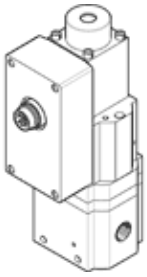
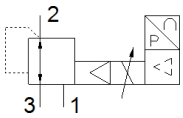
# proportional pressure regulator
# MPPES-3-1/4-PU-PO-420

Part number: 187744






## Data sheet

| Feature | Value |
|---|---|
| Nominal diameter, pressurisation | 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 | Safety position of MPPES |
| Polarity protected | for all electrical connections |
| Valve function | 3-way closed proportional-pressure regulator |
| Operating pressure MPa | <= 1.2 MPa |
| Operating pressure | <= 12 bar |
| Pressure regulation range MPa | 0 ... 1 MPa |
| Pressure regulation range | 0 ... 10 bar |
| Inlet pressure 1 | 11 ... 12 bar |
| Supply pressure 1 MPa | 1.1 ... 1.2 MPa |
| Max. pressure hysteresis (MPa) | 0.005 MPa |
| Max. pressure hysteresis | 0.05 bar |
| Switching time off | 890 ms |
| Switching time on | 200 ms |
| Operating voltage range DC | 18 ... 30 V |
| Nominal operating voltage DC | 24 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]<br>Inert gases |
| Note on operating and pilot medium | Lubricated operation possible (subsequently required for further operation) |
| Authorisation | RCM Mark |
| 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 |
| 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 | 1,310 g |
| Electrical connection | 8-pin<br>M16x0,75<br>Plug<br>to DIN 45326<br>Round design |
| Mounting type | with through hole |

| Feature | Value |
|---|---|
| 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 Aluminium alloy |
| Material membrane | NBR |