



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

Capacity:
120 gpm (480 L/min.)

Functional Group:

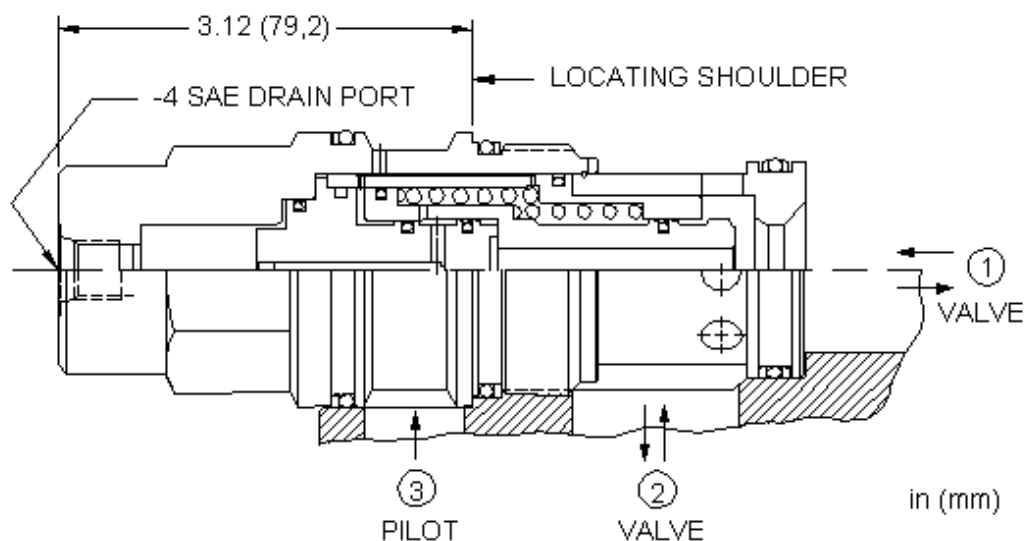
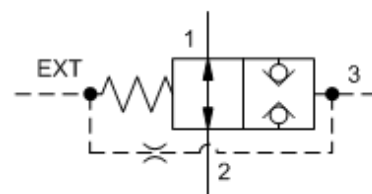
Products : Cartridges : Logic Element : Balanced Poppet, 3 Port : Normally Open, Vent to Operate

Model:

DOJD

Product Description

This is a normally open, balanced poppet, switching element. When the external vent port is blocked, the poppet remains in the open position. Venting the external port shifts it to the closed position, provided there is sufficient pressure at port 3.

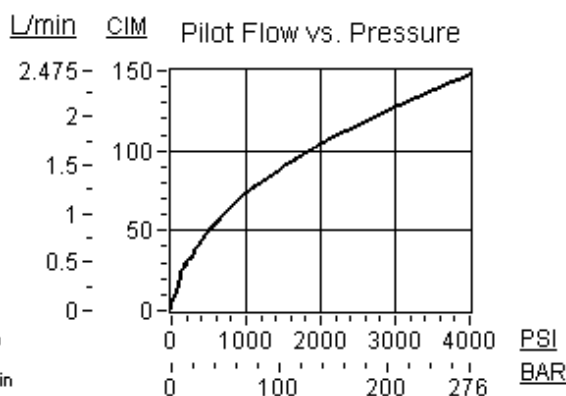
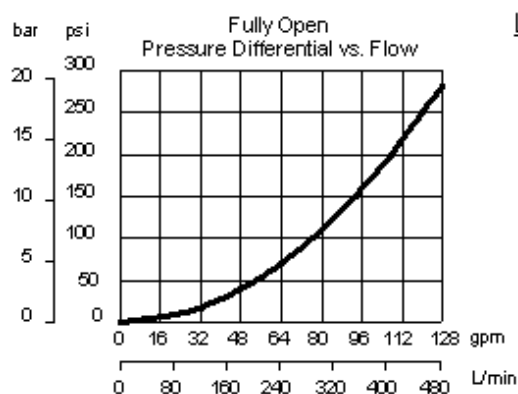


Technical Features

- Unique balanced construction provides predictable switching with 5000 psi (350 bar) at port 1 and port 2, with the external drain port open and a minimum pilot pressure of 300 psi (20 bar).
- Valve will open when the pilot pressure falls below 145 psi (10 bar).
- The external -4 SAE vent port may be directly connected to a pilot switching valve. The pilot valve should have a leakage rate of less than 10 drops/min (0,7 cc/min). and be able to satisfy the pilot flow requirements. Sun model DAA*.-*** solenoid pilot valve is ideal for this application.
- These valves are hydraulically balanced between port 1 and port 2.
- 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).
- Port 1 and port 2 are fully sealed from port 3.
- 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-19A	
Capacity	120 gpm	480 L/min.
Minimum Pilot Pressure Required to Shift Valve	300 psi	20 bar
Control Pilot Flow	15 - 30 in ³ /min.	0,25 - 0,50 L/min.
Maximum Operating Pressure	5000 psi	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	10 drops/min.@5000 psi	0,7 cc/min.@350 bar
Pilot Volume Displacement	.17 in ³	2,8 cc
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: 990-019-007	
Seal Kits - Cartridge	Viton: 990-019-006	
Model Weight	3.05 lb.	1.38 kg.

**DOJD-EHN****Control****Minimum Pilot Pressure****Seal Material****Standard Options****Standard Options****Standard Options****E** External 4-SAE Drain Port**H** 200 psi (14 bar)**N** Buna-N**V** Viton