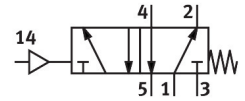


# Pneumatic valve VL-5-1/2

Part number: 9445

FESTO



[PDF](#) General operating condition

## Data sheet

| Feature                                               | Value                                                                                      |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Valve function                                        | 5/2-way, monostable                                                                        |
| Type of actuation                                     | Pneumatic                                                                                  |
| Construction width                                    | 52 mm                                                                                      |
| Standard nominal flow rate (standardised to DIN 1343) | 3700 l/min                                                                                 |
| pneumatic working port                                | G1/2                                                                                       |
| Operating pressure                                    | 0 MPa ... 1 MPa                                                                            |
| Operating pressure                                    | 0 bar ... 10 bar                                                                           |
| Design                                                | Poppet seat                                                                                |
| Type of reset                                         | Mechanical spring                                                                          |
| Nominal size                                          | 14 mm                                                                                      |
| Grid dimension                                        | 69 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                                        | Non-reversible                                                                             |
| Symbol                                                | 00991001                                                                                   |
| lap                                                   | Underlap                                                                                   |
| Pilot pressure                                        | 0.12 MPa ... 1 MPa                                                                         |
| Pilot pressure                                        | 1.2 bar ... 10 bar                                                                         |
| b value                                               | 0.32                                                                                       |
| C value                                               | 17.65 l/sbar                                                                               |
| Switching time off                                    | 27 ms                                                                                      |
| Switching time on                                     | 3 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                                                                          |
| Storage temperature                                   | -20 °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                                        | 1070 g                                                                                     |

| Feature                      | Value                                            |
|------------------------------|--------------------------------------------------|
| Type of mounting             | Either:<br>On manifold rail<br>With through-hole |
| Pilot air port 14            | G1/4                                             |
| Pneumatic connection, port 1 | G1/2                                             |
| Pneumatic connection, port 2 | G1/2                                             |
| Pneumatic connection, port 3 | G1/2                                             |
| Pneumatic connection, port 4 | G1/2                                             |
| Pneumatic connection, port 5 | G1/2                                             |
| Note on materials            | RoHS-compliant                                   |
| Material seals               | NBR<br>TPE-U(PU)                                 |
| Material housing             | Die-cast aluminium                               |