Veljan Flange Mounted Relief, Unloading & Sequence Valves

- Same Day Shipment of Units or Part Orders
- Interchangeable Parts
- Fully Tested

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
- 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
### Remote Control Pressure Relief Valve

**Example:** Foot Mounting

- **Series:** VR1E02
- **Modification:** 3 3 1 1 - A - 1 - ***
- **Body Mounting:**
  - 0: Cartridge
  - 1: Foot Mounting
  - 2: Panel Mounting
  - 3*: Subplate Mounting
- **Pressure Setting Range:**
  - 1: 100-1500 psi (7 to 105 bar)
  - 3: 100-3000 psi (7 to 210 bar)
  - 5: 100-5000 psi (7 to 350 bar)
- **Connections:**
  - 0: None (for cartridge)
  - 1: 1/4" NPTF
  - 2: G 1/4"
  - 3: 7/16"-20 UNF
- **Type of Control:**
  - 1: Hand knob (32mm dia)
  - 2*: Hand knob (50mm dia)
  - 3: Acorn nut with lead seal
- **Seal Class:**
  - 1: Buna N - (Standard)
  - 5: Viton
- **Design Letter:**

*While using control type 2 with subplate mounting body, use additional adapter plate (order no VS16-64188) with 4 - M10 x 55 mounting screws.*

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**Symbol:**

- **P:** Inlet
- **T:** Outlet
- **W:** Damping spool

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**SERIES**
- VR5V - Pressure Relief Valve
- VR5U - Pressure Unloading Valve
- VR5S - Pressure Sequence Valve

**SIZE**
- 06 - \( \frac{3}{4}'' \)
- 08 - 1''
- 10 - \( \frac{1}{2}'' \)
- 12 - \( \frac{1}{2}'' \)

**MAX. PRESSURE OF VALVE BODY**
- 3 - 3000psi (210 bar) - SAE 61 flange (VR5V12/VR5U12)
- 4 - 4000psi (280 bar) - SAE 61 flange (VR5*10)
- 5 - 5000psi (350 bar) - SAE 61 flange (VR5*06/08)
- 6 - 6000psi (420 bar) - SAE 62 flange (VR5V12 only)

**BODY**
- Ports X, Y, M
  - 1 - \( \frac{1}{4}'' \) NPTF
  - 3 - SAE - 4 (7/16'' 20 UNF)
  - 9 - G\( \frac{1}{4}'' \)
  1\(^{\text{st}}\) Port Y is only available at external drain from the pilot head

**PRESSURE SETTING RANGE**
- 1 - 100 - 1500 psi (7 - 105 bar)
  - VR5U: Pressure Differential 20%
- 3 - 100 - 3000 psi (7 - 210 bar)
- 5 - 100 - 5000 psi (7 - 350 bar), VR5U: Pressure Differential 15%
- 6 - 100 - 6000 psi (7 - 420 bar) (VR5V12 only)

**TYPE OF CONTROL**
- 1 - Hand knob (32mm dia)
- 2 - Hand knob (50mm dia) (not for version with vent valve VV01)
- 3 - Acorn nut with lead seal

**MODIFICATION**
- **SEAL CLASS**
  - 1 - Buna N (Standard)
  - 5 - Viton

**DESIGN LETTER**
- **SOLENOID VOLTAGE**
  (Omit for non vent version)
  - W01 - 115V/60 Hz AC GOR - 12V DC
  - W02 - 230V/60 Hz AC GOQ - 24V DC
  - W06 - 115V/50 Hz AC GOH - 48V DC
  - W07 - 230V/50 Hz AC

**ELECTRICAL VENT**
(3way vent valve VV01)
- Omit for non vent version
- 09 - With manual override (Solenoid de-energized: open to tank. Solenoid Energized: vent line blocked)
- 10 - Without manual override (Solenoid de-energized: open to tank. Solenoid energized: vent line blocked)
- 11 - With manual override (Solenoid de-energized: vent line blocked. Solenoid energized: open to tank)
- 12 - Without manual override (Solenoid de-energized: vent line blocked. Solenoid energized: open to tank)

**PILOT CONNECTION**
- 2 - Internal PD - Internal PP (VR5V)
- 4 - External PD - External PP (VR5U)
- 5 - Internal PD - External PP (VR5U)
- 6 - External PD - Internal PP (VR5V, VR5S)

2\(^{\text{nd}}\) External pilot pressure connection on flange face
PILOT OPERATED PRESSURE CONTROLS VENT VALVE FOR VR5 SERIES

Type of control - Code 3  
Acorn nut with lead seal

Type of control - Code 2  
Hand knob 50mm dia  
(not for version with vent valve VVV01)

Plug-in connector DIN 43650  
(supplied as standard)

Solenoid can be positioned  
- at 90° intervals (AC)  
- In any position (DC)

<table>
<thead>
<tr>
<th>Code</th>
<th>Pressure Relief Valve VR6V</th>
<th>Pressure Unloading Valve VR6U</th>
<th>Sequence Valve VR6S</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Internal Drain</td>
<td>External Drain</td>
<td>Internal Drain</td>
</tr>
<tr>
<td>11 or 12</td>
<td><img src="image1.png" alt="Diagram" /></td>
<td><img src="image2.png" alt="Diagram" /></td>
<td><img src="image3.png" alt="Diagram" /></td>
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<tr>
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<td><img src="image4.png" alt="Diagram" /></td>
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<td><img src="image6.png" alt="Diagram" /></td>
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PILOT OPERATED PRESSURE CONTROLS VENT VALVE FOR VR5 SERIES

Solenoid coil can be positioned:
- at 90° intervals (AC)
- in any position (DC)

MODEL CODE

<table>
<thead>
<tr>
<th>SERIES</th>
<th>1</th>
</tr>
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<tbody>
<tr>
<td>TYPE</td>
<td>3</td>
</tr>
<tr>
<td>SPOOL POSITION</td>
<td>3-way model</td>
</tr>
<tr>
<td>CONTROL</td>
<td>1 - plug-in type solenoid with manual over-ride, 2 - plug-in type solenoid without manual over-ride, D - Pneumatic, Q - Hydraulic</td>
</tr>
</tbody>
</table>

SEAL CLASS
1 - Buna N (Standard), 5 - Viton

DESIGN LETTER
D - AC Solenoid, E - DC Solenoid

SOLENOID VOLTAGE
W01 - 115V/60 Hz AC, W02 - 230V/60 Hz AC, W06 - 115V/50 Hz AC, W07 - 230V/50 Hz AC

Weight (VVV01): 3.73 lbs (1.7 kg)

Check with sales for additional Din connector options.
FluiDyne Interchange Products

Your choice for interchange hydraulic pumps, motors, valves, and filters.

**PUMPS & MOTORS**

- **FluiDyne**
- **Remanufactured products**
- **Aftermarket**
- **Veljan**

**VICKERS / EATON**

**VHO / VQ Single, Double & Triple**
- 20, 25, 30, 35, 40, 45 (V/VQ)
- 2520, 2521, 3520, 3525, 4520, 4525, 4535 (V/VQ)
- Cart Kits available for all sizes

*Caterpillar part numbered pumps also available*

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

**Square Pumps**
- V10F, V10NF, V10P, V20F, V20NF, V20P
- V10, V20, V2010, V2020

**DENISON**
- Single T6, T7
- Double T6, T67, T7
- Triple T6, T67, T7
- PV6, 10, 15, 20, 29
- M4C, M4D, M4E

**OILGEAR**
- PW (W) (H) 06, 10, 15, 20, 34, 45, 60

**VELJAN**
- Single VT6, VT7
- Double VT6, VT67, VT7
- Triple VT6, VT67, VT7
- Drive Train VT6*R
- VM4C, VM4D, VM4E
- VM3B

**DUMP PUMPS**
- C101/102

**Valve and Stacks**

**Relief Valves**
- CT/CG/CS/CF 03, 06, 10
- RSV/006, 08, 10, 12
- RIE02

**Stack Modules**
- DGM Staks, Flow Control, Reliefs, Checks, Pressure Controls

**Needle Valves**
- 1/8 thru 1-1/2

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

**Films Interchanges**

** Filters**
- FluiDyne has a full range of replacement filters elements and filter housings for:
  - Pall
  - Hycon
  - Schroeder
  - Vickers
  - Hydac
  - Parker

*Manufacturers names and numbers are for reference only*
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
- Advice on component repair and assembly
- Component failure analysis
- Massive local stock
- New application component selection
- Same day shipments
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