

# Pneumatic valve VL-5/2-D-2-FR-C-EX

Part number: 536011

FESTO



[PDF](#) General operating condition

## Data sheet

| Feature   | Value                                       |
|---|---|
| Valve function  | 5/2-way, single solenoid                    |
| Type of actuation                                     | Pneumatic                                   |
| Construction width                                    | 54 mm                                       |
| Standard nominal flow rate (standardised to DIN 1343) | 2300 l/min                                  |
| pneumatic working port                                | Sub-base size 2 to ISO 5599-1<br>G3/8       |
| Operating pressure                                    | -0.09 MPa ... 1.6 MPa                       |
| Operating pressure                                    | -0.9 bar ... 16 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  | 11.5 mm                                     |
| Grid dimension  | 56 mm                                       |
| Exhaust-air function                                  | Can be throttled                            |
| Sealing principle                                     | Soft  |
| Mounting position                                     | Any   |
| Conforms to standard                                  | ISO 5599-1                                  |
| Manual override                                       | None  |
| ISO code  | 204   |
| Type of piloting                                      | Direct                                      |
| Flow direction  | Reversible                                  |
| Symbol  | 00991029                                    |
| lap   | Overlap                                     |
| Pilot pressure  | 0.3 MPa ... 1.6 MPa                         |
| Pilot pressure  | 3 bar ... 16 bar                            |
| Switching time off                                    | 39 ms                                       |
| Switching time on                                     | 11 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)            |
| Vibration resistance               | Transport application test with severity level 1 to FN 942017-4 and EN 60068-2-6                      |
| Shock resistance                   | Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27                                     |
| LABS (PWIS) conformity             | VDMA24364-B1/B2-L   |
| Media temperature                  | -10 °C ... 60 °C  |
| Sound pressure level               | 85 dB(A)  |
| Pilot medium                       | Compressed air to ISO 8573-1:2010 [7:4:4]   |
| Ambient temperature                | -10 °C ... 60 °C  |
| Product weight                     | 550 g   |
| Type of mounting                   | On sub-base<br>Via through-hole and screw   |
| Pilot air port 14                  | Sub-base size 2 to ISO 5599-1   |
| Pneumatic connection, port 1       | Sub-base size 2 to ISO 5599-1   |
| Pneumatic connection, port 2       | Sub-base size 2 to ISO 5599-1   |
| Pneumatic connection, port 3       | Sub-base size 2 to ISO 5599-1   |
| Pneumatic connection, port 4       | Sub-base size 2 to ISO 5599-1   |
| Pneumatic connection, port 5       | Sub-base size 2 to ISO 5599-1   |
| Note on materials                  | RoHS compliant  |
| Material seals                     | HNBR<br>NBR   |
| Material housing                   | Die-cast aluminium  |