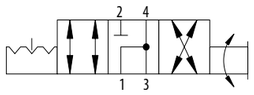
MRV6-10 - Manual rotary valve

Manual semi-rotary directional control valve
11 L/min (3 USgpm) • 210 bar (3000 psi)

3 position models



Operation

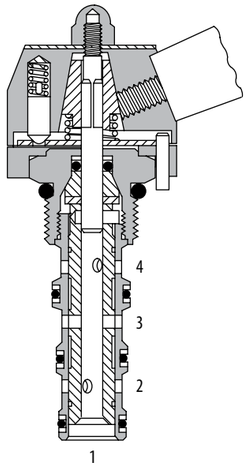
This valve will direct flow between ports 1 and 2 and ports 3 and 4 in one position.

By turning the operator 90°, flow will be directed between ports 1 and 4 and port 3 to 2. During the cross-over transition all ports 1, 3 and 4 are open to each other and port 2 is blocked.

Features

Hardened, ground and honed working parts to limit leakage and prolong life. Various levers and knobs available with and without detent.

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)
Cartridge fatigue pressure (infinite life)	210 bar (3000 psi)
Rated flow	11 L/min (3 USgpm)
Internal leakage	164cc/min (10in³/min) maximum @ 210 bar (3000 psi)
Temperature range	-40° to 120°C (-40° to 248°F)
Manual operators	**D** - Lever (3-position detent)* **E** - Ball (3-position detent)*
Cavity	C-10-4
Fluids	All general purpose hydraulic fluids such as: MIL-H-5606, SAE 10, SAE 20, etc.
Filtration	Cleanliness code 18/**16/13**
Standard housing materials	Aluminum and Steel
Weight cartridge only	0,27 kg (0.59 lbs)
Seal kit	889625 (Buna-N), 566080 (Viton®)

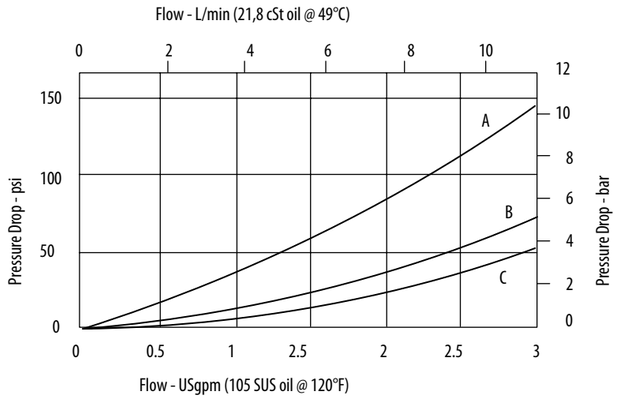
* Light duty housing only.
Viton is a registered trademark of E.I. DuPont

Description

This is a 4 way 2 or 3 position manual semi-rotary directional control valve. In the center condition all port 2 is closed. All other ports are open.

Pressure drop curves

Cartridge only



A - Port 3 to 4 or 3 to 2

B - Port 4 to 1

C - Port 2 to 1

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

MRV6-10 - Manual rotary valve

Manual semi-rotary directional control valve
11 L/min (3 USgpm) • 210 bar (3000 psi)

Model code

MRV6 – 10 – (V) – ** – * – 00**

1 2 3 4 5 6

1 Function

MRV6 - Manual rotary valve 4-way

2 Size

10 - 10 size

3 Seal material

Blank - Buna-N
V - Viton*

4 Manual operator

O - No operator
D - Level (3-position detent)
E - Ball (3-position detent)

5 Port size

Code	Port size	Housing number		
		Aluminum Light duty	Aluminum Fatigue rated	Steel
0	Cartridge			
A3B	3/8" BSPP	02-179705	–	–
A6T	SAE 6	566161	–	–
A2G	1/4" BSPP	–	876709	–
A3G	3/8" BSPP	–	876715	–
A6H	SAE 6	–	876708	–
A8H	SAE 8	–	876713	–
S2G	1/4" BSPP	–	–	02-175139
S3G	3/8" BSPP	–	–	02-175140
S6T	SAE 6	–	–	02-175137
S8T	SAE 8	–	–	02-175138

See section J for housing details.

6 Special features

00 - None

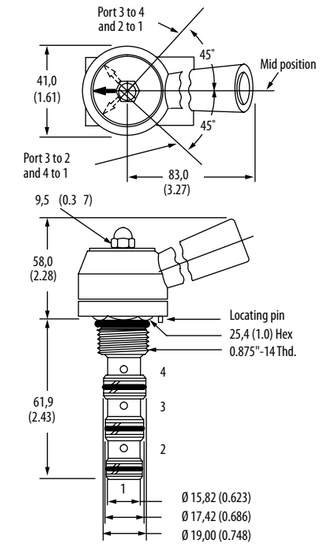
(Only required if valve has special features, omitted if "00".)

Dimensions

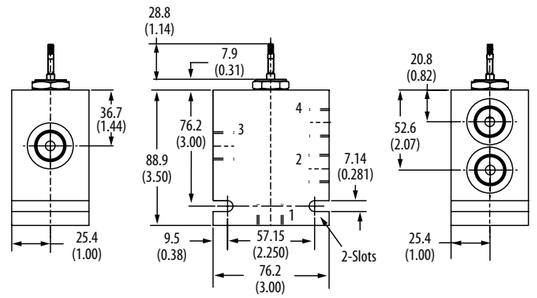
mm (inch)

Torque cartridge in aluminum housing 47-54 Nm (35-40 ft lbs)

Cartridge only



Installation drawing (Aluminum)



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