



EMERSON ASCO SOLENOID VALVE SERIES 551-553 AIR OPERATED

Air Operated Spool Valve

G553A117
 G553A117...5/2 Air / Spring Return, G 1/2", 0-10 bar,
 52.5, NBR & PUR



- 5/2, Air Pilot & Return or Air Pilot & Spring Return
- G 1/4", G 1/2"
- Non breathing, full protection against ingress of liquids and dust
- Air or neutral gas, filtered, lubricated or not
- Operating Pressure Differential: 10 Bar

PRODUCT DESCRIPTION

The Emerson ASCO 551–553 air-operated spool valve is a precision-engineered directional control valve designed for reliable switching and control of compressed air in industrial pneumatic systems. Manufactured by Emerson ASCO, a global authority in automation and fluid control, this spool valve series is built for high cycle life, fast response, and consistent performance in demanding operating environments.

The 551–553 series features a robust air-operated spool valve design with an internal sliding spool mechanism that ensures accurate port alignment, low internal leakage, and smooth directional switching. These valves are typically pilot-operated by air or solenoid valve actuation, making them ideal for integration into automated control systems and PLC-driven machinery. The durable metal body construction provides excellent resistance to vibration, pressure fluctuations, and industrial contaminants.

Key Advantages

- Proven Emerson ASCO spool valve reliability
- Fast switching for high-speed automation
- Long service life with minimal maintenance
- Low friction internal spool for smooth operation
- Compatible with solenoid valve pilots and air-actuated controls
- Compact footprint with flexible mounting options

Typical Applications

The Emerson ASCO 551–553 air-operated spool valve is widely used in:

- Pneumatic automation systems
- Packaging and bottling machinery
- Material handling and conveyor systems
- Process automation in manufacturing plants
- Robotic and assembly line equipment
- General industrial compressed air control

These valves are well suited for applications requiring frequent cycling, precise directional control, and dependable performance in continuous-duty environments.

TECHNICAL DATA

GENERAL DATA

Function	5/2, Air-Controlled With Spring Return
Connection	G1/2

Operating Pressure Differential	0-10 bar
Flow factor / flow coefficient	52.5 Kv
IP class	IP65

MATERIAL DATA

Material body	Anodized aluminum
Material of seals	NBR, PUR
Material internal parts	Steel, POM, Aluminium, Zinc Diecast

TEMPERATURE DATA

Temperature ambient from	-25 °C
Temperature ambient to	60 °C

ADDITIONAL DATA

Approvals	IEC, TÜV
Weight	1.24 kg

Type of valve	Air controlled
Pilot pressure	2-10 bar
Flow max	3800 l/min