

# Proportional-pressure regulator MPPE-3-1/4-2,5-420-B

Part number: 164318

**FESTO**



## Data sheet

| Feature                                 | Value  |
|---|--|
| Nominal size, supply                    | 7 mm   |
| Nominal size, exhaust                   | 7 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. |
| Reverse polarity protection             | For all electrical connections   |
| Valve function                          | 3-way proportional-pressure regulator, closed  |
| Operating pressure                      | 0.45 MPa<br>4.5 bar  |
| Pressure regulation range               | 0 MPa...0.25 MPa<br>0 bar...2.5 bar  |
| Inlet pressure 1                        | 3.5 bar...4.5 bar<br>0.35 MPa...0.45 MPa   |
| Max. pressure hysteresis                | 0.004 MPa<br>0.04 bar  |
| Switching time off                      | 260 ms   |
| Switching time on                       | 150 ms   |
| Operational voltage range DC            | 18 V...30 V  |
| Reference voltage                       | 10 V   |
| Residual ripple                         | 10 %   |
| SETPOINT/ACTUAL values                  | Current type 4-20 mA   |
| 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  |

| Feature                                    | Value  |
|--|--|
| CE marking (see declaration of conformity) | To UK instructions for EMC<br>To UK RoHS instructions      |
| 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                             | 920 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               | G1/4   |
| Pneumatic connection, port 2               | G1/4   |
| Pneumatic connection, port 3               | G1/4   |
| Note on materials                          | RoHS-compliant   |
| Material housing                           | Wrought aluminium alloy                                    |
| Material membrane                          | NBR  |