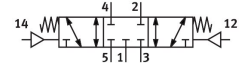


# Pneumatic valve VL-5/3G-1/4-B-EX

Part number: 536047

FESTO



## Data sheet

| Feature                                           | Value                                           |
|---------------------------------------------------|-------------------------------------------------|
| Valve function                                    | 5/3-way, closed                                 |
| Actuation type                                    | Pneumatic                                       |
| Width                                             | 32 mm                                           |
| Normal nominal flow rate (normalized to DIN 1343) | 1600 l/min                                      |
| Pneumatic working port                            | G1/4                                            |
| Operating pressure                                | -0.09 MPa...1 MPa<br>-0.9 bar...10 bar          |
| Structural design                                 | Piston gate valve                               |
| Reset method                                      | Mechanical spring                               |
| 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                                     | 10 mm                                           |
| Width dimension                                   | 33 mm                                           |
| Exhaust air function                              | Adjustable                                      |
| Sealing principle                                 | Soft                                            |
| Mounting position                                 | Any                                             |
| Manual override                                   | None                                            |
| Type of control                                   | directly                                        |
| Pilot air supply port                             | External                                        |
| Flow direction                                    | Reversible                                      |
| Lap                                               | Positive overlap                                |
| Pilot pressure MPa                                | 0.3 MPa...1 MPa                                 |
| Pilot pressure                                    | 3 bar...10 bar                                  |
| b-value                                           | 0.38                                            |
| C value                                           | 6.35 l/sbar                                     |

| Feature                                  | Value                                                                                                 |
|------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Max. switching frequency                 | 3 Hz                                                                                                  |
| Switching time off                       | 26 ms                                                                                                 |
| On switching time                        | 6 ms                                                                                                  |
| Changeover time                          | 30 ms                                                                                                 |
| 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                      | -40 °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                           | 375 g                                                                                                 |
| Type of mounting                         | With through-hole                                                                                     |
| Pilot air port 12                        | G1/8                                                                                                  |
| Pilot air port 14                        | G1/8                                                                                                  |
| Pneumatic connection 1                   | G1/4                                                                                                  |
| Pneumatic connection 2                   | G1/4                                                                                                  |
| Pneumatic connection 3                   | G1/4                                                                                                  |
| Pneumatic connection 4                   | G1/4                                                                                                  |
| Pneumatic connection 5                   | G1/4                                                                                                  |
| Note on materials                        | RoHS compliant                                                                                        |
| Seals material                           | NBR                                                                                                   |
| Housing material                         | Die-cast aluminum                                                                                     |