



Direct-acting, low side, 3-position, shuttle valve

Capacity:
15 gpm (60 L/min.)

Functional Group:

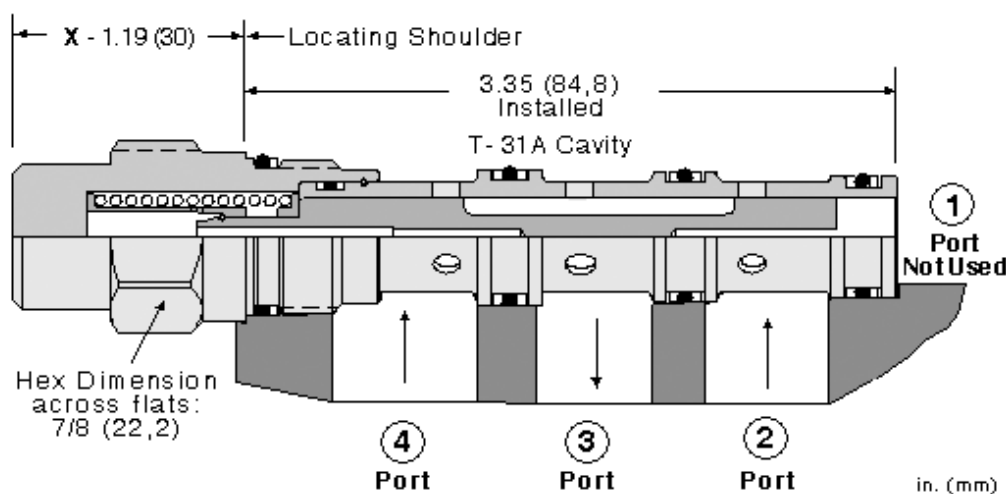
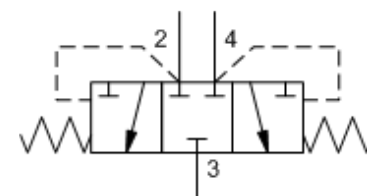
Products : Cartridges : Shuttle Valve : 4-Port : Low Side, Direct-operated, 3 Position

Model:

DSC

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).

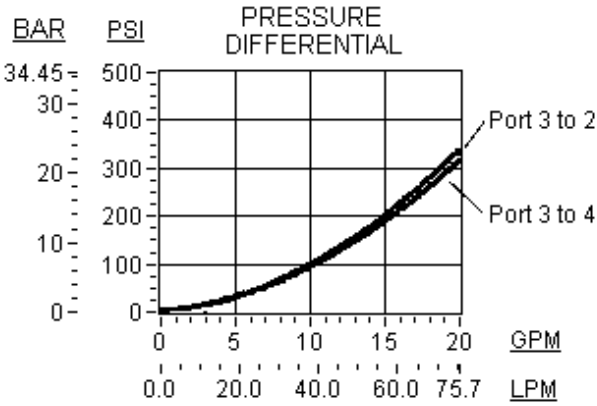


Technical Features

- 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.
- This valve does not have a hydraulic stop and therefore has no pilot flow. Some circuits other than hydrostatic transmissions cannot tolerate the added 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-31A	
Capacity	15 gpm	60 L/min.
Maximum Operating Pressure	5000 psi	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	1 in ³ /min.@1000 psi	15 cc/min.@70 bar
Series (from Cavity)	Series 1	
Valve Hex Size	7/8 in.	22,2 mm
Valve Installation Torque	30 - 35 lbf ft	40 - 50 Nm
Seal Kits - Cartridge	Buna: 990-031-007	
Seal Kits - Cartridge	Viton: 990-031-006	
Model Weight	0.41 lb.	0.19 kg.



DSCL-XGN

Control

Standard Options

X Not Adjustable

Shifting Pressure

Standard Options

- C** 30 psi (2 bar)
- E** 75 psi (5 bar)
- F** 100 psi (7 bar)
- G** 150 psi (10,5 bar)

Seal Material

Standard Options

- N** Buna-N
- V** Viton