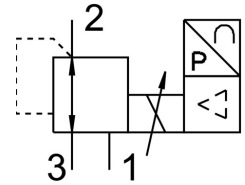


# Proportional pressure control valve MPPE-3-1/8-6-420

Part number: 187353

**FESTO**



## Data sheet

| Feature                                    | Value                                                                                           |
|--------------------------------------------|-------------------------------------------------------------------------------------------------|
| Nominal width pressurization               | 3 mm                                                                                            |
| Exhaust nominal width                      | 2 mm                                                                                            |
| Type code                                  | MPPE-3                                                                                          |
| 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. |
| Symbol                                     | 00995305                                                                                        |
| Reverse polarity protection                | for all electrical connections                                                                  |
| Valve function                             | 3-way proportional pressure control valve closed                                                |
| Operating pressure                         | ≤0.8 MPa                                                                                        |
| Operating pressure                         | ≤8 bar                                                                                          |
| Pressure regulation range MPa              | 0 MPa ... 0.6 MPa                                                                               |
| Pressure regulation range                  | 0 bar ... 6 bar                                                                                 |
| Inlet pressure 1                           | 7 bar ... 8 bar                                                                                 |
| Inlet pressure 1 MPa                       | 0.7 MPa ... 0.8 MPa                                                                             |
| Max. pressure hysteresis                   | 0.001 MPa                                                                                       |
| Max. pressure hysteresis                   | 0.01 bar                                                                                        |
| Switching time off                         | 280 ms                                                                                          |
| On switching time                          | 210 ms                                                                                          |
| DC operating voltage range                 | 18 V ... 30 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                                                                         |
| Corrosion resistance class (CRC)           | 2 - Moderate corrosion stress                                                                   |
| LABS conformity                            | VDMA24364-B2-L                                                                                  |
| Temperature of medium                      | 0 °C ... 60 °C                                                                                  |
| Degree of protection                       | IP65                                                                                            |

| Feature                | Value                                                         |
|------------------------|---------------------------------------------------------------|
| 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                                                           |