

# Proportional pressure control valve VPPM-8L-L-1-G14-0L10H-A4P-S1

FESTO

Part number: 571289



General operating condition

## Data sheet

| Feature   | Value   |
|---|---|
| Nominal width pressurization                      | 8 mm  |
| Exhaust nominal width                             | 7 mm  |
| Actuation type                                    | Electrical  |
| Sealing principle                                 | Soft  |
| Mounting position                                 | Any   |
| Structural design                                 | Pilot-controlled diaphragm regulator  |
| Short-circuit protection                          | For all electrical connections  |
| Safety instructions                               | VPPM safety position: if the supply cable breaks, the outlet pressure is maintained in uncontrolled form. |
| Symbol  | 00995303  |
| Reverse polarity protection                       | for all electrical connections  |
| Reset method                                      | Mechanical spring   |
| Type of control                                   | Pilot-controlled  |
| Valve function                                    | 3-way proportional pressure control valve   |
| Display type                                      | LED   |
| Pressure regulation range MPa                     | 0.01 MPa ... 1 MPa  |
| Pressure regulation range                         | 0.1 bar ... 10 bar  |
| Inlet pressure 1                                  | 0 bar ... 11 bar  |
| Inlet pressure 1 MPa                              | 0 MPa ... 1.1 MPa   |
| Max. pressure hysteresis                          | 0.05 bar  |
| Normal nominal flow rate (normalized to DIN 1343) | 2750 l/min  |
| DC operating voltage range                        | 21.6 V ... 26.4 V   |
| Max. current consumption                          | 300 mA  |
| Duty cycle  | 100%  |
| Max. electrical power consumption                 | 7 W   |
| Residual ripple                                   | 10 %  |
| Switching output                                  | PNP   |
| Analog output signal range                        | 4 - 20 mA   |
| Precision analog output in ± %FS                  | 2 %FS   |
| Analog input signal range                         | 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 not possible   |
| Certification                                     | RCM compliance mark<br>c UL us - Listed (OL)  |
| KC characters                                     | KC EMC  |

| Feature                                      | Value   |
|--|---|
| 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                             |
| Certificate issuing authority                | UL E322346  |
| Corrosion resistance class (CRC)             | 2 - Moderate corrosion stress                       |
| LABS (PWIS) conformity                       | VDMA24364-B1/B2-L                                   |
| Temperature of medium                        | 10 °C ... 50 °C                                     |
| Degree of protection                         | IP65  |
| Ambient temperature                          | 0 °C ... 60 °C                                      |
| Product weight                               | 560 g   |
| Linearity                                    | 1 %FS   |
| Hysteresis                                   | 0.5 %FS   |
| Reproducibility                              | 0.5 %FS   |
| Overall accuracy                             | 1.25 %FS  |
| Temperature coefficient                      | 0.04 %/K  |
| Repetition accuracy FS                       | 0.5 %   |
| Electrical connection                        | M12<br>Plug   |
| Type of mounting                             | With through-hole<br>With accessories               |
| 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<br>Anodized                  |