

Proportional-pressure regulator VPPM-12L-L-1-G12-0L2H-LK-S1

FESTO

Part number: 8024264



General operating condition

Data sheet

| Feature | Value |
|---|--|
| Nominal size, supply | 12 mm |
| Nominal size, exhaust | 12 mm |
| Type of actuation | Electrical |
| Sealing principle | Soft |
| Mounting position | Any |
| Design | Piloted diaphragm regulator |
| Short circuit current rating | For all electrical connections |
| Safety instructions | Safety position VPPM: 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 | Piloted |
| Valve function | 3-way proportional pressure regulator |
| Display type | LED |
| Pressure regulation range | 0.002 MPa ... 0.2 MPa |
| Pressure regulation range | 0.02 bar ... 2 bar |
| Inlet pressure 1 | 0 bar ... 4 bar |
| Inlet pressure 1 | 0 MPa ... 0.4 MPa |
| Max. pressure hysteresis | 0.01 bar |
| Standard nominal flow rate (standardised to DIN 1343) | 1900 l/min |
| Operational voltage range DC | 18 V ... 30 V |
| Max. current consumption | 500 mA |
| Duty cycle | 100% |
| Max. electrical power consumption | 12 W |
| Protocol | I-Port IO-Link® |
| Residual ripple | 10% |
| Operating medium | Compressed air to ISO 8573-1:2010 [7:4:4] Inert gas |
| Note on operating and pilot medium | Lubricated operation not possible |
| Approval | RCM c UL us - Listed (Oil) |
| KC mark | KC-EMV |
| CE mark (see declaration of conformity) | To EU EMC Directive In accordance with EU RoHS Directive |

| Feature | Value |
|--|--|
| 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 |
| Media temperature | 10 °C ... 50 °C |
| Degree of protection | IP65 |
| Ambient temperature | 0 °C ... 60 °C |
| Product weight | 2050 g |
| Linearity | 1 %FS |
| Hysteresis | 0.5 %FS |
| Reproducibility | 0.5 %FS |
| Total accuracy | 1.25 %FS |
| Temperature coefficient | 0.04 %/K |
| Repetition accuracy FS | 0.5 % |
| IO-Link, Protocol version | Device V 1.1 |
| IO-Link, communication mode | COM1 (4.8 kB), COM2 (38.4 kB), COM3 (230.4 kB) |
| IO-Link, Port class | A |
| IO-Link, Process data length OUT | 2 bytes |
| IO-Link, Process data length IN | 2 bytes |
| IO-Link, Min. cycle time | 0.5 ms |
| Type of mounting | With through-hole With accessories |
| Pneumatic connection, port 1 | G1/2 |
| Pneumatic connection, port 2 | G1/2 |
| Pneumatic connection, port 3 | G1/2 |
| Note on materials | RoHS compliant |
| Material housing | Wrought aluminium alloy anodised |