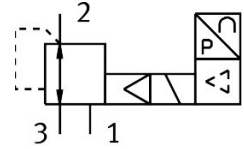


# Proportional pressure control valve VPPM-6TA-L-1-F-0L6H

Part number: 542221

**FESTO**



[General operating condition](#)

## Data sheet

| Feature                                      | Value                                                                                                     |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Nominal width pressurization                 | 6 mm                                                                                                      |
| Exhaust nominal width                        | 4.5 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                | 0.006 MPa ... 0.6 MPa                                                                                     |
| Pressure regulation range                    | 0.06 bar ... 6 bar                                                                                        |
| Inlet pressure 1                             | 0 bar ... 8 bar                                                                                           |
| Inlet pressure 1 MPa                         | 0 MPa ... 0.8 MPa                                                                                         |
| Max. pressure hysteresis                     | 0.03 bar                                                                                                  |
| Standard nominal flow rate                   | 900 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 %                                                                                                      |
| 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 not possible                                                               |
| Certification                                | RCM compliance mark<br>c UL us - Listed (OL)                                                              |
| 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                                                     |

| Feature                          | Value                                                |
|----------------------------------|------------------------------------------------------|
| 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                   | 400 g                                                |
| Linearity                        | 1 %FS                                                |
| Hysteresis                       | 0.5 %FS                                              |
| Reproducibility                  | 0.5 %FS                                              |
| Overall accuracy                 | 2.25 %FS                                             |
| Temperature coefficient          | 0.04 %/K                                             |
| Repetition accuracy FS           | 0.5 %                                                |
| Electrical connection            | Via sub-base                                         |
| Type of mounting                 | Optionally:<br>With through-hole<br>With accessories |
| Pneumatic connection 1           | Sub-base                                             |
| Pneumatic connection 2           | Sub-base                                             |
| Pneumatic connection 3           | Sub-base                                             |
| Note on materials                | RoHS-compliant                                       |
| Housing material                 | Wrought aluminum alloy<br>Anodized                   |