FC300-SG





Integrated Proportional Flow Control Valve - Protection & Smart Control in One



Industrial application

- Gas Mixing
- Analytical Instrument
- Semiconductor equipment
- High Accuracy and High Resolution Flow Control.
- Liquid Cooling Solution for AI Servers

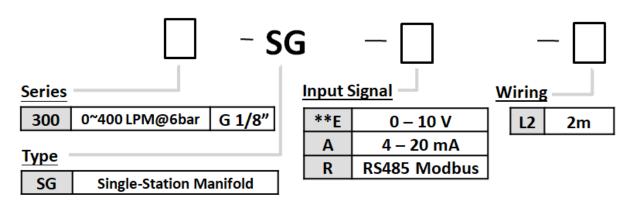
The proportional flow control system combines a PM driver controller with an FC proportional flow valve. By receiving 0–10 V, 4–20 mA, or RS485 (Modbus) signals, the motor precisely adjusts the valve opening to achieve stable, linear, and accurate flow control for gases and liquids. Its responsive performance enhances equipment efficiency and precision.

To meet market needs for better protection and easier installation, we developed a new integrated enclosure version that unites the controller and valve body. This design maintains high-precision control while improving dust and splash resistance, making it ideal for long-term and demanding applications.

Specifications

Model	FC300-SG		
Valve Type	2-Way Proportional Needle valves		
Medium	Vacuum, Compatible gases, oil, water and liquids		
Pressure Range	-1~7bar	Repeatability	±0.1% F.S.
Flow Range of air	0~400L/min@6bar	Flow Range of water	0~8L/min@6bar
Port Size	G 1/8"	Full stroke time	2 sec
Flow Resolution of air	0.3 L/min@3bar	Flow Resolution of water	0.008L/min@3bar
Body material	Aluminum	Seals	FKM or FKM+EPDM
Temperature Range	-20 ~84° C	Ingress Protection	IP 65

Ordering Code



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Proportional Flow Control Valve

Dimensions

