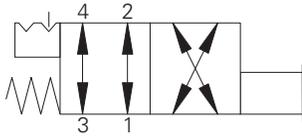


MSV17-10 - Manual Push Valve

Push and twist directional control valve
 20 L/min (5.3 USgpm) • 350 bar (5000 psi)



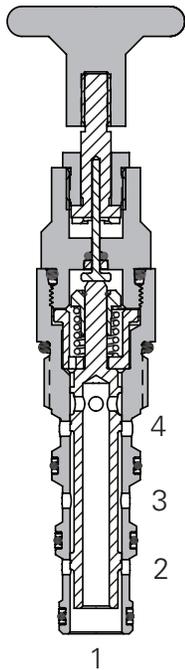
Operation

In the normal position, flow is allowed from port 3 to port 4 and from port 2 to port 1. In the actuated position, flow is allowed from port 3 to port 2 and from port 4 to port 1.

Features

Hardened, ground and honed sleeve and spool for low internal leakage. Detent allows valve to be fixed in position. Working Pressure 350 bar.

Sectional View



"L" Detent style

Description

This valve is a manually operated high pressure push and twist to switch, 2 position 4 ported directional valve. This is ideal for reversing the direction of an actuator.

Performance Data

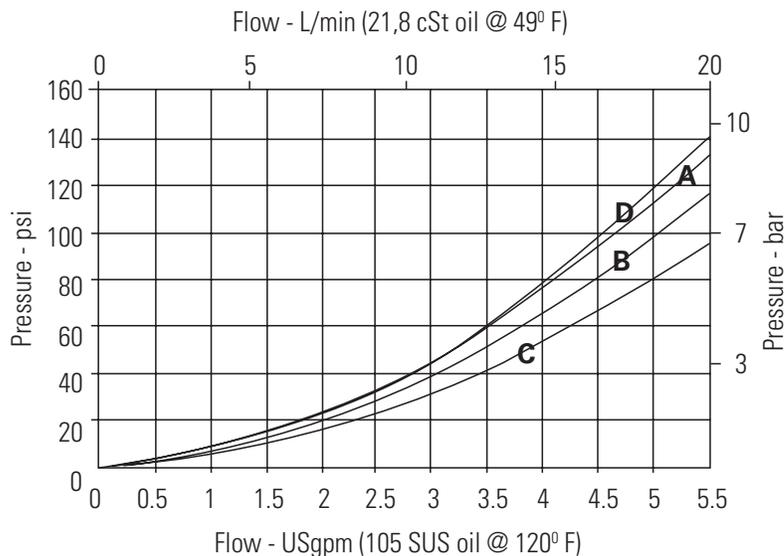
Ratings and Specifications

Performance data is typical with fluid at 21,8 cST (105 SUS) and 49°C (120°F)

Typical application pressure (all ports)	350 bar (5000 psi)
Cartridge fatigue pressure (infinite life)	350 bar (5000 psi)
Rated flow	20 L/min (5.3 USgpm)
Internal leakage	350 cc/min (21.5 in ³ /min) @ 210 bar (3000 psi)
Temperature range	-40° to 120°C (-40° to 248°F)
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	0.28 kg (0.61 lbs)
Seal kit	(Buna-N), (Viton [®])

Viton is a registered trademark of E.I. DuPont

Pressure Drop



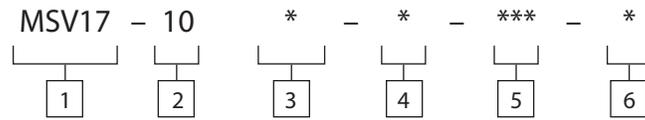
- A** - Port 3 to port 2 energized
- B** - Port 3 to port 4 de-energized
- C** - Port 2 to port 1 de-energized
- D** - Port 4 to port 1 energized

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

MSV17-10 - Manual Push Valve

Push and twist directional control valve
20 L/min (5.3 USgpm) • 350 bar (5000 psi)

Model Code



1 Function
MSV17 - 4-way, 2 position
manual push valve

2 Size
10 - 10 size

3 Seals
Blank - Buna-N
V - Viton®

4 Actuation Option
2 - 2 position 'push and twist'
actuation, with detent
E - Emergency stop actuation
N - No detent, momentary
actuation
K - Push and twist

5 Port Size
0 - Cartridge only

6 Special Features
Blank - No special features

Code	Port Size	Housing Number	
		Aluminum	Steel
A2G	1/4" BSPP	02-185804	
A3G	3/8" BSPP	02-185805	
A6H	SAE 6	02-185802	
A8H	SAE 8	02-185803	
S2G	1/4" BSPP		02-175139
S3G	3/8" BSPP		02-175140
S6T	SAE 6		02-175137
S8T	SAE 8		02-175138

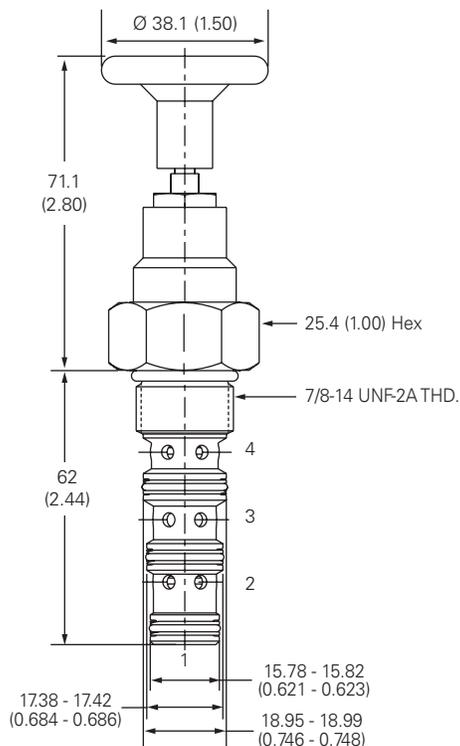
See section J for housing details.

Dimensions

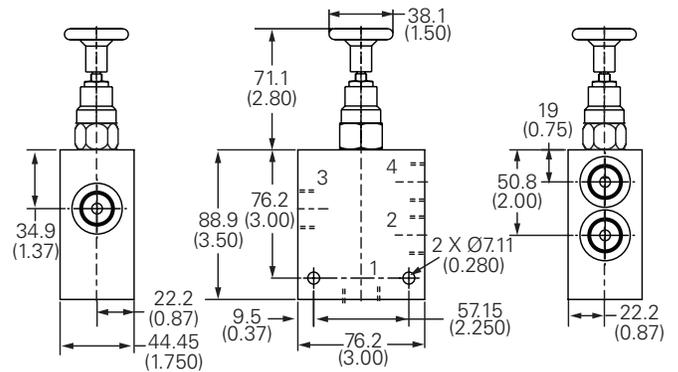
mm (inch)

Torque cartridge in housing
A - 47-54 Nm (35-40 ft. lbs)
S - 68-75 Nm (50-55 ft. lbs)

Cartridge Only



Installation Drawing (Steel)



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).