



This solenoid-operated 3-way, 2-position cartridge is a direct-acting, balanced spool directional valve. This valve is designed to be used with the 780 Series coils.

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

Cavity	SC-10-03
Series	1C
Capacity	7 gpm
Maximum Operating Pressure	1600 psi
Typical Valve Leakage at 110 SUS (24cSt)	1.1 in ³ /min.@1600 psi
Response Time - Typical	50 ms
Switching Frequency	15,000 max. cycles/hr
Solenoid Tube Diameter	.50 in.
Coil Nut Torque	3.5 - 3.9 lbf ft
Valve Hex Size	25 mm
Valve Installation Torque	24 - 28 lbf ft
Model Weight	0.24 lb.

OPTION SELECTION EXAMPLE: DMUQXHN

CONTROL	(X) SPOOL CONFIGURATION	(H) SEAL MATERIAL	(N) COIL
X -	H Normally Open 1 to 2, Closed 1 to 3	N Buna-N	No coil

TECHNICAL FEATURES

- This valve is direct actuated and requires no minimum hydraulic pressure for operation.
- Coil connector options offer ratings up to IP69K. See individual coil product pages for details.
- The metal coil nut is a functional feature of the valve and should be correctly installed for proper performance of the valve.
- All ports are rated to a maximum operating pressure of 1600 psi (110 bar).
- The solenoid tube assembly is fatigue rated to 1600 psi (110 bar) service.
- The cartridge installation torque of 26 lbf ft (35 Nm) should be respected for best performance.
- This valve utilizes a wet armature design. This means that the working fluid surrounds the armature and is exposed to the heat generated by the coil. This can be a factor if the coil is energized for long periods of time. Some fluids, notably water/glycol mixtures, break down at these temperatures over time and form varnishes that will affect the function of the cartridge.
- Coils can be mounted on the tube in either direction.

PERFORMANCE CURVES

