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EMERSON ASCO SOLENOID VALVE SERIES L182

Diaphragm Pilot Operated Valve

L182V1DYB10L5A
L182V01-ZB10A... 2/2 N.C., G1/2", 0.35-12 bar, 3.8, FPM, 110V/50Hz, IP65,

- 2/2 Normally Closed G3/8, G1/2, G3/4, G1
- Full Orifice
- Suitable To Shut Off Liquid & Gaseous Fluids
- Operating Pressure Differential: Up To 16 Bar
- IP65, IP67

PRODUCT DESCRIPTION

The Emerson ASCO L182 Series solenoid valves are pilot-operated, general-purpose valves designed for reliable and efficient fluid control in industrial applications. They feature a 2/2-way normally closed function, ensuring secure shutoff. Available in multiple port sizes (G3/8, G1/2, G3/4, G1), they support a maximum pressure of 20 bar and can handle temperatures ranging from -10°C to 140°C, making them suitable for applications such as water, air, and light oil control.
Built for durability, the brass body and stainless-steel internal components provide high resistance to corrosion and wear. These valves feature an IP65/IP67 protection rating, safeguarding them from dust and water ingress, making them ideal for demanding environments. They include manual override functionality for added control and multiple coil options (ZB10A, ZB12A, ZB14A), with insulation classes F (155°C) and H (180°C). Operating efficiently with DC power (5.5W, holding 4W) and AC power (12VA inrush, 6VA holding), they provide stable and energy-efficient performance in automation and process control systems. Additionally, their maximum viscosity tolerance of 37 cSt allows them to handle various fluid types with ease.

TECHNICAL DATA

GENERAL DATA

Function	2/2, Normally Closed
Connection	G1/2
Electrical connection	DIN 46350 - 3 pole plug connector
Operating Pressure Differential	0.35 - 12
Flow factor / flow coefficient	3.8 Kv
Coil type	ZB10A
Voltage / Frequency	110 V / 50Hz
IP class	IP65

MATERIAL DATA

Material body	Brass
Material of seals	FPM

Material seat	Brass
Material of core tube	Stainless steel
Material internal parts	Brass, Stainless steel
Encapsulation material	Fiberglass reinforced polyamide

TEMPERATURE DATA

Temperature ambient from	-10 °C
Temperature ambient to	60 °C
Temperature of media from	0 °C
Temperature of media to	130 °C

ADDITIONAL DATA

Power consumption	Inrush 12VA, holding 6VA
Pressure max	20 bar
Response time	70 ms
Close delay	600 ms
Viscosity max	37 cSt
Continuous duty	ED 100%
Insulation class	F (155°C)
Weight	0.38 kg