

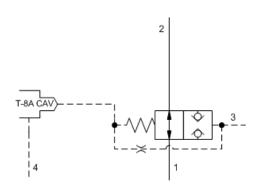
MODEL DOHR8

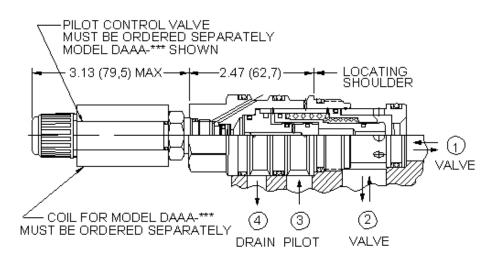
Normally open, balanced poppet, logic element with integral T-8A control cavity - vent-to-close

CAPACITY: 60 gpm / CAVITY: T-23A



sunhydraulics.com/model/DOHR8





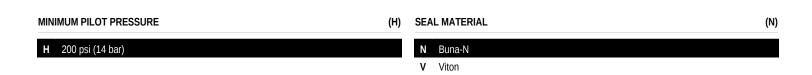
This is a normally open, balanced poppet, switching element with an integral T-8A control cavity. With a 2-way valve in the closed position installed in the T-8A control cavity, the poppet remains open. Opening the 2-way valve shifts the poppet to the closed position, provided there is sufficient pressure at port 3.

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

| Cavity | T-23A |
|--|---------------------------|
| Series | 3 |
| Capacity | 60 gpm |
| Maximum Operating Pressure | 5000 psi |
| Minimum Pilot Pressure Required to Shift Valve | 300 psi |
| Control Pilot Flow | See Performance Data |
| Maximum Valve Leakage at 110 SUS (24 cSt) | 10 drops/min.@5000 psi |
| Pilot Control Cavity | T-8A |
| Pilot Control Valve Hex Size | 7/8 in. |
| Pilot Control Valve Installation Torque | 20 - 25 lbf ft |
| Valve Hex Size | 1 1/4 in. |
| Valve Installation Torque | 150 - 160 lbf ft |
| Model Weight | 1.41 lb. |
| Seal kit - Cartridge | Buna: 990-023-007 |
| Seal kit - Cartridge | Polyurethane: 990-023-002 |
| Seal kit - Cartridge | Viton: 990-023-006 |

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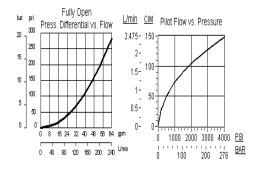
OPTION SELECTION EXAMPLE: DOHR8HN



TECHNICAL FEATURES

- Unique balanced construction provides predictable switching with 5000 psi (350 bar) at port 1 and port 2. Switching will only occur when both a minimum pilot pressure of 400 psi (30 bar) is present and pilot control valve is open.
- Valve will open when the pilot pressure falls below 145 psi (10 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).
- NOTE: With the -8 control option, the main stage valve should first be installed to the correct torque value. The T-8A pilot control valve should then be installed into the main stage valve to its required torque value.
- The -8 control option allows the pilot control valve to be incorporated directly into the end of the logic cartridge via the T-8A cavity. These pilot
 control cartridges are sold separately and include electro-proportional, solenoid, air pilot, and hydraulic pilot operation. See Pilot Control Cartridges.
- 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



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