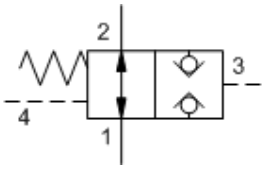
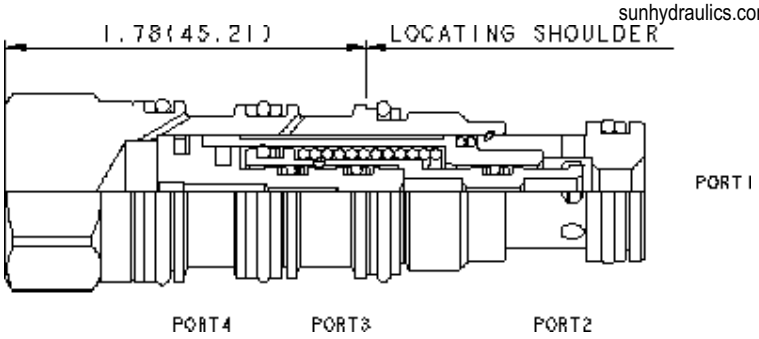
MODEL
**DODS**

Normally open, balanced poppet, logic element - pilot-to-close
**SERIES 1 / CAPACITY: 60 L/min. / CAVITY: T-21A**

sunhydraulics.com/model/DODS




## CONFIGURATION

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

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

| 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 |
| | | **E** EPDM | **/AP** Stainless Steel, Passivated |
| | | **V** Viton | **/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 open 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.

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## PERFORMANCE CURVES

