Heavy Duty Piston Pumps

PVD80C**-**-11-C******-13
177939 Screw (8 req'd)
Torque to 41-49 N.m
(30-36 lb. ft.)

577631 Pintle Cover
(2 req'd)

370842 O-Ring (2 req'd)

634283 Spacer (2 req'd)

429343 Tapered Roller Bearing (2 req'd)

181765 Plug (2 req'd)

154132 O-Ring (2 req'd)

591824 Nameplate

227376 Drive Screw (2 req'd)

581928 Housing

426146 Bearing S/A

583119 Spacer Key

432219 Yoke S/A

941115 Piston Kit
(Includes 9 Pistons and Shoes)

424540 Swash Plate

428892 Shoe Plate

426157 Spacer

419659 Retaining Ring

248934 Pin

941308 Shim Kit
(Refer to pintle brg preload instructions in overhaul manual)

214926 Screw (2 req'd)
Torque to 160-172 N.m
(118-127 lb. ft.)

Charge Pump
(See Table)

582155 Pin
(2 req'd)

295395 Screw
(2 req'd)
Torque to 160-172 N.m
(118-127 lb. ft.)

214926 Screw (2 req'd)
Torque to 160-172 N.m
(118-127 lb. ft.)
<table>
<thead>
<tr>
<th>Model</th>
<th>Valve Block</th>
<th>Valve Plate</th>
<th>Charge Pump</th>
<th>Rotation Direction</th>
<th>Yoke Feedback Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>PVD80L</td>
<td>581552</td>
<td>581550</td>
<td>926466</td>
<td>Left</td>
<td>Included</td>
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<tr>
<td>PVD80L-C</td>
<td>584119</td>
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<tr>
<td>PVD80R</td>
<td>581927</td>
<td>581118</td>
<td>926403</td>
<td>Right</td>
<td>Included</td>
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<tr>
<td>PVD80R-C</td>
<td>584118</td>
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<td></td>
<td></td>
<td>Omitted</td>
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</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Shaft</th>
</tr>
</thead>
<tbody>
<tr>
<td>PVD80*-1*-11</td>
<td>581076</td>
</tr>
<tr>
<td>PVD80*-6*-11</td>
<td>581553</td>
</tr>
<tr>
<td>PVD80*-9*-11</td>
<td>587841</td>
</tr>
</tbody>
</table>

- **432572 Shaft Seal** (Spring loaded member faces outward) (Omit on "S" models)
- **194036 Retaining Ring** (Omit on "S" models)
- **583111 Seal Retainer**
- **432572 Shaft Seal** (Spring loaded member faces inward)
- **42XXXX Plug** Torque to 300-330 N.m (221-243 lb. ft.)
- **941308 Shim Kit** (Adjust charge pressure as required for control)
- **406871 Poppet**
- **426494 Seat** Torque to 12-15 N.m (9-11 lb. ft.)
- **572643 Gasket**
- **▲ O-Ring (5 req’d)**
- **Yoke Feedback Parts**
- **▲ Plug** Torque 300-330 N.m (221-243 lb. ft.)
- **▲ 154132 O-Ring**
- **426416 Sleeve**
- **▲ Feedback Spool** (Orient small end land wth flats toward plug)

- **309627 O-Ring (2 req’d)** (1 req’d on “S” models. Outside O-Ring omitted.)
- **941308 Shim Kit** (Refer to shaft end play adjustment shown in Overhaul Manual)
- **184096 Screw (4 req’d)** Torque to 20-25 N.m (15-18 lb. ft.)
- **426144 Retainer**
- **154132 O-Ring**
- **404631 Spring**
- **426493 Spring**
- **426495 Piston**
- **214774 Screw (3 req’d)**
- **214774 Screw (4 req’d)** Torque to 180-200 N.m (133-147 lb. ft.)
- ** Valve Block (L.H. shown, see table)**
- **248939 Pin**
- **435732 Bearing S/A**
- ** Valve Plate (See table)** (Bronze surface must face Cylinder Block)
- **▲ 154126 O-Ring (2 req’d)**
- **154126 O-Ring (3 req’d)**
- **214776 Screw (4 req’d)** Torque to 180-200 N.m (133-147 lb. ft.)
- **189087 Plug (2 req’d)** Torque to 20-25 N.m (15-18 lb. ft.)
- **582155 Pin (2 req’d)**
- **426140 Cylinder Block S/A**
- **▲ 154126 O-Ring (2 req’d)**
- **214776 Screw Torque to 180-200 N.m (133-147 lb.ft.)**
- **194036 Retaining Ring**
- **426144 Retainer**
- **▲ 197589 Back-Up Ring**
- **▲ 154009 O-Ring**
- **▲ 197590 Back-Up Ring**
- **▲ 154010 O-Ring**
- **941308 Shim Kit (Adjust differential pressure as required for control)**

- **583111 Seal Retainer**
- **248939 Pin**
- **435732 Bearing S/A**
- ** Valve Plate (See table)** (Bronze surface must face Cylinder Block)
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- **426144 Retainer**
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- **▲ 197590 Back-Up Ring**
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- **941308 Shim Kit (Adjust differential pressure as required for control)**

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- **194036 Retaining Ring**
- **426144 Retainer**
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- **941308 Shim Kit (Adjust differential pressure as required for control)**
**Model Series**

PVD - Pump, variable, inline series D

**Flow Rating in USgpm**
(at 1800 RPM)

80 - 80 USgpm

**Packaging Options**

C - Charge Pump

**Shaft Rotation**
(Viewed from Shaft End)

R - Right hand (CW)
L - Left hand (CCW)

**Shaft**

1 - Splined
6 - Splined
9 - Splined

**Shaft Seal**

S - Single
D - Double

**Control Options**

C  N  
CD  CN  
CT  CNS1  
CTS  CNS2  
CV  CVN  
CVT  CVNS2  
CVTS  CVNS2

**Control Definitions**

C - Pressure limiter
D - Dual level
N - Speed sensing
S - Summation
S1 - Summation - master pump speed sensing
S2 - Summation - slave pump speed sensing
T - Torque limiter
V - Load Sensing

**Note**

Two digits will appear following an adjustable control function. This indicates control function pressure setting in bar/10. On speed sensing units (N), the two digits indicate RPM/100.

Ex. C35T 21 S  
    Pressure in bar/10

C30N 24 S1  
    RPM/100  
    Pressure in bar/10

For satisfactory service life of these components in industrial applications, use full flow filtration to provide fluid which meets ISO cleanliness code 20/18/15 or cleaner. Selections from Eaton OFP, OFR, and OFRS series are recommended.