

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

Part number: 187351

FESTO



 General operating condition

## 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                          | MPPES safety position: if the power supply cable breaks, the outlet pressure will drop to 0 bar. |
| Symbol                                       | 00995305   |
| Reverse polarity protection                  | for all electrical connections   |
| Valve function                               | 3-way proportional pressure control valve closed   |
| Operating pressure                           | ≤0.4 MPa   |
| Operating pressure                           | ≤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  |
| Max. pressure hysteresis                     | 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 EMC   |
| 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 RoHS instructions  |
| Corrosion resistance class (CRC)             | 2 - Moderate corrosion stress  |

| <b>Feature</b>         | <b>Value</b>   |
|------------------------|--|
| 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  | 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  |