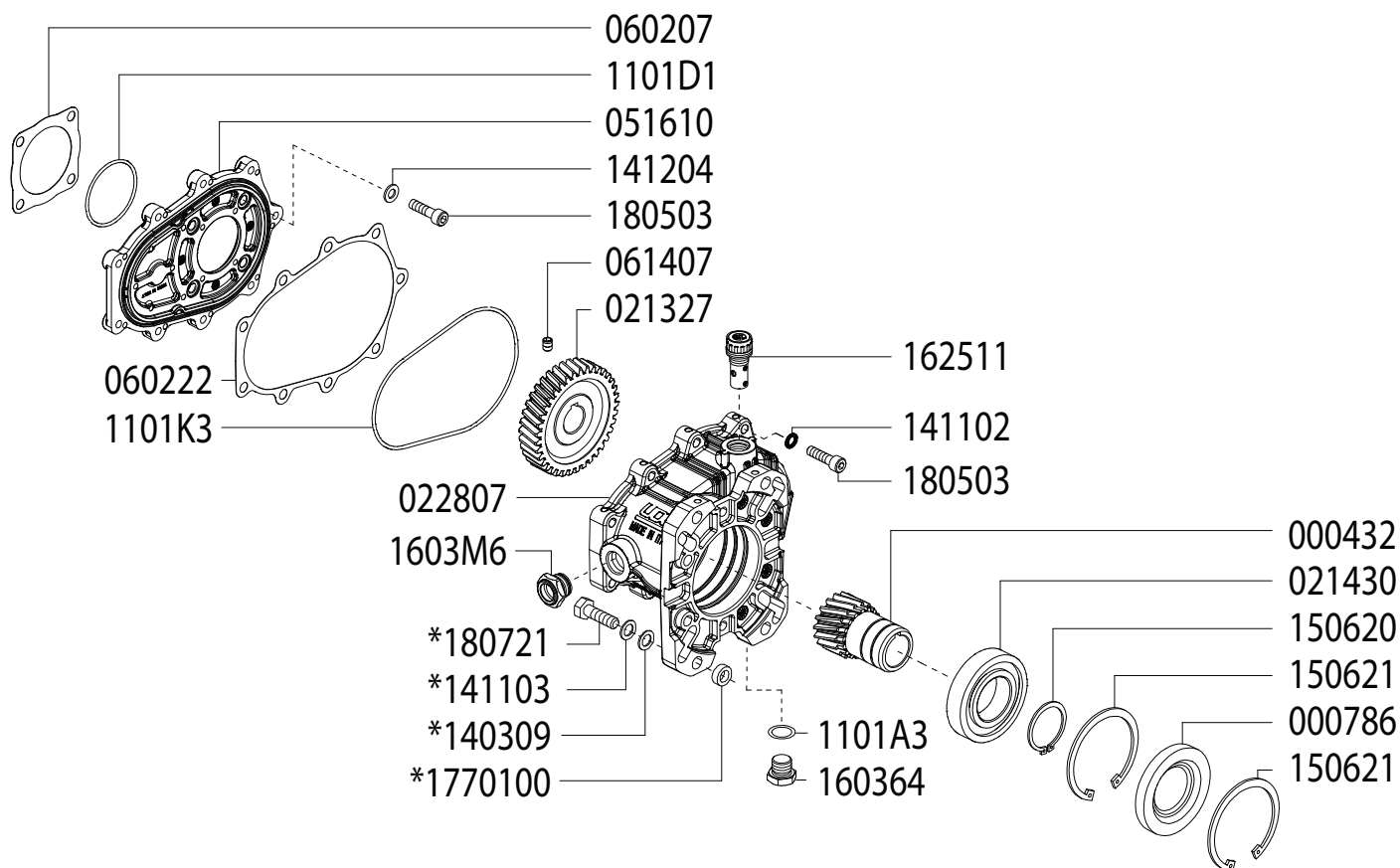
Updated 9-15-2025

| Part #   | Description              | Qty |
|----------|--------------------------|-----|
| 0004.56  | GEAR - 1"                | 1   |
| 0007.87  | OIL SEAL - D40 - RBC122K | 1   |
| 0213.27  | PUMP GEAR                | 1   |
| 0214.22  | BEARING - D40 - RBC122K  | 1   |
| 0228.07  | COUPLER - RBC122         | 1   |
| 0516.10  | FLANGE - RBC122          | 1   |
| 0602.07  | GASKET - RC122           | 1   |
| 0602.22  | GASKET - RBC122 HOUSING  | 1   |
| 0614.07  | SET SCREW - M5X8         | 1   |
| 1101.A3  | O-RING                   | 1   |
| 1101.D1  | O-RING                   | 1   |
| 1101.K3  | O-RING                   | 1   |
| *1403.09 | WASHER                   | 4   |

| Part #    | Description                | Qty |
|-----------|----------------------------|-----|
| 1411.02   | WASHER                     | 9   |
| *1411.03  | SERRATED WASHER            | 4   |
| 1412.04   | WASHER                     | 4   |
| 1506.20   | SNAP RING - D40            | 1   |
| 1506.21   | SNAP RING - D80            | 2   |
| 1603.64   | PLUG - 3/8"                | 1   |
| 1603.M6   | OIL SIGHT GLASS            | 1   |
| 1625.11   | OIL PLUG - G3/8"           | 1   |
| 1805.03   | ALLEN BOLT - M8x30         | 13  |
| *1807.21  | HEX BOLT - 3/8-16 X 1-1/4" | 5   |
| *17701.00 | SPACER                     | 4   |

\* For use when using outer mounting holes only

**GAS ENGINE GEAR REDUCTION FOR  
 B/BK/BS/BWT/C/CS/CWT/CK/CX-SERIES PLUNGER PUMPS  
 on GAS ENGINES with 1-1/8" SHAFTS  
 REQUIRES 11.5 OZ. ISO VG 220 GEAR LUBE**



Updated 9-15-2025

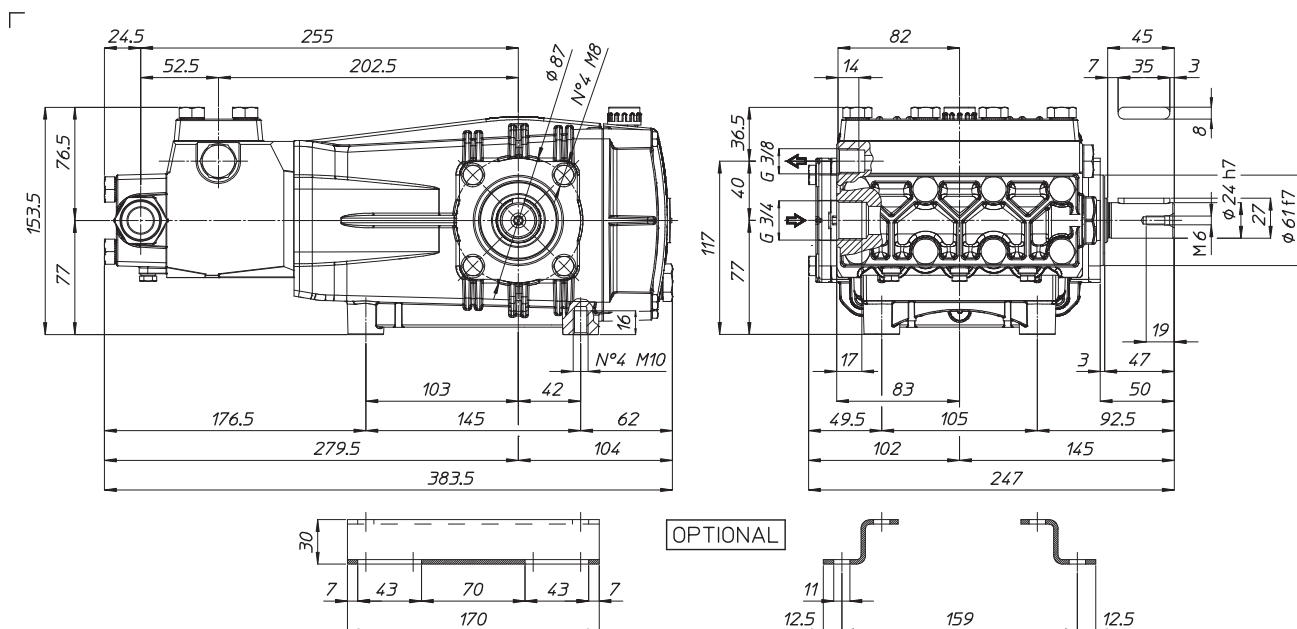
| Part #   | Description              | Qty |
|----------|--------------------------|-----|
| 0004.32  | GEAR - 1-1/8"            | 1   |
| 0007.86  | OIL SEAL - D40 - RBC122X | 1   |
| 0213.27  | PUMP GEAR                | 1   |
| 0214.30  | BEARING - D40 - RBC122X  | 1   |
| 0228.07  | COUPLER - RBC122         | 1   |
| 0516.10  | FLANGE - RBC122          | 1   |
| 0602.07  | GASKET - RC122           | 1   |
| 0602.22  | GASKET - RBC122 HOUSING  | 1   |
| 0614.07  | SET SCREW - M5X8         | 1   |
| 1101.A3  | O-RING                   | 1   |
| 1101.D1  | O-RING                   | 1   |
| 1101.K3  | O-RING                   | 1   |
| *1403.09 | WASHER                   | 4   |

| Part #    | Description                | Qty |
|-----------|----------------------------|-----|
| 1411.02   | WASHER                     | 9   |
| *1411.03  | SERRATED WASHER            | 4   |
| 1412.04   | WASHER                     | 4   |
| 1506.20   | SNAP RING - D40            | 1   |
| 1506.21   | SNAP RING - D80            | 2   |
| 1603.64   | PLUG - 3/8"                | 1   |
| 1603.M6   | OIL SIGHT GLASS            | 1   |
| 1625.11   | OIL PLUG - G3/8"           | 1   |
| 1805.03   | ALLEN BOLT - M8x30         | 13  |
| *1807.21  | HEX BOLT - 3/8-16 X 1-1/4" | 5   |
| *17701.00 | SPACER                     | 4   |

\* For use when using outer mounting holes only

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

## CH SERIES PUMPS - 24mm SOLID SHAFT



## TORQUE SPECS

| Ref. | Description          | Ft./lb. | Nm  | Loctite® |
|------|----------------------|---------|-----|----------|
| 1    | Head Bolts           | 37      | 50  | -        |
| 2    | Valve Caps           | -       | -   | -        |
| 3    | Inlet Cap            | 103     | 140 | -        |
| 4    | Outlet Cap           | 60      | 80  | 243      |
| 5    | Bearing Flange Bolts | 19      | 25  | -        |
| 6    | Rear Cover Bolts     | 8       | 11  | -        |
| 7    | Connecting Rod Bolts | 19      | 25  | 270      |
| 8    | Plunger Bolts        | 15      | 20  | 270      |
| 9    | Valve Cover Bolts    | 37      | 50  | -        |
| 10   | Oil Drain Plug       | 8       | 11  | -        |

