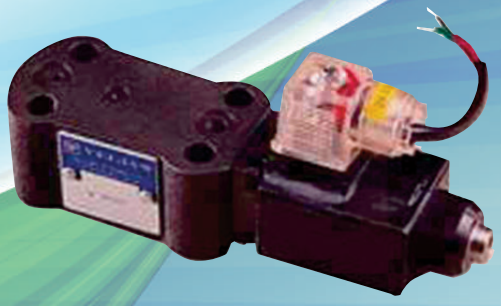
FluiDyne™
FLUID POWER

Veljan Flange Mounted Relief, Unloading & Sequence Valves

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



www.FluiDyneFP.com

NATIONAL FLUID POWER ASSOCIATION
NFPA
MEMBER

Our 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 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.

Voted "Best Customer Technical Service 2014"

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**

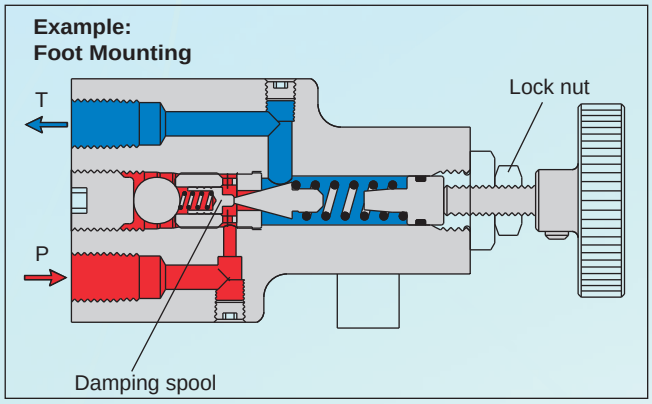
NATIONAL FLUID POWER ASSOCIATION NFPA MEMBER

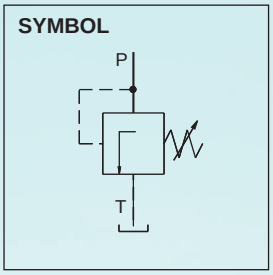
ISO 9001:2008 REGISTERED FIRM

FLUIDYNE FLUID POWER OVER 35 YEARS OF QUALITY 1976-2014

www.FluiDyneFP.com

REMOTE CONTROL PRESSURE RELIEF VALVE





MODEL CODE

VR1E02 - 3 3 1 1 - A - 1 - *

SERIES

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

DESIGN LETTER

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

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

PILOT OPERATED PRESSURE CONTROLS FLANGED TYPE VR5 SERIES

MODEL CODE

VR5V- 06 5 1 5 1 2 09 W01 B 1 *

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

SIZE
06 - 3/4"
08 - 1"
10 - 1 1/4"
12 - 1 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_1, Y_1[1)], M
1 - 1/4" NPTF
3 - SAE - 4 (7/16"- 20 UNF)
9 - G 1/4"
[1)] Port Y_1 is only available at external drain from the pilot head

PRESSURE SETTING RANGE
1 - 100 - 1500 psi (7 - 105 bar)
3 - 100 - 3000 psi (7 - 210 bar)
VR5U: Pressure Differential 20%
5 - 100 - 5000 psi (7 - 350 bar), VR5U: Pressure Differential15%
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 VVV01)
3 - Acorn nut with lead seal

PILOT CONNECTION
2 - Internal PD - Internal PP (VR5V)
4 - External PD - External[2] PP (VR5U)
5 - Internal PD - External[2] PP (VR5U)
6 - External PD - Internal PP (VR5V, VR5S)
[2)] External pilot pressure connection on flange face

ELECTRICAL VENT
(3way vent valve VVV01)
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)

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

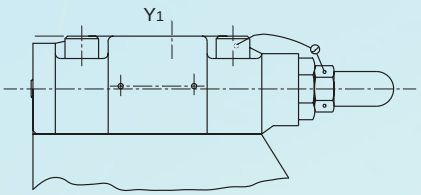
DESIGN LETTER

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

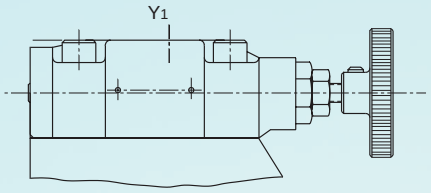
MODIFICATION

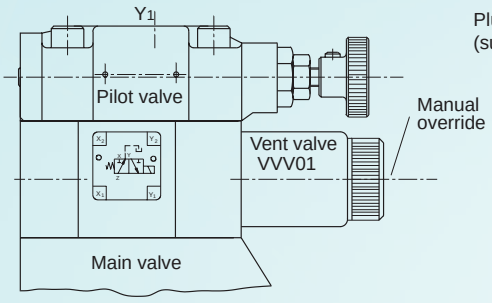
PILOT OPERATED PRESSURE CONTROLS VENT VALVE FOR VR5 SERIES

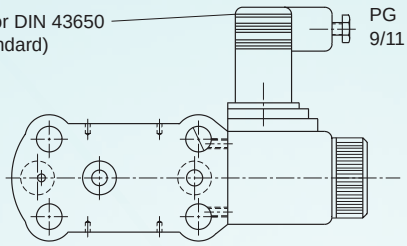
Type of control - Code 3
Acron nut with lead seal



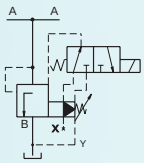
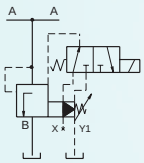
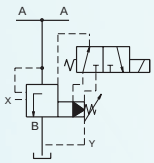
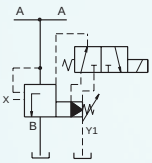
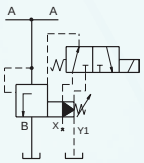
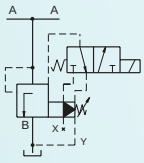
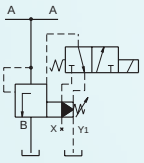
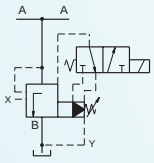
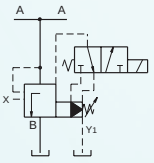
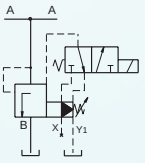
Type of control - Code 2
Hand knob 50mm dia
(not for version with vent valve VVV01)



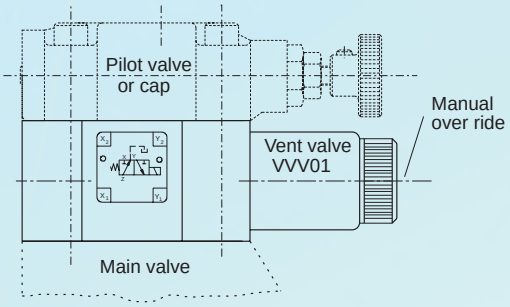


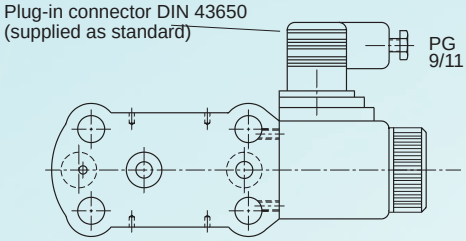


Solenoid can be positioned
- at 90° intervals (AC)
- In any position (DC)

Code	Pressure Relief Valve VR5V		Pressure Unloading Valve VR5U		Sequence Valve VR5S
	Internal Drain	External Drain	Internal Drain	External Drain	External Drain
11 or 12					
09 or 10					

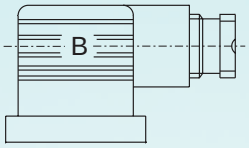
PILOT OPERATED PRESSURE CONTROLS VENT VALVE FOR VR5 SERIES





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

Weight (VVV01) : 3.73 lbs (1.7 kg)



Check with sales
for additional Din
connector options.

MODEL CODE

VVV01 - 3 1 1 - W07 D - 1

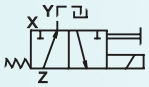
SERIES

TYPE

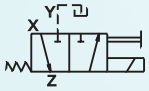
3 - 3 - way model

SPOOL POSITION

1 - Normal position: free flow from Z to Y
Switch position: X to Z



2 - Normal position: X to Z
Switch position: free flow from Z to Y



CONTROL

1 - plug - in - type solenoid with manual over-ride
2 - plug - in - type solenoid without manual over-ride
D - Pneumatic
Q - Hydraulic
} On request

SOLENIOD VOLTAGE

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		

DESIGN LETTER
D - AC Solenoid
E - DC Solenoid

SEAL CLASS
1 - Buna N
(Standard)

5 - Viton

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, V350/3/6, V360/1/2, V368/9/70
- ■ VC108, 138, 148 Combination Pumps

Square Pumps

- ▲ ■ V10F, V10NF, V10P, V20F, V20NF, V20P
- ▲ ■ V10, V20, V2010, V2020

Motors

- ■ MHT 32, 50, 70, 90, 150, 250, 330, 440 500, 660, 750, 1000
- ▲ ■ 25M, 26M, 35M, 36M, 45M, 46M, 50M
- ▲ ■ M2-210

Piston Pumps

- ▲ ■ PVH 57, 74, 98, 131, 141
- ▲ ■ PVE 12, 19, 21, 27, 35, 47, 62

Transmissions

- ■ TA15, 19, 1919, 19V, 21

DENISON

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

OILGEAR

- ■ PVW (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

RACINE/BOSCH

- ▲ ■ PSV 10, 15, 20, 25, 40
- ▲ ■ PSV 80, 100
- ● ■ PVF, PVQ, PVR
- ● ■ PVK, PVT, PVS
- ■ VPV

REXROTH

- ▲ ■ A10V(S)018
- ▲ ■ A10V(S)028, 45, 71, 100, 140
- ▲ ■ A4V(S)071, 125, 180, 250

CHAR-LYNN

- ▲ H SERIES (101-)
- ▲ S SERIES (103-)
- ▲ 2000, 4000 (104-, 109-)
- ▲ 6000, 10,000 (112-, 119-)
- ▲ J SERIES (129-)

INTERCHANGES WITH:

EATON
SAUER-DANFOSS
WHITE
PARKER/ROSS/TRW

VALVES

Directional Valves

- ▲ ■ D03 – DG4V3, 4WE6
- ▲ ■ D05 – DG4S401, 4WE10
- ▲ ■ DG5V5, DG5S4, 4WEH10, 4WEH16
- ▲ ■ D08 - DG5S4, DG5S8, 4WEH25
- ▲ ■ DG17S/V 03, 05

Check Valves

- ▲ ■ CG5
- ■ 4CT, 4CG
- ■ DT8P1
- ◆ VCSU06, 08, 10, 12

Relief Valves

- ▲ ■ CT/CG/CS/CF 03, 06, 10
- ◆ RSV/U06, 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

Valves and Stacks

- ■ DO3-5-7-8

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

586.296.7200 • Email: sales@FluiDyneFP.com • www.FluiDyneFP.com

FluiDyne™ FLUID POWER

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
- 18 month warranty

Powered by Customer Service!

FluiDyne™
FLUID POWER

31915 Groesbeck Highway • Fraser, Michigan 48026
PH: 1-586-296-7200 • FAX: 1-586-296-7210
Email: sales@FluiDyneFP.com

www.FluiDyneFP.com

FluiDyne Contact Info and Website

FLUIDYNE FLUID POWER OVER 35 YEARS OF QUALITY 1976-2014

THE FPDA MOTION & CONTROL NETWORK MEMBER

NATIONAL FLUID POWER ASSOCIATION NFPA MEMBER

ISO 9001:2008 REGISTERED FIRM

8/2014