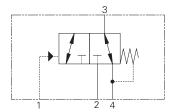
PTS3-20 - Pilot to Shift Valve

Pilot operated, directional control valve 265 L/min (70 USgpm) • 210 bar (3000 psi)



Operation

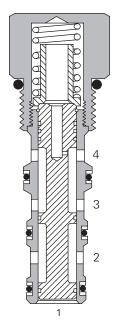
This valve allows flow between ports 3 and 4 while blocking port 2 until sufficient pressure has been applied to port 1 and the spring bias is overcome. At this time, flow is directed between port 2 and port 3 while blocking port 4. During the cross-over transition, all ports are blocked. The spring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

Features

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

Sectional View

D



Performance Data

Ratings	and	Specification	9

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	265 L/min (70 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)				
Pilot displacement volume	6,72 cm³ (0.41 in³)				
Cavity	C-20-4				
Fluids	All general purpose hydraulic fluids such as: MIL-H-5606, SAE 10, SAE 20 etc.				
Filtration	Cleanliness code 18/16/13				
Standard housing material	Aluminum				
Weight cartridge only	0,5 kg (1.12 lbs)				
Seal kit	565916 (Buna-N), 889646 (Viton*)				
Vitan is a registered trademark of E.I. DuDont					

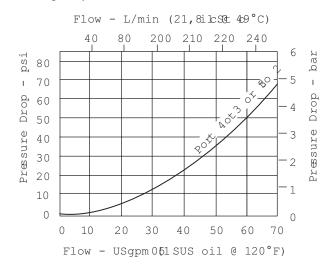
Viton is a registered trademark of E.I. DuPont

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.

Pressure Drop Curves

Cartridge only





PTS3-20 - Pilot to Shift Valve

Pilot operated, directional control valve 265 L/min (70 USgpm) • 210 bar (3000 psi)

Model Code

PTS3 - 20 (V) - *** - ** - 00

1 Function

PTS3 - Pilot to shift valve

2 Size 20 - 20 size

3 Seal Material Blank - Buna-N V - Viton® 4 Port Size

Code	Port Size	Housing Number				
		Aluminum Light Duty	Aluminum Fatigue Rated			
0	Cartridge only					
16T	SAE 16	566412	-			
8B	1" BSPP	02-175469	-			
12H	SAE 12	_	876745			
16H	SAE 16	-	876747			
6G	3/4" BSPP	_	876744			
8G	1" BSPP	_	876746			
See section J for housing details.						

5 Pilot to shift (nominal)

40 - 2,75 bar (40 psi) 80 - 5,5 bar (80 psi)

6 Special Features

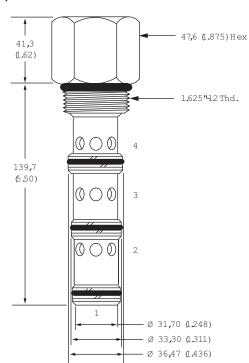
00 - None

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

Dimensions mm (inch)

Torque cartridge in aluminum housing 129-155 Nm (95-115 ft lbs)

Cartridge Only



Installation Drawing

