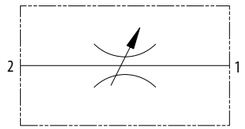
MRV2-10 - Flow restrictor valve

Semi-rotary
Up to 57 L/min (15 USgpm) • 210 Bar (3000 psi)



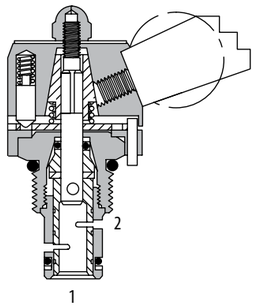
Operation

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	**05** – **10** – **15** –	0-18,9 L/min (0–5 USgpm) 0-37,8 L/min (0–10 USgpm) 0-56,7 L/min (0–15 USgpm)
Internal leakage		164 cm³/min (10 in³/min) maximum 210 bar (3000 psi)
Temperature range		-40° to 120°C (-40° to 248°F)
Manual operators * Light duty housing only	**B** – **E** – **D** – **L** – **K** -	Ball lever (friction lock)* Ball lever (10 position detent)* Lever (10 position detent)* Lever (friction lock)* Knob (non-locking)
Cavity		C–10–2
Fluids		All general purpose hydraulic fluids such as: -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		561810 (Buna-N), 889609 (Viton®)

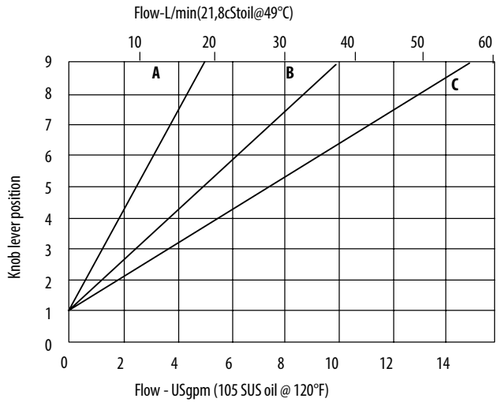
Viton is a registered trademark of E.I. DuPont

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

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



Rated flow (See model code position 6)
A - 05
B - 10
C - 15

MRV2-10 - Flow restrictor valve

Semi-rotary
Up to 57 L/min (15 USgpm) • 210 Bar (3000 psi)

Model code

MRV2 – 10 (V) – * – ** – ** – 00

1 2 3 4 5 6 7

1 Function

MRV2 - Manual rotary valve

2 Size

10 - 10 size

3 Seal material

Blank - Buna-N
V - Viton®

4 Adjustment

O - Cartridge only
B - Ball lever (friction lock)*
E - Ball lever (10 position detent)*
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		
3B	3/8" BSPP	02-175462	–
6T	SAE 6	566151	–
2G	1/4" BSPP	–	876702
3G	3/8" BSPP	–	876703
6H	SAE 6	–	876700
8H	SAE 8	–	876701

See section J for housing details.

6 Max flow ranges

05 - 0-18,9 L/min (0-5 USgpm)
10 - 0-37,8 L/min (0-10 USgpm)
15 - 0-56,7 L/min (0-15 USgpm)

7 Special features

00 - None
(Only required if valve has special features, omit if ("00")
SS - 316 Stainless Steel external components

Dimensions

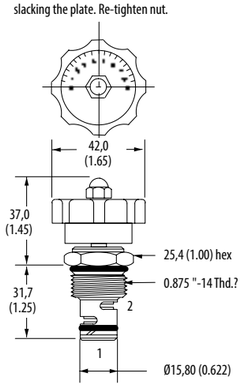
mm (inch)

Cartridge only

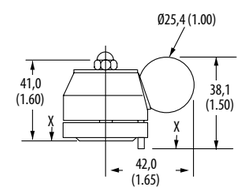
Basic code
MVR2-10

Torque cartridge in aluminum housing 47-54 Nm (35-50 ft lbs)

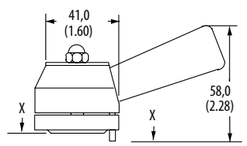
MRV2-10-K Knob Operated
Arrow can be re-located by slacking the plate. Re-tighten nut.



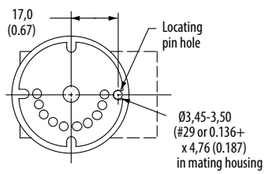
MR V2-10-B/E Models



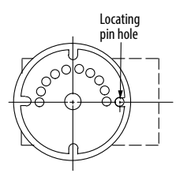
MR V2-10-D/L Models



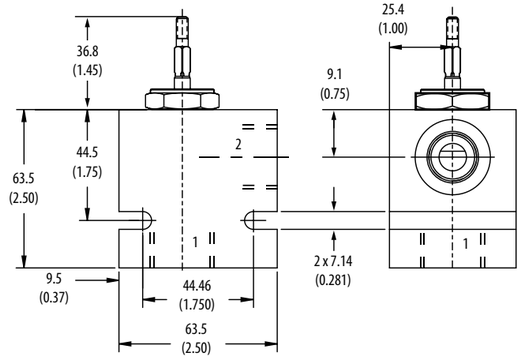
MR V2-10-E/D Models



M R V2-10-B/L Models



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).