

# Proportional-pressure regulator VPPM-6-...

Part number: 543432

**FESTO**



## Data sheet

| Feature   | Value  |
|---|--|
| Nominal size, supply                                  | 6 mm   |
| Type of actuation                                     | Electric   |
| Sealing principle                                     | Soft   |
| Mounting position                                     | optional   |
| Design  | Piloted diaphragm regulator  |
| Short circuit current rating                          | For all electrical connections   |
| Safety instructions                                   | Safety position VPPM: if the power supply cable is interrupted, output pressure is maintained unregulated. |
| Reverse polarity protection                           | For all electrical connections   |
| Type of reset   | Mechanical spring  |
| Type of piloting                                      | Pilot actuated   |
| Valve function  | 3-way proportional pressure regulator  |
| Display type  | Back-lit LCD<br>LED  |
| Pressure regulation range                             | 0.02 bar...10 bar  |
| Inlet pressure 1                                      | 0 bar...11 bar<br>0 MPa...1.1 MPa  |
| Standard nominal flow rate (standardised to DIN 1343) | 380 l/min...1400 l/min   |
| Operational voltage range DC                          | 21.6 V...26.4 V  |
| Max. current consumption                              | 300 mA   |
| Duty cycle  | 100%   |
| Max. electrical power consumption                     | 7 W  |
| Residual ripple                                       | 10 %   |
| Operating medium                                      | Compressed air to ISO 8573-1:2010 [7:4:4]<br>Inert gases   |
| Note on operating and pilot medium                    | Lubricated operation not possible  |
| Approval  | RCM trademark<br>c UL us listed (OL)   |
| KC mark   | KC-EMV   |
| CE mark (see declaration of conformity)               | To EU EMC Directive<br>In accordance with EU RoHS Directive  |
| UKCA marking (see declaration of conformity)          | To UK instructions for EMC<br>To UK RoHS instructions  |

| Feature                        | Value  |
|--------------------------------|--|
| Certificate issuing authority  | UL E322346                                       |
| Corrosion resistance class CRC | 2 - Moderate corrosion stress                    |
| LABS (PWIS) conformity         | VDMA24364-B1/B2-L                                |
| Media temperature              | 10 °C...50 °C                                    |
| Degree of protection           | IP65   |
| Ambient temperature            | 0 °C...60 °C                                     |
| Product weight                 | 400 g  |
| Linearity                      | 1 %FS  |
| Hysteresis                     | 0.5 %FS  |
| Reproducibility                | 0.5 %FS  |
| Total accuracy                 | 1.25%FS  |
| Temperature coefficient        | 0.04 %/K   |
| Repetition accuracy FS         | 0.5 %  |
| Electrical connection          | 8-pin<br>M12<br>Plugs<br>Via sub-base            |
| Type of mounting               | With through-hole<br>With accessories<br>Either: |
| Pneumatic connection, port 1   | G1/8   |
| Pneumatic connection, port 2   | G1/8   |
| Pneumatic connection, port 3   | G1/8   |
| Note on materials              | RoHS-compliant                                   |
| Material housing               | Wrought aluminium alloy<br>Anodised              |