



## EMERSON ASCO SOLENOID VALVE SERIES L182

Diaphragm Pilot Operated Valve

L182D1FYB10E2A  
L182D01-ZB10A... 2/2 N.C., G1", 0.35-12 bar, 12,  
EPDM, 24VDC, IP65, WRAS

- 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 (SPST) 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 (SPST)       |
| Connection                      | G1                                |
| Electrical connection           | DIN 46350 - 3 pole plug connector |
| Operating Pressure Differential | 0.35 - 12                         |
| Flow factor / flow coefficient  | 12 Kv                             |
| Coil type                       | ZB10A                             |
| Voltage / Frequency             | 24 VDC                            |
| IP class                        | IP65                              |

### MATERIAL DATA

|               |       |
|---------------|-------|
| Material body | Brass |
|---------------|-------|

|                         |                                 |
|-------------------------|---------------------------------|
| Material of seals       | EPDM                            |
| 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 | -10 °C |
| Temperature of media to   | 140 °C |

ADDITIONAL DATA

|                   |                  |
|-------------------|------------------|
| Power consumption | 5.5W, holding 4W |
| Pressure max      | 20 bar           |
| Response time     | 90 ms            |
| Close delay       | 420 ms           |
| Viscosity max     | 37 cSt           |
| Continuous duty   | ED 100%          |
| Insulation class  | F (155°C)        |
| Approvals         | WRAS             |
| Weight            | 1.08 kg          |