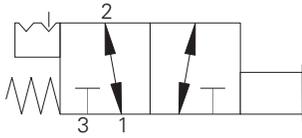


# MSV5-12 - Manual Push Valve

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



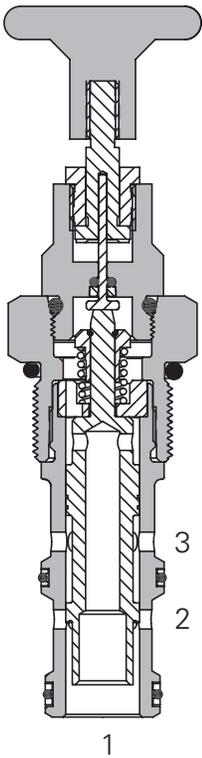
## Operation

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

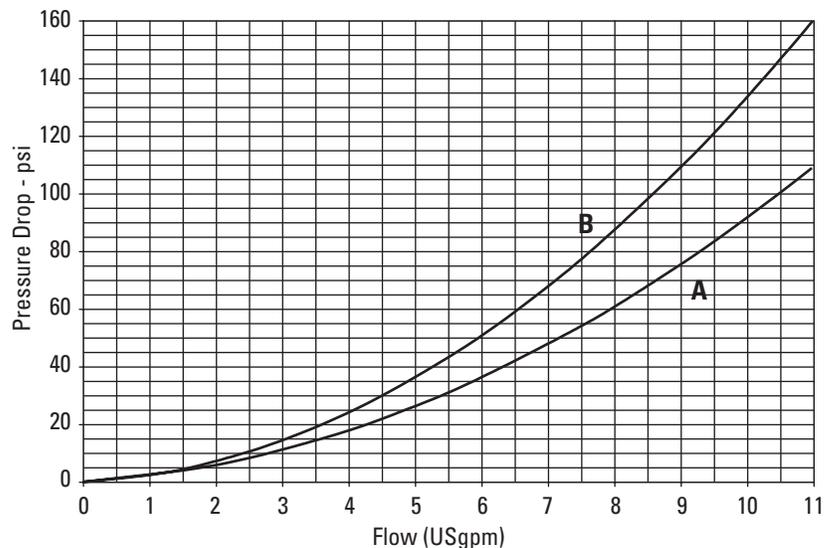
Typical application pressure (all ports)	210 bar (3000 psi)
Cartridge fatigue pressure (infinite life)	210 bar (3000 psi)
Rated flow	41.8 L/min (11 USgpm)
Internal leakage	350 cc/min (21.5 in3/min)
Temperature range	-40° to 120°C (-40° to 248°F)
Cavity	C-12-3
Fluids	All general purpose hydraulic fluids 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 - P2 to P1

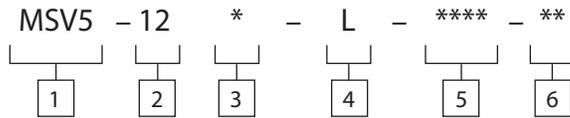
B - P3 to P2

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

# MSV5-12 - Manual Push Valve

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

## Model Code



**1** Function  
MSV5 - 3 way, 2 position  
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

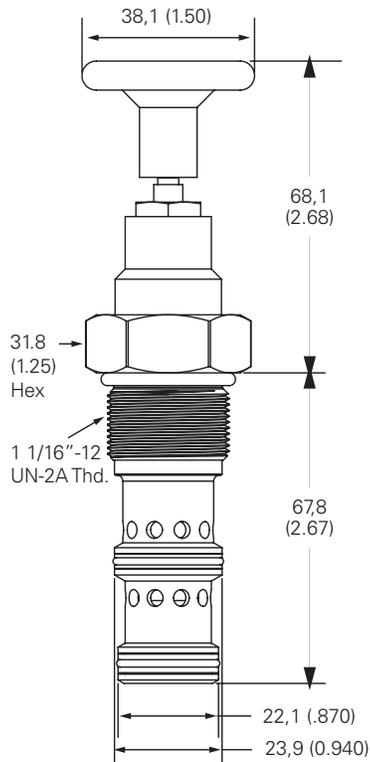
**6** Special Features  
Blank - No special features

## Dimensions

mm (inch)

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

### Cartridge Only



### Installation Drawing

