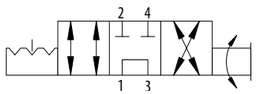
MRV4-10 - Manual rotary valve

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

3 position models



Operation

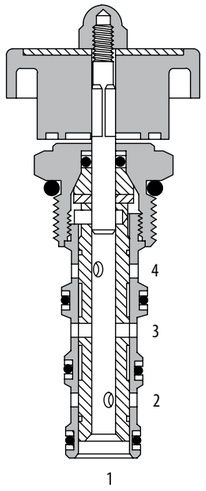
This valve will direct flow between ports 1 and 2 and ports 3 and 4 in one position.

By turning the operator 90°, flow will be directed between ports 1 and 4 and port 3 to 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



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 US gpm)
Temperature range	-40°C to 120°C (-40° to 248°F)
Manual operators	D - Lever (3-position detent)* D2 - Lever (2-position detent)* E - Ball (3-position detent)* E2 - Ball (2-position detent)* K - Knob (2-position, no 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 material	Aluminum or Steel
Weight cartridge only	0,17 kg (0.38 lbs)
Seal kit	565805 (Buna-N), 889600 (Viton®)

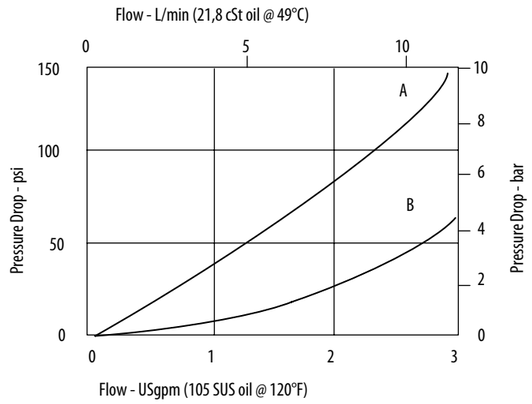
* Light duty housing only.
Viton is a registered trademark of E.I. DuPont

Description

This is a 4 way 2 or 3 position manual semi-rotary directional control valve. In the center condition port 3 is open to port 1. Ports 4 and 2 are closed.

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.

MRV4-10 - Manual rotary valve

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

Model code

MRV4 – 10 – (V) – ** – * – 00**

1 2 3 4 5 6

1 Function

MRV4 - 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 - Lever (3-position detent)
D2 - Lever (2-position detent)
E - Ball (3-position detent)
E2 - Ball (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			
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".)

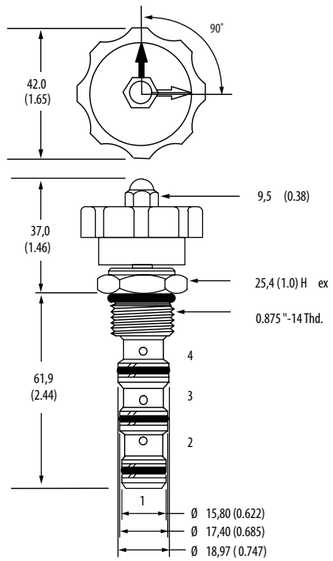
SS - 316 stainless steel external components (only available for "0" and "F" options).

Dimensions

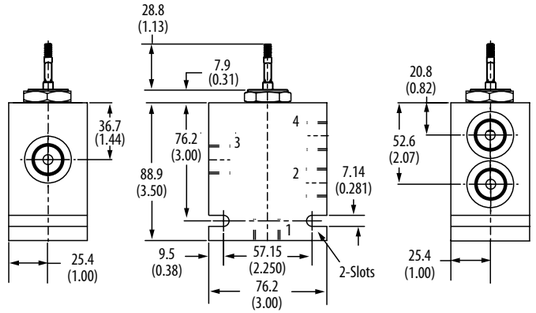
mm (inch)

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.