

## 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

<b>Material body</b>	Brass
<b>Material of seals</b>	FPM
<b>Material seat</b>	Brass
<b>Material of core tube</b>	Stainless steel
<b>Encapsulation material</b>	thermoplastic

## TEMPERATURE DATA

<b>Temperature ambient from</b>	-20 °C
<b>Temperature ambient to</b>	75 °C
<b>Temperature of media from</b>	-20 °C
<b>Temperature of media to</b>	85 °C

## ADDITIONAL DATA

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