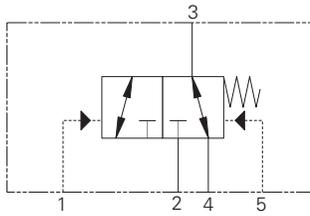


PTS9-8 - Pilot to Shift Valve

Pilot operated, directional control valve
 19 L/min (5 USgpm) • 280 bar (4000 psi)



Operation

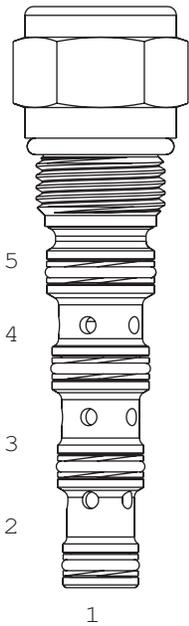
This valve allows flow between ports 3 and 4 while blocking port 2 until sufficient pressure has been applied to port 1 and the spring bias is overcome.

At that time flow is directed between ports 3 and 2 while blocking port 4. During the cross-over transition, all ports are open. The spring chamber for this valve is vented to port 5.

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)

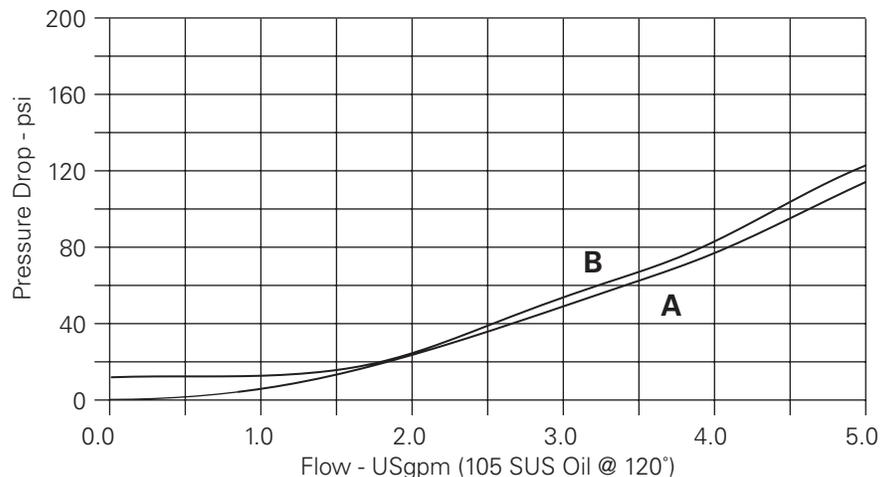
Typical application pressure (all ports)	280 bar (4000 psi)
Cartridge fatigue pressure (infinite life)	280 bar (4000 psi)
Rated flow	19 L/min (5 USgpm)
Transition	All ports open
Internal leakage, port 2 to port 1	164 cc/min (10 in ³ /min) @ 210 bar (3000 psi)
Temperature range	-40° to 120°C (-40° to 248°F)
Cavity	C-8-5S
Fluids	All general purpose hydraulic fluids such as: MIL-H-5606, SAE 10, SAE 20 etc.
Filtration	Cleanliness code 18/16/13

Description

This is a 3-way 2 position, pilot operated directional control valve ideal for selecting a function when the pilot pressure is applied or lost or as a pilot operated shuttle valve.

Performance Characteristics

Cartridge only



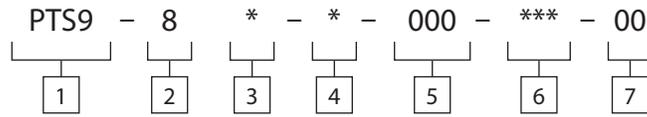
A - Pressure drop port 3 to port 4
 B - Pressure drop port 3 to port 2

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

PTS9-8 - Pilot to Shift Valve

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Model Code

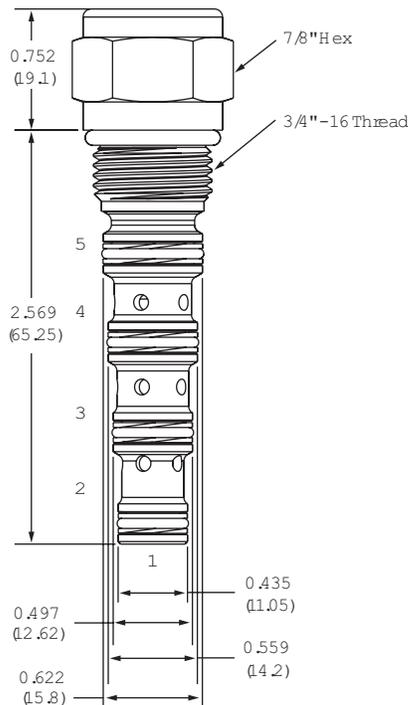


1 Function PTS9 - Pilot to shift valve	4 Body 0 - Cartridge only	6 Pilot to shift (nominal) 080 160 - 11,0 bar (160 psi) 7 Special Features 00(Only required if valve has special features, omitted if "00")
2 Size 8 - C-8-5S cavity	5 Port Size 000- Cartridge only	
3 Seal Material Blank - Buna-N V - Viton®		

Dimensions

mm (inch)

Cartridge Only



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).

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