

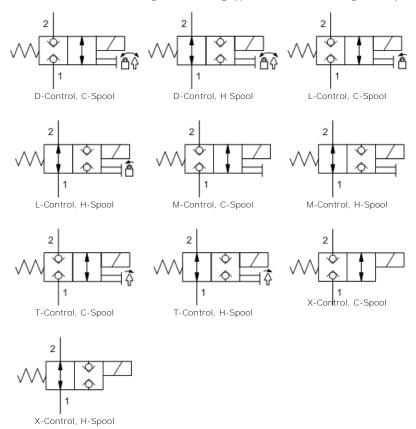
2-way, direct-acting, solenoid-operated directional poppet valve

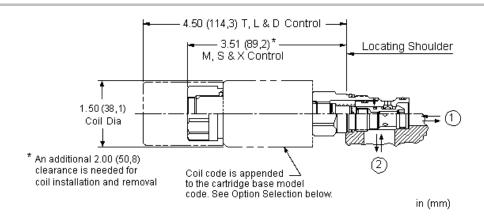
Capacity: 10 gpm (40 L/min.)

Model: DTDA

Product Description

This solenoid-operated 2-way, 2-position cartridge is a direct-acting, poppet-style directional valve. The valve is available in either a normally open or normally closed configuration and is well suited for load holding or load blocking applications where low leakage is a requirement.

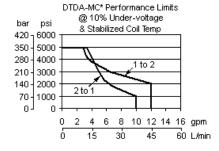


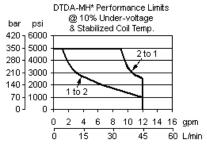


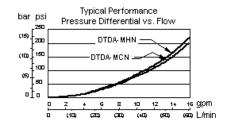
- The solenoid tube assembly is fatigue rated for 5000 psi (350 bar) service.
- This valve is direct actuated and requires no minimum hydraulic pressure for operation.
- Valves exhibit extremely low leakage rates; less than 10 drops/min. @ 5000 psi (0,7 cc/min @ 350 bar).
- Suitable for load holding applications.
- This cartridge has several manual override choices, including no manual override. See Option Selection below.
- 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.

- A wide variety of coil termination and voltage options are available.
- The solenoid's unique magnetic design results in a high efficiency solenoid, yielding high spool actuating force per Watt expended, leading to reliable valve shifting.
- Coils are interchangeable with other Sun Series 1 solenoid products and can be mounted on the tube in either direction.
- Coil connector options offer ratings up to IP69K. See individual coil
 product pages for details. Additional weatherized coils and kits are
 available for more complete environmental protection.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

Technical Data						
	U.S. Units	Metric Units				
Cavity	T-1	T-13A				
Capacity	10 gpm	40 L/min.				
Manual Override Force Requirement	5 lbs/1000 psi @ Port 1	3 kgs/100 bar @ Port 1				
Manual Override Stroke	.10 in.	2,5 mm				
Maximum Operating Pressure	5000 psi	350 bar				
Maximum Valve Leakage at 110 SUS (24 cSt)	10 drops/min.@5000 psi	0,7 cc/min.@350 bar				
Response Time - Typical	50	50 ms				
Series (from Cavity)	Serie	Series 1				
Switching Frequency	15000 c	15000 cycles/hr				
Solenoid Tube Diameter	.75 in.	19 mm				
Valve Hex Size	7/8 in.	22,2 mm				
Valve Installation Torque	30 - 35 lbf ft	40 - 50 Nm				
Seal Kits - Cartridge	Buna: 990	Buna: 990-413-007				
Seal Kits - Cartridge	Viton: 990	Viton: 990-413-006				
Seal Kits - Coil	Viton: 990	Viton: 990-770-006				
Model Weight	0.65 lb.	0.29 kg.				







	Control	Spo	ol Configuration	Seal Materi	al		Coil		
Preferred Options Preferred		Options	Preferred Options	eferred Options		*** See Coil Options Below			
	o Manual Override dard Options		ally Closed ally Open	N Buna-N Standard Options		366	con options below		
	vist/Lock (Dual) Man verride	ual		V Viton					
L Tw	vist/Lock (Detent) M verride	anual							
М Ма	anual Override								
T Twist Manual Override Standard Coil Options									
Staria	ara con options								
AN	MP Junior Timer	Deutsch DT04-2P	DIN 43650 4 pin (Hirschman)	Metri-Pack	S/	AE J858A	Twin Lead		
***	no coil		524 SAE J858A 24 VE	OC .	812 M	etri-Pack 12 VD0			
211	DIN 43650 4 pi (Hirschman) 11		528 SAE J858A 28 VE	OC .	814 M	letri-Pack 14 VD0			
212	DIN 43650 4 p (Hirschman) 12		536 SAE J858A 36 VE	OC .	824 M	letri-Pack 24 VD0			
214	DIN 43650 4 p (Hirschman) 14		612 AMP Junior Tim	ner 12 VDC	828 M	letri-Pack 28 VD0			
223	DIN 43650 4 p (Hirschman) 23		614 AMP Junior Tim	ner 14 VDC	836 M	etri-Pack 36 VD0			
224	DIN 43650 4 p (Hirschman) 24		624 AMP Junior Tim	ner 24 VDC	848 M	etri-Pack 48 VD0			
228	DIN 43650 4 p (Hirschman) 28		628 AMP Junior Tim	ner 28 VDC	912	Deutsch DT04-2	PP 12 VDC		
236	DIN 43650 4 p (Hirschman) 36		636 AMP Junior Tim	ner 36 VDC	914	Deutsch DT04-2	PP 14 VDC		
248	DIN 43650 4 p (Hirschman) 48		712 Twin Lead 12 VD	С	924	Deutsch DT04-2	2P 24 VDC		
297	DIN 43650 4 p (Hirschman) 24		724 Twin Lead 24 VD	C	928	Deutsch DT04-2	2P 28 VDC		
298	DIN 43650 4 p (Hirschman) 22		728 Twin Lead 28 VD	С	936	Deutsch DT04-2	PP 36 VDC		
299	DIN 43650 4 p (Hirschman) 12		736 Twin Lead 36 VD	С	948	Deutsch DT04-2	P 48 VDC		
514	SAE J858A 14 VD0								
Additi	ional Options								
Additional Coils									
512	SAE J858A 12 VDC		71239 Twin Lead to inch lead leng		72429	Twin Lead to (inch lead leng			
548	SAE J858A 48 VDC		71299 Twin Lead to connector, 9 length		72439	Twin Lead to (inch lead leng			
648	AMP Junior Time	r 48 VDC	714 Twin Lead 14 VD	С	72499	Twin Lead to I connector, 9 i length			
7121	9 Twin Lead to Do Weather-Pack (inch lead length	Connector, 9	72419 Twin Lead to Weather-Pack inch lead leng	Connector, 9	748 T	win Lead 48 VD0			