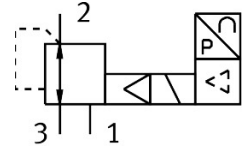


# Proportional-pressure regulator VPPM-12L-L-1-G12-OL10H-V1N-S1

Part number: 575235

**FESTO**



 [General operating condition](#)

## Data sheet

| Feature                                               | Value                                                                                                      |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Nominal size, supply                                  | 12 mm                                                                                                      |
| Nominal size, exhaust                                 | 12 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                             | 0.01 MPa ... 1 MPa                                                                                         |
| Pressure regulation range                             | 0.1 bar ... 10 bar                                                                                         |
| Inlet pressure 1                                      | 0 bar ... 11 bar                                                                                           |
| Inlet pressure 1                                      | 0 MPa ... 1.1 MPa                                                                                          |
| Max. pressure hysteresis                              | 0.05 bar                                                                                                   |
| Standard nominal flow rate (standardised to DIN 1343) | 7000 l/min                                                                                                 |
| Operational voltage range DC                          | 21.6 V ... 26.4 V                                                                                          |
| Max. current consumption                              | 500 mA                                                                                                     |
| Duty cycle                                            | 100%                                                                                                       |
| Max. electrical power consumption                     | 12 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 |
| UKCA 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                               | 2050 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                 | G1/2                                                        |
| Pneumatic connection, port 2                 | G1/2                                                        |
| Pneumatic connection, port 3                 | G1/2                                                        |
| Note on materials                            | RoHS-compliant                                              |
| Material housing                             | Anodised                                                    |