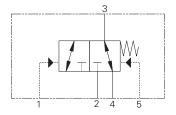
# PTS9-12 - Pilot to Shift Valve

Pilot operated, directional control valve 76 L/min (20 USgpm) • 280 bar (4000 psi)



### Operation

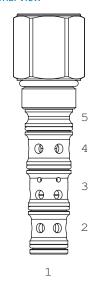
This valve allows flow between ports 3 and 4 while blocking port 2 until sufficient pressure has been applied to port 1 and the spring bias is overcome. At that time flow is directed between ports 3 and 2 while blocking port 4. During the cross-over transition, all ports are open. The spring chamber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

### **Features**

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

### Sectional View

D



### Performance Data

	Ratings	and	Specification
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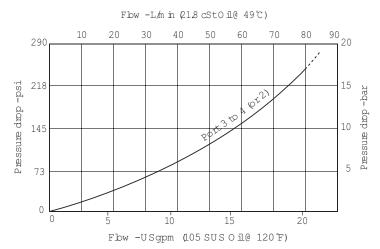
natings and specifications		
Performance data is typical with fluid at 21,8 cST (105 SUS) and	49°C (120°F)	
Typical application pressure (all ports)	280 bar (4000 psi)	
Cartridge fatigue pressure (infinite life)	280 bar (4000 psi)	
Rated flow	76 L/min (20 USgpm)	
Transition	All ports open	
Internal leakage, port 2 to port 1	164 cc/min (10 in <sup>3</sup> /min) @ 210 bar (3000 psi)	
Temperature range	-40° to 120°C (-40° to 248°F)	
Cavity	C-12-5S	
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 steel	
Weight cartridge only	0,36 kg (0.79 lbs)	
Seal kit	(Urethane) 202914-921	

### 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

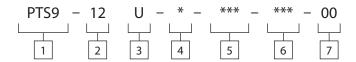




# PTS9-12 - Pilot to Shift Valve

Pilot operated, directional control valve 76 L/min (20 USgpm) • 280 bar (4000 psi)

### Model Code



1 Function

PTS9 - Pilot to shift valve

2 Size

8 - C-12-5S cavity

3 Seal Material

U - Urethane (standard)

4 Body

0 - Cartridge only

A - Aluminum

S - Steel

5 Port Size

Code	Port Size		Housing Number	
	Port 2, 3 & 4	Port 1 & 5	Aluminum	Steel
000	No Body	-	-	_
12T	SAE 12	SAE 4	4998820-002	4998821-002
06G	3/4" BSPP	1/4" BSPP	4998820-004	4998821-004
See sect	ion J for housing d	etails.		

6 Shift Pressure

075 - 5,2 bar (75 psi) 110 - 7,6 bar (110 psi)

7 Special Features

00 - None

(Only required if valve has special features, omitted if "00".)

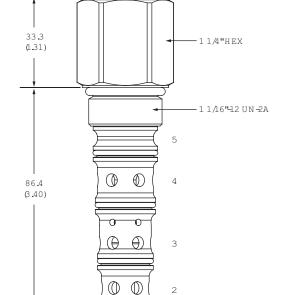
Dimensions

mm (inch)

Cartridge Only

Torque cartridge in housing:

A - 81-95 Nm (60-70 ft lbs) S - 102-115 Nm (75-85 ft lbs)



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WARNING

Aluminum housings can be used for presto 210 bar (3000 psi).

sures up to 210 bar (3000 psi). Steel housings must be used for operating pressures above 210 bar (3000 psi).



