

New Product Announcement!

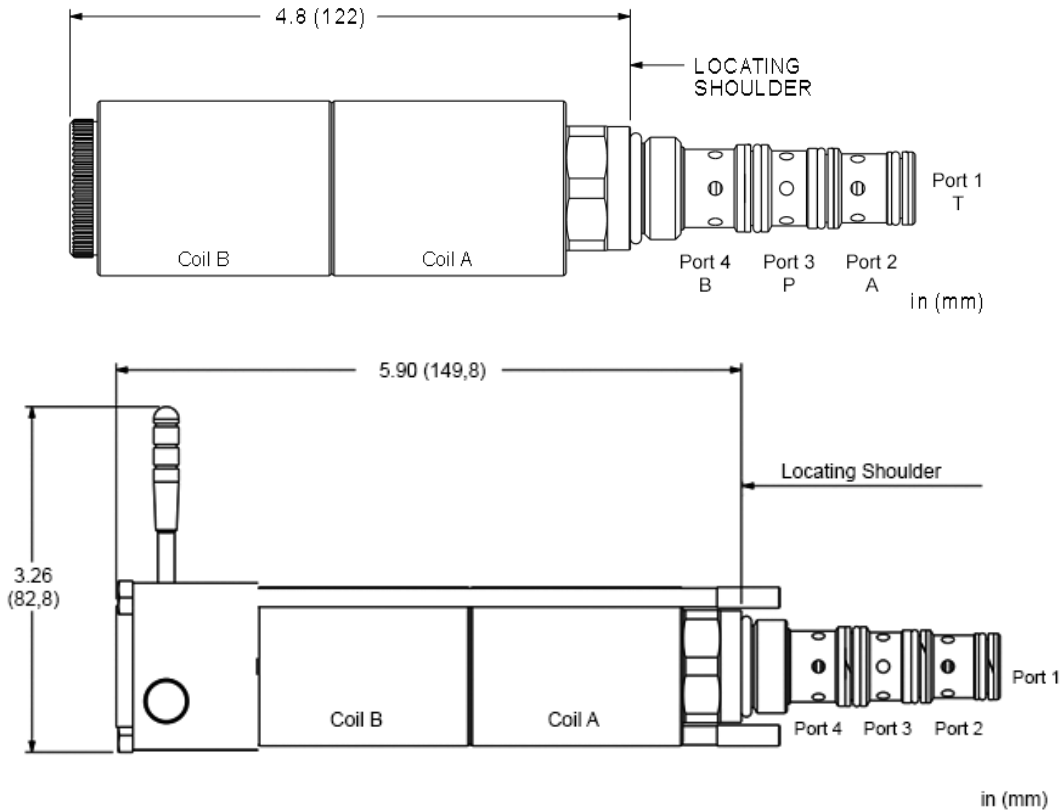


Direct-acting, Solenoid-operated, 4-way, 3-position Spool Valve (Sun Common)

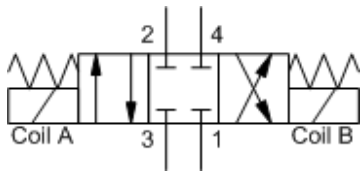
Model: DNUC

For detailed specifications visit www.sunhydraulics.com

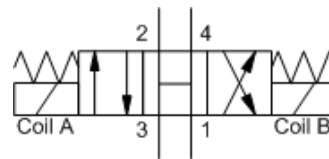
Cartridge Dimensional Drawing



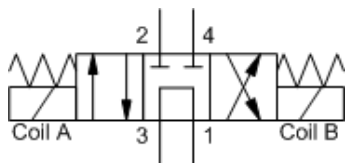
Functional Symbols



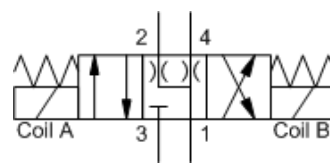
C-spool: Closed Center



H-spool: Open Center



T-spool: Tandem Center



W-spool: A and B Bleed to T Center



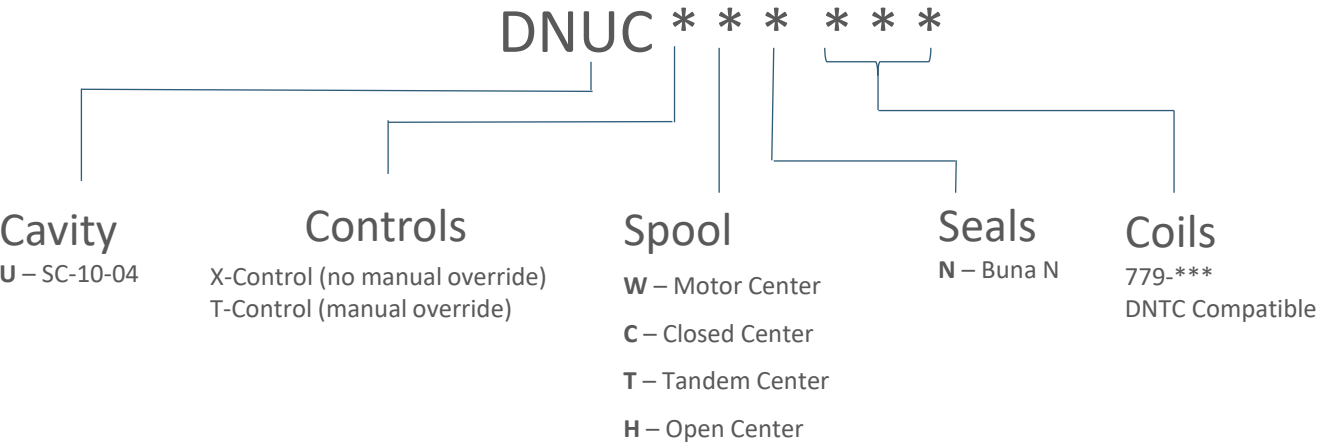
Product Description

This direct acting, solenoid-operated, 4-way, 3-position spool valve is spring centered to the neutral position. When coil A is energized, the flow is from port 3 (P) to port 2 (B) and from port 4 (A) to port 1 (T). When coil B is energized, the flow is from port 3 to port 4 and from port 2 to port 1.

Technical Data

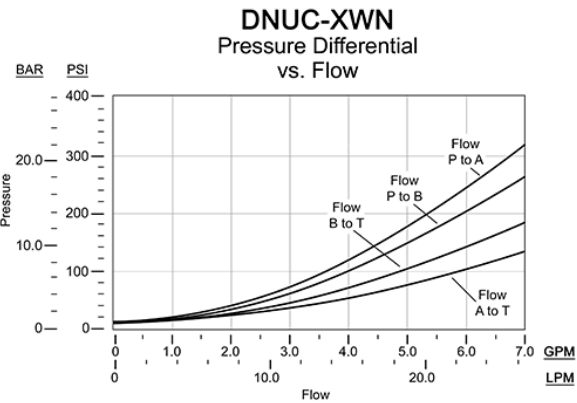
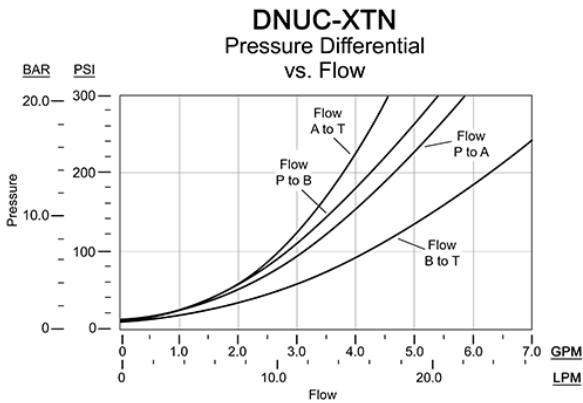
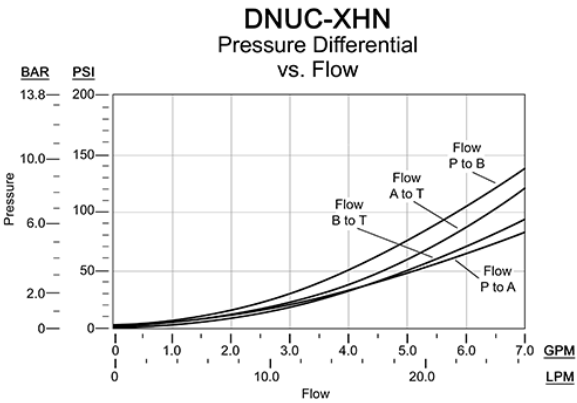
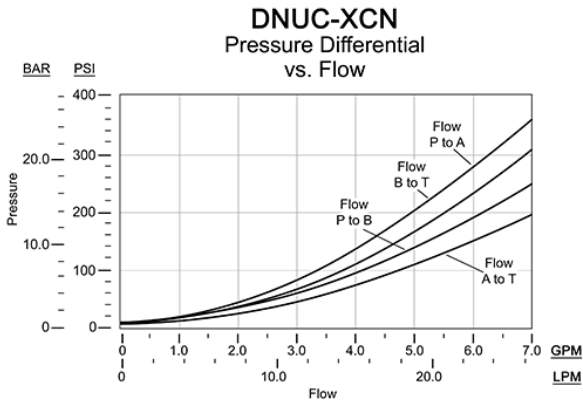
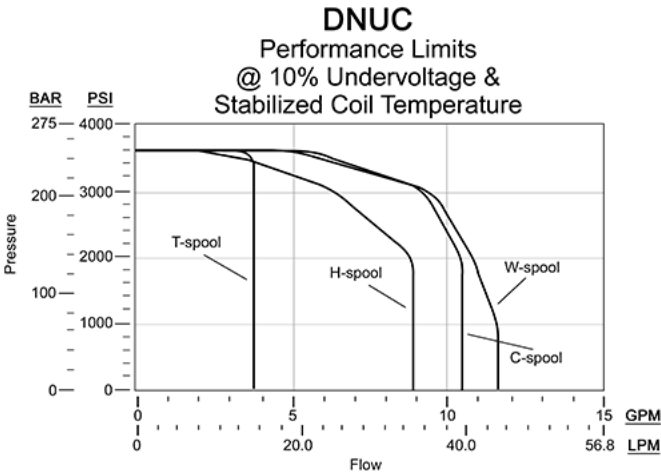
Cavity	SC-10-04	
Series	Series 1C	
Maximum Flow Rate/Capacity	7 gpm	28 L/min
Maximum Operating Pressure	3600 psi	250 bar
Response Time – Typical	50 ms	
Switching Frequency	15,000 max. cycles/hr	
Solenoid Tube Diameter	0.75 in.	19 mm
Valve Hex Size	1.06 in.	27 mm
Valve Installation Torque	28-32 lbf ft	38 – 43 Nm,
Model Weight	0.84 lb.	0.38 kg

Model Code Options





Cartridge Performance





Coil Options

Voltage	Sun Model Code	Resistance 20°C (OHMS) ±10%	With Diode
12 VDC	779-212	6.8	No
24 VDC	779-224	24	No
12 VDC	779-912D	6.8	Yes
24 VDC	779-924D	24	Yes

Coil Performance Data

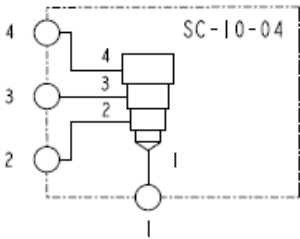
Temp	-4 – 215 F
Power Consumption (cold) – at rated voltage	24W
Weight	0.35 lb (0.16 kg)
Duty Cycle	100%
TVS Diode	Included in Deutsch DT04-2P Version
Operating Voltage Range	+/- 10%
Maximum Ambient Temperature	104 F

100% duty cycle DC coils available in both DIN and Deutsch connectors. 769 series coils control 13mm solenoid tubes on DNTC products. 779 series coils control 19mm DNUC products.

Deutsch coils contain a diode. DIN coils do not have a diode.

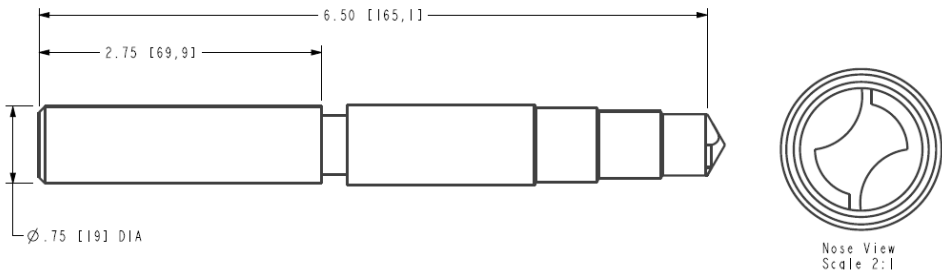


Manifold Options



Model Code	Ports
JPA	.250-18 NPTF
JPB	.375-18 NPTF
JPC	.500-19 BSPP
JPD	.750-19 BSPP
JPH	SAE-4
JPI	SAE-6
JPJ	SAE-8
JKP	SAE-10
JPT	.250-19 BSPP
JPU	.375-19 BSPP
JPV	.500-19 BSPP
JPW	.750-19 BSPP

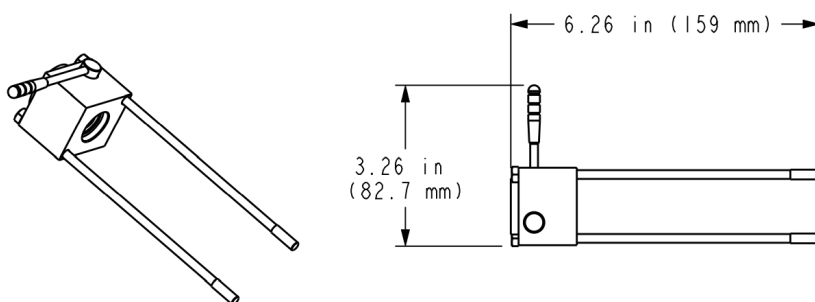
Cavity Tooling



Dimension are for Reference only. in (mm)

Tool	Description
996104001	SC-10-04 Form Drill Morse Taper
996104002	SC-10-04 Form Drill Straight Shank
997104001	SC-10-04 Form Reamer Morse Taper
997104002	SC-10-04 Form Reamer Straight Shank

T-Control Kit: 991-291



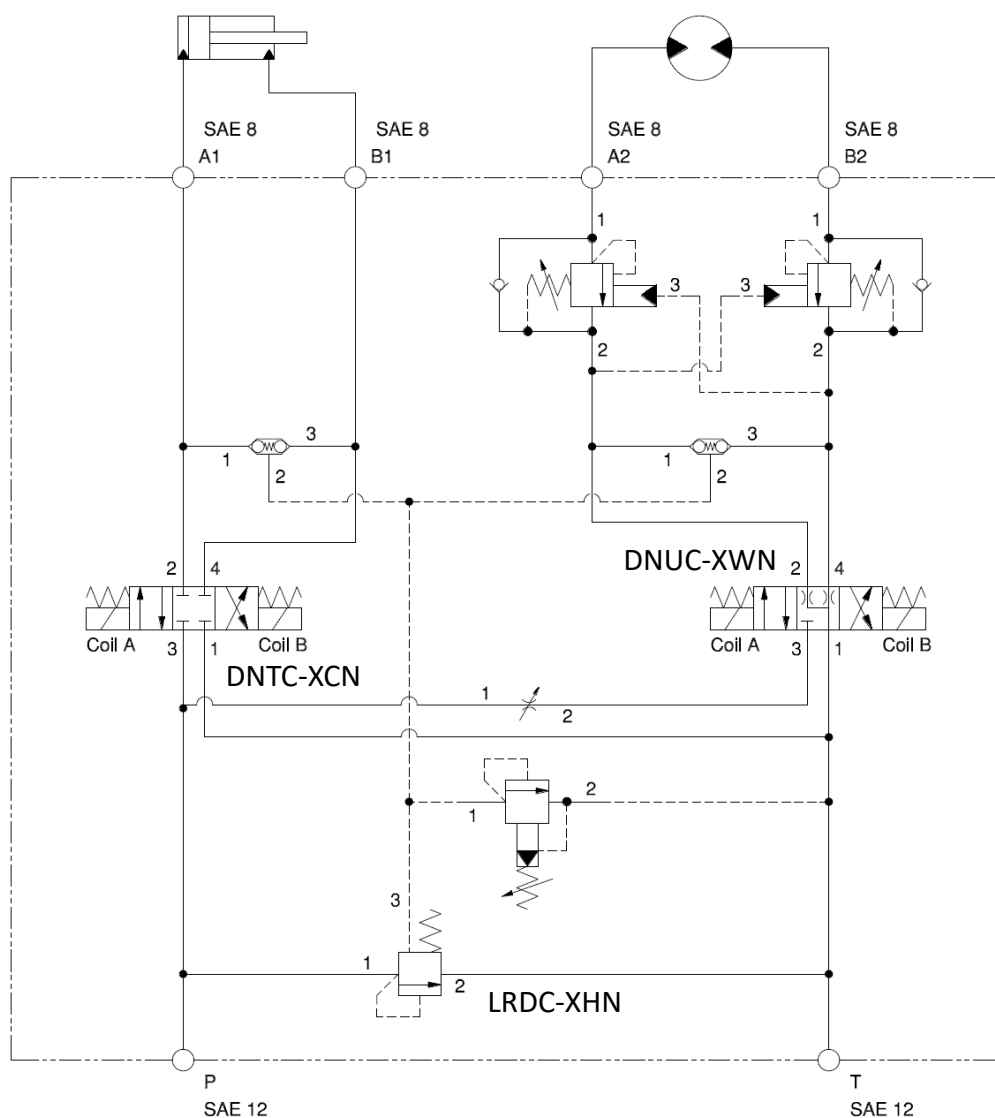
Technical Features

This is a momentary bi-directional, hand-actuated device for use on Sun's common cavity 3-position, 4-way directional valves.

- Momentary lever actuation allows the operator to temporarily shift the valve by rotating the lever in either direction. See the specific valve product page for details on override position corresponding to the direction of rotation.
- Included in the kit are two mounting bolts that fasten the lever mechanism onto the valve via mounting holes on the manifold. Refer to the product page of any sun manifold configured with an SC-10-04 cavity for full details on the mounting holes (i.e., JPA).
- Made of zinc-plated steel.

Technical Data

Material	Zinc Plated Steel	
Description	Momentary Operation (T control)	
Mounting Bolts Installation Torque (T control)	4.2-4.6 lbf ft.	5,7- 6,2 Nm
Model Weight	0.12 lb	0,5 kg.



This hydraulic circuit allows the multifunction control of a hydraulic cylinder and hydraulic motor. The closed center spool on the DNTC-XCN will stop cylinder motion when the coils are de-energized. The motor center spool on the DNUC-XWN will allow the motor to float freely when the coils are de-energized.

The LRDC-XHN cartridge in combination with a pilot operated relief valve will provide relief protection and automatic unloading of the fixed displacement pump when the coils are de-energized.



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