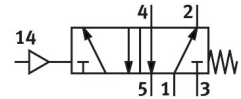


# Pneumatic valve VL-5-1/8-EX

Part number: 536032

FESTO



[General operating condition](#)

## Data sheet

| Feature                                           | Value                                           |
|---------------------------------------------------|-------------------------------------------------|
| Valve function                                    | 5/2, monostable                                 |
| Actuation type                                    | Pneumatic                                       |
| Width                                             | 26 mm                                           |
| Standard nominal flow rate                        | 500 l/min                                       |
| Pneumatic working port                            | G1/8                                            |
| Operating pressure                                | 0 MPa ... 1 MPa                                 |
| Operating pressure                                | 0 bar ... 10 bar                                |
| Structural design                                 | Plate seat                                      |
| Reset method                                      | Mechanical spring                               |
| Degree of protection                              | IP65                                            |
| CE marking (see declaration of conformity)        | as per EU explosion protection directive (ATEX) |
| UKCA marking (see declaration of conformity)      | acc. to UK EX instructions                      |
| ATEX category gas                                 | II 2G                                           |
| ATEX category for dust                            | II 2D                                           |
| Type of ignition protection for gas               | Ex h IIC T4 Gb                                  |
| Type of (ignition) protection for dust            | Ex h IIIC T130°C Db                             |
| Explosive ambient temperature                     | -10°C ≤ Ta ≤ +60°C                              |
| Explosion protection certification outside the EU | EPL Db (GB)<br>EPL Gb (GB)                      |
| Nominal width                                     | 5 mm                                            |
| Width dimension                                   | 27 mm                                           |
| Exhaust air function                              | With flow control option                        |
| Sealing principle                                 | Soft                                            |
| Mounting position                                 | Any                                             |
| Type of control                                   | Direct                                          |
| Pilot air supply port                             | External                                        |
| Flow direction                                    | Non-reversible                                  |
| Symbol                                            | 00991001                                        |
| Lap                                               | Underlap                                        |
| Pilot pressure MPa                                | 0.12 MPa ... 1 MPa                              |
| Pilot pressure                                    | 1.2 bar ... 10 bar                              |
| Max. switching frequency                          | 12 Hz                                           |
| Switching time off                                | 16 ms                                           |
| On switching time                                 | 5 ms                                            |
| Max. positive test pulse with 0 signal            | 2200 μs                                         |
| Max. negative test pulse on 1 signal              | 3700 μs                                         |

| Feature                                  | Value                                                                                                 |
|------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Explosion prevention and 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 as per ISO 8573-1:2010 [7:4:4]                                                         |
| Information on operating and pilot media | Operation with oil lubrication possible (required for further use)                                    |
| Corrosion resistance class (CRC)         | 1 - Low corrosion stress                                                                              |
| LABS (PWIS) conformity                   | VDMA24364-B1/B2-L                                                                                     |
| Storage temperature                      | -20 °C ... 60 °C                                                                                      |
| Temperature of medium                    | -10 °C ... 60 °C                                                                                      |
| Pilot medium                             | Compressed air as per ISO 8573-1:2010 [7:4:4]                                                         |
| Ambient temperature                      | -10 °C ... 60 °C                                                                                      |
| Product weight                           | 220 g                                                                                                 |
| Type of mounting                         | With through-hole                                                                                     |
| Venting hole connection                  | M5                                                                                                    |
| Pilot exhaust air port 82                | M5                                                                                                    |
| Pilot air port 14                        | G1/8                                                                                                  |
| Pneumatic connection 1                   | G1/8                                                                                                  |
| Pneumatic connection 2                   | G1/8                                                                                                  |
| Pneumatic connection 3                   | G1/8                                                                                                  |
| Pneumatic connection 4                   | G1/8                                                                                                  |
| Pneumatic connection 5                   | G1/8                                                                                                  |
| Note on materials                        | RoHS-compliant                                                                                        |
| Seals material                           | NBR<br>TPE-U(PU)                                                                                      |
| Housing material                         | Die-cast aluminum                                                                                     |