



### CONFIGURATION

|               |                        |                  |
|---------------|------------------------|------------------|
| <b>X</b>      | Control                | Standard Pilot   |
| <b>H</b>      | Minimum Pilot Pressure | 400 psi (28 bar) |
| <b>N</b>      | Seal Material          | Buna-N           |
| <b>(none)</b> | Material/Coating       |                  |

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                                       | 60 L/min.               |
| Maximum Operating Pressure                     | 350 bar                 |
| Minimum Pilot Pressure Required to Shift Valve | 28 bar                  |
| Maximum Valve Leakage at 110 SUS (24 cSt)      | 0,7 cc/min. @350 bar    |
| Pilot Volume Displacement                      | 0,16 cc                 |
| Pilot Passage into Valve                       | 0,8 mm                  |
| Valve Hex Size                                 | 22,2 mm                 |
| Valve Installation Torque                      | 41 - 47 Nm              |
| Seal kit - Cartridge                           | Buna: 990021007         |
| Seal kit - Cartridge                           | EPDM: 990021014         |
| Seal kit - Cartridge                           | Polyurethane: 990021002 |
| Seal kit - Cartridge                           | Viton: 990021006        |
| Model Weight                                   | 0.16 kg.                |

### CONFIGURATION OPTIONS

**Model Code Example: DKDSXHN**

| <b>CONTROL</b>          | <b>(X) MINIMUM PILOT PRESSURE</b> | <b>(H) SEAL MATERIAL</b>             | <b>(N) MATERIAL/COATING</b>   |
|-------------------------|-----------------------------------|--------------------------------------|---|
| <b>X</b> Standard Pilot | <b>H</b> 400 psi (28 bar)         | <b>N</b> Buna-N<br>E EPDM<br>V Viton | Standard Material/Coating<br>/AP Stainless Steel, Passivated<br>/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).
- 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 reseal when the pilot pressure falls below 145 psi (10 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.
- 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

