Directional Control Valves

PTS9-8

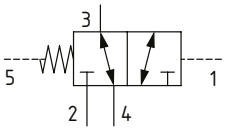
Directional Control Valve, 3-Way, Spool Type, Hydraulic Pilot, External Drain

280 bar [4000 psi] • 19 l/min [5 US gpm]

DESCRIPTION AND OPERATION

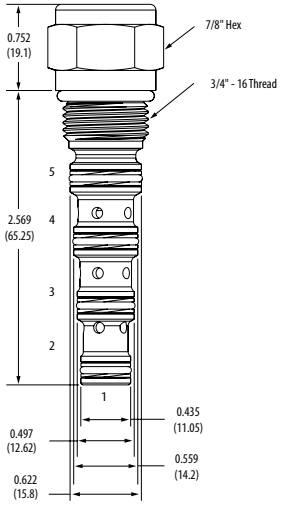
This is a 3-way, spool type, hydraulically piloted directional control valve with an external drain at port 5. In the normal condition, port 3 is connected to port 4 with port 2 blocked. Pilot pressure at port 1 will cause the valve to shift, connecting port 3 to port 2 with port 4 blocked. In the crossover transition all ports are open. Due to the external drain, the pilot pressure required shift the valve is dependent on the pressure in port 5, which would normally be connected to tank.

SCHEMATIC



DIMENSIONS

mm [in]

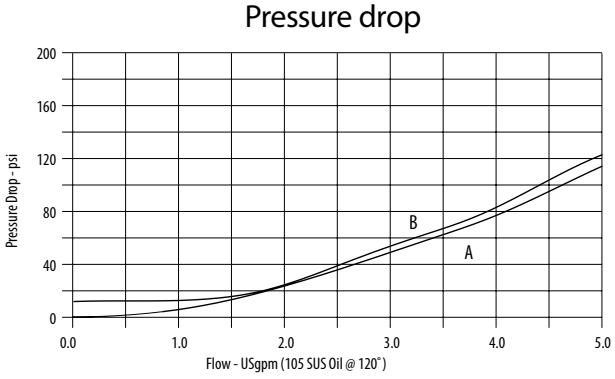


Installation torque
34-41 Nm [25-30 ft lbs]

PERFORMANCE DATA

Rated pressure	**280 bar [4000 psi]**
Rated flow	**19 l/min [5 US gpm]**
Leakage	164 ml/min [10 in³/min] @ 210 bar [3000 psi]
Weight	0.10 kg [0.23 lbs]
Cavity	C-8-5S

PERFORMANCE CURVES



A-Port 3 to 4 • **B**-Port 3 to 2

MODEL CODE

PTS9 - 8 - V - 0 - 000 - 080

Seal Option

Code	Seal kit
Omit-Buna-N	9900310-001
V-Viton	9900310-002

Housing Material

0-No housing
A-Aluminum
S-Steel

Shift Pressure

Code	Bar	[Psi]
080	5.5	[80]
160	11.0	[160]

Housing

Code	Ports 2,3,4	Ports 1,5	Aluminum	Steel
000	No housing			
04T	#4 SAE	#4 SAE	4999357-001	4999358-001
06T	#6 SAE	#6 SAE	4999357-002	4999358-002
02G	1/4" BSP	1/4" BSP	4999357-003	4999358-003
03G	3/8" BSP	1/4" BSP	4999357-004	4999358-004

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