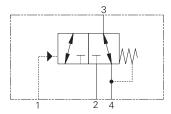
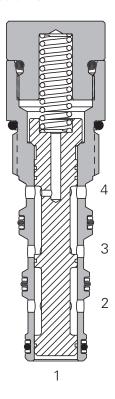
PTS13-10 - Pilot to Shift Valve

Pilot operated, directional control valve 30 L/min (8 USgpm) • 350 bar (5000 psi)



Sectional View

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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.

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 blocked. The spring chamber for this valve is vented to port 4.

Features

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

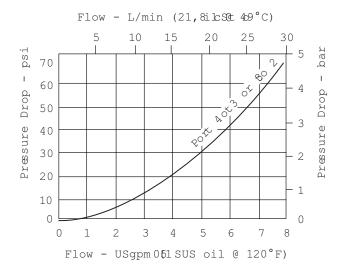
Performance Data

Performance data is typical with fluid at 21,8 cST (105 S	5US) 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	30 L/min (8 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	40 - 2,75 bar (40 psi 80 - 5,5 bar (80 psi 160 - 11,0 bar (160 psi
Pilot displacement volume	0,49 cm ³ (0.02 in ³
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 or Stee
Weight cartridge only	0,14 kg (0.32 lbs
Seal kit	889625 (Buna-N), 566080 (Viton [®]
Viton is a registered trademark of FL DuPont	

Viton is a registered trademark of E.I. DuPont

Pressure Drop Curves

Cartridge only



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



PTS13-10 - Pilot to Shift Valve

Pilot operated, directional control valve 30 L/min (8 USgpm) • 350 bar (5000 psi)

Model Code	PTS13	- 10 - 2	(V) – 3	**** _ *** 	* – 00] [] 6	
1 Function	4 Pc	ort Size				
PTS13 - Pilot to shift valve	0 - Cartridge only					
2 Size	Code	Port Size	Housing Nu	ımber		
10 - 10 size			Aluminum Light duty	Aluminum Fatigue ra		
	A3B	3/8″ BSPP	02-179705			
3 Seals	A6T	SAE 6	566161			
Blank - Buna-N	A2G	1/4″ BSPP		02-185804		
V - Viton [®]	A3G	3/8" BSPP	02-185805			
	A6H	SAE 6		02-185802		
	A8H	SAE 8		02-185803		
	S2G	1/4" BSPP			02-175139	
	S3G	3/8" BSPP			02-175140	
	S6T	SAE 6			02-175137	
	S8T	SAE 8			02-175138	

Pilot to shift (nominal)

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

Special features

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lone required if valve has speatures, omitted if "00")

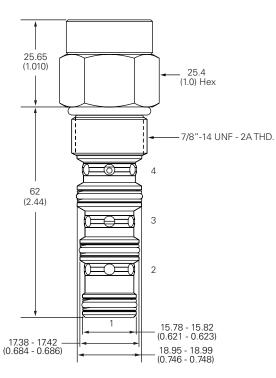
See section J for housing details.

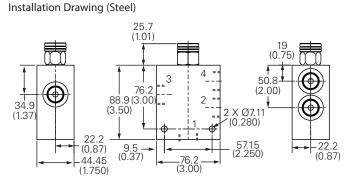
Dimensions mm (inch)

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

Torque cartridge in steel housing 136-149 Nm (100-110 ft. lbs)

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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