

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

Part number: 536053

FESTO



 [General operating condition](#)

Data sheet

| Feature | Value |
|---|---|
| Valve function | 5/3, pressurized |
| 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 |
| Operating pressure | -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) EPL Gb (GB) |
| Nominal width | 10 mm |
| Width dimension | 33 mm |
| Exhaust air function | With flow control option |
| Sealing principle | Soft |
| Mounting position | Any |
| Manual override | None |
| Type of control | Direct |
| Pilot air supply port | External |
| Flow direction | Reversible |
| Symbol | 00991022 |
| Lap | 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 |
| Max. switching frequency | 3 Hz |
| Switching time off | 26 ms |
| On switching time | 6 ms |

| Feature | Value |
|--|---|
| Changeover time | 35 ms |
| Explosion prevention and protection | Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) 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 | G $\frac{1}{4}$ |
| 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 |