

# Air solenoid valve VUVS-LK20-B52-D-G18-1C1-S

Part number: 8043215

**FESTO**



 General operating condition

## Data sheet

| Feature                                           | Value                                                                                |
|---------------------------------------------------|--------------------------------------------------------------------------------------|
| Valve function                                    | 5/2-way, bistable                                                                    |
| Actuation type                                    | Electrical                                                                           |
| Valve size                                        | 21 mm                                                                                |
| Normal nominal flow rate (normalized to DIN 1343) | 550 l/min                                                                            |
| Pneumatic working port                            | G1/8                                                                                 |
| Operating voltage                                 | 24V DC                                                                               |
| Operating pressure                                | 0.15 MPa ... 0.8 MPa                                                                 |
| Operating pressure                                | 1.5 bar ... 8 bar                                                                    |
| Structural design                                 | Piston gate valve                                                                    |
| Degree of protection                              | IP65<br>With plug socket<br>As per IEC 60529                                         |
| Nominal width                                     | 5.2 mm                                                                               |
| Exhaust air function                              | Adjustable                                                                           |
| Sealing principle                                 | Soft                                                                                 |
| Mounting position                                 | Any                                                                                  |
| Manual override                                   | Detenting<br>Non-detenting                                                           |
| Type of control                                   | Piloted                                                                              |
| Pilot air supply port                             | Internal                                                                             |
| Flow direction                                    | Non-reversible                                                                       |
| Symbol                                            | 00991005                                                                             |
| Lap                                               | Positive overlap                                                                     |
| b-value                                           | 0.38                                                                                 |
| C value                                           | 2.66 l/sbar                                                                          |
| Changeover time                                   | 10 ms                                                                                |
| Duty cycle                                        | 100%                                                                                 |
| Max. positive test pulse with 0 signal            | 2700 µs                                                                              |
| Max. negative test pulse on 1 signal              | 1100 µs                                                                              |
| Coil characteristics                              | 24 V DC: 2.4 W                                                                       |
| Permissible voltage fluctuations                  | +/- 10%                                                                              |
| 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)                   |
| Vibration resistance                              | Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 |
| Shock resistance                                  | Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27                |
| Corrosion resistance class (CRC)                  | 1 - Low corrosion stress                                                             |

| Feature                 | Value                                         |
|-------------------------|-----------------------------------------------|
| LABS (PWIS) conformity  | VDMA24364 Zone III                            |
| Temperature of medium   | -5 °C ... 50 °C                               |
| Pilot medium            | Compressed air as per ISO 8573-1:2010 [7:4:4] |
| Ambient temperature     | -5 °C ... 50 °C                               |
| Product weight          | 200 g                                         |
| Electrical connection   | Type C<br>As per EN 175301-803                |
| Type of mounting        | On terminal strip<br>With through-hole        |
| Venting hole connection | Not ducted                                    |
| Pneumatic connection 1  | G1/8                                          |
| Pneumatic connection 2  | G1/8                                          |
| Pneumatic connection 3  | G1/8                                          |
| Pneumatic connection 4  | G1/8                                          |
| Pneumatic connection 5  | G1/8                                          |
| Note on materials       | RoHS compliant                                |
| Seals material          | HNBR<br>NBR                                   |
| Housing material        | Wrought aluminum alloy                        |
| Piston slide material   | Wrought aluminum alloy                        |