

## 2-way, vent-to-operate, directional valve with internal drain to port 3 and integral T-8A control cavity - normally closed

Functional Group:

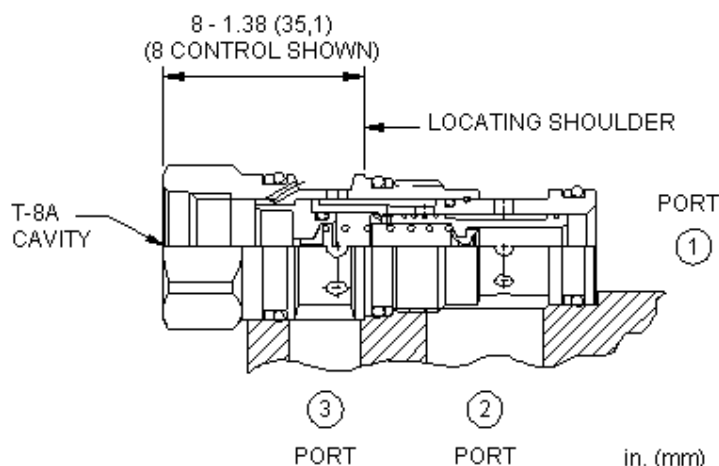
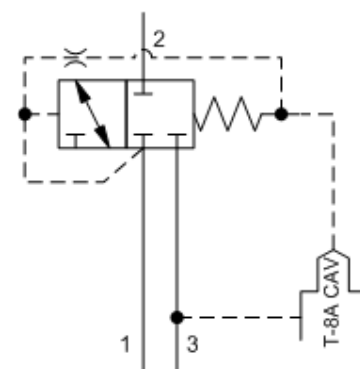
**Products : Cartridges : Directional; DP\*\*, DR\*\*, DV\*\* : 2 Way - 3 Port - Normally Closed : Integral T-8A Control Cavity**

Capacity:  
**7 gpm (28 L/min.)**

Model:  
**DVBB**

### Product Description

This valve is a normally closed, 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.

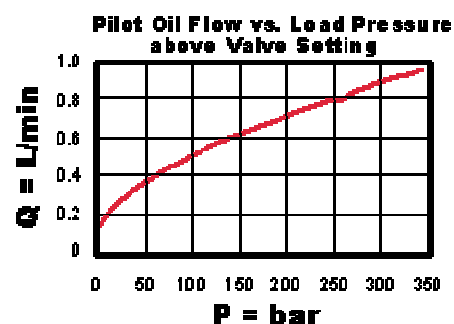
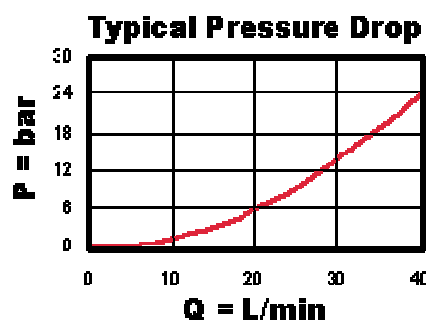
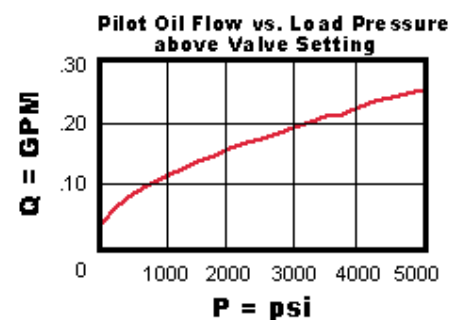
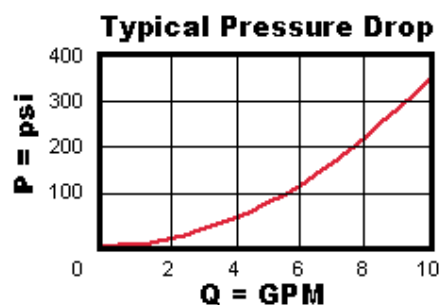


### Technical Features

- 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.
- Pressure at port 3 may oppose the opening of the valve. Because of this, port 3 may not be useable as a work port in your circuit. If this is a consideration, the 4 port version of this valve may be a solution.
- There must be a pressure source at port 1, relative to port 3, 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.

**Technical Data**

|                                           | U.S. Units                       | Metric Units       |
|-------------------------------------------|----------------------------------|--------------------|
| Cavity                                    | T-11A                            |                    |
| Capacity                                  | 7 gpm                            | 28 L/min.          |
| Control Pilot Flow                        | 7 - 10 in <sup>3</sup> /min.     | 0,11 - 0,16 L/min. |
| Maximum Operating Pressure                | 5000 psi                         | 350 bar            |
| Maximum Valve Leakage at 110 SUS (24 cSt) | 2 in <sup>3</sup> /min.@1000 psi | 30 cc/min.@70 bar  |
| Pilot Control Cavity                      | T-8A                             |                    |
| Series (from Cavity)                      | Series 1                         |                    |
| Valve Hex Size                            | 7/8 in.                          | 22,2 mm            |
| Valve Installation Torque                 | 30 - 35 lbf ft                   | 40 - 50 Nm         |
| Seal Kits - Cartridge                     | Buna: 990-011-007                |                    |
| Seal Kits - Cartridge                     | Viton: 990-011-006               |                    |
| Model Weight                              | 0.21 lb.                         | 0.10 kg.           |

**DVBB-8FN****Control****Standard Options****8** T-8A Cavity**Minimum Control Pressure****Standard Options****F** 100 psi (7 bar)**Seal Material****Standard Options**

**N** Buna-N  
**V** Viton

