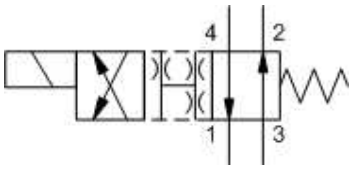
MODEL
DNUT

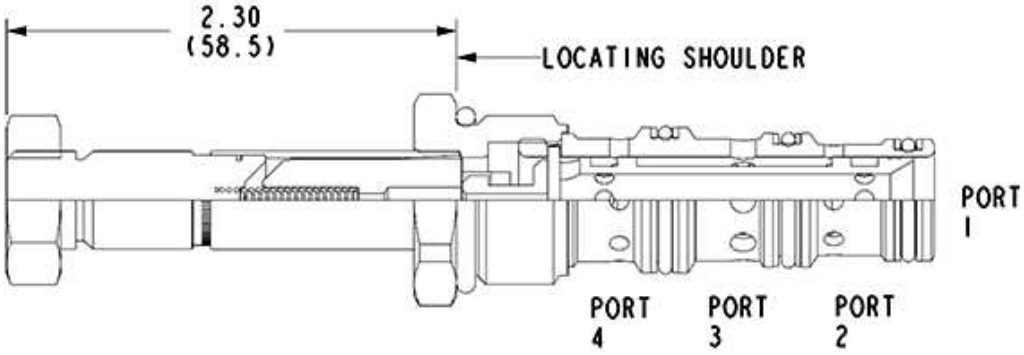
4-way, direct-acting, balanced piston solenoid-operated directional valve, 3000 psi (210 bar) - common cavity

SERIES 1C / CAPACITY: 8 gpm / CAVITY: SC-10-04

sunhydraulics.com/model/DNUT



X-Control, N-Spool



CONFIGURATION

X	Control	-
N	Spool Configuration	Through, Shift to Cross
N	Seal Material	Buna-N
(none)	Coil	No coil

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	8 gpm
Maximum Operating Pressure	3000 psi
Typical Valve Leakage at 110 SUS (24cSt)	2 in³/min.@3000 psi
Response Time - Typical	50 ms
Switching Frequency	15,000 max. cycles/hr
Solenoid Tube Diameter	.50 in.
Valve Hex Size	25 mm
Coil Nut Torque	3.5 - 3.9 lbf ft
Valve Installation Torque	24 - 28 lbf ft
Model Weight	0.24 lb.

CONFIGURATION OPTIONS

Model Code Example: DNUTArray

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

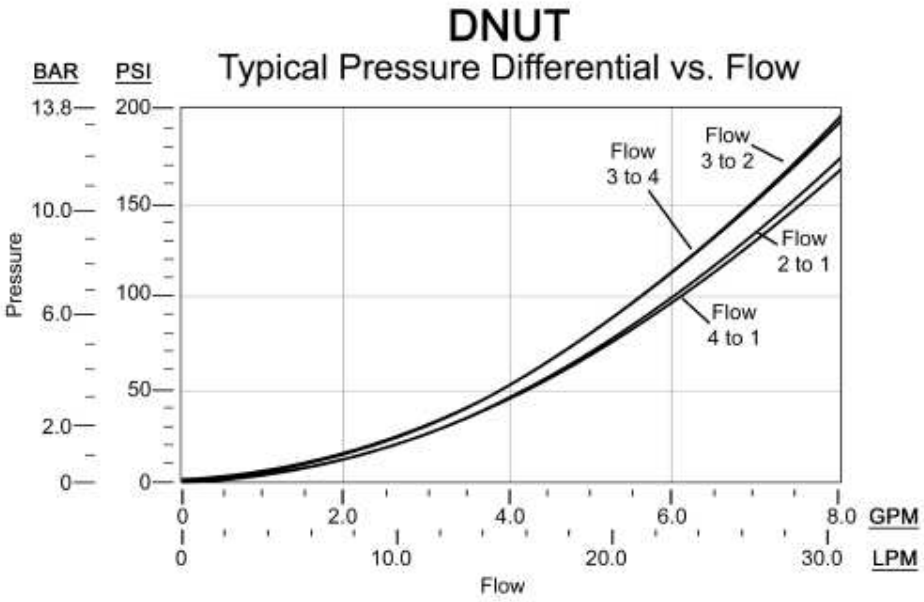
* Additional coil options are available

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TECHNICAL FEATURES

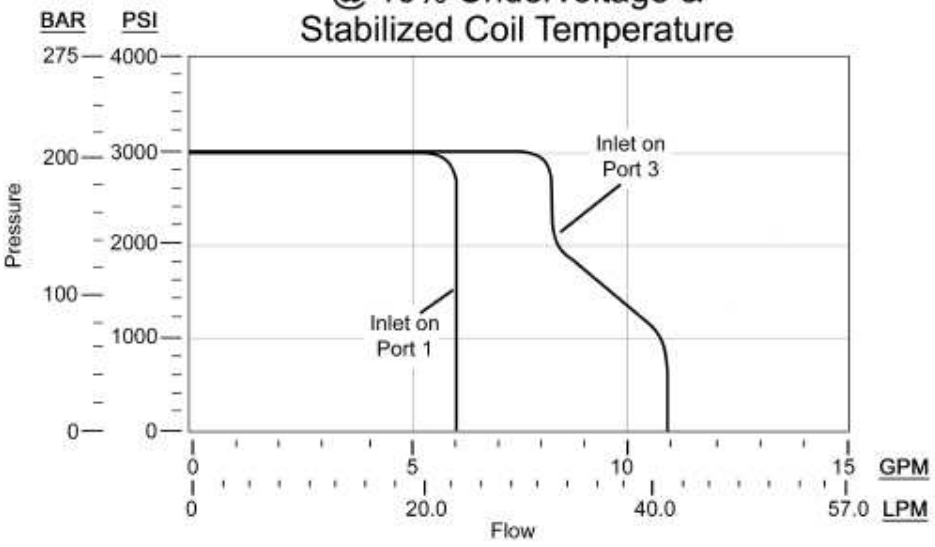
- The solenoid tube assembly is fatigue rated for 3000 psi (210 bar) service.
- This valve is direct actuated and requires no minimum hydraulic pressure for operation.
- All ports are rated to a maximum operating pressure of 3000 psi (210 bar).
- This valve features zinc plating on exposed surfaces.
- 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

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.

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