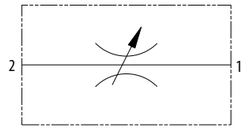
MRV2-16 - Flow restrictor valve

Semi-rotary
Up to 170 L/min (45 USgpm) • 210 bar (3000 psi)



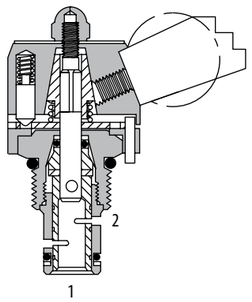
Operation

This valve will increase or decrease flow by changing the variable orifice with the rotary adjustment. Recommended flow path is 2 to 1.

Features

Hardened and ground working components. Cartridge construction for maximum mounting flexibility. Flexible mounting for the handle position, detent available.

Sectional view



Performance data

Ratings and specifications

Performance data is typical with fluid at 21,8 cSt (105 SUS) and 49°C (120°F)		
Typical application pressure (all ports)		210 bar (3000 psi)
Rated inlet flow	**10** – 0-37,8 L/min **15** – 0-56,7 L/min **20** – 0-75,7 L/min **25** – 0-94,6 L/min **30** – 0-113,5 L/min **35** – 0-132,4 L/min **40** – 0-151,4 L/min **45** – 0-170,3 L/min	(0–10 USgpm) (0–15 USgpm) (0–20 USgpm) (0–25 USgpm) (0–30 USgpm) (0–35 USgpm) (0–40 USgpm) (0–45 USgpm)
Internal leakage		82 cm³/min (5 in³/min maximum 210 bar (3000 psi)
Temperature range		-40° to 120°C (-40° to 248°F)
Manual Operators *Light duty housing only.	**D** – **L** – **K** –	Lever (10 position detent)* Lever (friction lock)* Knob (non-locking)
Cavity		C–16–2
Fluids		All general purpose hydraulic fluids such as: MIL-H-5606, SAE 10, SAE 20 etc.
Filtration		Cleanliness code 18/**16/13**
Standard housing material		Aluminum
Weight cartridge only		0,79 kg (1.74 lbs)
Seal kit		565810 (Buna-N), 889609 (Viton®)

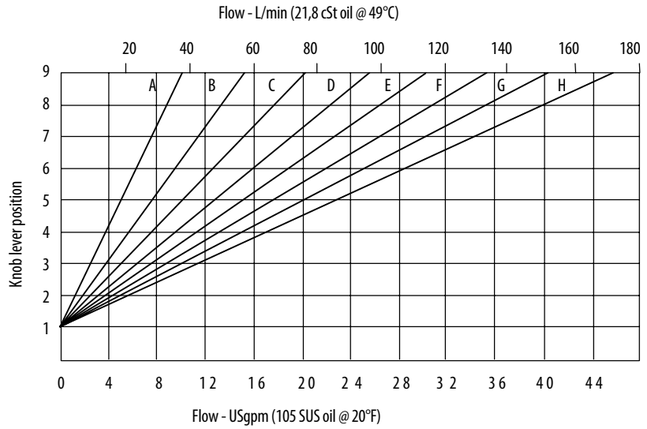
Viton is a registered trademark of E.I. DuPont

Description

This is a 2 way 2 position manually operated semi rotary restrictor screw in cartridge valve. This can be used in conjunction with a compensator to give an increase in flow in proportion to the movement of the lever.

Pressure drop curves

Cartridge only
@ 5,5 bar (80 psi) pressure drop



Rated flow (See model code position 6)

A - 10
B - 15
C - 20
D - 25
E - 30
F - 35
G - 40
H - 45

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

MRV2-16 - Flow restrictor valve

Semi-rotary
Up to 170 L/min (45 USgpm) • 210 bar (3000 psi)

Model code

MRV2 – 16 (V) – * – ** – ** – 00

1 2 3 4 5 6 7

1 Function

MRV2 - Manual rotary valve

2 Size

16 - 16 size

3 Seal material

Blank - Buna-N
V - Viton®

4 Adjustment

O - Cartridge only
D - Lever (10 position detent)*
L - Lever (friction lock)*
K - Knob (non-locking)
*Light duty housings only.

5 Port size

Code	Port size	Housing number	
		Aluminium light duty	Aluminium fatigue rated
0	Cartridge only	02-175463	–
6B	3/4" BSPP	566149	–
12T	SAE 12	–	876716
4G	1/2" BSPP	–	876718
6G	3/4" BSPP	–	876717
10H	SAE 10	–	566113
12H	SAE 12	–	

See section J for housing details.

6 Max flow ranges

10 - 0-37,8 L/min (0-10 USgpm)
15 - 0-56,7 L/min (0-15 USgpm)
20 - 0-75,7 L/min (0-20 USgpm)
25 - 0-94,6 L/min (0-25 USgpm)
30 - 0-113,5 L/min (0-30 USgpm)
35 - 0-132,4 L/min (0-35 USgpm)
40 - 0-151,4 L/min (0-40 USgpm)
45 - 0-170,3 L/min (0-45 USgpm)

7 Special features

00 - None
(Only required if valve has special features, omit if ("00")

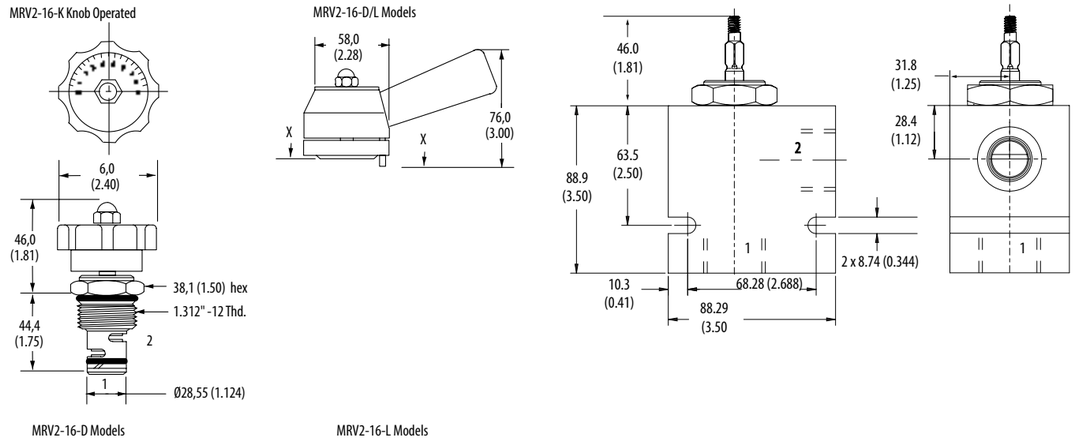
Dimensions

mm (inch)

Torque cartridge in aluminum housing 108-122 Nm (80-90 ft lbs)

Cartridge only
Basic code
MRV2-16

Installation drawing



⚠ Warning

Aluminum housings can be used for pressures up to 210 bar (3000 psi). Steel housings **must** be used for operating pressures **above** 210 bar (3000 psi).

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.