

# Air solenoid valve

## VUVS-L20-P53U-MD-N18-F7

FESTO

Part number: 575710



[General operating condition](#)

## Data sheet

| Feature   | Value  |
|---|--|
| Valve function  | 5/3-way, pressurized   |
| Actuation type  | Electrical   |
| Valve size  | 21 mm  |
| Normal nominal flow rate (normalized to DIN 1343)         | 600 l/min  |
| Pneumatic working port                                    | 1/8 NPT  |
| Operating pressure  | 0.25 MPa ... 1 MPa   |
| Operating pressure  | 2.5 bar ... 10 bar   |
| Structural design   | Piston gate valve  |
| Reset method  | Mechanical spring  |
| Certification   | c UL us - recognized (OL)  |
| Nominal width   | 4.8 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  | 00991034   |
| Lap   | Positive overlap   |
| b-value   | 0.35   |
| C value   | 2.5 l/sbar   |
| Switching time off  | 42 ms  |
| On switching time   | 13 ms  |
| Changeover time   | 21 ms  |
| Max. positive test pulse with 0 signal                    | 1900 µs  |
| Max. negative test pulse on 1 signal                      | 2700 µs  |
| 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   |

| Feature                   | Value   |
|---------------------------|---|
| 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            | 229 g   |
| Type of mounting          | On terminal strip<br>With through-hole        |
| Venting hole connection   | Not ducted                                    |
| Pilot exhaust air port 82 | 10-32 UNF-2B                                  |
| Pilot exhaust air port 84 | 10-32 UNF-2B                                  |
| Pneumatic connection 1    | 1/8 NPT                                       |
| Pneumatic connection 2    | 1/8 NPT                                       |
| Pneumatic connection 3    | 1/8 NPT                                       |
| Pneumatic connection 4    | 1/8 NPT                                       |
| Pneumatic connection 5    | 1/8 NPT                                       |
| Note on materials         | RoHS compliant                                |
| Seals material            | HNBR<br>NBR                                   |
| Housing material          | Die-cast aluminum<br>Painted                  |
| Piston slide material     | high-alloy stainless steel                    |
| Material of screws        | Galvanized steel                              |