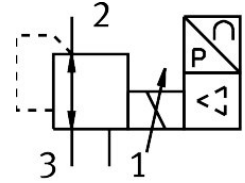


# Proportional pressure control valve MPPE-3-1/8-2-420

Part number: 187351

**FESTO**



## Data sheet

| Feature                                    | Value                                                                                           |
|--------------------------------------------|-------------------------------------------------------------------------------------------------|
| Nominal width pressurization               | 3 mm                                                                                            |
| Exhaust nominal width                      | 2 mm                                                                                            |
| Actuation type                             | Electrical                                                                                      |
| Sealing principle                          | Soft                                                                                            |
| Mounting position                          | Any                                                                                             |
| Structural design                          | Directly controlled piston regulator                                                            |
| 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                         | 0.4 MPa<br>4 bar                                                                                |
| Pressure regulation range MPa              | 0 MPa...0.2 MPa                                                                                 |
| Pressure regulation range                  | 0 bar...2 bar                                                                                   |
| Inlet pressure 1                           | 3 bar...4 bar                                                                                   |
| Inlet pressure 1 MPa                       | 0.3 MPa...0.4 MPa                                                                               |
| Max. pressure hysteresis                   | 0.001 MPa<br>0.01 bar                                                                           |
| Switching time off                         | 410 ms                                                                                          |
| On switching time                          | 220 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                                             |

| Feature                                      | Value                                                         |
|----------------------------------------------|---------------------------------------------------------------|
| UKCA 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                                                |
| Temperature of medium                        | 0 °C...60 °C                                                  |
| Degree of protection                         | IP65                                                          |
| Ambient temperature                          | 0 °C...50 °C                                                  |
| Product weight                               | 915 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                       | G1/8                                                          |
| Pneumatic connection 2                       | G1/8                                                          |
| Pneumatic connection 3                       | G1/8                                                          |
| Note on materials                            | RoHS compliant                                                |
| Housing material                             | Wrought aluminum alloy                                        |
| Diaphragm material                           | NBR                                                           |