

# Pneumatic valve VL-5/3E-1/4-B

Part number: 14297

**FESTO**



## Data sheet

| Feature                                               | Value                                                                                      |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Valve function                                        | 5/3 exhausted                                                                              |
| Type of actuation                                     | Pneumatic                                                                                  |
| Construction width                                    | 32 mm                                                                                      |
| Standard nominal flow rate (standardised to DIN 1343) | 1600 l/min                                                                                 |
| pneumatic working port                                | G1/4                                                                                       |
| Operating pressure                                    | -0.09 MPa...1 MPa<br>-0.9 bar...10 bar                                                     |
| Design                                                | Piston gate valve                                                                          |
| Type of reset                                         | Mechanical spring                                                                          |
| Nominal size                                          | 10 mm                                                                                      |
| Grid dimension                                        | 33 mm                                                                                      |
| Exhaust-air function                                  | With flow control option                                                                   |
| Sealing principle                                     | Soft                                                                                       |
| Mounting position                                     | optional                                                                                   |
| Manual override                                       | None                                                                                       |
| Type of piloting                                      | Direct                                                                                     |
| Pilot air supply                                      | External                                                                                   |
| Flow direction                                        | Reversible                                                                                 |
| lap                                                   | Overlap                                                                                    |
| Pilot pressure                                        | 0.3 MPa...1 MPa<br>3 bar...10 bar                                                          |
| b value                                               | 0.38                                                                                       |
| C value                                               | 6.35 l/sbar                                                                                |
| Max. switching frequency                              | 3 Hz                                                                                       |
| Switching time off                                    | 26 ms                                                                                      |
| Switching time on                                     | 6 ms                                                                                       |
| Switching time reversal                               | 35 ms                                                                                      |
| 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) |
| Corrosion resistance class CRC                        | 1 - Low corrosion stress                                                                   |
| LABS (PWIS) conformity                                | VDMA24364-B1/B2-L                                                                          |

| Feature                      | Value                                      |
|------------------------------|--------------------------------------------|
| Storage temperature          | -40 °C...60 °C                             |
| Media temperature            | -10 °C...60 °C                             |
| Pilot medium                 | Compressed air to ISO 8573-1:2010 [7:4:4]  |
| Ambient temperature          | -10 °C...60 °C                             |
| Product weight               | 375 g                                      |
| Type of mounting             | On PR rail<br>With through-hole<br>Either: |
| Pilot air port 12            | G1/8                                       |
| Pilot air port 14            | G1/8                                       |
| Pneumatic connection, port 1 | G1/4                                       |
| Pneumatic connection, port 2 | G1/4                                       |
| Pneumatic connection, port 3 | G1/4                                       |
| Pneumatic connection, port 4 | G1/4                                       |
| Pneumatic connection, port 5 | G1/4                                       |
| Note on materials            | RoHS-compliant                             |
| Material seals               | NBR                                        |
| Material housing             | Die-cast aluminium                         |