



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

Capacity:
15 gpm (60 L/min.)

Functional Group:

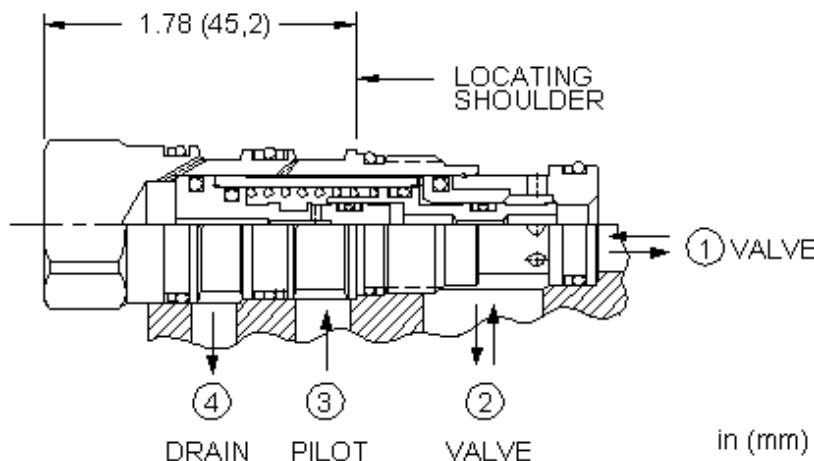
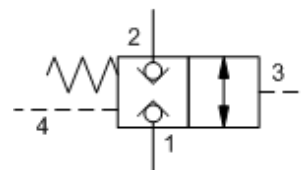
Products : Cartridges : Logic Element : Balanced Poppet : Normally Closed, Direct Operated

Model:

DKDS

Product Description

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



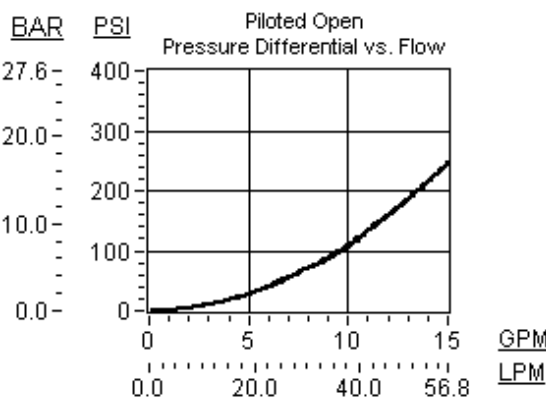
Technical Features

- 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 400 psi (30 bar).
- 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).
- These valves are hydraulically balanced between port 1 and port 2.
- Valve will reseal when the pilot pressure falls below 145 psi (10 bar).
- Port 1 and port 2 are fully sealed from port 3 and port 4. Ports 3 and 4 are positively sealed.
- All ports will accept 5000 psi (350 bar).
- Any backpressure at the drain port is directly additive to the required pilot pressure for reliable operation.
- 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-21A	
Capacity	15 gpm	60 L/min.
Minimum Pilot Pressure Required to Shift Valve	400 psi	28 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 Passage into Valve	.03 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: 990-021-007	
Seal Kits - Cartridge	Viton: 990-021-006	
Model Weight	0.35 lb.	0.16 kg.



DKDS-XHN

Control	Minimum Pilot Pressure	Seal Material
Standard Options	Standard Options	Standard Options
X Standard Pilot	H 400 psi (28 bar)	N Buna-N
		V Viton