



Low side, 3-position, hot oil shuttle valve

Capacity:
80 gpm (320 L/min.)

Functional Group:

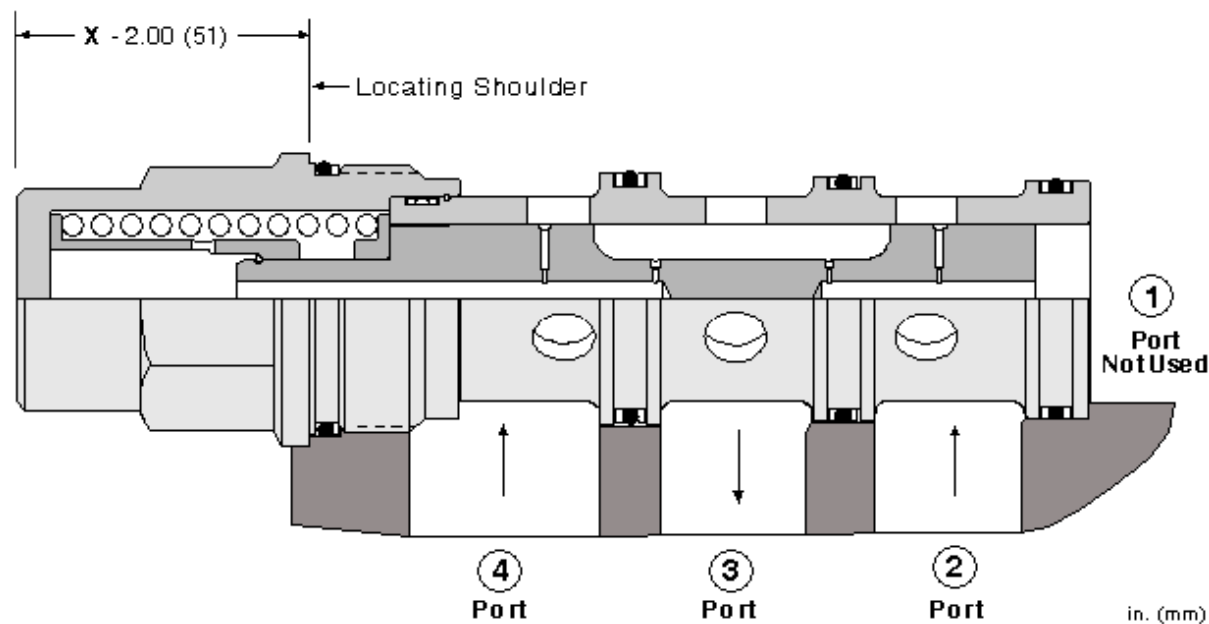
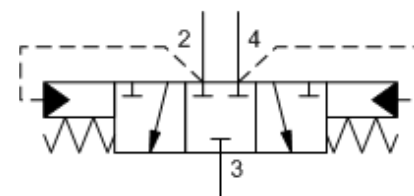
Products : Cartridges : Shuttle Valve : 4-Port : Low Side (Hot Oil), 3 Position

Model:

DSIH

Product Description

Low-side (hot oil) shuttle cartridges allow hot oil to be diverted from the low pressure side of a closed loop system. 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 the opposite work port is connected to the common port (port 3).

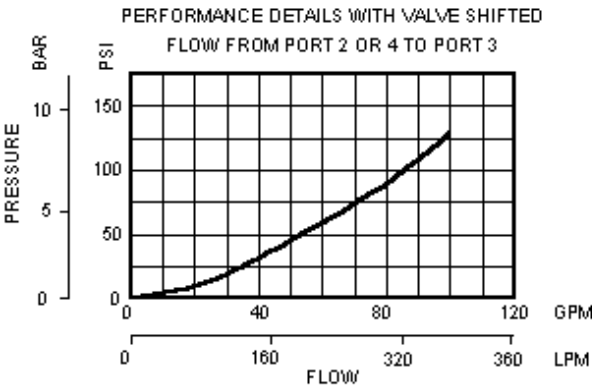


Technical Features

- The spool incorporates a hydraulic stop that eliminates mechanical impact and therefore the potential for internal damage.
- The hydraulic stop results in a small pilot flow from the high side work port (port 2 or 4) to the common port (port 3).
- A unique feature due to the hydraulic stop is that the hot oil relief setting can be confirmed with the transmission in neutral.
- NOTE: Low shift values can potentially result in charge pump pressure alone inadvertently shifting the valve. Use care when selecting shift pressure.
- Although this valve goes into a 4-port cavity, the nose (port 1) is not used.
- 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	80 gpm	320 L/min.
Maximum Operating Pressure	5000 psi	350 bar
Pilot Flow	46 in ³ /min.	0,75 L/min.
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	3.63 lb.	1.65 kg.



DSIH-XHN

Control	Shifting Pressure	Seal Material
Standard Options	Standard Options	Standard Options
X Not Adjustable	G 150 psi (10,5 bar)	N Buna-N
	H 200 psi (14 bar)	V Viton
Additional Options (Click Here)		
Control	Shifting Pressure	Seal Material
	E 75 psi (5 bar)	