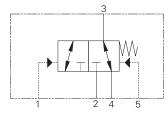
PTS9-20 - Pilot to Shift Valve

Pilot operated, directional control valve 230 L/min (60 USgpm) • 280 bar (4000 psi)



Operation

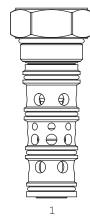
This valve allows flow between ports 3 and 4 while blocking port 2 until sufficient pressure has been applied to port 1 and the spring bias is overcome. At that time flow is directed between ports 3 and 2 while blocking port 4. During the cross-over transition, all ports are open. The spring chamber for this valve is vented to port 5.

Features

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

Sectional View

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Performance Data

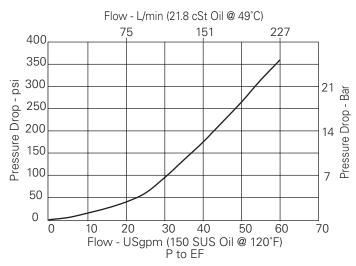
Performance data is typical with fluid at 21,8 cST (10	95 SUS) and 49°C (120°F)
Typical application pressure (all ports)	280 bar (4000 psi
Cartridge fatigue pressure (infinite life)	280 bar (4000 psi
Rated flow	230 L/min (60 USgpm)
Transition	All ports oper
Internal leakage, port 2 to port 1	164 cc/min (10 in³/min) @ 210 bar (3000 psi
Temperature range	-40° to 120°C (-40° to 248°F
Cavity	C-20-55
Fluids	All general purpose hydraulic fluids such as MIL-H-5606, SAE 10, SAE 20 etc
Filtration	Cleanliness code 18/16/13
Standard housing material	Aluminum or Stee
Weight cartridge only	0,86 kg (1.9 lbs
Seal kit	(Urethane) 02-187543

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



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



PTS9-20 - Pilot to Shift Valve

Pilot operated, directional control valve 230 L/min (60 USgpm) • 280 bar (4000 psi)

Model Code	PTS9	- 20 U 2 3	_ * _ _ 4	*** _ *** 5 6	- 00 			
1 Function PTS9 - Pilot to shift valve	5 Pc Code	ort Size Port Size		Housing Number		6 Shift Pressure 40 - 2,75 bar (40 psi)		
2 Size 20 - C-20-5S cavity		Port 2, 3 & 4	Port 1 & 5	Aluminum	Steel	80 - 5,5 bar (80 psi) 7 Special Features 00 - None		
	000	No Body	_	_	_			
	16T	SAE 16	SAE 4	4994880-002	4994881-002			
3 Seal Material	08G	1" BSPP	1/4" BSPP	4994880-004	4994881-004	(Only required if valve has special		
U - Urethane (standard)	See secti	See section J for housing details.				features, omitted if "00".)		
4 Body								

Dimensions

O - Cartridge only A - Aluminum S - Steel

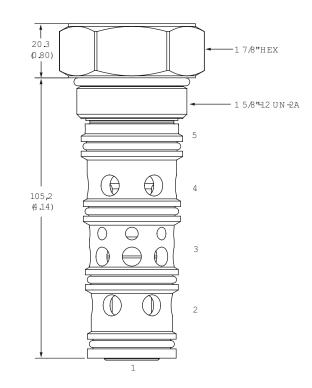
mm (inch)

Cartridge Only

Torque cartridge in housing:

A - 108-122 Nm (80-90 ft lbs)

S - 136-149 Nm (100-110 ft lbs)



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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