

Proportional pressure regulator

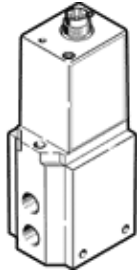
MPPE-3-1/4-1-420-B

Part number: 161169

Classic - do not use for new projects

Modern alternatives can be found by entering the first four characters of the type code in the search field.

FESTO



Data sheet

| Feature | Value |
|--|---|
| Nominal diameter, pressurization | 7 mm |
| Nominal diameter, exhaust | 7 mm |
| Type of actuation | electrical |
| Sealing principle | soft |
| Assembly position | Any |
| Design structure | Piloted piston regulator |
| Short circuit strength | for all electrical connections |
| Safety instructions | MPPE-B safety position: If the power supply cable is interrupted, output pressure is maintained unregulated |
| Polarity protected | for all electrical connections |
| Valve function | 3-way closed proportional-pressure regulator |
| Operating pressure MPa | ≤ 0.2 MPa |
| Working pressure | ≤ 2 bar |
| Pressure regulation range MPa | 0 ... 0.1 MPa |
| Pressure regulation range | 0 ... 1 bar |
| Inlet pressure 1 | 1.5 ... 2 bar |
| Supply pressure 1 MPa | 0.15 ... 0.2 MPa |
| Max. pressure hysteresis (MPa) | 0.003 MPa |
| Max. pressure hysteresis | 0.03 bar |
| Switching time off | 225 ms |
| Switching time on | 140 ms |
| Operating voltage range DC | 18 ... 30 V |
| Reference voltage | 10 V |
| Residual ripple | 10 % |
| SETPOINT/ACTUAL values | Current type 4 - 20 mA |
| Operating medium | Compressed air in accordance with ISO8573-1:2010 [7:4:4] Inert gases |
| Note on operating and pilot medium | Lubricated operation possible (subsequently required for further operation) |
| Authorization | RCM Mark |
| KC mark | KC-EMV |
| CE symbol (see declaration of conformity) | according to EU-EMV guideline in accordance with EU RoHS directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC To UK RoHS instructions |
| Corrosion resistance classification CRC | 2 - Moderate corrosion stress |
| PWIS conformity | VDMA24364-B2-L |
| Medium temperature | 0 ... 60 °C |
| Protection class | IP65 |
| Ambient temperature | 0 ... 50 °C |
| Product weight | 118 g |
| Electrical connection | 8-pin M16x0,75 |

| Feature | Value |
|------------------------------|--------------------------------------|
| | Plug to DIN 45326 Round design |
| Mounting type | with through hole |
| Pneumatic connection, port 1 | G1/4 |
| Pneumatic connection, port 2 | G1/4 |
| Pneumatic connection, port 3 | G1/4 |
| Materials note | Conforms to RoHS |
| Material housing | Wrought Aluminum alloy |
| Material membrane | NBR |