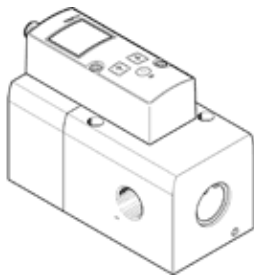


# proportional pressure regulator VPPM-12L-L-1-G12-0L10H-V1P-S1C1

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               | 0.1 ... 10 bar   |
| Inlet pressure 1                        | 0 ... 11 bar   |
| 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  |
| Corrosion resistance classification CRC | 2 - Moderate corrosion stress  |
| Medium temperature                      | 10 ... 50 °C   |
| Protection class                        | IP65   |
| Ambient temperature                     | 0 ... 50 °C  |
| Product weight                          | 2,050 g  |
| Linearity error, FS                     | 1 %  |
| 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  |

| Feature                      | Value                               |
|------------------------------|-------------------------------------|
|                              | 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 |