

# Air solenoid valve

## VUVS-L25-M52-AD-G14-F8-1B2

FESTO

Part number: 575505



 [General operating condition](#)

## Data sheet

| Feature   | Value  |
|---|--|
| Valve function                                    | 5/2, monostable                              |
| Actuation type                                    | Electrical                                   |
| Valve size  | 26.5 mm                                      |
| Normal nominal flow rate (normalized to DIN 1343) | 1300 l/min                                   |
| Pneumatic working port                            | G1/4   |
| Operating voltage                                 | 24V DC                                       |
| Operating pressure                                | 0.25 MPa ... 1 MPa                           |
| Operating pressure                                | 2.5 bar ... 10 bar                           |
| Structural design                                 | Piston gate valve                            |
| Reset method                                      | Pneumatic spring                             |
| Certification                                     | c UL us - Recognized (OL)                    |
| Maritime classification                           | See certificate                              |
| Certificate issuing authority                     | DNVGL-TAA000011J                             |
| Degree of protection                              | IP65<br>With plug socket<br>as per IEC 60529 |
| Nominal width                                     | 6.9 mm                                       |
| Exhaust air function                              | With flow control option                     |
| Sealing principle                                 | Soft   |
| Mounting position                                 | Any  |
| Manual override                                   | Detenting<br>Non-detenting                   |
| Type of control                                   | Pilot-controlled                             |
| Pilot air supply port                             | Internal                                     |
| Flow direction                                    | Non-reversible                               |
| Symbol  | 00991023                                     |
| Lap   | Overlap                                      |
| b-value   | 0.4  |
| C value   | 5.3 l/sbar                                   |
| Switching time off                                | 35 ms  |
| On switching time                                 | 19 ms  |
| Duty cycle  | 100%   |
| Max. positive test pulse with 0 signal            | 2000 µs                                      |
| Max. negative test pulse on 1 signal              | 3600 µs                                      |
| Coil characteristics                              | 24 V DC: 3.3 W                               |
| Permissible voltage fluctuations                  | +/- 10 %                                     |

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|---|--|
| 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 2 as per FN 942017-5 and EN 60068-2-27                |
| Corrosion resistance class (CRC)                          | 2 - Moderate corrosion stress  |
| LABS (PWIS) conformity                                    | VDMA24364-B1/B2-L  |
| Cleanroom suitability, measured according to ISO 14644-14 | Class 6 according to ISO 14644-1   |
| 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  | 363 g  |
| Electrical connection                                     | Form B<br>As per industrial standard (11 mm)   |
| Type of mounting  | On terminal strip<br>With through-hole   |
| Venting hole connection                                   | Not ducted   |
| Pilot exhaust air port 84                                 | M5   |
| Pneumatic connection 1                                    | G1/4   |
| Pneumatic connection 2                                    | G¼   |
| Pneumatic connection 3                                    | G1/4   |
| Pneumatic connection 4                                    | G1/4   |
| Pneumatic connection 5                                    | G1/4   |
| Note on materials   | RoHS-compliant   |
| Seals material  | HNBR<br>NBR  |
| Housing material  | Die-cast aluminum<br>Painted   |
| Piston slide material                                     | Wrought aluminum alloy   |
| Material of screws  | Steel, galvanized  |