

Normally open, balanced poppet, logic element - pilot-to-close

Capacity:
30 gpm (120 L/min.)

Functional Group:

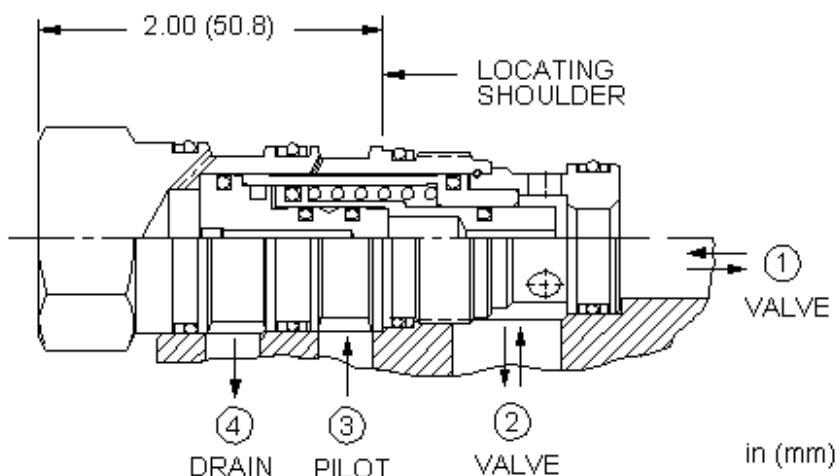
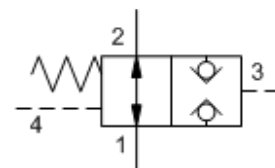
Products : Cartridges : Logic Element : Balanced Poppet : Normally Open, Direct Operated

Model:

DOFS

Product Description

This is a normally open, balanced poppet, switching element. Pilot pressure at port 3 shifts the valve to the closed position.

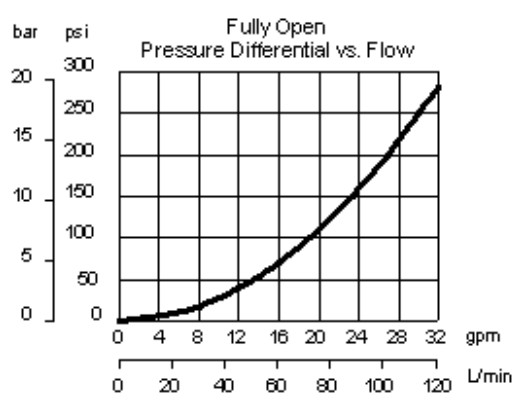


Technical Features

- Unique balanced construction provides predictable switching with 5000 psi (350 bar) at both ports 1 and 2, with the external drain open and a minimum pilot pressure of 300 psi (20 bar).
- Valve will open when the pilot pressure falls below 145 psi (10 bar).
- These valves are hydraulically balanced between port 1 and port 2.
- Port 1 and port 2 are fully sealed from port 3 and port 4. Ports 3 and 4 are positively sealed.
- Any backpressure at the drain port is directly additive to the required pilot pressure for reliable operation.
- Leakage rate between port 1 and port 2 is very low, typically less than 10 drops/min. at 5000 psi (0,7 cc/min at 350 bar).
- All ports will accept 5000 psi (350 bar).
- 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-22A	
Capacity	30 gpm	120 L/min.
Minimum Pilot Pressure Required to Shift Valve	300 psi	20 bar
Maximum Operating Pressure	5000 psi	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	5 drops/min.@5000 psi	0,3 cc/min.@350 bar
Pilot Volume Displacement	.02 in ³	0,33 cc
Series (from Cavity)	Series 2	
Valve Hex Size	1 1/8 in.	28,6 mm
Valve Installation Torque	45 - 50 lbf ft	60 - 70 Nm
Seal Kits - Cartridge	Buna: 990-022-007	
Seal Kits - Cartridge	Viton: 990-022-006	
Model Weight	0.63 lb.	0.29 kg.

**DOFS-XHN****Control****Minimum Pilot Pressure****Seal Material****Material/Coating
Modifier****Standard Options****Standard Options****Standard Options****Preferred Options****X** Standard Pilot**H** 200 psi (14 bar)**N** Buna-N**V** Viton**No modifier** (standard material with no special coating)**Special Options****/AP** Stainless Steel, Passivated

Control: X

Our corrosion resistant product line is growing! If you are interested in a corrosion resistant option for this model, please contact Sun.

When the modifier is /AP, the control must be X