TIDAL FLUID POWER

AVAILABILITY, SERVICE, QUALITY, PRICE

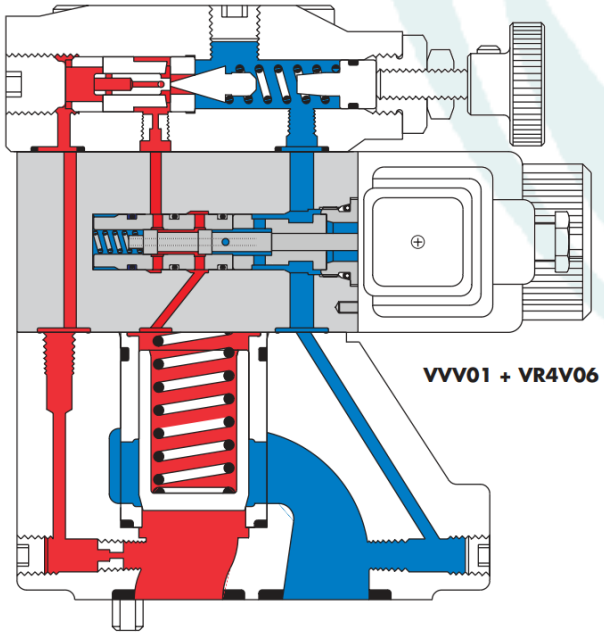
# VENT VALVE

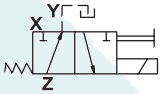
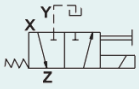
## VVV01

### Veljan Vent Valve

Veljan Vent Valve VVV01 are electrically operated 3/2 way devices and are compatible with Veljan pilot operated pressure controls and 2 way seat valves. Due to sandwich design, these vent valves can be easily installed into existing valves. No extra components such as subplates, fittings and piping are required.

VVV01 sandwiched between the power component or main body and the pilot section or cap of the valve it is controlling, directs the pilot oil to the power component to allow its designated function at system pressure, or to the pilot oil return to allow unloading. Two different control spools are available for the functions. These are for “Power component unloaded in normal position” and “Power component unloaded in switch position”. Solenoids are with manual override and leakproof function. Coils can be changed without interfering with the hydraulic circuit.




| VVV01 | 3 | 1 | 1 | W07 | D | 1 |
|---|---|---|---|---|---|---|
| **Description** | **Type** | **Spool Position** | **Control** | **Solenoid Voltage** | **Design** | **Seal Class** |
| Series | 3 – 3 way model | 1 – Normal Position; free flow from Z to Y<br>Switch Position: X to Z<br>  <br>2 – Normal Position: X to Z<br>Switch Position: free flow from Z to Y<br>  | 1 = plug-in-type solenoid with manual override<br><br>2 = plug-in-type solenoid without manual override<br><br>D – Pneumatic<br>Q - Hydraulic | W01 – 115V/60 Hz AC<br>W02 – 230V/60 Hz AC<br>W06 – 115V/50 Hz AC<br>W07 – 230V/50 Hz AC<br><br>GOR – 12VDC<br>GOQ – 24VDC<br>GOH – 48VDC | D = AC<br>E = DC | 1 – Buna N (Standard)<br><br>5 – Viton |

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# Specifications:

| | |
|---|---|
| **GENERAL:** | |
| Type: | 3/2 Vent Valve |
| Mounting Position: | Optional but horizontal recommended |
| Port Sizes (nominal): | Identical with VELJAN Pilot valve series VR4, VR5, VD4S and VCAR |
| Ambient Temperature: | -20°C … +60°C |
| **HYDRAULICS:** | |
| Pressure Control Range<br>- Port X (pilot)<br>- Port Y (drain) | <br>5000 psi (350BAR)<br>2030 psi (140BAR) |
| Nominal flow gpm (lpm) | 1.0 (3.8) |
| Fluid Temperature Range: | -18°C…+80°C |
| Optimum operating viscosity | 30 cSt (180 SSU) |
| Overlap | Positive |
| **ACTUATION:** | |
| Electric | By Solenoid |
| Type of Current: | AC or DC |
| Nominal Voltage: | Refer to ordering code |
| Permissible voltage fluctuation: | +5% … 10% |
| Max. coil temperature | +155°C |
| Input power | 31W |
| Holding | 78VA |
| Inrush | 264VA |
| Relative Operating period | 100% |
| Type of protection | 1 P 65 |
| **RESPONSE TIME:** | |
| Solenoid Energized | AC – 20ms<br>DC – 46ms |
| Solenoid De-energized | AC – 18ms<br>DC – 27ms |
| Cycle | AC - ….7200/h<br>DC- ….16000/h |

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