Directional Control Valves
PTS14-16

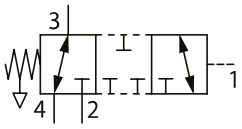
Directional Control Valve, 3-Way, Spool Type, Hydraulic Pilot, Atmospheric Vent

350 bar [5000 psi] • 132 l/min [35 US gpm]

DESCRIPTION AND OPERATION

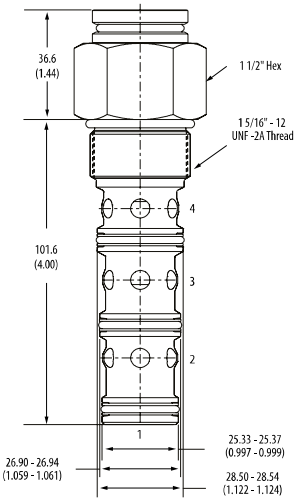
This is a 3-way, spool type, hydraulically piloted directional control valve with an atmospheric vent. In the normal condition, port 3 is connected to port 4 with port 2 blocked. Pilot pressure at port 1 will cause the valve to shift, connecting port 3 to port 2 with port 4 blocked. During the cross-over transition all ports are blocked. Due to the atmospheric vent, the pilot pressure required to keep the valve switched is independent of the pressure at the work ports.

SCHEMATIC



DIMENSIONS

mm [in]

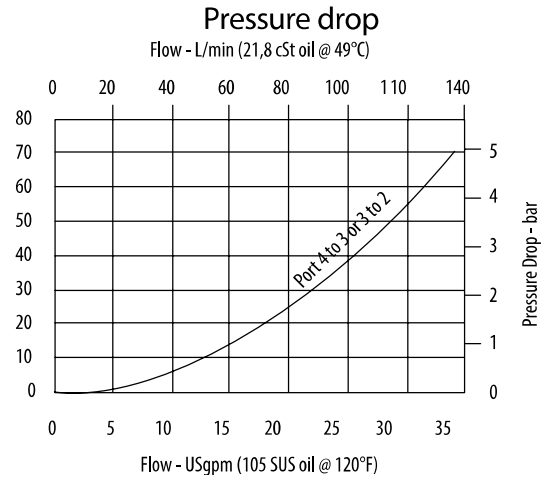


Installation torque
A-108-122 Nm [80-90 ft. lbs]
S-136-149.6 Nm [100-110 ft. lbs]

PERFORMANCE DATA

Rated pressure	**350 bar [5000 psi]**
Rated flow	**132 l/min [35 US gpm]**
Leakage	210 ml/min [13in³/min] @ 350 bar [5000 psi]
Weight	0.5 kg [1.12 lb]
Cavity	SDC16-4

PERFORMANCE CURVES



MODEL CODE

PTS14 - 16 - V - A - 6B - 80

Seal Option

Code	Seal Kit
Omit-Buna-N	889634
V-Viton	889638

Housing Material

Omit - No housing
A - Aluminum
S - Steel

Shift Pressure

Code	Bar	[Psi]
80	5.5	[80]
160	11.0	[160]

Housing

Code	Ports	Aluminum Standard duty	Aluminum Heavy duty	Steel
0	No housing			
10T	#10 SAE			02-175141
12T	#12 SAE	566411		02-175142
6B	3/4" BSP	02-175468		
10H	#10 SAE		876729	
12H	#12 SAE		876731	
4G	1/2" BSP		876728	02-175143
6G	3/4" BSP		876730	02-175144

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