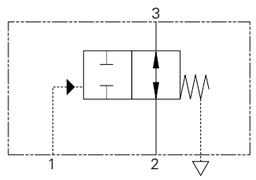
PTS7-10 - Pilot to shift valve

2/2, pilot operated directional control valve
30 L/min (8 USgpm) • 210 bar (3000 psi)



Operation

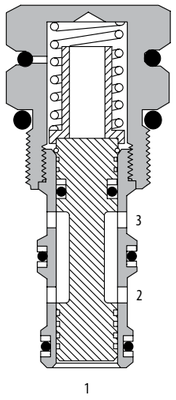
This valve allows flow between ports 2 and 3 until sufficient pressure at port 1 overcomes the spring bias, which closes both ports.

The spring chamber for this valve is externally vented to atmosphere.

Features

Hardened, ground and honed sleeve and spool for low internal leakage.

Sectional view



Performance data

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-10-3
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	0,10 kg (0.23 lbs)
Seal kit	889624 (Buna-N), 889628 (Viton®)

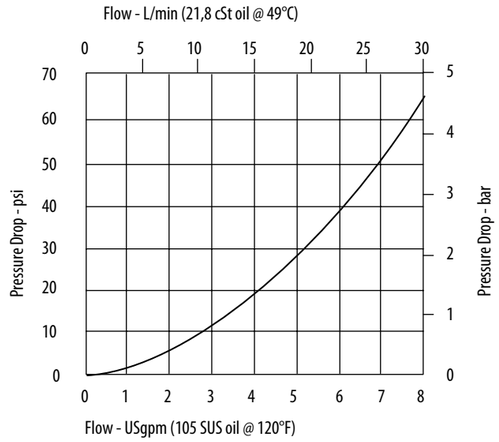
Viton is a registered trademark of E.I. DuPont

Description

This is a 2-way 2 position, pilot operated directional control valve ideal for isolating a function when the pilot pressure is applied or removed.

Pressure drop curves

Cartridge only



Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

PTS7-10 - Pilot to shift valve

2/2, pilot operated directional control valve
30 L/min (8 USgpm) • 210 bar (3000 psi)

Model code

PTS7 – 10 (V) – * – *** – 00**

1 2 3 4 5 6

1 Function

PTS7 - Pilot to shift valve

2 Size

10 - 10 size

3 Seal material

Blank - Buna-N
V - Viton

4 Port size

Code	Port size	Housing number		
		Aluminium light duty	Aluminium fatigue rated	Steel
0	Cartridge			
A3B	3/8" BSPP	02-173358	–	–
A6T	SAE 6	566162	–	–
A2G	1/4" BSPP	–	876705	–
A3G	3/8" BSPP	–	876714	–
A6H	SAE 6	–	876704	–
A8H	SAE 8	–	876711	–

See section J for housing details.

5 Pilot to shift (nominal)

Note: Code based on pressure in psi.
40 - 2,75 bar (40 psi)
80 - 5,5 bar (80 psi)
160 - 11,0 bar (160 psi)

6 Special features

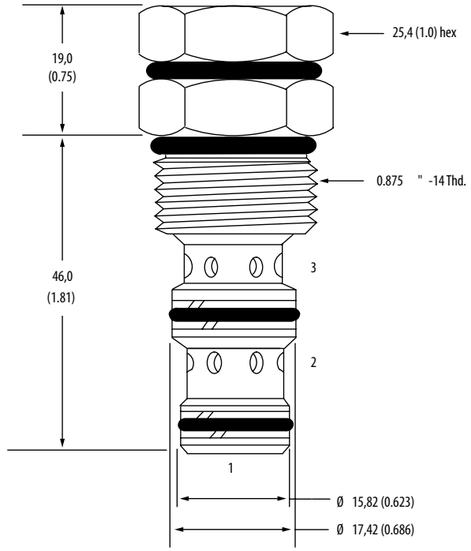
00 - None
(Only required if valve has special features, omitted if "00".)

Dimensions

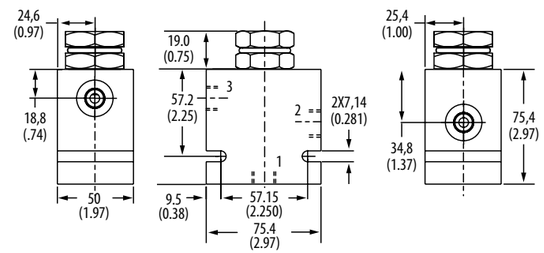
mm (inch)

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

Cartridge only



Installation drawing (aluminum)



⚠ Warning

Aluminum housings can be used for pressures up to 210 bar (3000 psi). Steel housings must be used for operating pressures above 210 bar (3000 psi).

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.