

EMERSON ASCO SOLENOID VALVE SERIES 210

Pilot Operated, Floating Diaphragm/Piston

E210-100-015
SCE210-100V.24/DC...2/2 N.C., Rp 2", 0.35-3 bar, 37,
FPM, 24VDC, IP65,

- 2/2 Normally Closed / Open Rp 3/8", Rp 1/2", Rp 3/4", Rp 1", Rp 1 1/4", Rp 1 1/2", Rp 2"
- FPM, EPDM, NBR, CR
- Suitable To Control Air, Inert Gas, Water, Oil and other Gases/Liquids
- Operating Pressure Differential: Up to 20 Bar
- IP65



PRODUCT DESCRIPTION

The **Emerson ASCO™ 210 Series solenoid valve** is a robust, pilot-operated 2/2-way valve designed for the **automatic control of air, inert gases, water, light oils, and other compatible fluids**. Featuring a **floating diaphragm or piston construction**, the ASCO 210 Series offers exceptional reliability and durability across demanding industrial and commercial applications.

Built with a **brass body** and **stainless-steel internal components**, the 210 Series ensures long-term corrosion resistance and performance consistency. The valve uses **NBR (nitrile) seals** as standard, with optional seal materials; **FPM (fluoroelastomer)**, **EPDM**, **CR (chloroprene)**, and **PTFE** application and temperature requirements. The valve operates effectively across a temperature range of **-20°C to +85°C** with a maximum viscosity of **65 cSt**.

This **Emerson ASCO solenoid valve** meets the requirements of the **Pressure Equipment Directive 2014/68/EU** and satisfies all relevant **EU safety directives**, making it suitable for both **Group 1 and Group 2 fluids**. Electrical options include AC (24V, 48V, 115V, 230V/50Hz) and DC (24V, 48V) configurations, with **Class F insulated coils** offering IP65 protection in standard epoxy-moulded housings. Enhanced options include **IP67 waterproof**, **ATEX-certified explosionproof enclosures**, and **NEMA-rated housings** for hazardous or outdoor environments.

Requiring a minimum differential pressure of **0.35 bar**, the 210 Series is ideal for systems with moderate flow demands, with orifice sizes ranging from **16 to 44 mm** and Kv flow coefficients up to **37 m³/h**. Its fast **response time (15–120 ms)** makes it well-suited for **industrial automation, water treatment, heating systems, pneumatic control circuits, and energy applications**.

The **Emerson ASCO 210 Series solenoid valve** is available in **Normally Closed (NC)** or **Normally Open (NO)** variations, with **global approvals including WRAS, ATEX, UL, and CSA** (on request).

TECHNICAL DATA

GENERAL DATA

Function	2/2, Normally Closed
Connection	Rp 2"
Operating Pressure Differential	0.35 - 3 bar
Flow factor / flow coefficient	37
Voltage / Frequency	24 VDC
IP class	IP65

MATERIAL DATA

Material body	Brass
Material of seals	FPM
Material seat	Brass
Material of core tube	Stainless steel
Encapsulation material	thermoplastic

TEMPERATURE DATA

Temperature ambient from	-20 °C
Temperature ambient to	75 °C
Temperature of media from	-20 °C
Temperature of media to	85 °C

ADDITIONAL DATA

Response time	120 ms
Viscosity max	65 cSt
Continuous duty	ED 100%
Insulation class	F (155°C)
Weight	5.5 kg