

CONFIGURATION

M	Control	Manual Override
A	Flow Rate	.1 - 1.6 gpm (0,4 - 6.1 L/min.)
N	Seal Material	Buna-N
224NX02	Coil	DIN 43650-Form A, 24 VDC, no transient voltage suppression (TVS) diodes, with XMD-02 driver

This valve is a 3-way, meter-in, electro-proportional throttle. The flow path, unenergized, has the supply blocked at port 1 and port 2 connected to tank at port 3. Energizing the coil generates a closing force on the spool, creating a metering orifice in the 1 to 2 direction that is proportional to the coil command current. The valve self-compensates in the 1 to 2 direction and with the addition of an external compensator will provide pressure compensated flow control. Flow in the 2 to 3 direction is not proportional.

TECHNICAL DATA

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

Maximum Valve Leakage at 110 SUS (24 cSt)	30 cc/min.@70 bar
Manual Override Force Requirement	33 N/100 bar @ Port 1
Manual Override Stroke	2,5 mm
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.

CONFIGURATION OPTIONS

Model Code Example: FMDBMAN224NX02

CONTROL	(M) FLOW RATE	(A) SEAL MATERIAL	(N) COIL * (224NX02)
M Manual Override	A .1 - 1.6 gpm (0,4 - 6.1 L/min.)	N Buna-N	224NX02 DIN 43650-Form A, 24 VDC, no transient voltage suppression (TVS) diodes, with XMD-02 driver
D Twist/Lock (Dual) Manual Override	B .1 - 4 gpm (0,4 - 15 L/min.)	V Viton	No coil
E Twist (Extended) Manual Override	C .1 - 6 gpm (0,4 - 23 L/min.)		212 DIN 43650-Form A, 12 VDC
L Twist/Lock (Detent) Manual Override			224 DIN 43650-Form A, 24 VDC
T Twist (Momentary) Manual Override			224NX01 DIN 43650-Form A, 24 VDC, no transient voltage suppression (TVS) diodes, with XMD-01 driver
X No Manual Override			912 Deutsch DT04-2P, 12 VDC
			912NX01 Deutsch DT04-2P, 12 VDC, no transient voltage suppression (TVS) diodes, with XMD-01 driver
			912NX02 Deutsch DT04-2P, 12 VDC, no transient voltage suppression (TVS)

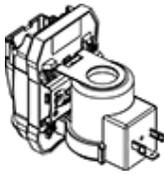
diodes, with XMD-02
driver

924 Deutsch DT04-2P, 24 VDC

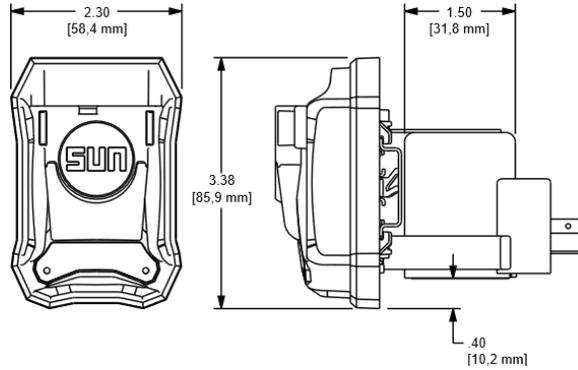
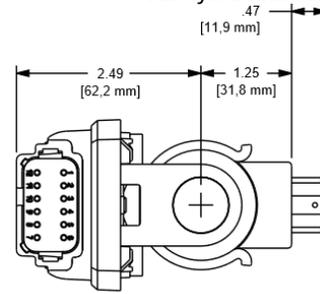
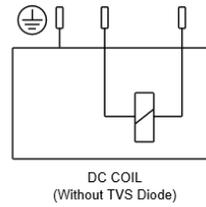
924NX01 Deutsch DT04-2P, 24
VDC, no transient voltage
suppression (TVS)
diodes, with XMD-01
driver

924NX02 Deutsch DT04-2P, 24
VDC, no transient voltage
suppression (TVS)
diodes, with XMD-02
driver

* Additional coil options are available



CONFIGURATION



TECHNICAL DATA

Maximum Coil Temperature at 68°F (20°C) Ambient	218°F (105°C)
Arc Suppression (TVS)	None
Power Consumption (cold) - at rated voltage	22 watts
Maximum Ambient Temperature	50 °C
Voltage/Frequency	24 VDC
Operating Voltage Range	+/- 10% nominal
Duty Cycle Rating	100 %
Connector	ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin
Connector Environment Rating	IP65/IP67
Coil Nut Torque	0,5 Nm

USED WITH

- FMDA FMDB FPCC FPCH FPFK FPHK PRDL PRDM PRDN PRDP
 PSDL PSDP RBAN RBAP