Directional Control Valves
MSV7-12

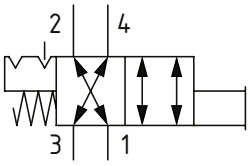
Manual Push Valve with Detent, 4-Way, Spool Type

210 bar [3000 psi] • 45 l/min [12 US gpm]

DESCRIPTION AND OPERATION

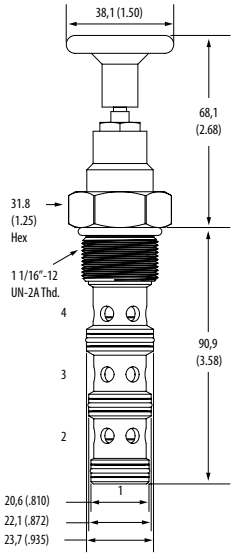
This is a 4-way, spool type, 2 position, push to open directional control valve with a push and twist detent. In the normal position port 1 is connected to port 2 and port 3 is connected to port 4. When the knob is manually pushed downward, port 1 is connected to port 4 and port 3 is connected to port 2. It can be held in this position by twisting the knob to engage the detent. The valve can be used to reverse an actuator until manual intervention takes place.

SCHEMATIC



DIMENSIONS

mm [in]

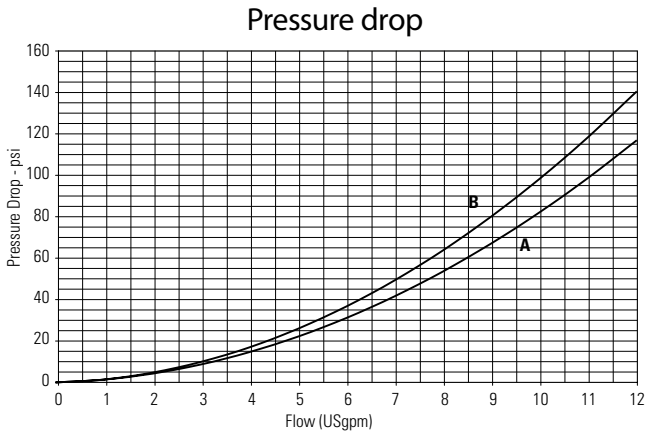


Installation torque
81-95 Nm [60-70 ft. lbs]

PERFORMANCE DATA

Rated pressure	**210 bar [3000 psi]**
Rated flow	**45 l/min [12 US gpm]**
Leakage	350 ml/min [21.5 in^3/min] @ 210 bar [3000 psi]
Weight	0.32 kg [0.71 lb]
Cavity	C-12-4

PERFORMANCE CURVES



A - Port 4 to 1, Port 3 to 2 • **B** - Port 2 to 1, Port 3 to 4

MODEL CODE

MSV7 - 12 - V - L - A - 6G

Seal Option

Code	Seal Kit
Omit-Buna-N	02-160979
V-Viton	02-160980

Actuator option

L-Push and Twist, with detent
E-Push/Pull, with detent
N-No detent, momentary actuation

Housing Material

Omit - No housing
A - Aluminum

Housing

Code	Ports	Aluminum
0	No housing	
6G	3/4" BSP	5986432-001
10T	#10 SAE	6030517-001
12H	#12 SAE	5986436-001

* Aluminum bodies are to be used for pressures less than 210 bar [3000 psi].
* Additional housings available