Racine Vane and Radial Pumps
PSV 10, 15, 20, 25
PSV 40, 80, 100
PVF, PVQ, PVR, PVK, PVT, PVS, VPV
C11, H20, H80

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FluiDyne Fluid Power leads the industry as the premiere “customer centric” organization. From first contact with Customer Service through Manufacturing and Shipping FluiDyne seeks to provide best in class service and support. Our Customer Service is empowered to work with customers to find the best product, delivery and can resolve any problems which may develop along the way. Both Engineering and Application Engineering are available to help with circuit design, installation and/or trouble shooting issues. FluiDyne customers appreciate our large inventory, performance testing, rapid shipments and dedication to detail.

FluiDyne’s large selection of Racine cores enables us to build various sizes and types of Racine product and have it shipped by the next business day. Our pumps are tested and inspected prior to shipping by our quality department. We carry a complete line of Racine PSV pumps available in sizes 10-100.

**PSV Model Codes**

Variable Volume Silent Vane Pumps PSV 10/15, 20/25, 40, 80, 100

<table>
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<th>CODE KEY BREAKDOWN:</th>
<th>PSV-</th>
<th>P</th>
<th>N</th>
<th>S</th>
<th>O</th>
<th>10-100</th>
<th>H</th>
<th>R</th>
<th>M</th>
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<td>H</td>
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<td>V</td>
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<td>C</td>
<td>Flange, Mounted Side Ports 4-Bolt Flanges - 20, 25, 40, 80, 100</td>
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<td>R</td>
<td>Flange, Mounted Rear Ports 4-Bolt Flanges - 40</td>
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</table>

**Flow Rate @ 1750 RPM**

- 10: 7.5 GPM
- 15: 11 GPM
- 20: 15.2 GPM
- 25: 20.2 GPM
- 40: 30 GPM
- 80: 60 GPM @ 1500 psi
- 100: 75 GPM @ 1000 psi

**Pressure Rating Maximum**

- 1000 PSI - 10, 15, 25, 80, 100
- 1500 PSI - 80
- *1500-PSI Maxs. Intermittent Pressure (Non-Shock)*

**Right Hand Rotation**

- Medium Keyed Shaft - 10, 15, 20, 25, 40, 80
- Thru Keyed Shaft - 10, 15, 40, 80

**Combination Pump**

- Original Designs
- 1st & 2nd Stage Update
- 1st & 2nd Stage Changes
- Sol. 2-Press Control Only
- Combination Pump
- 2nd Stage Update
- 1st & 2nd Stage Update
- Sol. 2-Press Control Only

**Buna Seals**

**Viton Seals**

Racine PSV Pumps Available Sizes 10-100
Radial Pump Model Codes

H80 Radial Pump

**CODE KEY BREAKDOWN:**

- **H**
  - High Pressure Shaft Seal for Pressure Priming (250 PSI MAX)
- **F2**
  - Viton Seals (Specify only if desired)

**GPM**

- **L**
  - 5.4 GPM — 3000 PSI Maximum @ 1800 RPM
- **M**
  - 3.1 GPM — 5000 PSI Maximum @ 1800 RPM
- **H**
  - 1.65 GPM — 10,000 PSI Maximum @ 1800 RPM

**# of Pistons**

- **IP**
  - 1 Piston
- **2P**
  - 2 Pistons
- **3P**
  - 3 Pistons, Etc.

**2 Outlet Ports**

**3 Outlet Ports, Etc.**

**2/0**

**3/0**

Foot mounting bracket must be ordered separately in addition to the model number selected.

Example: (1) 80H Pump
(1) PF8-10S Foot mounting bracket

C5 Radial Pump

**CODE KEY BREAKDOWN:**

- **RH**
  - Right Hand Rotation
- **LH**
  - Left Hand Rotation
- **F2**
  - Viton Seals (Specify only if desired)

**GPM**

- **C4**
  - 5.9 GPM — 3000 PSI Maximum @ 1200 RPM
- **C5**
  - 6.6 GPM — 5000 PSI Maximum @ 1200 RPM
- **C11**
  - 10.5 GPM — 5000 PSI Maximum @ 1200 RPM

**# of Pistions**

- **1P**
  - 1 Piston
- **2P**
  - 2 Pistions
- **3P**
  - 3 Pistions, Etc.

Foot mounting and flange mounting brackets must be ordered separately in addition to the model number selected.

Example: Foot Mounting Bracket
(1) C11-F2 Pump
(1) PFC-10S Foot Mounting Bracket
Flange Mounting Bracket
(1) C11-F2 Pump
(1) FPFC-10S Flange Mounting Bracket

Note: When foot mounting bracket is not used, any other style of bracket that will clamp around the cylindrical projection of the shaft end cover plate may be substituted.
**Radial Pump Model Codes**

**H20 Radial Pump**

- **2 Outlet Ports**
- **3 Outlet Ports, Etc.**

**# of Pistons**
- **First Outlet Port**
  - 1 Piston
  - 2 Pistons
  - 3 Pistons, Etc.

- **Second Outlet Port**
  - 1 Piston
  - 2 Pistons
  - 3 Pistons, Etc.

**Viton Seals (Specify only if desired)**

- **H** High Pressure Shaft Seal For Pressure Priming (250 PSI MAX)
- **L** 1.25 GPM — 3000 PSI Maximum @ 1800 RPM
- **H** 0.79 GPM — 6000 PSI Maximum @ 1800 RPM
- **F2** Viton Seals (Specify only if desired)

*These items are optional extras and should be specified by code only when desired. Consult a FluiDyne representative for assistance when ordering ISO-FLO modifications.*

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**Repair Kits**

**Kit Number**

**PSV 10 Repair Kits**
- WF794107 Standard Shaft
- WF794109 Double End Thru Shaft
- WF794395 Combo Shaft

**PSV 15 Repair Kits**
- WF794110 Standard Shaft
- WF794111 Double End Thru Shaft
- WF794397 Combo Shaft

**PSV 20 Repair Kits**
- WF794130 Short Shaft
- WF794131 Short Viton Shaft
- WF794132 Medium Keyed Shaft
- WF794133 Medium Keyed Viton Shaft
- WF794134 Long Keyed Shaft
- WF794135 Long Keyed Viton Shaft
- WF794140 Medium Keyed Thru Shaft
- WF794141 Medium Keyed Thru Viton Shaft
- WF794398 Combo Shaft
- WF794399 Combo Viton Shaft

**Kit Number**

**PSV 25 Repair Kits**
- WF794147 Medium Keyed Single Shaft
- WF794144 Medium Keyed Viton Single Shaft
- WF794149 Medium Keyed Thru Shaft
- WF794146 Medium Keyed Thru Viton Shaft
- WF794400 Combo Shaft
- WF794401 Combo Viton Shaft

**PSV 40 Repair Kits**
- WF794125 Thru 52 Shaft
- WF794403 Combo Shaft
- WF794121 Single Keyed Shaft
- WF794123 Splined Shaft

**PSV 80 Repair Kits**
- WF794101 Keyed Shaft (For Rear Port Cover)
- WF794126 Thru Shaft
- WF794405 Combo Shaft

*Note: Select kit by Shaft Type*

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**Email:** cs@FluiDyneFP.com
**PSV Parts List**

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<tr>
<th>Part Number</th>
<th>Specifications</th>
<th>Description</th>
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<td>WF308330</td>
<td>PSV10 ONLY</td>
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<td>Medium Key Double Shaft-Buna</td>
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Wide range of parts and kits in stock including single and thru combination. Same Day shipment available. Contact a FluiDyne representative for your specific need.
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
- New application component selection
- Same day shipment
- Massive local stock
- 18 month warranty

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