Our Promise: People make the difference

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 produce our products in the most cost effective manner possible and share the saving with our customers. 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 machines. 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. Customer Service, Engineering, Quality, Manufacturing, Inventory, Shipping and Management all work together to serve our customers. 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, we 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.

• New FluiDyne and Remanufactured Products
• Outstanding Customer Service
• Custom Proprietary software allows immediate & accurate technical support, quoting, order entry & bill of material information
• 18 month warranty
• Standard & Modified Products
• Extensive Michigan Inventory
• Twelve test stands that allow for quick 100% testing of all units shipped
• ISO Certified
• End Customer Protection
• Performance you have come to expect
• Blind Drop Shipments

www.FluiDyneFP.com
## PVQ - Variable Displacement Piston Pump

<table>
<thead>
<tr>
<th>PVB</th>
<th>5</th>
<th>R</th>
<th>S</th>
<th>Y</th>
<th>20</th>
<th>CG</th>
<th>C</th>
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<td>1</td>
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1. **Model Series**
   - PVB – Variable displacement pump

2. **Displacement**
   - 5 – 10.55 cm³/r (0.64 in³/r)
   - 6 – 13.81 cm³/r (0.84 in³/r)
   - 10 – 21.10 cm³/r (1.29 in³/r)
   - 15 – 33.00 cm³/r (2.01 in³/r)
   - 20 – 42.80 cm³/r (2.61 in³/r)
   - 29 – 61.60 cm³/r (3.76 in³/r)

3. **Shaft Rotation** (Viewed at shaft end)
   - R – Clockwise
   - L – Counter Clockwise

4. **Displacement Zone**
   - S – One side of center
     - (Pressure Compensated models only)

5. **Shaft Type**
   - Y – SAE models P*B5 through 15 only

6. **Pump Design Number**
   - 40 – 5 or 6 displacement
   - 40-10 or 15 displacement
   - 20 – 20 or 29 displacement

7. **Displacement Control Options**
   - C – Pressure Compensator
     - Pressure adjustment range: 17 to 210 bar (250 to 3000 psi)
   - CM – Pressure Compensator
     - Pressure adjustment range: 17 to 100 bar (250 to 1500 psi)
   - CG – Remotely adjustable pressure setting

8. **Optional Features**
   - C – Adjustable Maximum Displacement Stop

9. **Compensator Design**
   - 11 – “C” and “CM” control
   - 20 – “CG” control

### PVQ - Variable Displacement Piston Pump

<table>
<thead>
<tr>
<th>PVQ</th>
<th>13</th>
<th>A2</th>
<th>R</th>
<th>SE</th>
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<th>S</th>
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</table>

1. **Model Series**
   - PVQ – Inline Piston Pump
     - Variable Volume Quiet Series

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)

3. **Mounting Flange**
   - A2 – Flange SAE “A”
   - B2 – SAE “B” 2-bolt

4. **Rotation**
   - Viewed from shaft end
     - R – Right hand, standard
     - L – Left hand, optional

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

6. **Shaft, Inputs**
   - 1 – Straight keyed SAE “A” modified (.75” dia. X 1.75” long)
   - 3 – Spline SAE “A” modified (9T16/32 DP major dia. Fit)

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

### Model Codes

*All manufactures names and part numbers are used for reference only.*
### PVE - Variable Displacement Piston Pump

<table>
<thead>
<tr>
<th>PVE</th>
<th>21</th>
<th>R</th>
<th>9</th>
<th>30</th>
<th>C-10</th>
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</tbody>
</table>

1. **Model Series**
   - **PVE** – Pump, variable displacement

2. **Flow Rating @ 1800 rpm**
   - 19 – 19 USgpm
   - 21 – 21 USgpm

3. **Shaft Rotation** (Viewed from shaft end)
   - **R** – Right Hand (Clockwise)
   - **L** – Left Hand (Counterclockwise)

4. **Input Shaft**
   - 1 – SAE B-B straight thread
   - 2 – SAE B-B 15 tooth spline
   - 9 – SAE B 13 tooth spline

5. **Pump Design Number**
   - 30 – Design

6. **Control Type & Design**
   - **C-10** – Pressure compensated
     - (PVE19, 250-3000 psi)
     - (PVE21, 250-2700 psi)
   - **CG-20** – Remote control pressure compensator adjustable from 350-3000 psi using an external relief valve
   - **CV-10** – Load sensing PVE 19/21
   - **CVP-12** – Load sensing (160 PSID) with pressure compensation PVE 19/21
   - **CVPC-12** – Load sensing (350 PSID) with pressure compensation PVE 19/21

*All manufacturers names and part numbers are used for reference only.*

### 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>
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<td>12</td>
<td>13</td>
<td>14</td>
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</tbody>
</table>

1. **Model Series**
   - **PVH** – Variable Displacement 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

4. **Mounting Flange, Prime Mover End**
   - **C** – SAE “C” 4-bolt type

5. **Shaft Rotation** (viewed at prime mover 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

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 12/24 D.P
   - 3 – SAE “CC” splined 17 tooth 12/24 D.P
   - 12 – SAE “D” splined 13 tooth 12/24 D.P
   - 13 – SAE “CC” straight keyed
   - 16 – SAE “D” straight keyed

9. **Shaft Seal, Prime Mover End**
   - **S** – Single, one way
   - **D** – Double, two way
   - Recommended on second pump of tandem assembly (PVE**/*, PVH**/*) and “wet mount” applications

10. **Pump Design Number**
    - 10 (Subject to change, installation dimensions unaltered for design numbers 10 to 19 inclusive.)

11. **Pressure Compensator and Adjustment Range**
    - **C** – 70-250 bar (1015-3625 psi)
    - **CM** – 40-130 bar (580-1885 psi)

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

*All manufactures names and part numbers are used for reference only.*

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FluiDyne Fluid Power

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## TECHNICAL DATA

<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>
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<td><strong>PVB</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PVB5</td>
<td>10.55 (.64)</td>
<td>1800</td>
<td>3000</td>
</tr>
<tr>
<td>PVB6</td>
<td>13.81 (.84)</td>
<td>1800</td>
<td>2000</td>
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<tr>
<td>PVB10</td>
<td>21.1 (1.29)</td>
<td>1800</td>
<td>3000</td>
</tr>
<tr>
<td>PVB15</td>
<td>33.0 (2.01)</td>
<td>1800</td>
<td>2000</td>
</tr>
<tr>
<td>PVB20</td>
<td>42.80 (2.61)</td>
<td>1800</td>
<td>3000</td>
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<td>PVB29</td>
<td>61.6 (3.76)</td>
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<td>2000</td>
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<td><strong>PVQ</strong></td>
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<tr>
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<td>1800</td>
<td>3000</td>
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<tr>
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<tr>
<td>PVH131</td>
<td>131.1 (8.0)</td>
<td>2000</td>
<td>3625</td>
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</table>
FluiDyne supports the distributors providing local knowledge and assistance to fluid power customers.

Our people provide extensive support:

- Engineering expertise
- Decoding special part number
- Identification of parts within units
- Advise on component repair and assembly
- Component failure analysis
- Massive local stock
- New application component selection
- Same day shipment
- 18 month warranty

Our people make the difference!

FluiDyne
FLUID POWER

31915 Groesbeck Highway • Fraser, Michigan 48026
Email: cs@FluiDyneFP.com

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