

New Product Announcement!

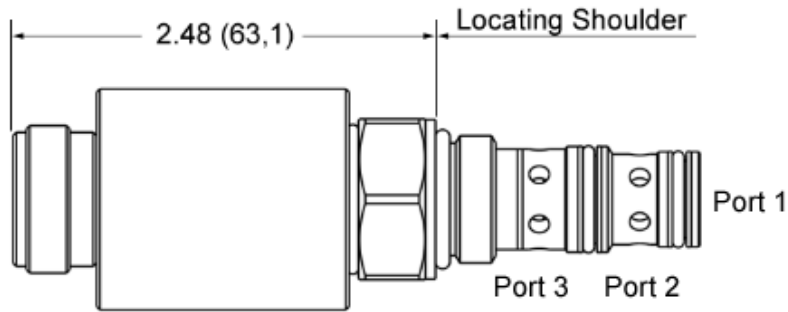


3-way, 2-position
Direct-acting
Balanced spool
Solenoid-operated
Directional valve
3600 psi (250 bar)
Sun Common

Model: DMTA

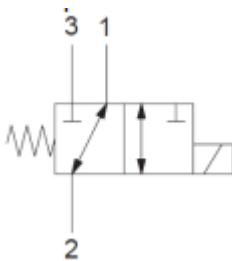
For detailed specifications visit www.sunhydraulics.com

Cartridge Dimensional Drawing

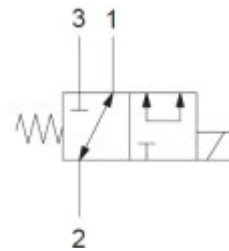


in (mm)

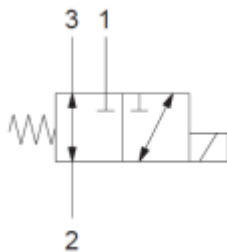
Functional symbol



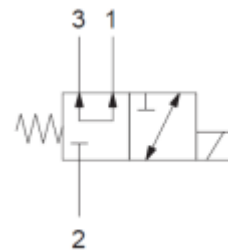
A – Normally 1 to 2, Shift to 2 to 3



H – Normally 1 to 2, Shift to 1 to 3



N – Normally 2 to 3, Shift to 1 to 2



P – Normally 1 to 3, Shift to 1 to 2



Technical Data

This solenoid-operated, 3-way, 2-position cartridge is a direct-acting, balanced spool directional valve.

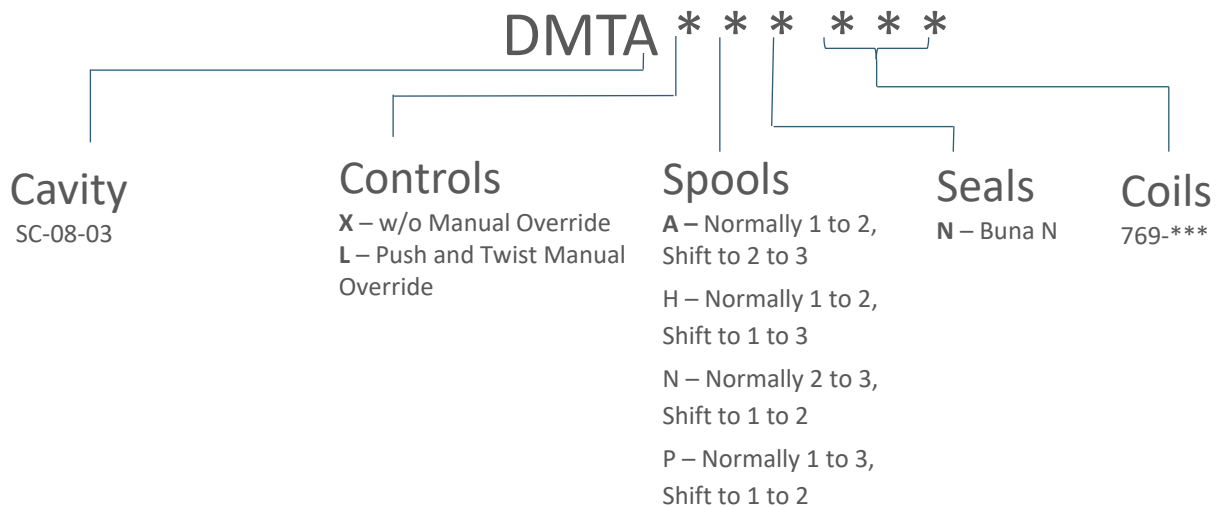
- Flow capacity may vary per spool type and inlet port. Refer to the performance limits for more information.
- The solenoid tube assembly is fatigue rated for 3600 psi (250 bar).
- The valve is available with a manual push-type, with detent, override option (L control). This option is also fatigue rated for 3600 psi (250 bar).
- All ports rated to max operating pressure of 3600 PSI.
- This valve is direct-actuated and requires no minimum hydraulic pressure for operation.
- Coil connector options offer ratings up to IP67. See individual coil product pages for details.
- Coils can be mounted on the tube in either direction.
- The cartridge installation torque of 22 lbf-ft (30 Nm) is required for best performance.
- Proper installation of the metal coil nut is important for best performance.



Technical Data

Cavity	SC-08-03	
Series	Series 0C	
Maximum Flow Rate/Capacity	4 gpm	15 L/min
Maximum Operating Pressure	3600 psi	250 bar
Typical Valve Leakage at 110 SUS (24cSt)	4.9 in ³ /min (80 mL/min) @ 3600 psi (250 bar)	
Response Time - Typical	50 ms	
Solenoid Tube Diameter	.51 in.	13 mm
Valve Hex Size	24 mm	
Valve Installation Torque	21 – 23 lbf ft	28 - 31Nm
Model Weight (without coil)	0.42 lb.	0,19 Kg

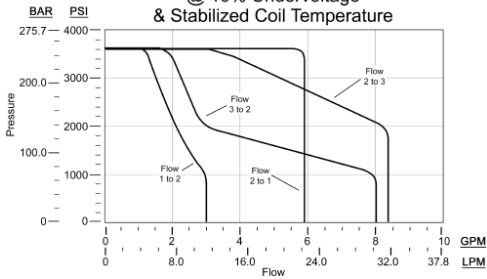
Model Code Options



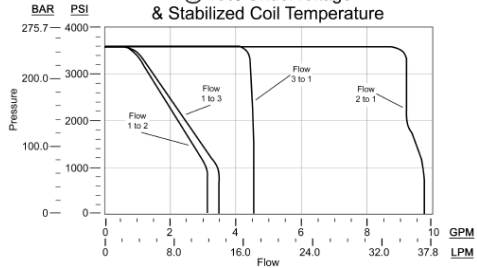


Performance Curves

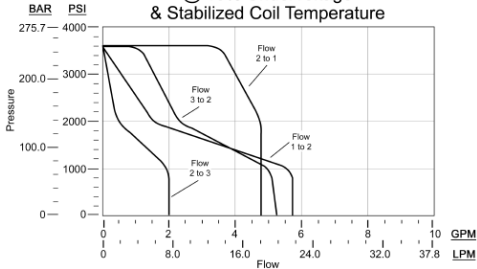
DMTA-A*
Valve Performance Limits
@ 10% Undervoltage
& Stabilized Coil Temperature



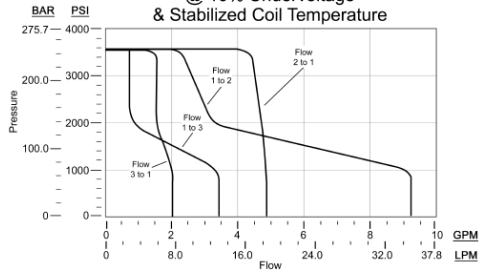
DMTA-H*
Valve Performance Limits
@ 10% Undervoltage
& Stabilized Coil Temperature



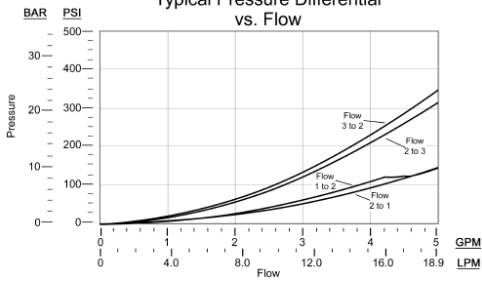
DMTA-N*
Valve Performance Limits
@ 10% Undervoltage
& Stabilized Coil Temperature



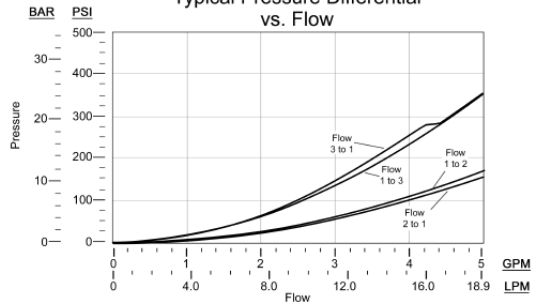
DMTA-P*
Valve Performance Limits
@ 10% Undervoltage
& Stabilized Coil Temperature



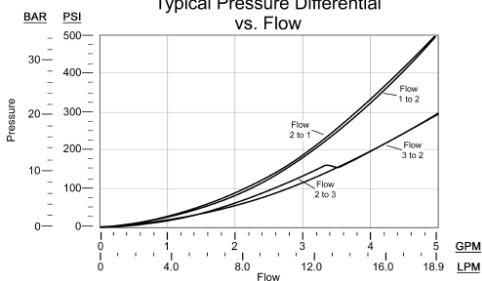
DMTA-A*
Typical Pressure Differential
vs. Flow



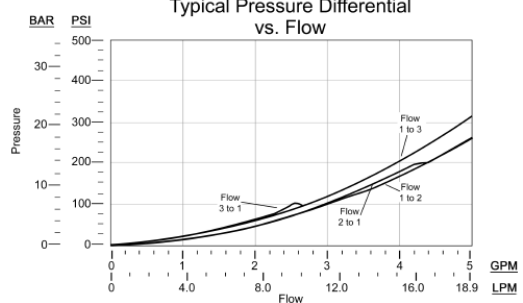
DMTA-H*
Typical Pressure Differential
vs. Flow



DMTA-N*
Typical Pressure Differential
vs. Flow



DMTA-P*
Typical Pressure Differential
vs. Flow





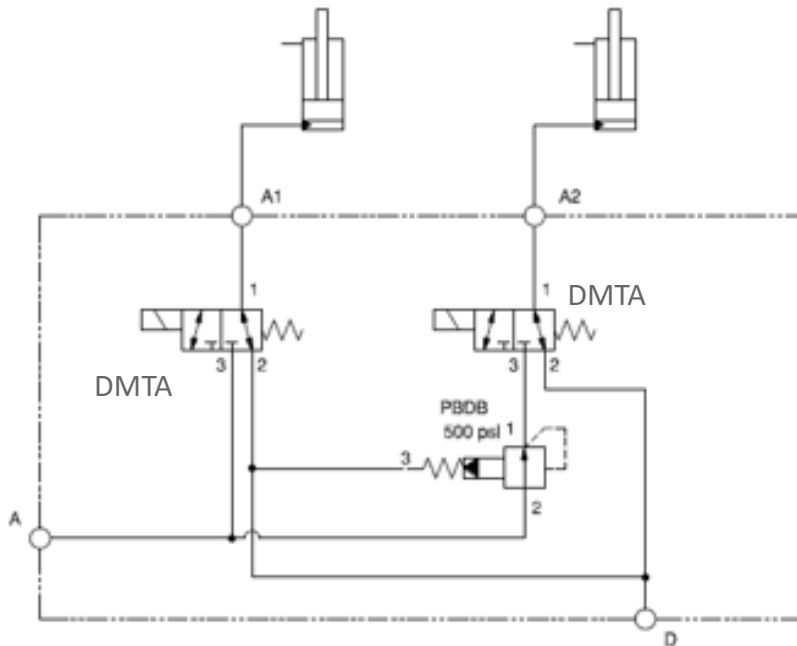
Coil Options

Voltage	Sun Model Code	Resistance 20°C (OHMS) ±10%	With Diode
12 VDC	769-212	7	No
24 VDC	769-224	28	No
12 VDC	769-912D	7	Yes
24 VDC	769-924D	28	Yes

Coil Performance Data

Temp	-4 – 215 F
Power Consumption (cold) – at rated voltage	20.5W
Weight	0.62 lb (0.28 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.
Deutsch coils contain a diode. DIN coils do not have a diode.



The DMTA is an excellent pilot control valves. It can be used to pilot small actuators or to pilot larger valves. In this mining truck application, the DMTA is used to pilot a high pressure lift cylinder at 3000 psi. The DMTA can also be used to opens the water nozzle for spraying the mine site for dust suppression.



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