PVB, PVE, PVH & PVQ
Piston Pumps & Parts

• For Mobile or Industrial Use
• Pressures to 250 bar/3500 psi
• Single or Thru-Drive
• Same Day Shipment
Our promise at FluiDyne is to provide the fluid power industry with high quality, fully tested and technically supported hydraulic pumps, motors and valves. We understand and value the local service and support provided by repair shops, resellers and distributors to the OEM’s and users of fluid power applications. We do not compete with our customers; rather we work with our channels as partners in their success and to advance the technology of fluid power.

Our strength is our people. We focus on personal development and a long term commitment to our staff. We recognize knowledgeable people are a valuable part of the service a business organization provides. We stress a commitment to learning and customer support at every level of the FluiDyne organization. Accounting, Customer Service, Engineering, Inventory, Management, Manufacturing, Quality and Shipping all work together to serve our customer. We believe in treating everyone inside and outside the company with professionalism and respect.

Application and technical support for our products is easy access, and we pride ourselves in not having a switchboard or phone tree. The person, who picks up the phone, helps the customer. We like it simple, we like it direct. Our inventory is extensive and our people are skilled at assembly, modifications and testing. Our product leaves the factory fast (often the same day) and it leaves correct, tested and documented. If there is a mistake, work hard to make it right, quickly and fairly.

Please call or email to learn more about FluiDyne. Our products and people make us special.

- 18 month warranty
- Blind drop shipments
- Custom proprietary software allows immediate & accurate technical support, quoting, order entry & bill of material information
- End customer protection
- Extensive Michigan inventory
- ISO Certified 9001:2008
- New FluiDyne and remanufactured products
- Outstanding customer service
- Performance you have come to expect
- Same day shipments
- Standard & modified products
- Multiple test stands which allow for quick 100% testing of all units shipped

www.FluiDyneFP.com
**Model Code Breakdown**

### PVB – Variable Displacement Piston Pump

<table>
<thead>
<tr>
<th></th>
<th>PVB</th>
<th>5</th>
<th>(F)</th>
<th>R</th>
<th>S</th>
<th>(F)</th>
<th>W</th>
<th>Y</th>
<th>20</th>
<th>CG</th>
<th>C</th>
<th>*</th>
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<tr>
<td>1</td>
<td>Model Series</td>
<td>PVB – Variable displacement pump</td>
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</tr>
<tr>
<td>2</td>
<td>Displacement</td>
<td>5 – 10.5 cc/rev (0.64 in³/r)</td>
<td>6 – 13.8 cc/rev (0.84 in³/r)</td>
<td>10 – 21.1 cc/rev (1.29 in³/r)</td>
<td>15 – 33.0 cc/rev (2.01 in³/r)</td>
<td>20 – 42.8 cc/rev (2.61 in³/r)</td>
<td>29 – 61.6 cc/rev (3.76 in³/r)</td>
<td>45 – 94.5 cc/rev (5.76 in³/r)</td>
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</tr>
<tr>
<td>3</td>
<td>Mounting</td>
<td>F – Foot Bracket</td>
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<tr>
<td>4</td>
<td>Shaft Rotation (Viewed at shaft end)</td>
<td>R – Right Hand (clockwise)</td>
<td>L – Left Hand (counterclockwise)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>5</td>
<td>Displacement Zone</td>
<td>S – One side of center (Pressure Compensated models only)</td>
<td>D – Both sides of center</td>
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</tr>
<tr>
<td>6</td>
<td>Flanged Ports</td>
<td>20 – Side/Thru Flanged Ports</td>
<td>29 – Side/Thru Flanged Ports</td>
<td>45 – All Ports</td>
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</tr>
<tr>
<td>7</td>
<td>Optional Features</td>
<td>W – Side Ports</td>
<td>X – Side Ports - thru shaft</td>
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<tr>
<td>8</td>
<td>Shaft Type</td>
<td>Y – SAE models PVB5 through 15 only (Standard)</td>
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<td></td>
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</tr>
<tr>
<td>9</td>
<td>Pump Design Number</td>
<td>40 – 5 or 6 displacement</td>
<td>40 – 10 or 15 displacement</td>
<td>20 – 20 or 29 displacement</td>
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<td></td>
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<td></td>
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<tr>
<td>10</td>
<td>Displacement Control Options</td>
<td>C – Pressure Compensator</td>
<td>Pressure adjustment range: 17 to 210 bar (250 to 3000 psi)</td>
<td>CM – Pressure Compensator</td>
<td>Pressure adjustment range: 17 to 100 bar (250 to 1500 psi)</td>
<td>CG – Remotely adjustable pressure setting</td>
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<tr>
<td>11</td>
<td>Optional Features</td>
<td>C – Adjustable Maximum Displacement Stop</td>
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</tr>
<tr>
<td>12</td>
<td>Compensator Variations</td>
<td>D – Dual-range (Electric control 115 volts-60 cycle)</td>
<td>DH – Dual-range (Hydraulic control)</td>
<td>G – Hydraulic remote (L.H. only except CGG models)</td>
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<td>13</td>
<td>Control Design Number</td>
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</table>

**PVE - Variable Displacement Piston Pump**

<table>
<thead>
<tr>
<th></th>
<th>PVE</th>
<th>21</th>
<th>R</th>
<th>9</th>
<th>30</th>
<th>C10</th>
<th>6</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Model Series</td>
<td>PVE – Pump, variable displacement</td>
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</tr>
<tr>
<td>2</td>
<td>Flow Rating @ 1800 rpm</td>
<td>19 – 19 USgpm (2.5 in³/r)</td>
<td>21 – 21 USgpm (2.7 in³/r)</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>3</td>
<td>Shaft Rotation (Viewed at shaft end)</td>
<td>R – Right hand (clockwise)</td>
<td>L – Left Hand (counterclockwise)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Input Shaft</td>
<td>1 – SAE B-8 straight</td>
<td>2 – SAE B-8 15 tooth spline</td>
<td>9 – SAE B 13 tooth spline</td>
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<td></td>
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<tr>
<td>5</td>
<td>Pump Design Number</td>
<td>30 – Design SAE side ports</td>
<td>40 – Design SAE rear ports</td>
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<td></td>
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<tr>
<td>6</td>
<td>Control Type &amp; Design</td>
<td>C10 – Pressure compensated (PVE19, 250-3000 psi) (PVE21, 250-2700 psi)</td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td>CG10 – Remote control pressure compensator adjustable from 350-3000 psi using an external relief valve</td>
<td>CV10 – Load sensing PVE 19/21</td>
<td>CVP12 – Load sensing (160 PSID) with pressure compensation PVE 19/21</td>
<td>CVPC12 – Load sensing (350 PSID) with pressure compensation PVE 19/21</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Call us for series that are not listed.*

*Please see PVE Engineering for more detailed model code.*

Piston pumps are available in quantities to support OEM builders.

Call (586) 296-7200 • Email: sales@FluiDyneFP.com
# PVH - Variable Displacement Piston Pump

<table>
<thead>
<tr>
<th>PVH</th>
<th>98</th>
<th>QI</th>
<th>C</th>
<th>R</th>
<th>A</th>
<th>F</th>
<th>2</th>
<th>S</th>
<th>10</th>
<th>C</th>
<th>25</th>
<th>V</th>
<th>31</th>
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<td>10</td>
<td>11</td>
<td>12</td>
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<td>14</td>
</tr>
</tbody>
</table>

### 1 Model Series
**PVH** – Piston Pump

### 2 Maximum Geometric Displacement
- 57 – 57.4 cm³/r (3.5 in³/r)
- 74 – 73.7 cm³/r (4.5 in³/r)
- 98 – 98.3 cm³/r (6.0 in³/r)
- 131 – 131.1 cm³/r (8.0 in³/r)

### 3 Design/Application
- **Blank** – Design for mobile applications
- **QI** – Quiet design for industrial applications 4000 psi
- **QP** – Quiet power 2000 psi

### 4 Mounting Flange, Prime Mover End
- **C** – SAE “C” 4-bolt type
- **C2** – 2/4 Bolt C mount
- **C3** – 4 Bolt C Vertical Mount

### 5 Shaft Rotation (Viewed at shaft end)
- **R** – Right hand (clockwise)
- **L** – Left Hand (counterclockwise)

### 6 Configuration
- **Blank** – Non-thru-drive (single pump)
- **A** – Thru-drive pump with SAE “A” 2-bolt rear flange mounting
- **B** – Thru-drive pump with SAE “B” 2 and 4-bolt rear flange mountings
- **C** – Thru-drive pump with SAE “C” 2 and 4-bolt rear flange mountings
- **S** – Adjustable maximum volume stop (Non-thru drive and non-torque control models only)

### 7 Main Ports
- **F** – SAE 4-bolt flange ports

### 8 Shaft-End Type, at Prime Mover End
- 1 – SAE C straight keyed
- 2 – SAE C splined 14 tooth
- 3 – SAE CC splined 17 tooth
- 12 – SAE D splined 13 tooth
- 13 – SAE CC straight keyed
- 15 – SAE D straight keyed

### 9 Shaft Seal, Prime Mover End
- **S** – Single, one way
- **D** – Double, two way

### 10 Pump Design Number
- 10 – With case to inlet check
- 11 – No case to inlet check

### 11 Pressure Compensator and Adjustment Range
- **C** – 140-280 bar (2000-4000 psi)
- **CM** – 35-140 bar (500-2000 psi)
- **IC** – CETOP 3 interface

### 12 Pressure Compensator Factory Setting in Tens of Bar
- 7 – Normal factory setting of 70 bar (1015 psi) for “CM” models
- 25 – Normal factory setting of 250 bar (3625 psi) for “C” models

### 13 Additional Control Functions
- **Blank** – No additional controls
- **V** – Load sensing, 20 bar (290 psi)

### 14 Control Design Number
- 31 – C, CM, C**V**, or IC controls

---

# PVQ - Variable Displacement Piston Pump

<table>
<thead>
<tr>
<th>PVQ</th>
<th>13</th>
<th>A2</th>
<th>R</th>
<th>SE</th>
<th>1</th>
<th>S</th>
<th>20</th>
<th>C11</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
</tr>
</tbody>
</table>

### 1 Model Series
**PVQ** – Inline Piston Pump

### 2 Displacement
- 10 – 10.5 cc/rev (0.64 cir)
- 210 bar (3000 psi)
- 13 – 13.8 cc/rev (0.84 cir)
- 140 bar (2000 psi)
- 20 – 20 cc/rev (1.28 cir)
- 210 bar (3000 psi)
- 32 – 32 cc/rev (2.01 cir)
- 140 bar (2000 psi)
- 40 – 41 cc/rev (2.5 cir)
- 140 bar (2000 psi)
- 45 – 45.1 cc/rev (2.75 cir)
- 185 bar (2700 psi)

### 3 Mounting Flange
- **A2** – Flange SAE “A” (10/13)
- **B2** – SAE “B” 2-bolt (20/45)

### 4 Shaft Rotation (Viewed at shaft end)
- **R** – Right hand (clockwise)
- **L** – Left Hand (counterclockwise)

### 5 Ports, Type and Location
- **SE** – SAE O-ring rear port
- **SS** – SAE O-ring side port

### 6 Shaft
- 1 – Straight keyed
- 3 – Splined

### 7 Seals
- **S** – Buna N, standard
- **F** – Fluorocarbon, optional

### 8 Pump Design Series
- 20 – (10/13/40/45)
- 21 – (20/21)

### 9 Control Type
- **C11** – Pressure Compensator
- **CM11** – Low Pressure Compensator
- **C** **V** **B12** – Load Sensing with bleed down orifice
- **C** **V** **P12** – Load sensing without bleed orifice
- **CG20** – Pressure compensator modified for hydraulic remote control
- **CD** – Electric dual range pressure

### 10 Control Option
- **Blank** – Without adjustable Max. displacement stop (standard)
- **D** – Max. adjustable displacement stop (optional)

---

Call us for series that are not listed.

*Please see PVH Engineering for more detailed model code.*
<table>
<thead>
<tr>
<th>Model Code</th>
<th>Displacement cm³/r (in³/r)</th>
<th>Max rpm @ 0 inlet pressure</th>
<th>Max Pressure (psi)</th>
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</thead>
<tbody>
<tr>
<td><strong>PVB</strong></td>
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</tr>
<tr>
<td>5</td>
<td>10.55 (.64)</td>
<td>1800</td>
<td>3000</td>
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<tr>
<td>6</td>
<td>13.81 (.84)</td>
<td>1800</td>
<td>2000</td>
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<tr>
<td>10</td>
<td>21.1 (1.29)</td>
<td>1800</td>
<td>3000</td>
</tr>
<tr>
<td>15</td>
<td>33.0 (2.01)</td>
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<td>2000</td>
</tr>
<tr>
<td>20</td>
<td>42.80 (2.61)</td>
<td>1800</td>
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<tr>
<td>29</td>
<td>61.6 (3.76)</td>
<td>1800</td>
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<tr>
<td>45</td>
<td>94.5 (5.76)</td>
<td>1800</td>
<td>3000</td>
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<tr>
<td><strong>PVE</strong></td>
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<td>74</td>
<td>73.7 (4.5)</td>
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<td>3625</td>
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<tr>
<td>98</td>
<td>98.3 (6.0)</td>
<td>2100</td>
<td>3625</td>
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<td>131</td>
<td>131.1 (8.0)</td>
<td>2000</td>
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<td><strong>PVQ</strong></td>
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<td>10.5 (0.643)</td>
<td>1800</td>
<td>3000</td>
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<td>13.8 (.843)</td>
<td>1800</td>
<td>2000</td>
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<td>21.1 (1.290)</td>
<td>1800</td>
<td>3000</td>
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<td>32</td>
<td>32.9 (2.010)</td>
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<td>2000</td>
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<tr>
<td>40</td>
<td>41 (2.50)</td>
<td>1800</td>
<td>3000</td>
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<tr>
<td>45</td>
<td>45.1 (2.75)</td>
<td>1800</td>
<td>2700</td>
</tr>
</tbody>
</table>

We stock parts for PVB, PVE, PVH, PVQ Piston Pumps.
FluiDyne supports the distributors providing local knowledge and assistance to fluid power customers.

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• Advice on component repair and assembly
• Component failure analysis
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