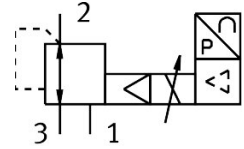


# Proportional pressure control valve MPPE-3-1/2-PU-PO-420

Part number: 187735

**FESTO**



## Data sheet

| Feature                                      | Value                                                                                           |
|----------------------------------------------|-------------------------------------------------------------------------------------------------|
| Nominal width pressurization                 | 11 mm                                                                                           |
| Exhaust nominal width                        | 12 mm                                                                                           |
| Actuation type                               | Electrical                                                                                      |
| Sealing principle                            | Soft                                                                                            |
| Mounting position                            | Any                                                                                             |
| Structural design                            | Pilot-controlled piston control valve                                                           |
| Short-circuit protection                     | For all electrical connections                                                                  |
| Safety instructions                          | MPPE safety position: if the power supply cable breaks, the outlet pressure will drop to 0 bar. |
| Reverse polarity protection                  | for all electrical connections                                                                  |
| Valve function                               | 3-way proportional pressure control valve closed                                                |
| Operating pressure                           | 1.2 MPa<br>12 bar                                                                               |
| Pressure regulation range MPa                | 0 MPa...1 MPa                                                                                   |
| Pressure regulation range                    | 0 bar...10 bar                                                                                  |
| Inlet pressure 1                             | 11 bar...12 bar                                                                                 |
| Inlet pressure 1 MPa                         | 1.1 MPa...1.2 MPa                                                                               |
| Max. pressure hysteresis                     | 0.005 MPa<br>0.05 bar                                                                           |
| Switching time off                           | 1000 ms                                                                                         |
| On switching time                            | 230 ms                                                                                          |
| DC operating voltage range                   | 18 V...30 V                                                                                     |
| Nominal operating voltage DC                 | 24 V                                                                                            |
| Residual ripple                              | 10%                                                                                             |
| Setpoint/actual values                       | Current type 4–20 mA                                                                            |
| Operating medium                             | Compressed air as per ISO 8573-1:2010 [7:4:4]<br>Inert gases                                    |
| Information on operating and pilot media     | Operation with oil lubrication possible (required for further use)                              |
| Certification                                | RCM compliance mark                                                                             |
| KC characters                                | KC-EMV                                                                                          |
| CE marking (see declaration of conformity)   | As per EU EMC directive<br>As per EU RoHS directive                                             |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC                                                                      |

| Feature                          | Value                                                         |
|----------------------------------|---------------------------------------------------------------|
|                                  | To UK RoHS instructions                                       |
| Corrosion resistance class (CRC) | 2 - Moderate corrosion stress                                 |
| LABS (PWIS) conformity           | VDMA24364-B2-L                                                |
| Temperature of medium            | 0 °C...60 °C                                                  |
| Degree of protection             | IP65                                                          |
| Ambient temperature              | 0 °C...50 °C                                                  |
| Product weight                   | 2670 g                                                        |
| Electrical connection            | 8-pin<br>M16x0.75<br>Plug<br>As per DIN 45326<br>Round design |
| Type of mounting                 | With through-hole                                             |
| Pneumatic connection 1           | G1/2                                                          |
| Pneumatic connection 2           | G1/2                                                          |
| Pneumatic connection 3           | G1/2                                                          |
| Note on materials                | RoHS compliant                                                |
| Housing material                 | Wrought aluminum alloy                                        |
| Diaphragm material               | NBR                                                           |