



This is a 2 way, 2 stage, solenoid operated poppet valve with a reverse free flow check. The valve exhibits low leakage when closed and is available in either normally open or normally closed configuration, with or without a manual override. When open, the flow direction is from Port 1 to Port 2. When closed, a reverse free-flow check allows flow from Port 2 to Port 1. In the open position, flow from Port 2 to Port 1 is restricted to pilot flow only.

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

Cavity	SC-08-02
Series	0C
Capacity	10 gpm
Maximum Operating Pressure	5000 psi
Maximum Valve Leakage at 110 SUS (24 cSt)	15 drops/min.
Response Time - Typical	100 ms
Solenoid Tube Diameter	.51 in.
Coil Nut Torque	3.5 - 3.9 lbf ft
Valve Hex Size	7/8 in.
Valve Installation Torque	19 - 22 lbf ft
Model Weight	0.34 lb.

OPTION SELECTION EXAMPLE: DFTAXCN

CONTROL	(X) POPPET CONFIGURATION	(C) SEAL MATERIAL	(N) COIL
X No Manual Override	C Normally Closed	N Buna-N	No coil
L Manual Override - Adjustable	H Normally Open		212 DIN 43650-Form A, 12 VDC 224 DIN 43650-Form A, 24 VDC

TECHNICAL FEATURES

- The solenoid tube assembly is fatigue rated for 5000 psi (350 bar) service.
- All ports are rated to a maximum operating pressure of 5000 psi (350 bar).
- The check function offers very low leakage rates.
- The cartridge installation torque of 22 lbf ft (30 Nm) should be respected for best performance.
- The valve is available with a manual push-type, with detent, override option (L control) on the normally open configuration. This option is also fatigue rated for 5000 psi (350 bar).
- The valve is available with a manual unscrew-type override option (L control) on the normally closed configuration. This option is also fatigue rated for 5000 psi (350 bar).
- The metal coil nut is a functional feature of the valve and should be correctly installed for proper performance of the valve.
- Coil connector options offer ratings up to IP67. See individual coil product pages for details.
- Coils can be mounted on the tube in either direction.

PERFORMANCE CURVES

