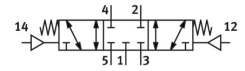


# Pneumatic valve VUWS-L20-P53C-M-N18

Part number: 575709

**FESTO**



 [General operating condition](#)

## Data sheet

| Feature                                               | Value                                                                                                                      |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Valve function                                        | 5/3 closed                                                                                                                 |
| Type of actuation                                     | Pneumatic                                                                                                                  |
| Valve size                                            | 21 mm                                                                                                                      |
| Standard nominal flow rate (standardised to DIN 1343) | 700 l/min                                                                                                                  |
| pneumatic working port                                | 1/8 NPT                                                                                                                    |
| Operating pressure                                    | -0.09 MPa ... 1 MPa                                                                                                        |
| Operating pressure                                    | -0.9 bar ... 10 bar                                                                                                        |
| Design                                                | Piston gate valve                                                                                                          |
| Type of reset                                         | Mechanical spring                                                                                                          |
| Approval                                              | c UL us - Recognized (OL)                                                                                                  |
| Nominal size                                          | 5 mm                                                                                                                       |
| Exhaust-air function                                  | With flow control option                                                                                                   |
| Sealing principle                                     | Soft                                                                                                                       |
| Mounting position                                     | optional                                                                                                                   |
| Manual override                                       | None                                                                                                                       |
| Type of piloting                                      | Direct                                                                                                                     |
| Pilot air supply                                      | Internal                                                                                                                   |
| Flow direction                                        | Reversible                                                                                                                 |
| Symbol                                                | 00991018                                                                                                                   |
| lap                                                   | Overlap                                                                                                                    |
| Pilot pressure                                        | 0.25 MPa ... 1 MPa                                                                                                         |
| Pilot pressure                                        | 2.5 bar ... 10 bar                                                                                                         |
| Switching time off                                    | 44 ms                                                                                                                      |
| Switching time on                                     | 10 ms                                                                                                                      |
| Switching time reversal                               | 26 ms                                                                                                                      |
| Explosion protection                                  | The information in the certificate must be observed!<br>Zone 1 (ATEX)<br>Zone 2 (ATEX)<br>Zone 21 (ATEX)<br>Zone 22 (ATEX) |
| 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)                                 |
| Vibration resistance                                  | Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6                                           |
| Shock resistance                                      | Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27                                                          |
| Corrosion resistance class CRC                        | 2 - Moderate corrosion stress                                                                                              |

| Feature                      | Value                                            |
|------------------------------|--------------------------------------------------|
| LABS (PWIS) conformity       | VDMA24364-B1/B2-L                                |
| Cleanroom class              | Class 6 according to ISO 14644-1                 |
| 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               | 171 g                                            |
| Type of mounting             | Either:<br>On manifold rail<br>With through-hole |
| Breather connection          | Not ducted                                       |
| Pneumatic connection, port 1 | 1/8 NPT                                          |
| Pneumatic connection, port 2 | 1/8 NPT                                          |
| Pneumatic connection, port 3 | 1/8 NPT                                          |
| Pneumatic connection, port 4 | 1/8 NPT                                          |
| Pneumatic connection, port 5 | 1/8 NPT                                          |
| Note on materials            | RoHS-compliant                                   |
| Material seals               | HNBR<br>NBR                                      |
| Material housing             | Painted                                          |
| Material piston slide        | High-alloy stainless steel                       |
| Material screws              | Galvanised steel                                 |