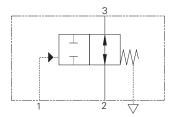
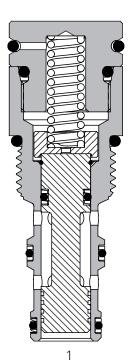
## PTS17-10 - Pilot to Shift Valve

2/2, pilot operated directional control valve 30 L/min (8 USgpm) • 350 bar (5000 psi)



#### Sectional View



#### Description

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

### Operation

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

**Performance Data** 

## The spring chamber for this

valve is externally vented to atmosphere.

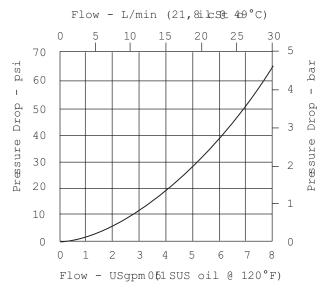
#### Features

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

Performance data is typical with fluid at 21,8 cSt (105	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	30 L/min (8 USgpm
Internal leakage	210 cc/min (13in <sup>3</sup> /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 <sup>3</sup> (0.02 in <sup>3</sup>
Cavity	C-10-:
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 and Stee
Weight cartridge only	0,10 kg (0.23 lbs
Seal kit	889624 (Buna-N), 889628 (Viton <sup>®</sup>

### **Pressure Drop Curves**

Cartridge only



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





# PTS17-10 - Pilot to Shift Valve

2/2, pilot operated directional control valve 30 L/min (8 USgpm) • 350 bar (5000 psi)

Model Code	PTS17	7 – 10 2	(V) – 	*** _ **  4 _ 5	- 00 6
1 Function	4 Pe	ort size			
PTS17 - Pilot to shift valve	0 -	Cartridge only			
2Size10- 10 Size3SealsBlank - Buna-NV- Viton*	Code	Port Size	Housing Numb	er	
			Aluminum Light Duty	Aluminum Fatigue Rated	Steel
	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	
	S2G	1/4" BSPP			02-175127
	S3G	3/8″ BSPP			02-175128
	S6T	SAE 6			02-175124

lot to shift (nominal)

ode based on pressure in psi. 2,75 bar (40 psi) 5,5 bar (80 psi) 1,0 bar (160 psi)

D

#### pecial features

None equired if valve has spetures, omitted if "00")

SAE 8 See section J for housing details.

S8T

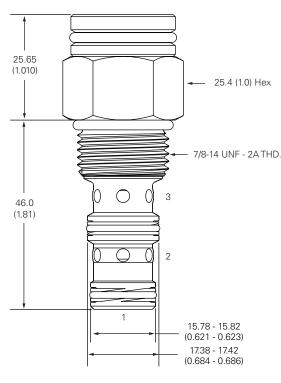
Dimensions mm (inch)

Torque cartridge in aluminum housing 47-54 Nm (35-40 ft. lbs) Torque cartridge in steel housing 68-75 Nm (50-55 ft. lbs)

Installation Drawing (Steel)

02-175125

#### Cartridge Only



25.7 (1.01) 35.1 (1.38) = : 3 63.5 2 (2.50) 76.2 19.1 (0.75) 2X Ø7.14 (3.00)(0.28) 9.7 - 57.02 -(2.245) 22.4 22.4 (0.38) (0.88) (0.88) 76.2 (3.00)



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.