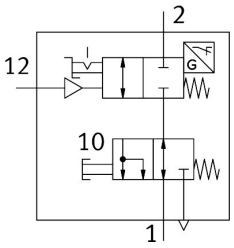
# Shut-off valve
# VBOC-L2-S7-P-M12-G38-E

Part number: 8180904






## Data sheet

| Feature | Value |
|---|---|
| Valve function | 2/2-way, single solenoid, closed |
| Pneumatic connection, port 1 | G3/8 |
| Pneumatic connection, port 2 | G3/8 |
| Type of actuation | Pneumatic |
| Type of mounting | Screw-in<br>With male thread |
| Nominal flow rate standardised according to ISO 8778 | 1000 l/min |
| Standard flow rate 0.6->0 MPa (6->0 bar, 87->0 psi) in according to ISO 8778 | 1740 l/min |
| Nominal flow rate 2->1 normalised according to ISO 8778 | 1090 l/min |
| Standard flow rate 0.6->0 MPa (6->0 bar, 87->0 psi) 2->1 according to ISO 8778 | 1740 l/min |
| Operating pressure | 0.05 MPa...1 MPa<br>0.5 bar...10 bar |
| Ambient temperature | -5 °C...60 °C |
| Operating medium | Compressed air to ISO 8573-1:2010 [7:4:4] |
| 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 |
| Mounting position | Any |
| Selection of additional function 2 | Manual exhausting |
| Special characteristics | Resistant to welding spatter |
| Type of seal on screwed plug | Sealing ring |
| Manual override | Detenting |
| Type of reset | Mechanical spring |
| Pilot air supply | External |
| Manual exhaust function | Non-detenting |
| Measuring principle | Inductive |
| Switching element function | N/C contact |
| Rotatability | 360°/no continuous swivelling permissible |

| Feature | Value |
|---|---|
| Reverse polarity protection sensor | For all electrical connections |
| Note on forced dynamization | Current information on this topic can be found in Technical Report V |
| Switching position sensing | Normal position with sensor |
| Switch-off pressure | 0.05 MPa...0.2 MPa |
| Switch-on pressure | 0.15 MPa...0.4 MPa |
| Pneumatic off range | 0.04 MPa |
| Pilot pressure | 0.1 MPa...1 MPa<br>1 bar...10 bar<br>14.5 psi...145 psi |
| Switching time off | 25 ms |
| Switching time on | 10 ms |
| Nominal operating voltage DC | 24 V |
| Switching output | PNP |
| Note on operating and pilot medium | Lubricated operation possible (in which case lubricated operation will always be required) |
| Corrosion resistance class CRC | 2 - Moderate corrosion stress |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Suitability for the production of Li-ion batteries | Suitable for battery production with reduced Cu/Zn/Ni values (F1a) |
| Media temperature | -5 °C...60 °C |
| Pilot medium | Compressed air to ISO 8573-1:2010 [7:4:4] |
| Nominal torque | 13 Nm |
| Tolerance for nominal tightening torque | ±20% |
| Product weight | 154 g |
| Operating voltage range, DC sensor | 10 V...30 V |
| Short-circuit strength sensor | Yes |
| Idle current sensor | 10 mA |
| Max. output current sensor | 200 mA |
| Voltage drop sensor | 3 V |
| Electrical connection 1, function | Switching output |
| Electrical connection 1, connection type | Cable with plug |
| Electrical connection 1, connector system | M12x1, A-coded to EN 61076-2-101 |
| Electrical connection 1, number of connections/cores | 4 |
| Electrical connection 1, used connections/cores | 3 |
| Cable length | 0.3 m |
| Pilot air port 12 | G1/8 |
| Note on materials | RoHS compliant |
| Material seals | HNBR<br>NBR<br>TPE-U(PU) |
| Material hollow bolt | Wrought aluminium alloy |
| Material cable sheath | PVC |
| Knurled nut material | Wrought aluminium alloy |
| Material swivel fitting | Wrought aluminium alloy |
| Material sensor bracket | High-alloy stainless steel |
| Locking nut material | High-alloy stainless steel |