Directional Control Valves

PTS17-12

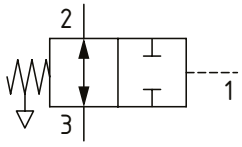
Directional Control Valve, 2-Way, Spool Type, Hydraulic Pilot, Atmospheric Vent

350 bar [5000 psi] • 114 l/min [30 US gpm]

DESCRIPTION AND OPERATION

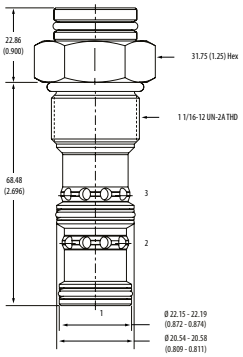
This is a 2-way, hydraulically piloted valve with an atmospheric vent. It is normally open between ports 2 and 3 that shift to the closed position when the pilot pressure at port 1 overcomes the opposing spring. Due to the atmospheric vent, the pilot pressure required to shift the valve is independent of the pressure in the line between port 2 and port 3.

SCHEMATIC



DIMENSIONS

mm [in]

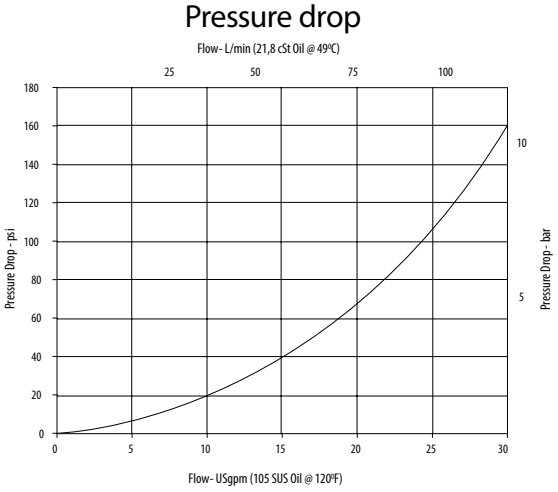


Installation torque
A-81-95 Nm [60-70 ft. lbs]
S-102-115 Nm [75-85 ft. lbs]

PERFORMANCE DATA

Rated pressure	**350 bar [5000 psi]**
Rated flow	**114 l/min [30 US gpm]**
Leakage	210 ml/min [13 in³/min] @ 350 bar [5000 psi]
Weight	0.25 kg [0.55 lbs]
Cavity	C-12-3

PERFORMANCE CURVES



MODEL CODE

PTS17 - 12 - V - A - 4G - 80

Seal Option

Code	Seal kit
B-Buna-N	9900171
V-Viton	9900172

Housing Material

Omit-No housing
A-Aluminum
S-Steel

Shift Pressure

Code	Bar	Psi
80	5.5	[80]
120	8.3	[120]
160	11.0	[160]

Housing

Code	Port size	Aluminium	Steel
0	No Housing		
4G	1/2" BSP	02-161817	02-169815
6G	3/4" BSP	02-161816	02-169814
10H	#10 SAE	02-160642	
12H	#12 SAE	02-160646	
10T	#10 SAE		02-161070
12T	#12 SAE		02-169816

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