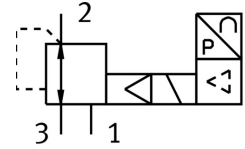


# Proportional-pressure regulator MPPE-3-1/2-1-010-B

Part number: 161172

**FESTO**



 General operating condition

## Data sheet

| Feature                                    | Value                                                                                                        |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Nominal size, supply                       | 11 mm                                                                                                        |
| Nominal size, exhaust                      | 12 mm                                                                                                        |
| Type of actuation                          | Electric                                                                                                     |
| Sealing principle                          | Soft                                                                                                         |
| Mounting position                          | optional                                                                                                     |
| Design                                     | Piloted piston regulator                                                                                     |
| Short circuit current rating               | For all electrical connections                                                                               |
| Safety instructions                        | Safety position MPPE-B: if the power supply cable is interrupted, output pressure is maintained unregulated. |
| Symbol                                     | 00995303                                                                                                     |
| Reverse polarity protection                | For all electrical connections                                                                               |
| Valve function                             | 3-way proportional-pressure regulator, closed                                                                |
| Operating pressure                         | ≤0.2 MPa                                                                                                     |
| Operating pressure                         | ≤2 bar                                                                                                       |
| Pressure regulation range                  | 0 MPa ... 0.1 MPa                                                                                            |
| Pressure regulation range                  | 0 bar ... 1 bar                                                                                              |
| Inlet pressure 1                           | 1.5 bar ... 2 bar                                                                                            |
| Inlet pressure 1                           | 0.15 MPa ... 0.2 MPa                                                                                         |
| Max. pressure hysteresis                   | 0.003 MPa                                                                                                    |
| Max. pressure hysteresis                   | 0.03 bar                                                                                                     |
| Switching time off                         | 500 ms                                                                                                       |
| Switching time on                          | 70 ms                                                                                                        |
| Operational voltage range DC               | 18 V ... 30 V                                                                                                |
| Reference voltage                          | 10 V                                                                                                         |
| Residual ripple                            | 10 %                                                                                                         |
| SETPOINT/ACTUAL values                     | Voltage type 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 possible (in which case lubricated operation will always be required)                   |
| Approval                                   | RCM trademark                                                                                                |
| KC mark                                    | KC-EMV                                                                                                       |
| 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                                                        |

| Feature                        | Value                                                      |
|--------------------------------|------------------------------------------------------------|
| Corrosion resistance class CRC | 2 - Moderate corrosion stress                              |
| LABS (PWIS) conformity         | VDMA24364-B2-L                                             |
| Media temperature              | 0 °C ... 60 °C                                             |
| Degree of protection           | IP65                                                       |
| Ambient temperature            | 0 °C ... 50 °C                                             |
| Product weight                 | 2400 g                                                     |
| Electrical connection          | 8-pin<br>M16x0.75<br>Plugs<br>To DIN 45326<br>Round design |
| Type of mounting               | With through-hole                                          |
| 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               | Wrought aluminium alloy                                    |
| Material membrane              | NBR                                                        |