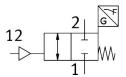
## Shut-off valve VBOC-L2-P-M8-G14-E Part number: 8177464

**FESTO** 





## **Data sheet**

| Feature  | Value  |
|--|--|
| Valve function   | 2/2-way, closed, monostable  |
| Pneumatic connection, port 1   | G1/4   |
| Pneumatic connection, port 2   | G1/4   |
| Type of actuation  | Pneumatic  |
| Type of mounting   | Screw-in<br>Via male thread  |
| Nominal flow rate standardised according to ISO 8778                           | 600 l/min  |
| Standard flow rate 0.6->0 MPa (6->0 bar, 87->0 psi) in according to ISO 8778   | 1080 l/min   |
| Nominal flow rate 2->1 normalised according to ISO 8778                        | 700 l/min  |
| Standard flow rate 0.6->0 MPa (6->0 bar, 87->0 psi) 2->1 according to ISO 8778 | 1120 l/min   |
| Operating pressure   | 0.05 MPa1 MPa<br>0.5 bar10 bar                                       |
| Ambient temperature  | -5 °C60 °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          |
| CE marking (see declaration of conformity)                                     | To UK instructions for EMC To UK RoHS instructions                   |
| Mounting position  | optional   |
| Special characteristics  | Resistant to welding spatter   |
| Type of seal on screwed plug   | Sealing ring   |
| Type of reset  | Mechanical spring  |
| Pilot air supply   | External   |
| Measuring principle  | Inductive  |
| Switching element function   | N/O contact  |
| Rotatability   | 360°/no continuous swivelling permissible                            |
| 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 via sensor   |
| Switch-off pressure  | 0.05 MPa0.2 MPa  |
| Switch-on pressure   | 0.15 MPa0.4 MPa  |

| Feature  | Value   |
|--|---|
| Pneumatic off range                                  | 0.04 MPa  |
| Pilot pressure                                       | 0.2 MPa1 MPa<br>2 bar10 bar<br>29 psi145 psi  |
| Switching time off                                   | 25 ms   |
| Switching time on                                    | 14 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   | Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils |
| Media temperature                                    | -5 °C60 °C  |
| Pilot medium   | Compressed air to ISO 8573-1:2010 [7:4:4]   |
| Nominal torque                                       | 10 Nm   |
| Tolerance for nominal tightening torque              | ± 20%   |
| Permissible actuation moment, regulating screw       | 1.5 Nm  |
| Product weight                                       | 87.1 g  |
| Operating voltage range, DC sensor                   | 10 V30 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            | M8x1, A-coded, to EN 61076-2-104  |
| Electrical connection 1, number of connections/cores | 3   |
| 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   |
| Material swivel fitting                              | Wrought aluminium alloy   |
| Material sensor bracket                              | High-alloy stainless steel  |
| Locking nut material                                 | High-alloy stainless steel  |