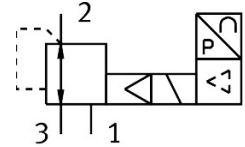


# Proportional-pressure regulator VPPX-8F-L-1-F-0L10H-S1

Part number: 570970

**FESTO**



[General operating condition](#)

## Data sheet

| Feature                                               | Value                                                                                                      |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Nominal size, supply                                  | 8 mm                                                                                                       |
| Nominal size, exhaust                                 | 7 mm                                                                                                       |
| Type of actuation                                     | Electric                                                                                                   |
| Sealing principle                                     | Soft                                                                                                       |
| Mounting position                                     | optional                                                                                                   |
| Design                                                | Piloted diaphragm regulator                                                                                |
| Short circuit current rating                          | For all electrical connections                                                                             |
| Safety instructions                                   | Safety position VPPX: if the power supply cable is interrupted, output pressure is maintained unregulated. |
| Symbol                                                | 00995303                                                                                                   |
| Reverse polarity protection                           | For all electrical connections                                                                             |
| Type of reset                                         | Mechanical spring                                                                                          |
| Type of piloting                                      | Pilot actuated                                                                                             |
| Valve function                                        | 3-way proportional pressure regulator                                                                      |
| 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 (standardised to DIN 1343) | 1650 l/min                                                                                                 |
| Operational voltage range DC                          | 21.6 V ... 26.4 V                                                                                          |
| Max. current consumption                              | 300 mA                                                                                                     |
| Duty cycle                                            | 100%                                                                                                       |
| Max. electrical power consumption                     | 7 W                                                                                                        |
| Residual ripple                                       | 10 %                                                                                                       |
| Signal range analogue output                          | 0 - 10 V<br>0 - 20 mA<br>4 - 20 mA                                                                         |
| Signal range analogue input                           | 0 - 10 V<br>4 - 20 mA<br>0 - 20 mA                                                                         |
| Operating medium                                      | Compressed air to ISO 8573-1:2010 [7:4:4]<br>Inert gases                                                   |
| Note on operating and pilot medium                    | Lubricated operation not possible                                                                          |
| Approval                                              | RCM trademark<br>c UL us listed (OL)                                                                       |
| KC mark                                               | KC-EMV                                                                                                     |

| Feature                                      | Value                                                       |
|----------------------------------------------|-------------------------------------------------------------|
| CE mark (see declaration of conformity)      | To EU EMC Directive<br>In accordance with EU RoHS Directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC<br>To UK RoHS instructions       |
| Certificate issuing authority                | UL E322346                                                  |
| Corrosion resistance class CRC               | 2 - Moderate corrosion stress                               |
| LABS (PWIS) conformity                       | VDMA24364-B1/B2-L                                           |
| Media temperature                            | 10 °C ... 50 °C                                             |
| Degree of protection                         | IP65                                                        |
| Ambient temperature                          | 0 °C ... 60 °C                                              |
| Product weight                               | 560 g                                                       |
| Temperature coefficient                      | 0.04 %/K                                                    |
| Repetition accuracy FS                       | 0.5 %                                                       |
| Repetition accuracy in ± %FS                 | 0.5 %FS                                                     |
| Electrical connection                        | 8-pin<br>M12<br>Plugs                                       |
| Type of mounting                             | Either:<br>With through-hole<br>With accessories            |
| Pneumatic connection, port 1                 | Sub-base                                                    |
| Pneumatic connection, port 2                 | Sub-base                                                    |
| Pneumatic connection, port 3                 | Sub-base                                                    |
| Note on materials                            | RoHS-compliant                                              |
| Material housing                             | Anodised                                                    |