

# Proportional-pressure regulator VPPM-8TA-L-1-F-0L2H-C1

FESTO

Part number: 572410



General operating condition

## Data sheet

| Feature   | Value  |
|---|--|
| Nominal size, supply                                  | 8 mm   |
| Nominal size, exhaust                                 | 7 mm   |
| Type of actuation                                     | Electrical   |
| Sealing principle                                     | Soft   |
| Mounting position                                     | Any  |
| 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. |
| Symbol  | 00995303   |
| Reverse polarity protection                           | For all electrical connections   |
| Type of reset   | Mechanical spring  |
| Type of piloting                                      | Piloted  |
| Valve function  | 3-way proportional pressure regulator  |
| Display type  | Back-lit LCD   |
| Pressure regulation range                             | 0.002 MPa ... 0.2 MPa  |
| Pressure regulation range                             | 0.02 bar ... 2 bar   |
| Inlet pressure 1                                      | 0 bar ... 4 bar  |
| Inlet pressure 1                                      | 0 MPa ... 0.4 MPa  |
| Max. pressure hysteresis                              | 0.01 bar   |
| Standard nominal flow rate (standardised to DIN 1343) | 450 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 gas   |
| Note on operating and pilot medium                    | Lubricated operation not possible  |
| Approval  | RCM<br>c UL us - Listed (Oil)  |
| 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 RoHS instructions  |
| Certificate issuing authority                         | UL E322346   |

| <b>Feature</b>                 | <b>Value</b>                          |
|--------------------------------|---------------------------------------|
| 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 ... 50 °C                        |
| Product weight                 | 560 g                                 |
| Linearity                      | 1 %FS                                 |
| Hysteresis                     | 0.5 %FS                               |
| Reproducibility                | 0.5 %FS                               |
| Total accuracy                 | 2.25 %FS                              |
| Temperature coefficient        | 0.04 %/K                              |
| Repetition accuracy FS         | 0.5 %                                 |
| Electrical connection          | Via E-box                             |
| Type of mounting               | With through-hole<br>With accessories |
| Pneumatic connection, port 1   | Sub-base                              |
| Pneumatic connection, port 2   | Sub-base                              |
| Pneumatic connection, port 3   | Sub-base                              |
| Note on materials              | RoHS compliant                        |
| Material housing               | Wrought aluminium alloy<br>anodised   |