554040

Industrial automation components

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Manufacturer	Festo
Catalog number	554040
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Festo
Part Number	554040
Product Type	Proportional Pressure Regulator
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	0.1 to 10 bar

Description

The Festo 554040 is a proportional pressure regulator designed for precise control in pneumatic systems. This device features a nominal size of 6 mm for the supply and 4.5 mm for the exhaust, ensuring efficient airflow management. It operates electrically, utilizing a soft sealing principle, and offers flexible mounting options to suit various installation requirements. The regulator employs a piloted diaphragm design, providing reliable pressure regulation. Safety features include reverse polarity protection and a mechanical spring reset, enhancing operational safety. The device maintains output pressure unregulated if the power supply is interrupted, ensuring system stability. It supports a pressure regulation range from 0.1 to 10 bar, with an inlet pressure range up to 11 bar, accommodating diverse operational conditions. The standard nominal flow rate is 1400 l/min,

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standardized to DIN 1343, ensuring consistent performance. Electrical specifications include an operational voltage range of 21.6 to 26.4 V DC, with a maximum current consumption of 300 mA and a maximum electrical power consumption of 7 W. The regulator features a PNP switching output and supports analog input and output signals ranging from 0 to 10 V, facilitating seamless integration into control systems. It is suitable for operating media such as compressed air and inert gases, adhering to ISO 8573-1:2010 [7:4:4] standards. Lubricated operation is not possible, and the device is approved with the RCM trademark and c UL us listed (OL) certification, ensuring compliance with international standards.