

# Pneumatic valve VL-5/3G-3/8-B-EX

Part number: 536048

FESTO



 [General operating condition](#)

## Data sheet

| Feature   | Value                                       |
|---|---|
| Valve function  | 5/3 closed                                  |
| Type of actuation                                     | Pneumatic                                   |
| Construction width                                    | 40 mm                                       |
| Standard nominal flow rate (standardised to DIN 1343) | 2000 l/min                                  |
| pneumatic working port                                | G3/8  |
| Operating pressure                                    | -0.09 MPa ... 1 MPa                         |
| Operating pressure                                    | -0.9 bar ... 10 bar                         |
| Design  | Piston gate valve                           |
| Type of reset   | Mechanical spring                           |
| CE mark (see declaration of conformity)               | To EU Explosion Protection Directive (ATEX) |
| UKCA marking (see declaration of conformity)          | To UK EX instructions                       |
| ATEX category gas                                     | II 2G                                       |
| ATEX category dust                                    | II 2D                                       |
| Explosion ignition protection type for gas            | Ex h IIC T4 Gb                              |
| Explosion ignition protection type for dust           | Ex h IIIC T130°C Db                         |
| Explosion ambient temperature                         | -10°C ≤ Ta ≤ +60°C                          |
| Explosion protection certification outside the EU     | EPL Db (GB)<br>EPL Gb (GB)                  |
| Nominal size  | 12 mm                                       |
| Grid dimension  | 41 mm                                       |
| Exhaust-air function                                  | With flow control option                    |
| Sealing principle                                     | Soft  |
| Mounting position                                     | optional                                    |
| Manual override                                       | None  |
| Type of piloting                                      | Direct                                      |
| Pilot air supply                                      | External                                    |
| Flow direction  | Reversible                                  |
| Symbol  | 00991018                                    |
| lap   | Overlap                                     |
| Pilot pressure  | 0.3 MPa ... 1 MPa                           |
| Pilot pressure  | 3 bar ... 10 bar                            |
| Max. switching frequency                              | 3 Hz  |
| Switching time off                                    | 28 ms                                       |
| Switching time on                                     | 7 ms  |
| Switching time reversal                               | 54 ms                                       |

| Feature                            | Value   |
|------------------------------------|---|
| Explosion protection               | Zone 1 (ATEX)<br>Zone 1 (UKEX)<br>Zone 2 (ATEX)<br>Zone 21 (ATEX)<br>Zone 21 (UKEX)<br>Zone 22 (ATEX) |
| Operating medium                   | Compressed air to ISO 8573-1:2010 [7:4:4]   |
| Note on operating and pilot medium | Lubricated operation possible (in which case lubricated operation will always be required)            |
| Corrosion resistance class CRC     | 1 - Low corrosion stress  |
| LABS (PWIS) conformity             | VDMA24364-B1/B2-L   |
| Storage temperature                | -40 °C ... 60 °C  |
| Media temperature                  | -10 °C ... 60 °C  |
| Pilot medium                       | Compressed air to ISO 8573-1:2010 [7:4:4]   |
| Ambient temperature                | -10 °C ... 60 °C  |
| Product weight                     | 680 g   |
| Type of mounting                   | With through-hole   |
| Pilot air port 12                  | G1/8  |
| Pilot air port 14                  | G1/8  |
| Pneumatic connection, port 1       | G3/8  |
| Pneumatic connection, port 2       | G3/8  |
| Pneumatic connection, port 3       | G3/8  |
| Pneumatic connection, port 4       | G3/8  |
| Pneumatic connection, port 5       | G3/8  |
| Note on materials                  | RoHS-compliant  |
| Material seals                     | NBR   |
| Material housing                   | Die-cast aluminium  |