Vane Pumps & Parts
V10/V10F/NF/P
V20/V20F/NF/P
V2010*, V2020*F/NF/P

- Standards and Specials - including Caterpillar Pumps
- Available in Industrial Version, Single & Double Units
- Variety of Shafts Available
- Same Day Shipments

www.FluiDyneFP.com
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, 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.

• 18 month warranty
• Blind drop shipments
• Custom proprietary software allows immediate & accurate technical support, quoting, order entry & bill of material information
• 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
<table>
<thead>
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</tr>
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<td><a href="http://www.FluiDyneFP.com">www.FluiDyneFP.com</a></td>
</tr>
<tr>
<td><strong>1</strong></td>
<td>Special seals</td>
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<td>F3</td>
<td>Special “O”Rings &amp; seals for mineral oil &amp; fire resistant fluid</td>
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<td>Standard cover</td>
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<td>2</td>
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<tr>
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<tr>
<td>F</td>
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<tr>
<td>K</td>
<td>1-15/16”-12 UN 2B thread</td>
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<tr>
<td>P</td>
<td>1” NPT thread</td>
</tr>
<tr>
<td>S</td>
<td>1-5/16”-12 straight thread</td>
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<td>1-3/16”-12 straight thread</td>
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<tr>
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<td>1 gpm</td>
</tr>
<tr>
<td>2</td>
<td>2 gpm</td>
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<tr>
<td>3</td>
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<td>4</td>
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<td>A</td>
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<tr>
<td>B</td>
<td>90° CCW from inlet</td>
</tr>
<tr>
<td>C</td>
<td>Inline with inlet</td>
</tr>
<tr>
<td>D</td>
<td>90° CW from inlet</td>
</tr>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Code</th>
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<tbody>
<tr>
<td>A</td>
<td>250 psi</td>
</tr>
<tr>
<td>B</td>
<td>500 psi</td>
</tr>
<tr>
<td>C</td>
<td>750 psi</td>
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<tr>
<td>D</td>
<td>1000 psi</td>
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<tr>
<td>E</td>
<td>1250 psi</td>
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<td>F</td>
<td>1500 psi</td>
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<td>G</td>
<td>1750 psi</td>
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<tr>
<td>H</td>
<td>2000 psi</td>
</tr>
<tr>
<td>J</td>
<td>2250 psi</td>
</tr>
<tr>
<td>K</td>
<td>2500 psi</td>
</tr>
<tr>
<td>O</td>
<td>Defined by Special Suffix</td>
</tr>
</tbody>
</table>

*Additional Shafts Available*
**Special Seals**
- F3: For mineral oil & fire resistant fluids (Omit if not required)

**Vane Pump**

**Cover Type**
- F: Flow control cover
- P: Priority valve cover
- NF: Flow control cover & relief w/ internal drain

**Mounting**
- 1: Flange, 2 bolt SAE A size
- 2: Foot bracket at 12 o'clock*
- 6: Flange, 2 bolt SAE B size
- 23: Foot bracket at 3 o'clock*
- 26: Foot bracket at 6 o'clock*
- 29: Foot bracket at 9 o'clock*

* (Viewed from shaft end)

**Inlet Port Connection**
- B: G 1-1/4" BSPP St. Thd.
- D: 1-5/16"–12 UN-2B thread
- E: 1-1/2" dia. 2 bolt flange
- F: 1-5/32" dia. 2 bolt flange
- R: 1" NPT
- S: 1-5/8"–12 straight thread

**Outlet or Primary Outlet Port Positions**
- A: Opposite inlet
- B: 90˚ CCW from inlet
- C: Inline with inlet
- D: 90˚ CW from inlet

**Flow Rate (V20F & V20P)**
- Through orifice in cover

**Pressure Setting (V20F & V20P)**
- A: 250 psi
- B: 500 psi
- C: 750 psi
- D: 1000 psi
- E: 1250 psi
- F: 1500 psi
- G: 1750 psi
- H: 2000 psi
- J: 2250 psi
- K: 2500 psi

**Shaft Seal Type**
- S: Double lip seal and open bearings (22 design only)
- Omit: Single lip seal and sealed bearings

**Shaft Type**
- 1: 3/4" Straight, keyed 2.66" ext.
- 3: 15/16" Thd., Str. with woodruff key
- 11: Spline 11 tooth, 2.94" ext.
- 38: Spline 11 tooth, 1.25" ext.
- 62: Spline 9 tooth, 1.25" ext.

*Additional Shaft Options Available*
### V2010 Model Code

- **(F3) - V 2010 * - * (*) F * S * S - 1 ** - 12 (L)**

1. **Special Seals**
2. **Vane Pump**
3. **Series Designation**
4. **Cover Type**
   - **F** – Flow control cover
   - **P** – Priority valve cover
   - **NF** – Flow control cover & relief with internal drain
   - **Omit** – Standard cover
5. **Mounting**
   - **1** – Flange, 2 bolt SAE B size
   - **2** – Foot bracket
   - **6** – Flange, 2 bolt SAE A size
6. **Foot Bracket**
   - (Mounting position with respect to inlet port when viewed from shaft end. No code required for inlet port at 12 o’clock)
   - **3** – Inlet port at 3 o’clock
   - **6** – Inlet port at 6 o’clock
   - **9** – Inlet port at 9 o’clock
   - **Omitted for flange mounting**
7. **Inlet Port**
   - **F** – 4 bolt flange, 1.500 dia.
8. **Ring Capacity (Shaft End)**
   - (Rated capacity (gpm) at 1200 rpm, 6.9 bar (100 psi))
   - **6** – 6 gpm
   - **7** – 7 gpm
   - **8** – 8 gpm
   - **9** – 9 gpm
9. **No. 1 Outlet Port (Shaft End)**
   - **S** – 1-1/16–12 UN 2B thread
10. **Ring Capacity (Cover End)**
    - (Rated capacity (gpm) at 1200 rpm, 6.9 bar (100 psi))
    - **1** – 1 gpm
    - **2** – 2 gpm
    - **3** – 3 gpm
    - **4** – 4 gpm
11. **No. 2 Outlet Port (Cover End)**
    - **Code**
    - **Flow Control Cover Pressure**
    - **Tank**
    - **P**
      - 1/2” NPT Thd.
      - 3/4”–16 St.Thd.
      - 1/2” NPT Thd.
    - **R**
      - 1-1/16–12 St.Thd.
    - **S**
      - 3/4”–16 St.Thd.
    - **T**
      - 3/4”–16 St.Thd.
      - 3/4”–16 St.Thd.
    - **NF only available with T pressure port**
12. **Shaft Type**
    - **1** – 7/8” Str., keyed 2.31” ext.
    - **3** – 7/8” thd., Str. with woodruff key
    - **11** – Splined 13 tooth
13. **Outlet Port Orientation**
    - (Viewed from cover opposite inlet)
    - **AA** – No. 2 outlet 135° CCW from inlet
    - **AB** – No. 2 outlet 45° CCW from inlet
    - **AC** – No. 2 outlet 45° CW from inlet
    - **AD** – No. 2 outlet 135° CW from inlet
    - **BA** – No. 2 outlet 135° CCW from inlet
    - **BB** – No. 2 outlet 45° CCW from inlet
    - **BC** – No. 2 outlet 45° CW from inlet
    - **BD** – No. 2 outlet 135° CW from inlet
    - **CA** – No. 2 outlet 135° CCW from inlet
    - **CB** – No. 2 outlet 45° CCW from inlet
    - **CC** – No. 2 outlet 45° CW from inlet
    - **CD** – No. 2 outlet 135° CW from inlet
    - **DA** – No. 2 outlet 135° CCW from inlet
    - **DB** – No. 2 outlet 45° CCW from inlet
    - **DC** – No. 2 outlet 45° CW from inlet
    - **DD** – No. 2 outlet 135° CW from inlet
14. **Design 10 – 19**
15. **Rotation**
    - (Viewed from shaft end of pump)
    - **R** – Right hand (clockwise)
    - **L** – Left hand (counterclockwise)

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**FluiDyne FLUID POWER**

[www.FluiDyneFP.com](http://www.FluiDyneFP.com)
V2020 model code

(F3) - V 2020 - (*) * (*) F * S * S - 1 ** - * - 20 (L)

1
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16
17

1. Viton Seals
   (Omit if not required)

2. Vane Pump

3. Series Designation

4. Cover Type
   F – Flow control cover
   P – Priority valve cover
   NF – Flow control cover & relief with internal drain
   Omit – Standard cover

5. Mounting
   1 – 2 Bolt SAE “B”
   2 – Foot bracket
   6 – 2 Bolt SAE “A”

6. Foot Bracket
   Mounting position with respect to inlet port when viewed from shaft end. No code required for inlet port at 12 o'clock.
   3 – Inlet port at 3 o'clock
   6 – Inlet port at 6 o'clock
   9 – Inlet port at 9 o'clock
   Omitted for flange mounting.

7. Inlet Port
   F - 4-bolt flange 2.00" dia.

8. Ring Capacity - Shaft End
   (gpm at 1200 rpm and 100 psi)
   6 - 6 gpm  7 - 7 gpm  8 - 8 gpm  9 - 9 gpm

9. No. 1 Outlet Port (Shaft End)
   S - 1-1/16”-12 UN-2B thread

10. Ring Capacity - Cover End
    (gpm at 1200 rpm and 100 psi)
    6 - 6 gpm  7 - 7 gpm  8 - 8 gpm  9 - 9 gpm

11. No. 2 Outlet Port Connections
    (See table below)

12. Shaft Type
    1 – 7/8”Straight – keyed, 2.31” ext.
    3 – 7/8” Thd., Str. with woodruff key
    11 – Spline 13 tooth

13. Outlet Positions
    (Facing cover end of pump)
    Outlet #1 Outlet #2 Position
    A  A  Opposite inlet
    B  B  90° CCW from inlet
    C  C  Inline with inlet
    D  D  90° CW from inlet

   Any combination of outlet positions may be used. See model code unit (i.e. V2020P***AD-20).
   A - Opposite inlet (Outlet #1)
   D - 90 CCW from inlet (Outlet #2)

14. Flow Rate
    (Thru orifice in cover gpm)
    1 - 1 gpm  2 - 2 gpm  3 - 3 gpm
    4 - 4 gpm  6 - 6 gpm  8 - 8 gpm

15. Pressure Setting
    (Relief Setting psi)
    C - 750  D - 1000  E - 1250  F - 1500

16. Design 20 – 39

17. Rotation
    (Viewed from shaft end)
    R - Right hand (clockwise)
    L - Left hand (counterclockwise)

Outlet No. 2 Port Connections (Cover End)

<table>
<thead>
<tr>
<th>Code</th>
<th>Std. Cover</th>
<th>Flow Control Cover</th>
<th>Primary Outlet</th>
<th>Secondary Outlet</th>
<th>Tank</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>- 3/4&quot;-16</td>
<td>St. thd.</td>
<td>1/2&quot; NPT thd.</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>S</td>
<td>1-1/16''-12</td>
<td>St. thd.</td>
<td>1-1/16''-12</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>T</td>
<td>- 3/4&quot;-16</td>
<td>St. thd.</td>
<td>3/4&quot;-16 St. thd.</td>
<td>7/8''-14 St. thd.</td>
<td>3/4''-16 St. thd.</td>
</tr>
</tbody>
</table>

*NF only available in T port
Your choice for interchange hydraulic pumps, motors, valves and filters.

**PUMPS & MOTORS**

- FluiDyne
- Remanufactured products
- Veljan

**VICKERS / EATON**

- **VHO / VQ Single, Double & Triple**
  - 20, 25, 30, 35, 45 (V/VQ/VT) 50V
  - 2520, 3520, 4525, 4525, 4535 (V/VQ)
  - 2520, 3520, 4525, 4525, 4535 VQS V10
  - Cart Kits available for all sizes

- **Round Pumps**
  - V104/5, V108/9, V110/1, V124/5, V128/9, V134/5
  - V144/5, V148/9, V350/3/6, V360/1/2, V368/9/70
  - VC108, 138, 148 Combination Pumps

- **Square Pumps**
  - V10F, V10NF, V10P, V20F, V20NF, V20P
  - V210, V214, V230

- **Piston Pumps**
  - PVH 57, 74, 98, 131, 141
  - PVE 12, 19, 21, 27*, 35*, 47*, 62*
  - PV6 5, 6, 10, 15, 20, 29, 45, 45A, 90*
  - PVG 10, 13, 20, 25*, 32, 40, 45
  - PV18 20, 45, 50, 57, 63, 74, 81, 98, 106, 131, 141
  - PFB/MPFB 5, 6*, 10, 15*, 20*, 29*, 45*

- **Motors**
  - MHT 32, 50, 70, 90, 110, 150, 250, 330, 440, 500, 750, 1000
  - 25M, 26M, 35M, 36M, 45M, 46M, 50M
  - M2-210
  - MFB 5, 10, 20, 29
  - MMFB 5, 10, 20, 29

- **Transmissions**
  - TA15, 19, 1919, 19V, 21

**REXROTH**

- A10V(S) 10, 18, 28, 45, 60, 63, 71, 74, 100, 140
- A4V(S) 40, 071, 125, 180, 250

**GEAR PUMPS**

- C101/102 Dump
- Aluminum Gear

**DIRECTIONALS**

- **Directional Valves**
  - D03 – D64V3, 4WE6
  - D05 – D64S401, 4WE10
  - DG5V5, DG5S4 02*, DG5S4 04, 4WEH10, 4WEH16
  - DG8 – DG5S4 06, DG6S8/H8, 4WEH25
  - DG17S/V, D03/D05

- **Flow Control Valves**
  - FCG 02/03

- **Pressure Controls**
  - X (C) G OR T 03, 06, 10

**DENISON**

- PV6, 10, 15, 20, 29

**OILGEAR**

- PVW (W) (H) 04, 06, 10, 11, 15, 20, 25, 34, 45, 60
- PVW (J) 11, 14, 22, 25, 34, 46, 64, 76, 98, 130
- PVG 048, 065, 075, 100, 130

**VELJAN**

- Single T6, T7
- Double T6, T67, T7
- Triple T6, T67, T7
- Drive Train T6*R
- M4C, M4D, M4E
- M3B
- TX81/TX82

**GAROLER/GERTOR MOTOR**

- H SERIES (101)
- S SERIES (103)
- 2000, 4000 (104, 109)
- 6000, 10,000 (112, 119)
- J SERIES (129)
- 500 Series (500/501)
- 211 Series

**INTERCHANGES WITH:**

- EATON
- SAUER-DANFOSS
- WHITE
- PARKER / ROSS / TRW
- CHARLYNN

**Check Valves**

- C56, C2
- 4CT, 4CG
- DTB P1
- CV 06, 08, 10, 12

**Relief Valves**

- C79
- R15 Remote Relief

**Flow Control Valves**

- C5V 06, 08, 10, 12

**Flange Mounted Valves**

- R5V/R5S/R5U: 06, 08, 10, 12
- C5V 06, 08, 10, 12

**Unloading Relief Valves**

- URG/T 1/2, 06/10

**Stack Modules**

- DGM Stacks, Flow Control, Reliefs, Checks, Pressure Controls (D03, 5, 7, 8)

**Needle Valves**

- 1/8" through 1-1/4"**

*Manufacturers names and numbers are for reference only

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