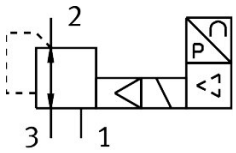
# Proportional pressure control valve
# VPPM-6L-L-1-G18-0L10H-V1N

Part number: 542235






## 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. |
| Reverse polarity protection | for all electrical connections |
| Reset method | Mechanical spring |
| Type of control | Piloted |
| 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) | 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 | NPN |
| Analog output signal range | 0 - 10 V |
| Precision analog output in ± %FS | 2 %FS |
| Analog input signal range | 0 - 10 V |
| 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 |

| Feature | Value |
|---|---|
| Certification | RCM compliance mark<br>c UL us - Listed (OL) |
| KC characters | KC-EMV |
| 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 |
| 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 | 8-pin<br>M12<br>Plug |
| Type of mounting | Alternatively:<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 |