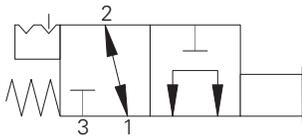


MSV1-12 - Manual Push Valve

Push and twist directional control valve
41.8 L/min (11 USgpm) • 210 bar (3000 psi)



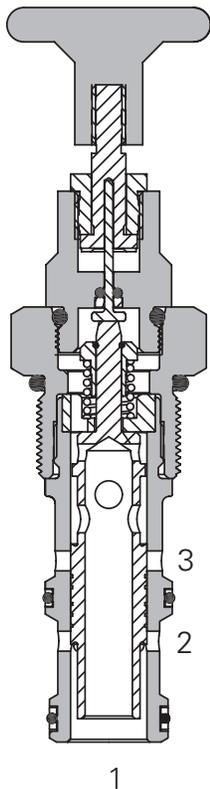
Operation

In the normal position, the valve allows flow from port 1 to port 2 while port 3 is blocked. In the actuated position, flow is allowed from port 3 to port 1 while port 2 is blocked.

Features

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

Sectional View



D

Performance Data

Ratings and Specifications

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

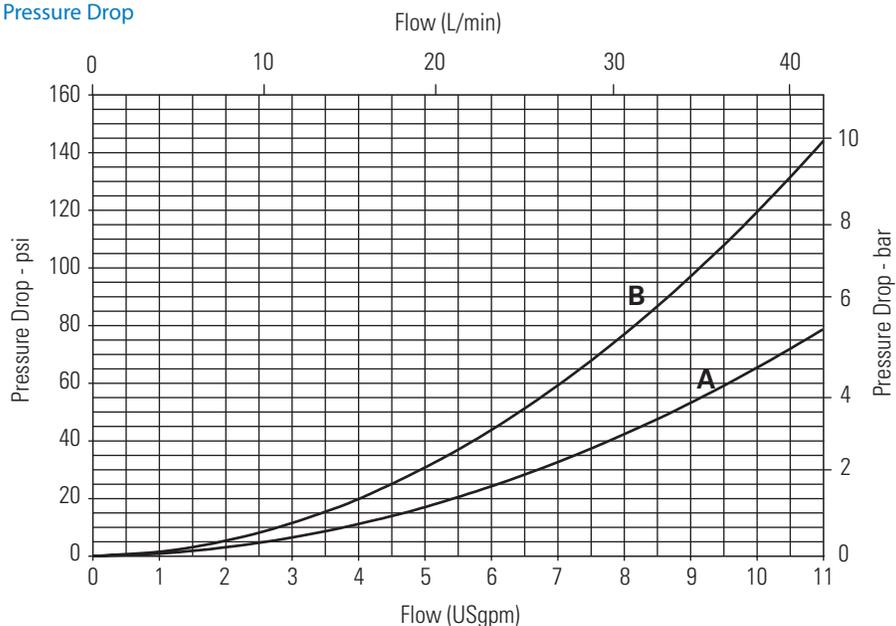
Typical application pressure (all ports)	210 bar (3000 psi)
Cartridge fatigue pressure (infinite life)	210 bar (3000 psi)
Rated flow	41,8 L/min (11 USgpm)
Internal leakage	350 cc/min (21.5 in3/min)
Temperature range	-40° to 120°C (-40° to 248°F)
Cavity	C-12-3
Fluids	All general purpose hydraulic fluids such as: MIL-H-5606, SAE 10, SAE 20 etc.
Filtration	Cleanliness code 18/16/13
Standard housing materials	Aluminum
Weight cartridge only	0,29 kg (0.66 lbs)
Seal kit	9900171-000 (Buna-N), 9900172-000 (Viton®)

Viton is a registered trademark of E.I. DuPont

Description

This is a manually operated push and twist type 2 position 3 ported directional control valve. Ideal for isolating a system until flow is required.

Pressure Drop



A - P1 to P2

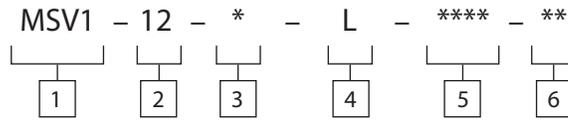
B - P3 to P1

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

MSV1-12 - Manual Push Valve

Push and twist directional control valve
41.8 L/min (11 USgpm) • 210 bar (3000 psi)

Model Code



1 Function
MSV1 - Manual push valve

2 Size
12 - 12 size

3 Seal Material
Blank - Buna-N
V - Viton®

4 Actuation Option
L - 2 position 'push and twist' actuation
E - Emergency stop actuation
N - No Detent

5 Port Size
0 - Cartridge only

Code	Port Size	Housing Number
Aluminium		
A6G	3/4" BSPP	02-161816
A12H	SAE 12	02-160646

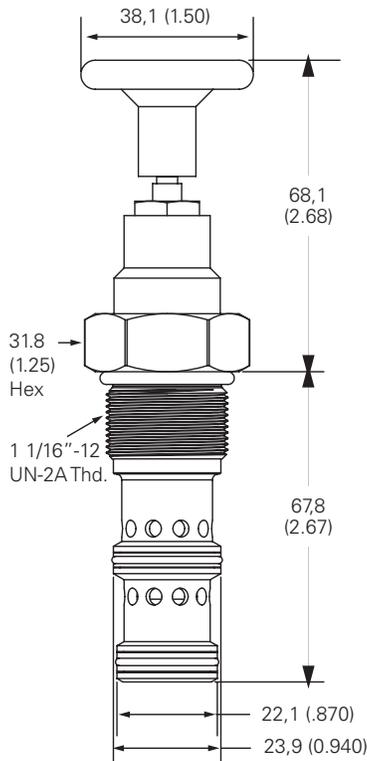
6 Special Features
00 - None
(Only required if valve has special features, omitted if "00.")

Dimensions

mm (inch)

Torque cartridge in aluminum housing
81-95 Nm (60-70 ft lbs)

Cartridge Only



Installation Drawing

