

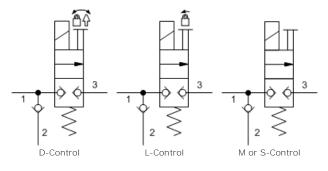
2-way, solenoid-operated directional poppet valve - after check

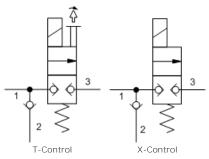
Capacity: 10 gpm (40 L/min.)

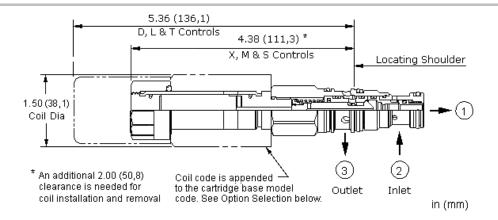
> Model: HDDA

Product Description

This solenoid-after check cartridge is a hybrid valve incorporating a direct acting solenoid poppet valve teed in after the check function. The check valve flow is from the inlet (port 2) to the system (port 1). With the solenoid de-energized flow from (port 2) to (port 3) is blocked. This combination valve is typically used in lift/lower applications and can be integrated directly into the actuator.





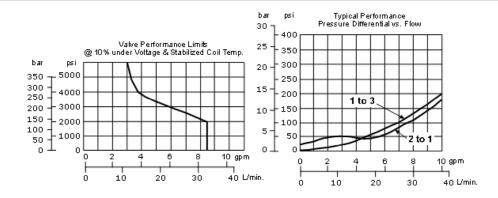


Technical Features

- The solenoid tube assembly is fatigue rated for 5000 psi (350 bar)
- Suitable for load holding applications.
- This cartridge has several manual override choices, including no manual Incorporates the Sun floating style construction to minimize the override. See Option Selection below.
- 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.
 - possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

 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.

Technical Data					
	U.S. Units	Metric Units			
Cavity	T-1	T-11A			
Capacity	10 gpm	40 L/min.			
Check Cracking Pressure	30 psi	2 bar			
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)	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: 990-011-007			
Seal Kits - Cartridge	Viton: 990	Viton: 990-011-006			
Seal Kits - Coil	Viton: 990	Viton: 990-770-006			
Model Weight	0.76 lb.	0.34 kg.			



HDDA-XCN-***

Control	Spool Configuration			Seal Materia	al	Coil	
Standard Options	Standard Options		Stan	dard Options	*** See	e Coil Options Below	
D Twist/Lock (Dual) Manual Override	C Normally Closed		N V	Buna-N Viton		'	
L Twist/Lock (Detent) Manual Override			·	***************************************			
M Manual Override							
T Twist (Momentary) Manual Override							
X No Manual Override							
Standard Coil Options							

AMP	Junior Timer	Deutsch DT04-2P		43650 4 pin irschman)	Metri-Pack		SAE J858A	Twin Lead
*** no	coil		299	DIN 43650 4 p (Hirschman) 13		812	Metri-Pack 12 VD	2
211	DIN 43650 4 p (Hirschman) 1		524 S	AE J858A 24 VD0	2	824	Metri-Pack 24 VD	C
212	DIN 43650 4 p (Hirschman) 1		612	AMP Junior Time	er 12 VDC	828	Metri-Pack 28 VD	C
223	DIN 43650 4 p (Hirschman) 2		624	AMP Junior Time	er 24 VDC	848	Metri-Pack 48 VD	0
224	DIN 43650 4 p (Hirschman) 2		628	AMP Junior Time	er 28 VDC	912	Deutsch DT04-2	2P 12 VDC
248	DIN 43650 4 p (Hirschman) 4		712 Tv	win Lead 12 VDC		924	Deutsch DT04-2	2P 24 VDC
297	DIN 43650 4 p (Hirschman) 2		724 Tv	win Lead 24 VDC		948	Deutsch DT04-2	2P 48 VDC
298	DIN 43650 4 p (Hirschman) 2							
Embeda	led Coil Options							
2E12V	DIN 43650 4 p (Hirschman) pi via IR link coil/ 12 VDC 0-10V	rogrammable	4E12V	Deutsch DT04- programmable coil/power sav 10V	via IR link	4E24	programmabl	
2E24V	DIN 43650 4 p (Hirschman) pr via IR link coil/ 24 VDC 0-10V	rogrammable						
Addition	nal Options							
Addition	nal Coils							
512 S	AE J858A 12 VD	0	648	AMP Junior Time	er 48 VDC	748	Twin Lead 48 VD	0
548 S	AE J858A 48 VD0		72419	Twin Lead to E Weather-Pack inch lead lengt	Connector, 9			