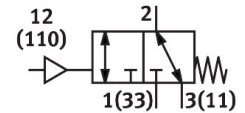


# Pneumatic valve VL/O-3-1/8-B-EX

Part number: 536028

FESTO



[PDF General operating condition](#)

## Data sheet

| Feature   | Value   |
|---|---|
| Valve function                                    | 3/2, open/closed, monostable                    |
| Actuation type                                    | Pneumatic                                       |
| Width   | 26 mm   |
| Normal nominal flow rate (normalized to DIN 1343) | 500 l/min                                       |
| Pneumatic working port                            | G1/8  |
| Operating pressure                                | -0.095 MPa ... 1 MPa                            |
| Operating pressure                                | -0.95 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                                    | Reversible                                      |
| Symbol  | 00991030  |
| Lap   | Underlap  |
| Pilot pressure MPa                                | 0.1 MPa ... 1 MPa                               |
| Pilot pressure                                    | 1 bar ... 10 bar                                |
| Max. switching frequency                          | 12 Hz   |
| Switching time off                                | 10 ms   |
| On switching time                                 | 4 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                           | 150 g   |
| Type of mounting                         | On PR rail<br>With through-hole   |
| Venting hole connection                  | M3  |
| Pilot air port 110                       | G1/8  |
| Pneumatic connection 1                   | G1/8  |
| Pneumatic connection 11                  | G1/8  |
| Pneumatic connection 2                   | G1/8  |
| Pneumatic connection 3                   | G1/8  |
| Pneumatic connection 33                  | G1/8  |
| Note on materials                        | RoHS-compliant  |
| Seals material                           | NBR   |
| Housing material                         | Die-cast aluminum   |