

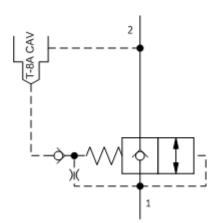


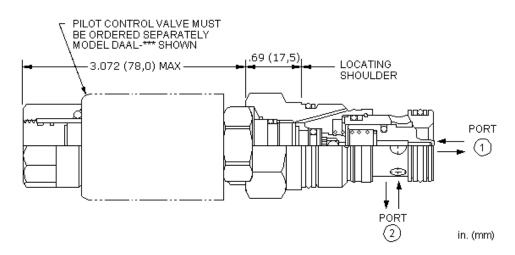
2-way, poppet directional valve with integral T-8A control cavity - control 1-2

CAPACITY: 30 gpm / CAVITY: T-5A



sunhydraulics.com/model/DFDA8





This valve is a 2-position, 2-way poppet cartridge that incorporates an integral pilot control cavity. It controls flow from port 1 to port 2, exhibits extremely low leakage rates and will accept 5000 psi (350 bar) at both ports. Installing a pilot solenoid cartridge in the T-8A cavity results in a high-flow directional valve. Other pilot options include manual, hydraulic and pneumatic pilot cartridges.

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

| Cavity                                    | T-5A                   |
|-------------------------------------------|------------------------|
| Series                                    | 2                      |
| Capacity                                  | 30 gpm                 |
| Maximum Operating Pressure                | 5000 psi               |
| Check Cracking Pressure                   | 50 psi                 |
| Maximum Valve Leakage at 110 SUS (24 cSt) | 10 drops/min.@5000 psi |
| Pilot Control Cavity                      | T-8A                   |
| Pilot Control Valve Installation Torque   | 20 - 25 lbf ft         |
| Response Time - Typical                   | see pilot control ms   |
| Valve Hex Size                            | 1 1/8 in.              |
| Valve Installation Torque                 | 45 - 50 lbf ft         |
| Model Weight                              | 0.33 lb.               |
| Seal kit - Cartridge                      | Buna: 990-203-007      |
| Seal kit - Cartridge                      | Viton: 990-203-006     |

**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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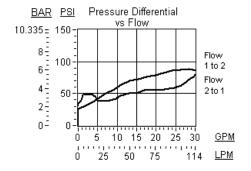
## **OPTION SELECTION EXAMPLE: DFDA8DN**



## **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.
- 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.
- 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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