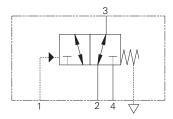
PTS1-16 - Pilot to Shift Valve

Pilot operated, directional control valve 132 L/min (35 USgpm) • 210 bar (3000 psi)



Operation

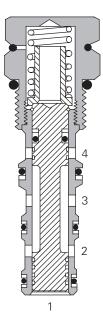
This valve allows flow between ports 2 and 3 while blocking port 4 until sufficient pressure has been applied to port 1 and the spring bias is overcome. At this time, flow is directed between port 3 and port 4 while blocking port 2. During the cross-over transition, all ports are blocked. The spring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

Features

Hardened, ground and honed sleeve and spool for low internal leakage.

Sectional View

D



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 removed.

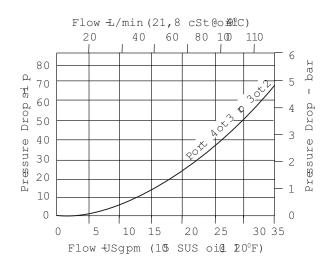
Performance Data

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	132 L/min (35 USgpm)		
Internal leakage	164 cc/min (10 in ³ /min) maximum @ 210 bar (3000 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	1,97 cm3 (0.12 in ³		
Cavity	C-16-4		
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	0,5 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



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





PTS1-16 - Pilot to Shift Valve

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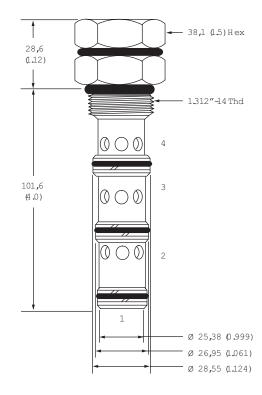
Model Code	PTS1 -	- 16 (V) -	· *** _ *** _	00		
1FunctionPTS1 - Pilot to shift valve2Size16 - 16 size3Seal MaterialBlank -Buna-NV -Viton*		0 - Cartridge only			5 Pilot to shift (nominal) 40 - 2,75 bar (40 psi) 80 - 5,5 bar (80 psi) 160 - 11,0 bar (160 psi)	
	107	CAE 12	Aluminium Light duty	Aluminium Fatigue rated	6 Special features	
		SAE 12 3/4" BSPP	566411 02-175468	-	00 - None (Only required if valve has special features, omitted if "00.")	
	0B 10H	SAE 10	02-175408	- 876729		
	10H 12H	SAE 10	-	876731		
	4G	1/2" BSPP	_	876728		
	6G	3/4" BSPP	-	876730		
		or housing details.				

Dimensions

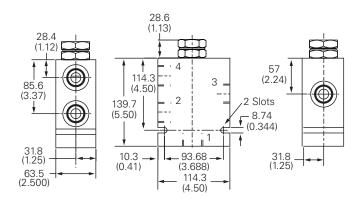
mm (inch)

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

Cartridge Only



Installation Drawing







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

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