Pilot to shift valve

Description

The PTS2-10 is a 3-way, 2 position, pilot operated, directional screw-in cartridge valve.

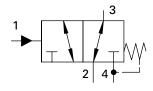
Operation

This valve allows flow between ports 2 and 3 while port 4 is blocked until sufficient pressure has been applied to port 1 and the

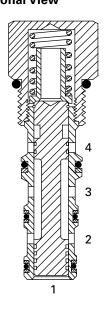
spring bias is overcome. At this time, flow is directed between ports 3 and 4 while blocking port 2. **During the cross-over transition all**

ports are blocked. The spring chamber for this valve is vented internally to port 4 (tank).

Functional Symbol



Sectional View

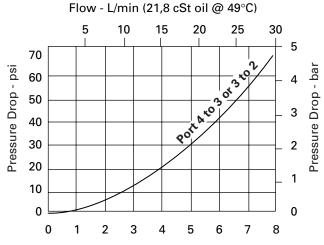


RATINGS AND SPECIFICATIONS

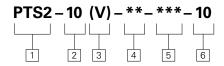
Performance data is typical with fluid at 21,8	cSt (105 SUS) and 49°C (120°F)
Typical application pressure (all ports)	210 bar (3000 psi)
Cartridge fatigue pressure (infinite life)	210 bar (3000 psi)
Rated flow	30 L/min (8 USgpm)
Internal leakage	164 cc/min (10 in³/min) maximum @ 210 bar (3000 psi)
Temperature range	-40° to 120°C (-40° to 248°F)
Pilot pressures	40 - 2,75 bar (40 psi) 80 - 5,5 bar (80 psi) 160 - 11,0 bar (160 psi)
Pilot displacement volume	0,49 cm³ (0.02 in³)
Cavity	C-10-4
Fluids	All general purpose hydraulic fluids such as: MIL-H-5606, SAE 10, SAE 20, etc.
Filtration	Cleanliness code 18/16/13
Standard housing materials	Aluminum
Weight cartridge only	0,14 kg (0.32 lbs)
Seal kit	889625 (Buna-N) 566080 (Viton®)
	Viton is a registered trademark of E.I. DuPont

Pressure Drop Curve

Cartridge only



Flow - USgpm (105 SUS oil @ 120°F)



1 Function

PTS2 - Pilot to shift valve

² Size

10 - 10 Size

3 Seals

Blank - Buna-N **V** - Viton® 4 Port size

O - Cartridge only

CODE	PORT SIZE	HOUSING N	HOUSING NUMBER	
		Aluminum Light duty	Aluminum Fatigue rated	
3B	3/8" BSPP	02-179705	_	
6T	SAE 6	566161	_	
2G	1/4" BSPP	_	876709	
3G	3/8" BSPP	_	876715	
6H	SAE 6	_	876708	
8H	SAE 8	_	876713	
Soo contic	n I for housing dotails	,		

See section J for housing details.

5 Pilot to shift (nominal)

40 - 2,75 bar (40 psi) **80** - 5,5 bar (80 psi) **160** - 11,0 bar (160 psi)

6 Special features

00 -None (Only required if valve has special features, omitted if "00")

Dimensions

mm (inch)

Torque cartridge in aluminum housing 47-54 Nm (35-40 ft. lbs)

