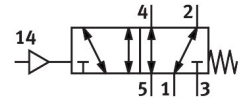


# Pneumatic valve VL-5/2-D-3-FR-C-EX

Part number: 536012

**FESTO**



[General operating condition](#)

## Data sheet

| Feature                                               | Value                                       |
|-------------------------------------------------------|---------------------------------------------|
| Valve function                                        | 5/2-way, monostable                         |
| Type of actuation                                     | Pneumatic                                   |
| Construction width                                    | 65 mm                                       |
| Standard nominal flow rate (standardised to DIN 1343) | 4500 l/min                                  |
| pneumatic working port                                | Sub-base size 3 to ISO 5599-1<br>G1/2       |
| 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                                          | 14.5 mm                                     |
| Grid dimension                                        | 71 mm                                       |
| Exhaust-air function                                  | With flow control option                    |
| Sealing principle                                     | Soft                                        |
| Mounting position                                     | optional                                    |
| Conforms to standard                                  | ISO 5599-1                                  |
| Manual override                                       | None                                        |
| ISO code                                              | 304                                         |
| Type of piloting                                      | Direct                                      |
| Flow direction                                        | Reversible                                  |
| Symbol                                                | 00991029                                    |
| lap                                                   | Overlap                                     |
| Pilot pressure                                        | 3 bar ... 16 bar                            |
| Switching time off                                    | 43 ms                                       |
| Switching time on                                     | 13 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                     | 810 g                                                                                                 |
| Type of mounting                   | On sub-base<br>Via through-hole and screw                                                             |
| Pilot air port 14                  | Sub-base size 3 to ISO 5599-1                                                                         |
| Pneumatic connection, port 1       | Sub-base size 3 to ISO 5599-1                                                                         |
| Pneumatic connection, port 2       | Sub-base size 3 to ISO 5599-1                                                                         |
| Pneumatic connection, port 3       | Sub-base size 3 to ISO 5599-1                                                                         |
| Pneumatic connection, port 4       | Sub-base size 3 to ISO 5599-1                                                                         |
| Pneumatic connection, port 5       | Sub-base size 3 to ISO 5599-1                                                                         |
| Note on materials                  | RoHS-compliant                                                                                        |
| Material seals                     | HNBR<br>NBR                                                                                           |
| Material housing                   | Die-cast aluminium                                                                                    |