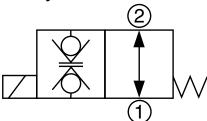
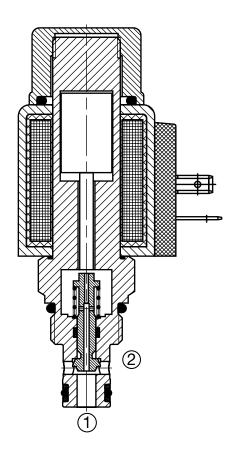
# WS08V-01

# Poppet Type, Bi-directional, Normally Open, Direct Acting Up to 5 gpm (19 l/min) • 5000 psi (350 bar)

**Hydraulic Symbol** 





# **Description**

A screw-in cartridge, solenoid operated, 2-way, 2-position, normally open, direct acting, poppet type, intended for use as a bi-directional load holding device in hydraulic circuits requiring low internal leakage.

# Operation

When de-energized the WS08V allows flow in both directions. When energized the poppet closes and oblocks the flow from port 2 to port 1 and from port 1 to port 2.

**Operation of Manual Override Option:** To override, push and hold the override button. The override is not detented. The manual override option is intended for emergency use, not for continuous duty operation.

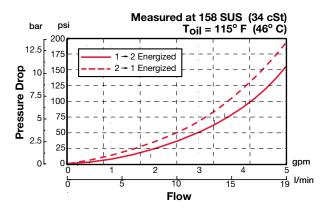
#### **Features**

Push type manual override button, protected by rubber cap

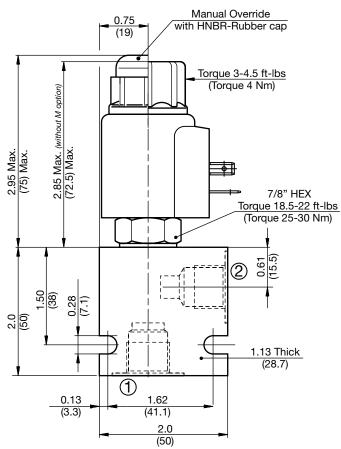
### **Specifications**

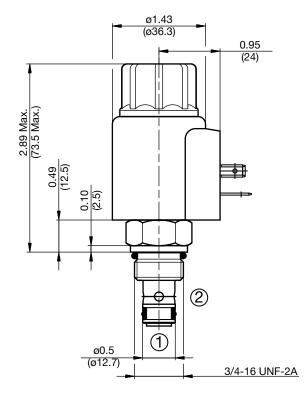
Opecinications					
Operating Pressure	5000 psi (350 bar)				
Nominal Flow	5 gpm (19 l/min)				
Internal Leakage	Leaktight, less than 2 drops/min. at 3600 psi (0.10 cc/min at 250 bar)				
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)				
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)				
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage				
Current Draw @ 68°F (20°C)	1.5 A at 12VDC; 0.8 A at 24VDC				
Min. Pull-in Voltage @ 68°F (20°C)	85% of nominal @ 5000 psi (350 bar)				
Response Time (typical)	Energized 35 ms De-energized 50 ms				
Fluid Compatibility	Mineral-based or synthetics with lubricating properties				
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)				
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated β10 ≥ 200.				
Installation	No orientation restrictions				
Cavity	FC08-2 (see Line Bodies & Cavities section)				
Cavity Tools	Rougher: 02580090 Finisher: 02580091				
Cartridge Weight	0.31 Lbs. (0.14 kg)				
Coil Weight	0.42 Lbs. (0.19 kg)				
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton® o-rings. PTFE back-up rings.				
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.				
Seal Kits Buna-N Viton®	FS082-N P/N: 03033920 FS082-V P/N: 03051756				

#### **Performance**



# **Dimensions**





#### All measurements in inches (mm). Subject to technical modifications

# **Model Code**

<u>WS08V-01 M-C-N-24 DS</u>							
Valve Model ————————————————————————————————————							
Override Option —							
blank = No manual override							
M = Manual override, push type							
Body & Ports							
C = Cartridge only							
AS6 = SAE-6 Ports, aluminum body							
SS6 = SAE-6 Ports, steel body							
Seals							
N = Buna-N							
V = Viton®							
Coil Voltage							
0 = No coil, cartridge only							
DC 12 = 12 VDC 24 = 24 VDC							
36 = 36 VDC							
110 = 110 VDC (only available with connector DG)							
$AC \Gamma 24 = 24 \text{ VAC}$							
115 = 115 VAC (AC coils internally full wave rectified)							
230 = 230 VAC							
Coil Connector							
DC_DG = EN 175301-803-A							
DS = Dual spade (SAEJ858a)*							
DL = Leadwires (2) - 18" long (46 cm)*							
DW = WeatherPak <sup>™</sup> on leadwires - 9.5" long (24 cm)*							
DN = Deutsch™ DT04-2P, molded, axial (IP69K Rated)*							
DT = Amp Junior Timer™, molded, radial mount*							

# **Coil Model** 40-1836

AC AG

For other coil connector types consult factory

\*Coils with internal diode are available, consult factory.

= EN 175301-803-A

# Standard Line Bodies\*

Code	Part No	Material	Pressure Rating	Weight
FH082-AS6	03011409	Aluminum, anodized	3500 psi (245 bar)	0.34 lbs (0.15 kg)
FH082-SS6	00560917	Steel, Zinc plated	6000 psi (420 bar)	1.0 lbs (0.45 kg)

<sup>\*</sup>Please refer to Line Bodies & Cavities section for details