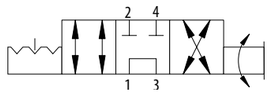
MRV4-16 - Manual rotary valve

Manual semi-rotary directional control valve
45 L/min (12 USgpm) • 210 bar (3000 psi)

3 position models



Operation

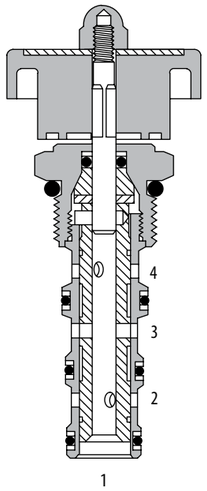
This valve will direct flow between ports 1 and 2 and ports 3 and 4 in one position.

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

Features

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

Sectional view



Description

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

Performance data

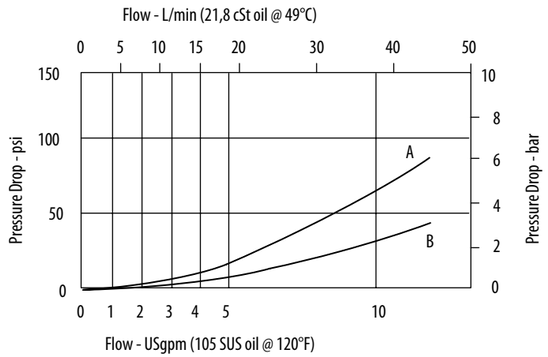
Ratings and specifications

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	45 L/min (12 USgpm)
Temperature range	-40°C to 120°C (-40° to 248°F)
Manual operators	D - Lever (3-position detent)* D2 - Lever (2-position detent)* K - Knob (2-position, no detent)
Cavity	C-16-4
Fluids	All general purpose hydraulic fluids such as: MIL-H-5606, SAE 10, SAE 20 etc.
Filtration	Cleanliness code 18/**16/13**
Standard housing material	Aluminum or Steel
Weight cartridge only	0,65 kg (1.43 lbs)
Seal kit	889634 (Buna-N), 889638 (Viton®)

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

Pressure drop curves

Cartridge only



A - Port 3 to port 4 or 3 to 2

B - Port 4 to port 1 or 2 to 1

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

MRV4-16 - Manual rotary valve

Manual semi-rotary directional control valve
45 L/min (12 USgpm) • 210 bar (3000 psi)

Model code

MRV4 – 16 – (V) – ** – ** – 00**

1 2 3 4 5 6

1 Function

MRV4 - Manual rotary valve 4-way

2 Size

16 - 16 size

3 Seal material

Blank - Buna-N
V - Viton

4 Manual operator

O - No operator
D - Level (3-position detent)
D2 - Level (2-position detent)
K - Knob (2-position, no detent)

5 Port size

Code	Port size	Housing number		
		Aluminum light duty	Aluminum fatigue rated	Steel
0	Cartridge			
A12T	SAE 12	566411	–	–
A6B	3/4" BSPP	02-175468	–	–
A10H	SAE 10	–	876729	–
A12H	SAE 12	–	876731	–
A4G	1/2" BSPP	–	876728	–
A6G	3/4" BSPP	–	876730	–
S4G	1/2" BSPP	–	–	02-175143
S6G	3/4" BSPP	–	–	02-175144
S10T	SAE 10	–	–	02-175141
S12T	SAE 12	–	–	02-175142

See section J for housing details.

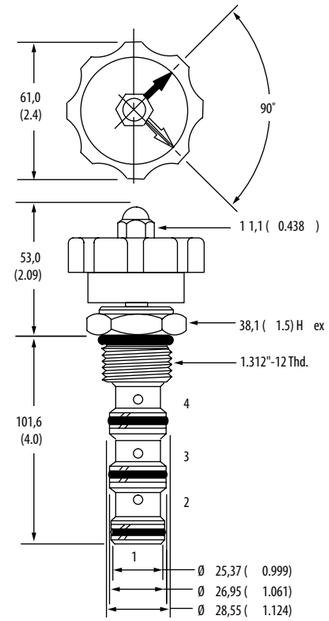
6 Special features

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

Dimensions

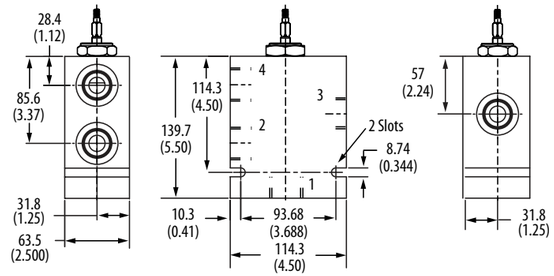
mm (inch)

Cartridge only



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

Installation drawing (aluminum)



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