

# Proportional pressure control valve VPPM-6L-L-1-G18-0L10H-V1P-S1

Part number: 554040

**FESTO**



## Data sheet

| Feature                                    | Value                                                                                                     |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Nominal width pressurization               | 6 mm                                                                                                      |
| Exhaust nominal width                      | 4.5 mm                                                                                                    |
| Type code                                  | VPPM                                                                                                      |
| 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                  | 0.1 bar ... 10 bar                                                                                        |
| Inlet pressure 1                           | 0 bar ... 11 bar                                                                                          |
| Max. pressure hysteresis                   | 0.05 bar                                                                                                  |
| Standard nominal flow rate                 | 1400 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                 | 0 - 10 V                                                                                                  |
| Analog input signal range                  | 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 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                                                                                   |
| Corrosion resistance class (CRC)           | 2 - Moderate corrosion stress                                                                             |

| Feature                 | Value                                                |
|-------------------------|------------------------------------------------------|
| Temperature of medium   | 10 °C ... 50 °C                                      |
| Degree of protection    | IP65                                                 |
| Ambient temperature     | 0 °C ... 60 °C                                       |
| Product weight          | 400 g                                                |
| Linearity error FS      | 1 %                                                  |
| Temperature coefficient | 0.04 %/K                                             |
| Repetition accuracy FS  | 0.5 %                                                |
| Electrical connection   | 8-pin<br>M12<br>Plug                                 |
| Type of mounting        | Optionally:<br>With through-hole<br>With accessories |
| 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<br>Anodized                   |