

# Proportional pressure control valve VPPM-6TA-L-1-F-0L10H

FESTO

Part number: 542222



General operating condition

## Data sheet

| Feature   | Value   |
|---|---|
| Nominal width pressurization                      | 6 mm  |
| Exhaust nominal width                             | 4,5 mm  |
| Actuation type                                    | Electrical  |
| Sealing principle                                 | Soft  |
| Mounting position                                 | Any   |
| Structural design                                 | Pilot-controlled diaphragm regulator  |
| Short-circuit protection                          | For all electrical connections  |
| Safety instructions                               | VPPM safety position: if the supply cable breaks, the outlet pressure is maintained in uncontrolled form. |
| Symbol  | 00995303  |
| Reverse polarity protection                       | for all electrical connections  |
| Reset method                                      | Mechanical spring   |
| Type of control                                   | Pilot-controlled  |
| Valve function                                    | 3-way proportional pressure control valve   |
| Display type                                      | LED   |
| Pressure regulation range MPa                     | 0.01 MPa ... 1 MPa  |
| Pressure regulation range                         | 0.1 bar ... 10 bar  |
| Inlet pressure 1                                  | 0 bar ... 11 bar  |
| Inlet pressure 1 MPa                              | 0 MPa ... 1.1 MPa   |
| Max. pressure hysteresis                          | 0.05 bar  |
| Normal nominal flow rate (normalized to DIN 1343) | 1400 l/min  |
| DC operating voltage range                        | 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 as per ISO 8573-1:2010 [7:4:4]<br>Inert gas  |
| Information on operating and pilot media          | Operation with oil lubrication not possible   |
| Certification                                     | RCM compliance mark<br>c UL us - Listed (OL)  |
| KC characters                                     | KC EMC  |
| CE marking (see declaration of conformity)        | As per EU EMC directive<br>As per 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                     |
| Temperature of medium            | 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                               |
| Overall accuracy                 | 2.25 %FS                              |
| Temperature coefficient          | 0.04 %/K                              |
| Repetition accuracy FS           | 0.5 %                                 |
| Electrical connection            | Via sub-base                          |
| Type of mounting                 | With through-hole<br>With accessories |
| Pneumatic connection 1           | Sub-base                              |
| Pneumatic connection 2           | Sub-base                              |
| Pneumatic connection 3           | Sub-base                              |
| Note on materials                | RoHS-compliant                        |
| Housing material                 | Wrought aluminum alloy<br>Anodized    |