



This solenoid-operated 3-way, 2-position cartridge is a direct-acting, poppet-style directional valve. The valve is normally open between port 1 and port 2 with port 3 blocked. Energizing the valve connects port 2 to 3 and blocks port 1. All flow paths are bidirectional and blocked paths are blocked in both directions. Due to the poppet style construction, this valve has extremely low leakage.

CONFIGURATION

T	Control	Twist (Momentary) Manual Override
A	Poppet Configuration	Normally Open 1 to 2, Closed 2 to 3
N	Seal Material	Buna-N
(none)	Coil	No coil

TECHNICAL DATA

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

Maximum Operating Pressure	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	0,7 cc/min. @350 bar
Manual Override Force Requirement	33 N/100 bar @ Port 1
Manual Override Stroke	2,5 mm
Response Time - Typical	50 ms
Switching Frequency	15,000 max. cycles/hr
Seal kit - Cartridge	Buna: 990411007
Seal kit - Cartridge	Viton: 990411006

NOTES

- Please verify cartridge clearance requirements when choosing a Sun manifold. Different valve controls and coils require different clearances.
- An additional 2.00 inches (50,8 mm) beyond the valve extension is needed for coil installation and removal.

CONFIGURATION OPTIONS

Model Code Example: DWDATAN

CONTROL	(T) POPPET CONFIGURATION	(A) SEAL MATERIAL	(N) COIL *
T Twist (Momentary) Manual Override	A Normally Open 1 to 2, Closed 2 to 3	N Buna-N	No coil
M Manual Override (Standard)		E EPDM	212 DIN 43650-Form A, 12 VDC
X No Manual Override		V Viton	224 DIN 43650-Form A, 24 VDC
D Twist/Lock (Dual) Manual Override			912 Deutsch DT04-2P, 12 VDC
L Twist/Lock (Detent) Manual Override			924 Deutsch DT04-2P, 24 VDC

* Additional coil options are available