

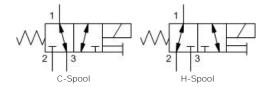
3-way, solenoid-operated directional spool valve - pilot capacity

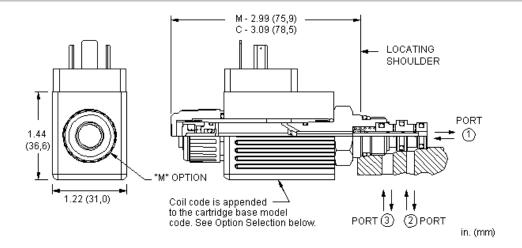
Capacity: .25 gpm (1 L/min.)

> Model: DBAA

Product Description

This solenoid-operated 3-way, 2-position cartridge is a direct-acting, balanced spool pilot valve used to pilot other full-flow valves. The valve is normally open between port 1 and port 2 or port 1 and port 3 and all flow paths are bidirectional.



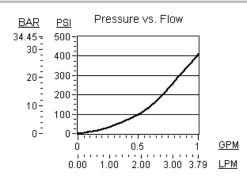


Technical Features

- 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.
- Highly efficient tube design requires only 12 Watts to shift the valve.
- Valves exhibit extremely low leakage rates; less than 10 drops/min. @ 5000 psi (0,7 cc/min @ 350 bar).
- 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.
- Coils are interchangeable with other Sun Series P pilot solenoid products and can be mounted on the tube in either direction.
- 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-	T-9A				
Capacity	.25 gpm	1 L/min.				
Manual Override Force Requirement	10 lbs/1000 psi @ Port 1	6,6 kgs/100 bar @ Port 1				
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	30	30 ms				
Series (from Cavity)	Ser	Series P				

Switching Frequency	15000 cy	15000 cycles/hr			
Solenoid Tube Diameter	.56 in.	14,2 mm			
Valve Hex Size	7/8 in.	22,2 mm			
Valve Installation Torque	20 - 25 lbf ft	27 - 33 Nm			
Seal Kits - Cartridge	Buna: 990	Buna: 990-009-007			
Seal Kits - Cartridge	Viton: 990	Viton: 990-009-006			
Seal Kits - Coil	Viton: 990	Viton: 990-760-006			
Model Weight	0.33 lb.	0.15 kg.			



DBAA-MCN-***

Control	Spool Configuration		Seal Material		ial	Coil	
Standard Options	Standard Options Standard Options			Standard Options			
							*** See Coil Options Below
C Concealed Manual C		illy Open 1 to	3, Closed 1	Ν	Buna-N		
M Manual Override	to 2			V	Viton		
	H Norma to 3	illy Open 1 to	2, Closed 1				
Standard Coil Options							
Standard Com Options		_					
a a							
DIN 43650 4 pin (Hirschman)	SAE J858A	Twin	Lead				
*** no coil		236	DIN 43650 4 (Hirschman)			506	SAE J858A 6 VDC
206 DIN 43650 4 (Hirschman)		248	DIN 43650 4 (Hirschman)			512	SAE J858A 12 VDC

		200	(Hirschman) 36 VDC		0,12 3000,10 120
206	DIN 43650 4 pin (Hirschman) 6 VDC	248	DIN 43650 4 pin (Hirschman) 48 VDC	512	SAE J858A 12 VDC
211	DIN 43650 4 pin (Hirschman) 115 VAC	311 NI	FPA 115 VAC	524	SAE J858A 24 VDC
212	DIN 43650 4 pin (Hirschman) 12 VDC	323 NI	FPA 230 VAC	712	Twin Lead 12 VDC
223	DIN 43650 4 pin (Hirschman) 230 VAC	324 NF	FPA 24 VDC	724	Twin Lead 24 VDC

Additional Options

Additional Coils

706 Twin Lead 6 VDC

DIN 43650 4 pin (Hirschman) 24 VDC