Directional Control Valves
MRV13-16

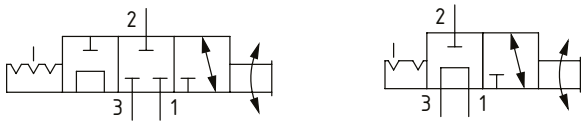
Manual Rotary Valve, 3-Way, Spool Type

350 bar [5000 psi] • 65 l/min [17 US gpm]

DESCRIPTION AND OPERATION

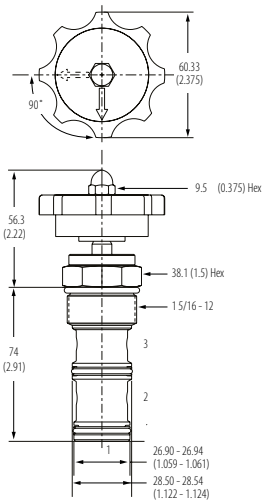
This is a 3-way, spool type, 2 or 3 position manually operated semi-rotary directional control valve. By rotating the manual actuator, the flow path will change from port 1 connected to port 3 (port 2 blocked) to port 1 connected to port 2 (port 3 blocked). Using the manual actuator and detent, the crossover condition can be used to create a third position with all ports blocked. This valve can be used as a diverter or as a dump valve.

SCHEMATIC



DIMENSIONS

mm [in]

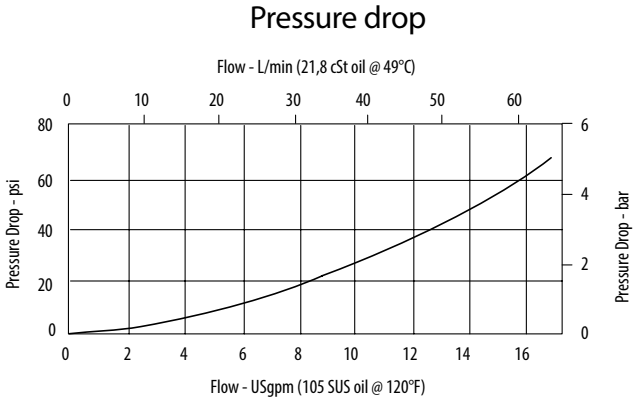


Installation torque
A-108-122 Nm [80-90 ft. lbs]
S-136-149 Nm [100-110 ft. lbs]

PERFORMANCE DATA

Rated pressure	**350 bar [5000 psi]**
Rated flow	**65 l/min [17 US gpm]**
Leakage	250 ml/min [15 in³/min] @ 350 bar [5000 psi]
Weight	0.53 kg [1.16 lb]
Cavity	SDC16-3

PERFORMANCE CURVES



MODEL CODE

MRV13 - 16 - V - D - A - 4G

Seal Option

Code	Seal Kit
Omit-Buna-N	889632
V-Viton	889636

Actuator Option

O-Cartridge only (no actuator)
D-Lever (3-position detent)
D2-Lever (2-position detent)
K-Knob (2-position, no detent)

Housing Material

Omit-No housing
A-Aluminum
S-Steel

Housing

Code	Ports	Aluminum Heavy duty	Steel
0	No Housing		
10H	#10 SAE	876721	
12H	#12 SAE	876723	
4G	1/2" BSP	876720	02-175131
6G	3/4" BSP	876722	02-175132
10T	#10 SAE		02-175129
12T	#12 SAE		02-175130

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