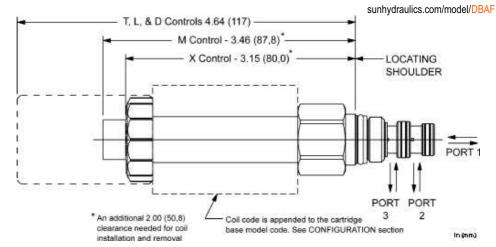


CONFIGURATION

L	Control	Twist/Lock (Detent) Manual Override	
С	Spool Configuration	Normally Closed	_
Ν	Seal Material	Buna-N	_
(none) Coil		No coil	





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.

This valve is designed to be used with FLeX Series coils.

TECHNICAL DATA

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

Cavity	Т-9А		
Series	Р		
Capacity	1 L/min.		
Maximum Operating Pressure	350 bar		
Maximum Valve Leakage at 110 SUS (24 cSt)	0,7 cc/min.@350 bar		
Manual Override Force Requirement	66 N/100 bar @ Port 1		
Manual Override Stroke	2,5 mm		
Response Time - Typical	50 ms		
Switching Frequency	15,000 max. cycles/hr		
Solenoid Tube Diameter	16 mm		
Valve Hex Size	22,2 mm		
Valve Installation Torque	27 - 33 Nm		
Seal kit - Cartridge	Buna: 990009007		
Seal kit - Cartridge	Polyurethane: 990009002		
Seal kit - Cartridge	Viton: 990009006		
Model Weight	0.18 kg.		

 Please verify cartridge clearance requirements when choosing a Sun manifold. Different valve controls and coils require different clearances. NOTES

• An additional 2.00 inches (50,8 mm) beyond the valve extension is needed for coil installation and removal.

CONFIGURATION OPTIONS

Model Code Example: DBAFLCN

CONTROL (L)	SPOOL CONFIGURATION	(C)	SEAL MATERIAL	(N)	COIL *
L Twist/Lock (Detent) Manual Override	C Normally Closed		N Buna-N		No coil
D Twist/Lock (Dual) Manual Override	H Normally Open		V Viton		* Additional coil options are available

M Manual Override (Standard)

T Twist (Momentary) Manual Override

X No Manual Override

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.
- Cartridge can be installed directly into a cavity in some Sun pilot operated and ventable cartridges to provide electrically operated pilot control functions. Separate pilot lines are eliminated and only one cavity needs to be machined to accommodate both the control and primary function.
- Valves exhibit extremely low leakage rates; less than 10 drops/min. @ 5000 psi (0,7 cc/min @ 350 bar).
- This cartridge utilizes 740 Series low-power and high-power coils, and 747 Series hazardous location coils for both Normally Open and Normally Closed configurations.
- This cartridge has an option for manual override. See the CONFIGURATION section.
- On models equipped with the D or L control, the detent mechanism in the manual override is meant for temporary actuation. The D, L and T manual control
 assemblies have a mechanical life expectancy of approximately 7,000 cycles.
- All configurations of this valve include zinc-nickel plating as standard for 1000-hour salt fog protection.
- Coil connector options offer ratings up to IP69K. See individual coil product pages for details.
- A FULL DATA SHEET is available for this model using the link at the top of the page.
- 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, with and without surge protection. See the CONFIGURATION section.
- Coils 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.

PERFORMANCE CURVES

