



High side, 3-position, shuttle valve

Capacity:
120 gpm (480 L/min.)

Functional Group:

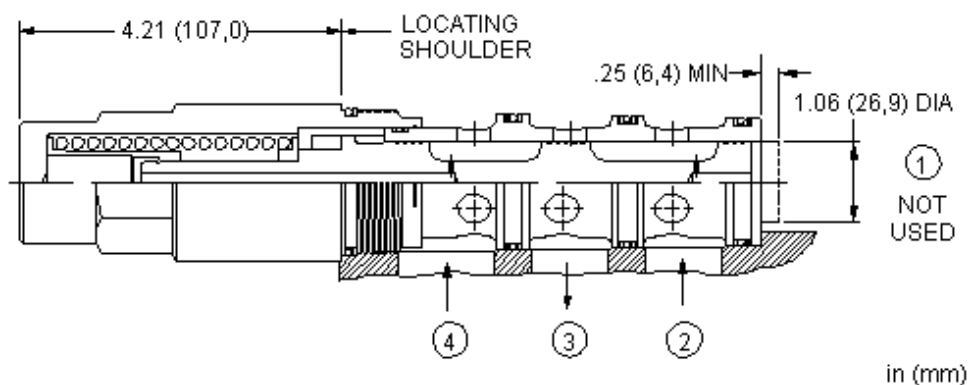
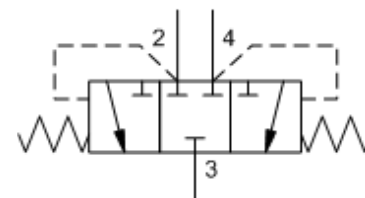
Products : Cartridges : Shuttle Valve : 4-Port : High Side, 3 Position

Model:

DSIS

Product Description

High-side shuttle cartridges are most often used in full-time regeneration circuits. When both work ports (ports 2 and 4) are at equal pressures the valve is spring-centered to an all-ports-blocked position. When one of the work ports (port 2 or 4) sees a higher pressure it is connected to the common port (port 3).



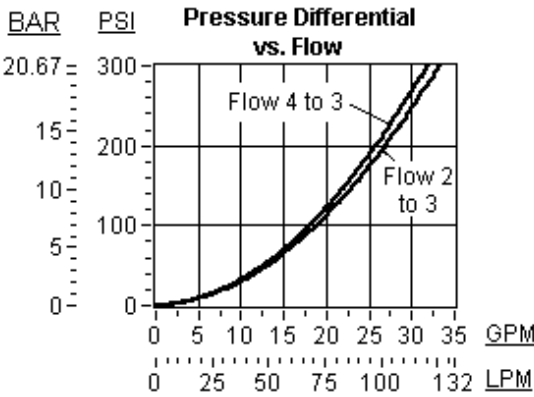
in (mm)

Technical Features

- This valve provides overrunning load control in regeneration applications where the load tends to extend the cylinder. Because there is spool leakage, it does not prevent drift.
- Although this valve goes into a 4-port cavity, the nose (port 1) is not used.
- Hardened spool/sleeve construction provides excellent wear characteristics and minimizes cross leakage.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

Technical Data

	U.S. Units	Metric Units
Cavity	T-34A	
Capacity	120 gpm	480 L/min.
Maximum Operating Pressure	5000 psi	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	5 in ³ /min.@1000 psi	80 cc/min.@70 bar
Series (from Cavity)	Series 4	
Valve Hex Size	1 5/8 in.	41,3 mm
Valve Installation Torque	350 - 375 lbf ft	475 - 500 Nm
Seal Kits - Cartridge	Buna: 990-034-007	
Seal Kits - Cartridge	Viton: 990-034-006	
Model Weight	4.51 lb.	2.05 kg.



DSIS-XGN

Control	Shifting Pressure	Seal Material
Standard Options	Standard Options	Standard Options
X Not Adjustable	C 30 psi (2 bar)	N Buna-N
	E 75 psi (5 bar)	V Viton
	F 100 psi (7 bar)	
	G 150 psi (10,5 bar)	