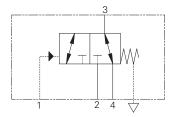
PTS15-16 - Pilot to Shift Valve

Pilot operated, directional control valve 132 L/min (35 USgpm) • 350 bar (5000 psi)



Operation

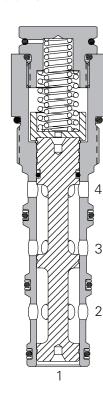
This valve allows flow between ports 3 and 4 while blocking port 2 until sufficient pressure has been applied to port 1 and the spring bias is overcome. At this time, flow is directed between port 2 and port 3 while blocking port 4. During the cross-over transition, all ports are open. The spring chamber for this valve is externally vented to atmosphere.

Features

Hardened, ground and honed sleeve and spool for low internal leakage. Working pressure 350 bar.

Sectional View

D



Performance Data

Ratings and Specifications	
Performance data is typical with fluid at 21,8 cST (105 S	SUS) and 49°C (120°F)
Typical application pressure (all ports)	350 bar (5000 psi)
Cartridge fatigue pressure (infinite life)	350 bar (5000 psi)
Rated flow	132 L/min (35 USgpm)
Internal leakage	210 cc/min (13in ³ /min) @ 350 bar (5000 psi)
Temperature range	-40°to 120°C(-40° to 248°F)
Pilot pressures	80 - 5,5 bar (80 psi) 160 - 11,0 bar (160 psi)
Pilot displacement volume	1,97 cm ³ (0.12 in ³)
Cavity	C-I6-4
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 or Stee
Weight cartridge only	0.5 kg (1.12 lbs)
Seal kit	889634 (Buna-N), 889638 (Viton [®])
Viton is a registered trademark of EL DuPont	

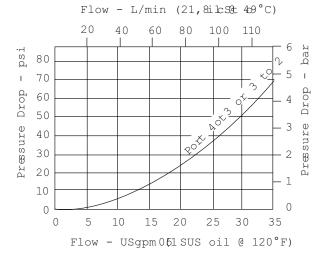
Viton is a registered trademark of E.I. DuPont

Pressure Drop Curves

Cartridge only

Description

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



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



PTS15-16 - Pilot to Shift Valve

Pilot operated, directional control valve 132 L/min (35 USgpm) • 350 bar (5000 psi)

Model Code	PTS15	5 – 16 – 2	(V) – * 	*** _ *** 4 _ 5	- 00 6		
1 Function PTS15 - Pilot to shift valve 2 Size		ort size Cartridge only Port Size	Housing Numbe	er		5 Pilot to 40 - 2,7 bai 80 - 5,5 bai 160 - 11,0 ba	
16 - 16 Size			Aluminum Light Duty	Aluminum Fatigue Rated	Steel		
	A12T	SAE 12	566411			6 Special	
3 Seals	A6B	3/4" BSPP	02-175468			00 - None	
Blank - Buna-N	A10H	SAE 10		876729		(Only require cial features, o	
	A12H	SAE 12		876731			
	A4G	1/2" BSPP		876728			
	A6G	3/4" BSPP		876730			
	S4G	1/2" BSPP			02-175143		
	S6G	3/4" BSPP			02-175144		
	S10T	SAE 10			02-175141		

shift (nominal)

ar (40 psi)

ar (80 psi)

bar (160 psi)

features

ed if valve has speomitted if "00")

D

SAE 12 See section J for housing details.

S12T

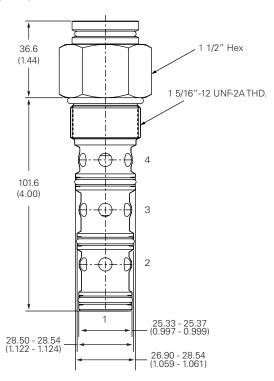
Dimensions mm (inch)

Torque cartridge in aluminum housing 108-122 Nm (80-90 ft. lbs)

Torque cartridge in steel housing 136-149.6 Nm (100-110 ft. lbs)

Installation Drawing (Steel)

Cartridge Only



36.6 (1.44) 54.0 25.4 (2.12) (1.00) 11 Λ 82.5 120.7 3 (3.25) (4.75) 2 139.7 (5.50)2 X Ø 10.31 1 (0.406) 25.4 (1.00) 12.7 76.2 25.4 (1.00) (3.000) (0.50) - 50.8 (2.00) 101.6 (4.00)

02-175142



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.