558335

Industrial automation components

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Manufacturer	Festo
Catalog number	558335
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Nominal size, supply	6 mm
Nominal size, exhaust	4.5 mm
Type of actuation	Electric
Sealing principle	Soft
Mounting Position	Optional
Design	Piloted diaphragm regulator
Pressure regulation range	0.01 MPa...1 MPa (0.1 bar...10 bar) MPa/bar
Inlet pressure 1	0 bar...11 bar (0 MPa...1.1 MPa) bar/MPa
Max. pressure hysteresis	0.05 bar
Standard Nominal Flow Rate	1400 l/min
Operational voltage range DC	21.6 V...26.4 V
Max. current consumption	300 mA

Description

The Festo 558335 is a proportional-pressure regulator designed for precise control of pneumatic systems. This model, VPPM-6L-L-1-G18-0L10H-V1P-S1C1, features a 6 mm nominal size for pressurization and a 4.5 mm nominal size for exhaust, ensuring efficient airflow management. Actuated electrically, it employs a soft sealing principle and can be mounted in any position, offering flexibility in installation. The regulator operates within a pressure regulation range of 0.01 MPa to 1 MPa (0.1 bar to 10 bar) and supports inlet pressures from 0 bar to 11 bar (0 MPa to 1.1 MPa). Its design includes

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a piloted diaphragm regulator, providing reliable performance. The device is equipped with a back-lit LCD display for easy monitoring and features a PNP switching output. It requires a DC operating voltage between 21.6 V and 26.4 V, with a maximum current consumption of 300 mA and a duty cycle of 100%. The maximum electrical power consumption is 7 W, and it operates with a residual ripple of 10%. The regulator is suitable for compressed air as per ISO 8573-1:2010 [7:4:4] and inert gases, but lubricated operation is not possible. This product is ideal for applications requiring precise pressure control in pneumatic systems.