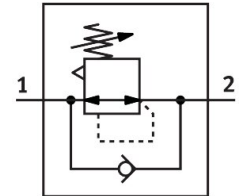


Pressure regulator MS9-LR

Part number: 562530

FESTO



 General operating condition

Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature | Value |
|---|---|
| Size | 9 |
| Series | MS |
| Actuator lock | Rotary knob with detent Rotary knob with integrated lock can be closed with accessories |
| Mounting position | Any Preferably vertical |
| Design | Directly actuated diaphragm regulator Piloted diaphragm regulator Piloted precision pressure regulator |
| Controller function | Output pressure constant With primary pressure compensation With secondary exhausting With return flow function Without secondary exhaust |
| Symbol | 00991533 00991536 00991900 00995303 |
| Pressure gauge (ANALOG) or Pressure display (DIGITAL) | Prepared for G1/4 Prepared for G1/8 Red/green scale With pressure sensor With pressure gauge with gear indicator |
| Operating pressure | 1 bar ... 20 bar |
| Pressure regulation range | 0.1 bar ... 16 bar |
| Max. pressure hysteresis | 0.05 bar ... 0.4 bar |
| Max. standard flow rate | 32000 l/min |
| Standard nominal flow rate (standardised to DIN 1343) | 11000 l/min ... 30000 l/min |
| Operational voltage range DC | 21.6 V ... 26.4 V |
| Max. electrical power consumption | 4.2 W |
| Max. current consumption | 0.16 A |
| Nominal operating voltage DC | 24 V |
| Residual ripple | 10% |
| Signal range analogue input | 0 - 10 V 4 - 20 mA |
| Approval | c UL us - Recognised (Oil) |

| Feature | Value |
|---|---|
| CE mark (see declaration of conformity) | To EU Explosion Protection Directive (ATEX) |
| UKCA marking (see declaration of conformity) | To UK EX instructions |
| Explosion protection certification outside the EU | EPL Db (GB) EPL Gb (GB) |
| Explosion protection | Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 22 (ATEX) |
| ATEX category gas | II 2G |
| ATEX category dust | II 2D |
| Explosion ignition protection type for gas | Ex h IIC T6 Gb X |
| Explosion ignition protection type for dust | Ex h IIIC T60°C Db X |
| Explosion ambient temperature | -10°C ≤ Ta ≤ +60°C |
| Operating medium | Compressed air to ISO 8573-1:2010 [7:4:4] Inert gas |
| Note on operating and pilot medium | Lubricated operation possible (in which case lubricated operation will always be required) Lubricated operation not possible |
| Corrosion resistance class CRC | 2 - Moderate corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B1/B2-L |
| Cleanroom suitability, measured according to ISO 14644-14 | Class 7 according to ISO 14644-1 |
| Storage temperature | -10 °C ... 60 °C |
| Media temperature | -10 °C ... 60 °C |
| Ambient temperature | -10 °C ... 60 °C |
| Product weight | 1400 g |
| Type of mounting | With accessories |
| Material covering | Reinforced PA |
| Note on materials | RoHS compliant |
| Material sub-base | Die-cast aluminium |
| Material mounting bracket | Die-cast aluminium |
| Material housing | Die-cast aluminium |
| Material module connector | Die-cast aluminium |
| Material membrane | NBR |
| Material valve stem | Wrought aluminium alloy NBR POM |