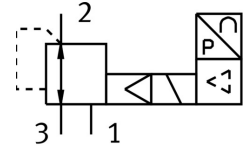


# Proportional-pressure regulator VPPM-6F-L-1-F-0L2H-V1N-S1

Part number: 542239

**FESTO**



 General operating condition

## Data sheet

| Feature                            | Value                                                                                                      |
|------------------------------------|------------------------------------------------------------------------------------------------------------|
| 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                                                                                |
| 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                   | Pilot actuated                                                                                             |
| Valve function                     | 3-way proportional pressure regulator                                                                      |
| Display type                       | LED                                                                                                        |
| 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         | 380 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 %                                                                                                       |
| Switching output                   | NPN                                                                                                        |
| Signal range analogue output       | 0 - 10 V                                                                                                   |
| Signal range analogue input        | 0 - 10 V                                                                                                   |
| 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                                                                                                     |

| Feature                                    | Value                                                       |
|--------------------------------------------|-------------------------------------------------------------|
| CE mark (see declaration of conformity)    | To EU EMC Directive<br>In accordance with EU RoHS Directive |
| CE marking (see declaration of conformity) | To UK instructions for EMC<br>To UK RoHS instructions       |
| 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                                       |
| Type of mounting                           | Either:<br>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                         |