

# Proportional pressure control valve MPPE-3-1/4-1-010-B

Part number: 161166

**FESTO**



## 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                        | MPPE-B safety position: if the supply cable breaks, the outlet pressure is maintained in uncontrolled form. |
| Reverse polarity protection                | for all electrical connections  |
| Valve function                             | 3-way proportional pressure control valve closed  |
| Operating pressure                         | 0.2 MPa<br>2 bar  |
| Pressure regulation range MPa              | 0 MPa...0.1 MPa   |
| Pressure regulation range                  | 0 bar...1 bar   |
| Inlet pressure 1                           | 1.5 bar...2 bar   |
| Inlet pressure 1 MPa                       | 0.15 MPa...0.2 MPa  |
| Max. pressure hysteresis                   | 0.003 MPa<br>0.03 bar   |
| Switching time off                         | 225 ms  |
| On switching time                          | 140 ms  |
| DC operating voltage range                 | 18 V...30 V   |
| Reference voltage                          | 10 V  |
| Residual ripple                            | 10 %  |
| Setpoint/actual values                     | Voltage type 0 - 10 V   |
| 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   |

| 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                               | 920 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   |