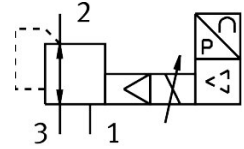


# Proportional pressure control valve MPPE-3-1/4-2-420

Part number: 187336

**FESTO**



[General operating condition](#)

## Data sheet

| Feature                                      | Value                                                                                            |
|----------------------------------------------|--------------------------------------------------------------------------------------------------|
| Nominal width pressurization                 | 7 mm                                                                                             |
| Exhaust nominal width                        | 7 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                          | MPPES safety position: if the power supply cable breaks, the outlet pressure will drop to 0 bar. |
| Symbol                                       | 00995304                                                                                         |
| 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                     | 0.005 MPa                                                                                        |
| Max. pressure hysteresis                     | 0.05 bar                                                                                         |
| Switching time off                           | 890 ms                                                                                           |
| On switching time                            | 200 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 gas                                       |
| 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 instructions for EMC<br>To UK RoHS instructions                                            |
| Corrosion resistance class (CRC)             | 2 - Moderate corrosion stress                                                                    |

| Feature                | Value                                                         |
|------------------------|---------------------------------------------------------------|
| 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         | 1310 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 | G1/4                                                          |
| Pneumatic connection 2 | G1/4                                                          |
| Pneumatic connection 3 | G1/4                                                          |
| Note on materials      | RoHS-compliant                                                |
| Housing material       | Wrought aluminum alloy                                        |
| Diaphragm material     | NBR                                                           |