

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

Capacity:
15 gpm (60 L/min.)

Functional Group:

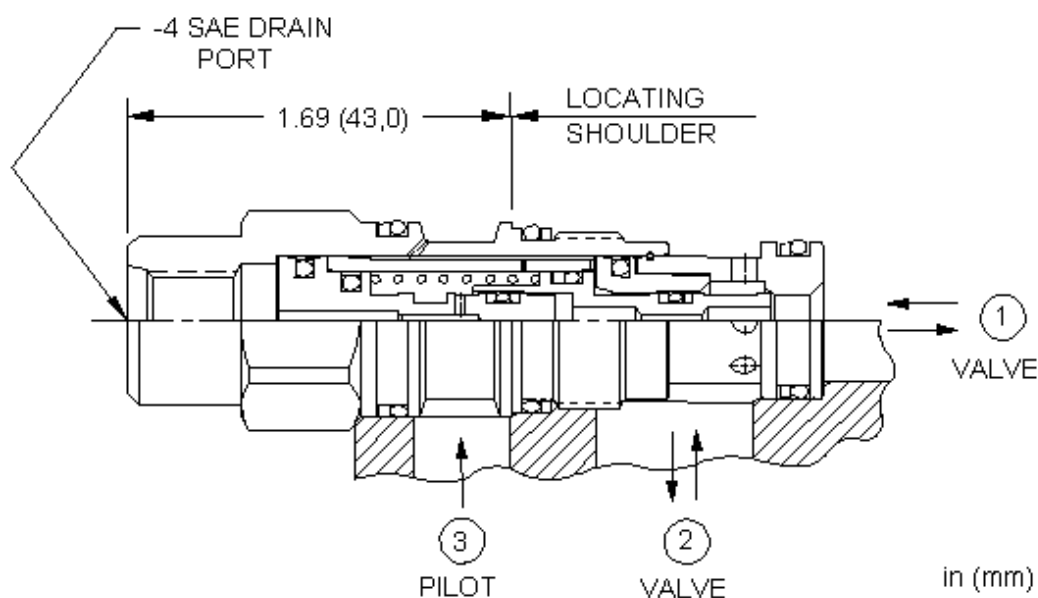
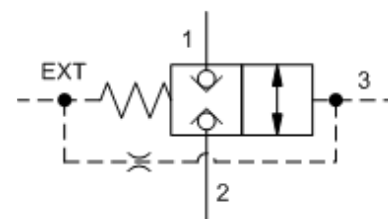
Products : Cartridges : Logic Element : Balanced Poppet, 3 Port : Normally Closed, Vent to Operate

Model:

DKDD

Product Description

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

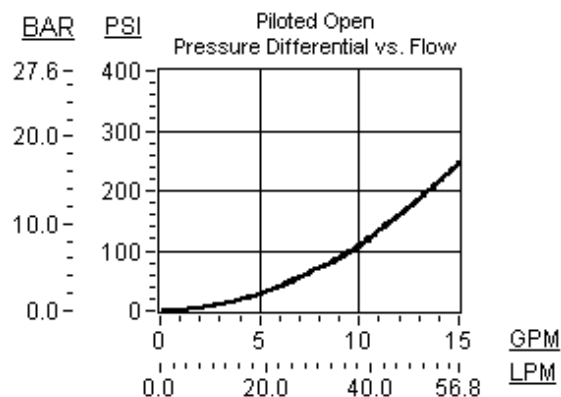
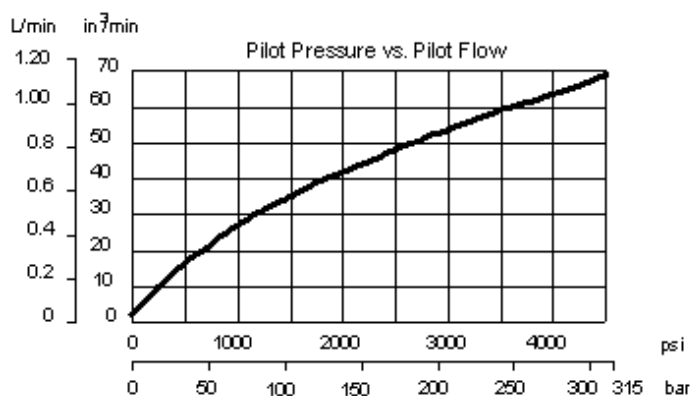


Technical Features

- 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 400 psi (30 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.
- 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-11A	
Capacity	15 gpm	60 L/min.
Minimum Pilot Pressure Required to Shift Valve	400 psi	28 bar
Control Pilot Flow	25 - 30 in ³ /min.	0,40 - 0,50 L/min.
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 Passage into Valve	.031 in.	0,8 mm
Pilot Volume Displacement	.01 in ³	0,16 cc
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: 990-011-007	
Seal Kits - Cartridge	Viton: 990-011-006	
Model Weight	0.31 lb.	0.14 kg.

**DKDD-EHN****Control****Standard Options****E** External 4-SAE Drain Port**Minimum Pilot Pressure****Standard Options****H** 400 psi (28 bar)**Seal Material****Standard Options****N** Buna-N**V** Viton