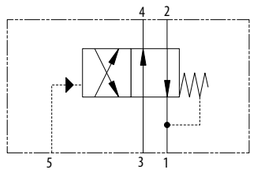
PTS6-10 - Pilot to shift valve

Remote pilot operated, directional control valve
23 L/min (6 USgpm) • 210 bar (3000 psi)



Operation

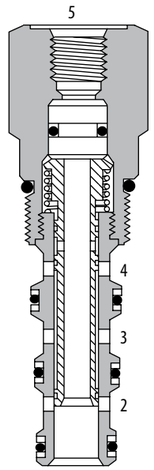
This valve allows flow between ports 1 and 2 and ports 3 and 4 until sufficient pressure has been applied at port 5 and the spring bias is overcome.

At that time, flow is directed between ports 1 and 4 and ports 3 and 2. During the cross-over transition, all ports are blocked. The spring chamber for this valve is vented internally to port 1.

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	23 L/min (6 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 pressure	4,2 bar (60 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	0,15 kg (0.33 lbs)
Seal kit	889625 (Buna-N), 566080 (Viton®)

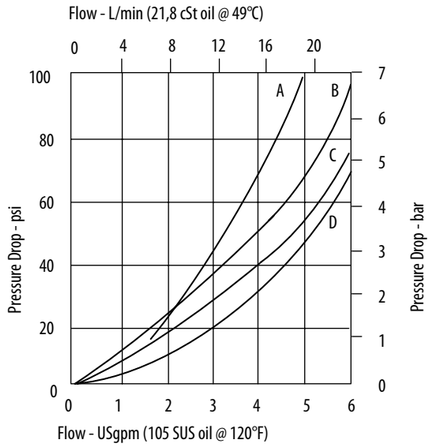
Viton is a registered trademark of E.I. DuPont.

Description

This is a 4-way 2 position, remotely pilot operated directional control valve ideal for reversing a function when the pilot pressure is applied or lost.

Pressure drop curves

Cartridge only



A - Port 3 to 4
B - Port 4 to 1
C - Port 3 to 2
D - Port 2 to 1

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

PTS6-10 - Pilot to shift valve

Remote pilot operated, directional control valve
23 L/min (6 USgpm) • 210 bar (3000 psi)

Model code

PTS6 – 10 (V) – * – ** – 00**

1 2 3 4 5 6

1 Function

PTS6 - 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
0	Cartridge		
A3B	3/8" BSPP	02-179705	–
A6T	SAE 6	566161	–
A2G	1/4" BSPP	–	876709
A3G	3/8" BSPP	–	876715
A6H	SAE 6	–	876708
A8H	SAE 8	–	876713

See section J for housing details.

5 Pilot to shift (nominal)

60 - 4,2 bar (60 psi)

6 Special features

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

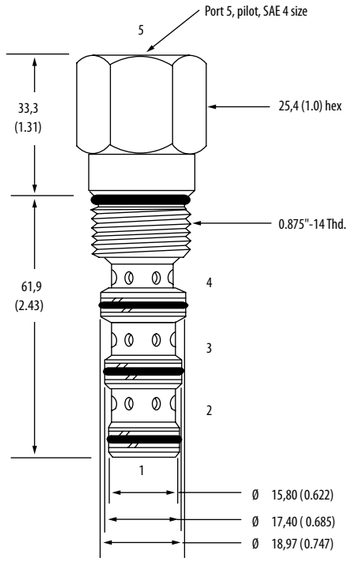
Dimensions

mm (inch)

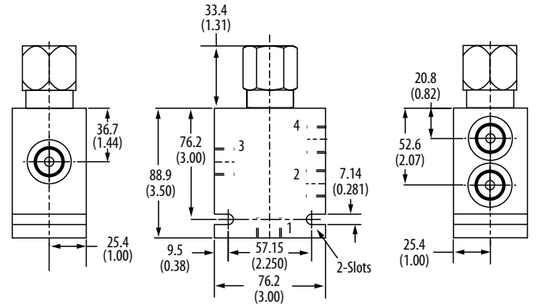
Torque cartridge in aluminum housing 47-75 Nm (35-40 ft lbs)

Torque cartridge in steel housing 68-75 Nm (50-55 ft lbs)

Cartridge only



Installation drawing



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