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# EMERSON ASCO SOLENOID VALVE SERIES D144

Total Isolation Valve

D144D4BI530D2A
D144D4-Z530A... 2/2 N.C., G1/4", 0-2.4 bar, 0.32Kv, EPDM, 12VDC, IP65,




- 2/2 Normally Closed G1/4 or Barbed Port
- Direct Acting, Total Isolation
- Suitable To Shut Off Liquid & Gaseous Fluids
- Operating Pressure Differential: Up to 10 Bar
- IP65

### PRODUCT DESCRIPTION

The Emerson ASCO D144 Series is a line of direct-acting, total isolation solenoid valves engineered for the precise control of aggressive or contamination-sensitive fluids. Featuring a 2/2 normally closed configuration, these valves offer port options including G1/4 and barbed connections, accommodating diverse installation needs. The design ensures that the actuator is completely isolated from the fluid, with only the body and lever-seal in contact, thereby preventing contamination and enhancing durability. Constructed with materials such as polyetherimide (PEI) for the body and various sealing options like EPDM, VMQ, or FPM, the D144 Series can handle operating pressure differentials up to 10 bar and fluid temperatures ranging from -10°C to +100°C. Additionally, these valves are rated IP65, signifying robust protection against dust and water ingress.
These attributes make the ASCO D144 Series particularly suitable for industrial applications requiring reliable shut-off of liquid and gaseous fluids. Industries such as food processing, biotechnology, chemical and pharmaceutical manufacturing, and medical device production can benefit from the valves' ability to manage aggressive media without risk of contamination. The combination of total isolation design, versatile port options, and high-quality materials ensures that these solenoid valves deliver consistent performance in demanding environments where maintaining fluid purity and system integrity is critical.

# TECHNICAL DATA

## GENERAL DATA

| | |
|---|---|
| **Function** | 2/2, Normally Closed |
| **Connection** | G1/4 |
| **Electrical connection** | DIN 46340 - 3 Pole Plug Connector |
| **Operating Pressure Differential** | 0-4.5 bar |
| **Flow factor / flow coefficient** | 0,32 |
| **Coil type** | Z530A |
| **Voltage / Frequency** | 12VDC |
| **IP class** | IP65 |

## MATERIAL DATA

| | |
|---|---|
| **Material body** | PEI |
| **Material of seals** | EPDM |
| **Encapsulation material** | Fiberglass reinforced PET |

## TEMPERATURE DATA

| | |
|---|---|
| **Temperature ambient from** | -10 °C |
| **Temperature ambient to** | 60 °C |
| **Temperature of media from** | -10 °C |
| **Temperature of media to** | 100 °C |

## ADDITIONAL DATA

| | |
|---|---|
| **Power consumption** | 9W |
| **Pressure max** | 12 bar |
| **Response time** | 25 ms |
| **Close delay** | 25 ms |
| **Viscosity max** | 37 cSt |
| **Continuous duty** | ED 100% |
| **Insulation class** | F (140°C) |
| **Weight** | 0.255 kg |