



EMERSON ASCO SOLENOID VALVE SERIES L182D-BIG-NPT

Diaphragm Pilot Operated Valve

L182DIGYA10AF0
L182D50-ZA10A... 2/2 N.C., 1 1/4" NPT, 0.5-10 bar, 15,
EPDM, 110V/50Hz, IP67



- 2/2 Normally Closed 1 1/4", 1 1/2", G 2" NPT
- Full orifice
- Suitable to shut off liquid and gaseous fluids
- Operating Pressure Differential: Up to 10 bar
- IP67

PRODUCT DESCRIPTION

Emerson ASCO's L182D-BIG-NPT solenoid valves are engineered for high-performance fluid control in demanding industrial environments. These 2/2 Normally Closed diaphragm pilot operated valves are available in port sizes of 1 1/4", 1 1/2", and G 2" NPT, offering installation flexibility across a wide range of systems. Their full orifice design ensures maximum flow capacity, minimising pressure drop and enhancing overall system efficiency. Ideal for applications involving both liquid and gaseous media, these valves are commonly used in water treatment, HVAC, and general industrial automation where safe and reliable shutoff is essential.

The L182D-BIG-NPT series supports an operating pressure differential of up to 10 bar, making them suitable for medium-pressure systems where stability and control are critical. Built with durability in mind, these valves feature an IP67-rated enclosure, providing excellent protection against dust and temporary water immersion—ideal for outdoor or washdown environments. In addition to their robust construction and performance, the valves are designed for easy maintenance, helping reduce downtime and increase system uptime. With a combination of flow efficiency, reliability, and environmental resistance, the L182D-BIG-NPT valves deliver long-term value in a variety of industrial fluid control applications.

TECHNICAL DATA

GENERAL DATA

Function	2/2, Normally Closed
Connection	1 1/4 NPT
Electrical connection	DIN 46350 - 3 pole plug connector
Operating Pressure Differential	0.5-10 bar
Flow factor / flow coefficient	15 Kv
Coil type	ZA10A
Voltage / Frequency	110 V / 50Hz
IP class	IP67

MATERIAL DATA

Material body	Brass
Material of seals	EPDM
Material seat	Brass
Material of core tube	Stainless steel
Material internal parts	Brass, Stainless steel, Copper
Encapsulation material	PPS (Fibreglass Reinforced)

TEMPERATURE DATA

Temperature ambient from	-10 °C
Temperature ambient to	50 °C
Temperature of media from	-10 °C
Temperature of media to	140 °C

ADDITIONAL DATA

Power consumption	Inrush: 23VA, Holding 14VA
Pressure max	10 bar
Response time	100 ms
Close delay	650 ms
Viscosity max	37 cSt
Continuous duty	ED 100%
Insulation class	F (155°C) on request class H (180°C)
Approvals	WRAS
Weight	1.59 kg