

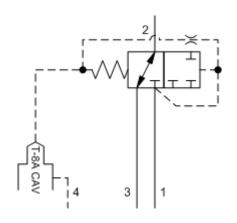


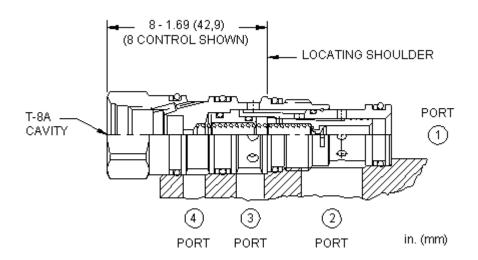
2-way, vent-to-operate, directional valve with drain to port 4 and integral T-8A control cavity - normally open

CAPACITY: 7 gpm / CAVITY: T-21A



sunhydraulics.com/model/DVBM





This valve is a normally open, 2-way directional cartridge that incorporates an integral pilot control cavity. It may be used by itself or to actuate larger pilot-operated directional cartridges or logic elements. The valve shifts when there is flow through the pilot control cartridge installed in the T-8A cavity.

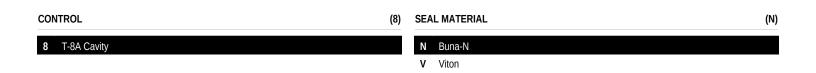
TECHNICAL DATA NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

| Cavity | T-21A |
|---|---------------------------|
| Series | 1 |
| Capacity | 7 gpm |
| Maximum Operating Pressure | 5000 psi |
| Control Pilot Flow | 7 - 10 in³/min. |
| Maximum Valve Leakage at 110 SUS (24 cSt) | 2 in³/min.@1000 psi |
| Pilot Control Cavity | T-8A |
| Valve Hex Size | 7/8 in. |
| Valve Installation Torque | 30 - 35 lbf ft |
| Model Weight | .50 lb |
| Seal kit - Cartridge | Buna: 990-021-007 |
| Seal kit - Cartridge | Polyurethane: 990-021-002 |
| Seal kit - Cartridge | Viton: 990-021-006 |

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.

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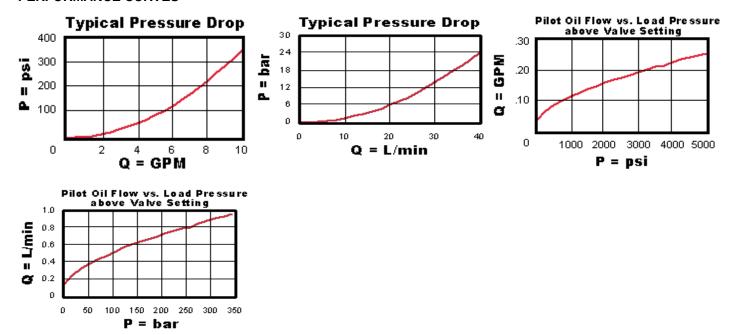
OPTION SELECTION EXAMPLE: DVBM8NV



TECHNICAL FEATURES

- Port 3 can be used as a work port.
- The flow path between port 2 and port 3 is bidirectional.
- NOTE: The main stage valve should first be installed to the correct torque value followed by the T-8A pilot control section into the main stage valve to its required torque value.
- This valve is not bistable; it is capable of modulating between the two positions shown.
- There must be a pressure source at port 1, relative to port 4, to shift the valve.
- The -8 control option allows the pilot control valve to be incorporated directly into the end of the directional cartridge via the T-8A cavity. These pilot control cartridges are sold separately and include solenoid operation, air pilot operation, and hydraulic pilot operation. See Pilot Control Cartridges.
- Leakage listed in technical data is for each path.
- 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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