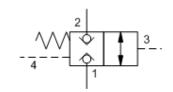
Standard Pilot

400 psi (28 bar)

Buna-N

Standard Material/Coating





# CONFIGURATION

Minimum Pilot

Seal Material

Control

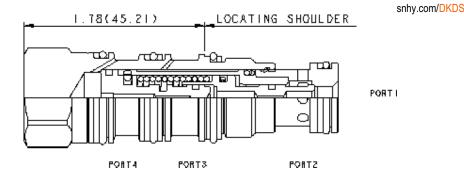
Pressure

(none) Material/Coating

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

#### **TECHNICAL DATA**

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Cavity	T-21A	
Series	1	
Capacity	15 gpm	
Minimum Pilot Pressure Required to Shift Valve	400 psi	
Maximum Operating Pressure	5000 psi	
Maximum Valve Leakage at 110 SUS (24 cSt)	10 drops/min.@5000 psi	
Pilot Volume Displacement	.01 in <sup>3</sup>	
Pilot Passage into Valve	.03 in.	
Valve Hex Size	7/8 in.	
Valve Installation Torque	30 - 35 lbf ft	
Seal kit - Cartridge	Buna: 990021007	
Seal kit - Cartridge	EPDM: 990021014	
Seal kit - Cartridge	Polyurethane: 990021002	
Seal kit - Cartridge	Viton: 990021006	
Model Weight	0.35 lb.	

#### **CONFIGURATION OPTIONS**

### Model Code Example: DKDSXHN

CONTROL	(X) MINIMUM PILOT PRESSURE	(H) SEAL MATERIAL	(N) MATERIAL/COATING	
X Standard Pilot	H 400 psi (28 bar)	N Buna-N	Standard Material/Coating	
		V Viton	/AP Stainless Steel, Passivated	
			/LH Mild Steel, Zinc-Nickel	

### **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).
- Cartridges configured with EPDM seals are for use in systems with phosphate ester fluids. Exposure to petroleum based fluids, greases and lubricants will damage the seals.
- 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).
- Valve will reseat when the pilot pressure falls below 145 psi (10 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.

# **PERFORMANCE CURVES**

