

MODEL

CAPACITY: 60 gpm / CAVITY: T-23A

sunhydraulics.com/model/DKHR8



CONFIGURATION

H Minimum Control Pressure 300 psi (20 bar)

Buna-N

N Seal Material



This is a normally closed, 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 closed. Opening the 2-way valve shifts the poppet to the open position, provided there is sufficient pressure at port 3.

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

Т-23А
3
60 gpm
5000 psi
300 psi
See Performance Data
10 drops/min.@5000 psi
Т-8А
7/8 in.
20 - 25 lbf ft
1 1/4 in.
150 - 160 lbf ft
1.41 lb.
Buna: 990-023-007
Polyurethane: 990-023-002
Viton: 990-023-006

NOTES: • Compound cartridge (pilot and main stage) assembly information is provided for reference only. Cartridges must be ordered separately and assembled at point of use.



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.
- 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).
- 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.

Fully Open LPM CIM Pilot Flow vs. Pressure BAR PSI Pressure Differential 2.5- 150 vs. Flow 14 -200 2-100 10-150 1.5-100 1-50 5-0.5-50 0-0 0-0 _____ PSI 2500 5000 0 Ó 20 30 40 50 60 <u>GPM</u> 10 ó 345 ò 100 150 230 100 200 BAR 50 LPM

PERFORMANCE CURVES