

# proportional pressure regulator VPPM-12L-L-1-G12-0L10H-V1P-S1C1

Part number: 575237

FESTO



## Data sheet

| Feature                                      | Value  |
|--|--|
| Nominal diameter, pressurisation             | 12 mm  |
| Nominal diameter, exhaust                    | 12 mm  |
| Type of actuation                            | electrical   |
| Sealing principle                            | soft   |
| Assembly position                            | Any  |
| Design structure                             | Pilot actuated diaphragm regulator   |
| Short circuit strength                       | for all electrical connections   |
| Safety instructions                          | VPPM safety position: If the power supply cable is interrupted, output pressure is maintained unregulated. |
| Polarity protected                           | for all electrical connections   |
| Type of reset                                | mechanical spring  |
| Type of piloting                             | Piloted  |
| Valve function                               | 3-way proportional-pressure regulator  |
| Type of display                              | Backlit LCD  |
| Pressure regulation range MPa                | 0.01 ... 1 MPa   |
| Pressure regulation range                    | 0.1 ... 10 bar   |
| Inlet pressure 1                             | 0 ... 11 bar   |
| Supply pressure 1 MPa                        | 0 ... 1.1 MPa  |
| Max. pressure hysteresis                     | 0.05 bar   |
| Standard nominal flow rate                   | 7,000 l/min  |
| Operating voltage range DC                   | 21.6 ... 26.4 V  |
| Max. current consumption                     | 500 mA   |
| Duty cycle                                   | 100 %  |
| Max. electrical power consumption            | 12 W   |
| Residual ripple                              | 10 %   |
| Switch output                                | PNP  |
| Signal range, analogue output                | 0 - 10 V   |
| Signal range, analogue input                 | 0 - 10 V   |
| Operating medium                             | Compressed air in accordance with ISO8573-1:2010 [7:4:4]<br>Inert gases                                    |
| Note on operating and pilot medium           | Lubricated operation not possible  |
| Authorisation                                | RCM Mark<br>c UL us - Listed (OL)  |
| KC mark                                      | KC-EMV   |
| CE mark (see declaration of conformity)      | to EU directive for EMC<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 department               | UL E322346   |
| Corrosion resistance classification CRC      | 2 - Moderate corrosion stress  |
| PWIS conformity                              | VDMA24364-B1/B2-L  |
| Medium temperature                           | 10 ... 50 °C   |
| Protection class                             | IP65   |
| Ambient temperature                          | 0 ... 50 °C  |
| Product weight                               | 2,050 g  |
| Linearity                                    | 1 %FS  |

| Feature                      | Value   |
|------------------------------|---|
| Hysteresis                   | 0.5 %FS   |
| Reproducibility              | 0.5 %FS   |
| Overall accuracy             | 1,25 %FS  |
| Temperature coefficient      | 0.04 %/K  |
| FS repetition accuracy       | 0.5 %   |
| Electrical connection        | 8-pin<br>M12<br>Plug                              |
| Mounting type                | with through hole<br>with accessories<br>Optional |
| Pneumatic connection, port 1 | G1/2  |
| Pneumatic connection, port 2 | G1/2  |
| Pneumatic connection, port 3 | G1/2  |
| Materials note               | Conforms to RoHS                                  |
| Material housing             | Wrought Aluminium alloy<br>Anodised               |