



This solenoid-operated, 2-way, 2-position cartridge is a pilot-operated, directional poppet valve. This valve offers 2-position/2-way directional control with a lower pressure drop than its direct-acting counterpart. The valve is available in the normally open and normally closed condition.

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

Cavity	SC-10-02
Series	1C
Capacity	16 gpm
Maximum Operating Pressure	5000 psi
Typical Valve Leakage at 110 SUS (24cSt)	15 drops/min.@1600 psi
Response Time - Typical	300 ms
Solenoid Tube Diameter	.75 in.
Coil Nut Torque	3.5 - 3.9 lbf ft
Valve Hex Size	1.00 in.
Valve Installation Torque	29 - 31 lbf ft
Model Weight	0.62 lb.
Seal kit - Cartridge	Buna: 99C-102-007
Seal kit - Cartridge	Viton: 99C-102-006

OPTION SELECTION EXAMPLE: DGUAXCN

CONTROL	(X) SPOOL CONFIGURATION	(C) SEAL MATERIAL	(N) COIL
X No Manual Override	C Normally Closed	N Buna-N	No coil
L Manual Override (Push with Detent)	H Normally Open		

TECHNICAL FEATURES

- This valve is not suitable for load-holding. Up to 9 in³/min (147 mL/min) of leakage is allowed when below a pressure differential of 1600 psi (110 bar) between its ports.
- 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 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 valve is available with a manual push-type, with detent, override option (L control). 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.
- The cartridge installation torque of 30 lbf ft (40 Nm) is required for best performance.
- Coils can be mounted on the tube in either direction.

PERFORMANCE CURVES

