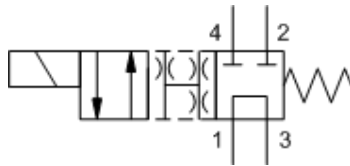
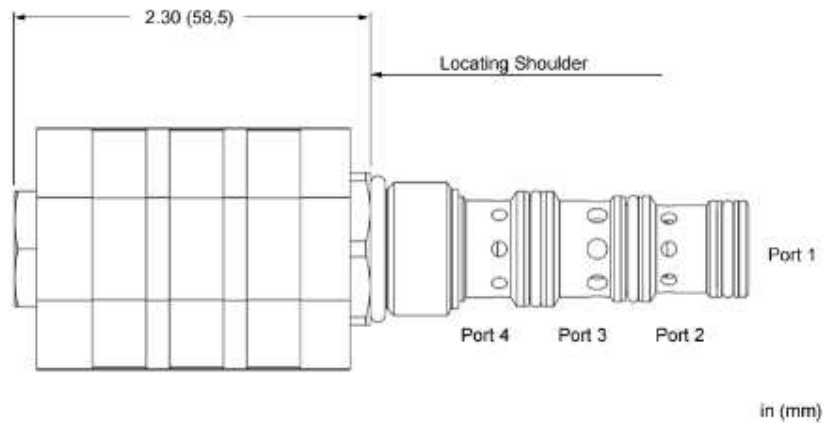


X-Control, N-Spool



X-Control, T-Spool



This solenoid-operated 4-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-10-04
Series	1C
Capacity	30 L/min.
Maximum Operating Pressure	210 bar
Typical Valve Leakage at 110 SUS (24cSt)	30 cc/min. @210 bar
Response Time - Typical	50 ms
Switching Frequency	15,000 max. cycles/hr
Solenoid Tube Diameter	12,7 mm
Valve Hex Size	25 mm
Coil Nut Torque	4,8 - 5,3 Nm
Valve Installation Torque	32,5 - 37,9 Nm
Model Weight	0.11 kg.

CONFIGURATION OPTIONS

Model Code Example: DNUTXNN

CONTROL	(X) SPOOL CONFIGURATION	(N) SEAL MATERIAL	(N) COIL *
X -	N Through, Shift to Cross	N Buna-N	No coil

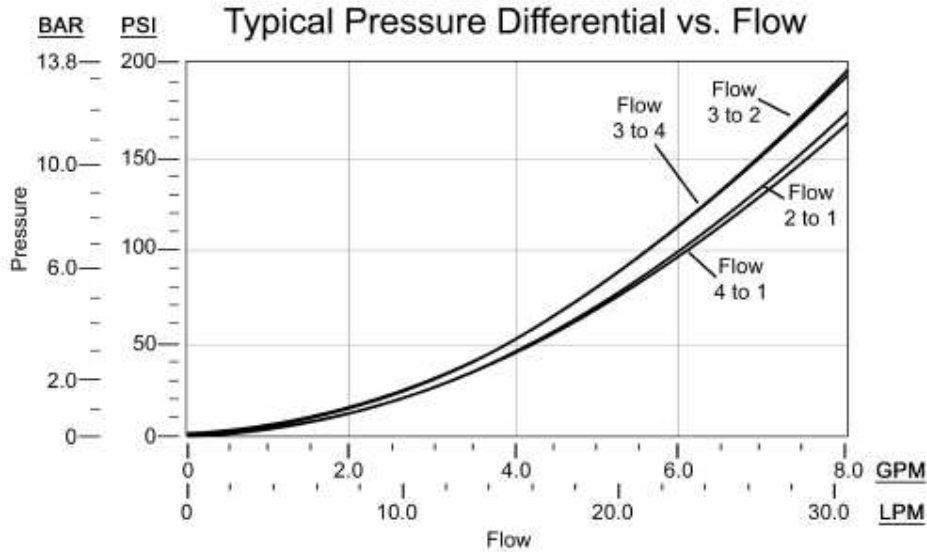
* Additional coil options are available

TECHNICAL FEATURES

- The solenoid tube assembly is fatigue rated for 3000 psi (210 bar) service.
- This valve is direct actuated and requires no minimum hydraulic pressure for operation.
- All ports are rated to a maximum operating pressure of 3000 psi (210 bar).
- This valve features zinc plating on exposed surfaces.
- Coil connector options offer ratings up to IP69K. See individual coil product pages for details.
- The cartridge installation torque of 26 lbf ft (35 Nm) should be respected for best performance.
- The metal coil nut is a functional feature of the valve and should be correctly installed for proper performance of the valve.
- 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.

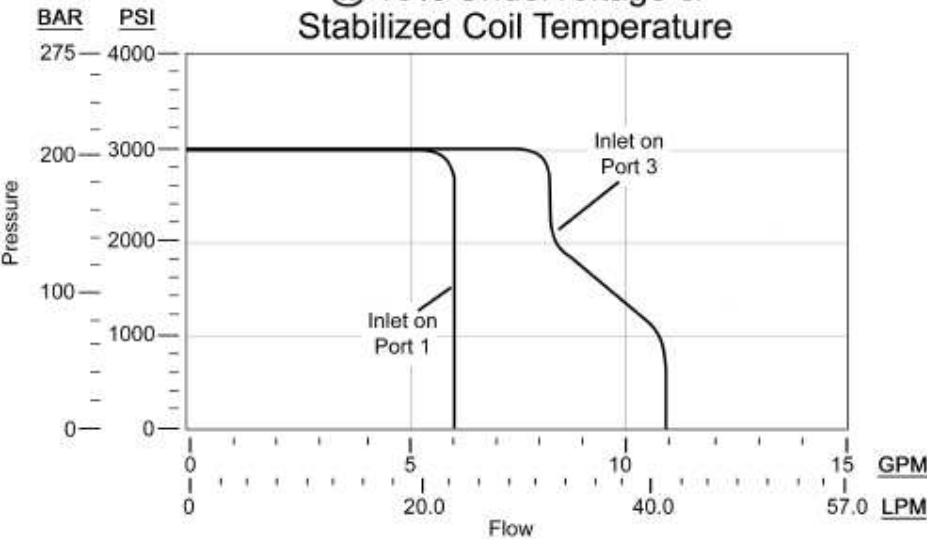
PERFORMANCE CURVES

DNUT



DNUT

Performance Limits
@ 10% Undervoltage &
Stabilized Coil Temperature



Note: Performance limits are derived with 4-way operation and symmetrical flow.
For valve applications where either asymmetrical flow or 3-way operation is present,
these performance limits may be reduced.