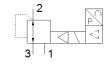
proportional pressure regulator VPPE-3-1-1/8-10-420-E1 Part number: 557776







Data sheet

| Feature | Value |
|---|--|
| Nominal diameter, pressurisation | 5 mm |
| Nominal diameter, exhaust | 2.5 mm |
| Type of actuation | electrical |
| Sealing principle | soft |
| Assembly position | Any |
| · · · · · · · · · · · · · · · · · · · | Preferably upright |
| Design structure | Pilot actuated diaphragm regulator |
| Short circuit strength | for all electrical connections |
| Safety instructions | VPPE safety position: If the power supply cable is interrupted, output |
| | pressure is maintained unregulated. |
| Polarity protected | for all electrical connections |
| Type of reset | mechanical spring |
| Type of piloting | Piloted |
| Valve function | 3-way proportional-pressure regulator |
| Type of display | LED display |
| | 3-digit |
| Pressure regulation range | 0.1 10 bar |
| Inlet pressure 1 | 6 11 bar |
| Max. pressure hysteresis | 0.05 bar |
| Standard nominal flow rate | 1,250 l/min |
| Operating voltage range DC | 21.6 26.4 V |
| Max. current consumption | 160 mA |
| Duty cycle | 100 % |
| Max. electrical power consumption | 4.2 W |
| Residual ripple | 10 % |
| Switch output | PNP |
| Signal range, analogue output | 4 - 20 mA |
| Signal range, analogue input | 4 - 20 mA |
| Operating medium | Compressed air in accordance with ISO8573-1:2010 [7:4:4] |
| | Inert gases |
| Note on operating and pilot medium | Lubricated operation not possible |
| Authorisation | RCM Mark |
| | c UL us - Listed (OL) |
| KC mark | KC-EMV |
| CE mark (see declaration of conformity) | to EU directive for EMC |
| Corrosion resistance classification CRC | 2 - Moderate corrosion stress |
| Medium temperature | 10 50 °C |
| Protection class | IP65 |
| Ambient temperature | 0 60 °C |
| Product weight | 390 g |
| Linearity error in ± %FS | 1 %FS |
| Temperature coefficient | 0.04 %/K |
| Repetition accuracy in ± %FS | 0.5 %FS |
| Electrical connection | 5-pin |
| | M12 |
| | Plug |



| Feature | Value |
|------------------------------|-------------------------|
| Mounting type | with through hole |
| Pneumatic connection, port 1 | G1/8 |
| Pneumatic connection, port 2 | G1/8 |
| Pneumatic connection, port 3 | G1/8 |
| Materials note | Free of copper and PTFE |
| | Conforms to RoHS |
| Material housing | Wrought Aluminium alloy |
| | Anodised |