

# pneumatic valve

## VUWS-L20-P53U-M-N18

Part number: 575711

FESTO



## Data sheet

| Feature                                 | Value  |
|---|--|
| Valve function                          | 5/3 pressurised  |
| Type of actuation                       | pneumatic  |
| Valve size                              | 21 mm  |
| Standard nominal flow rate              | 600 l/min  |
| Operating pressure MPa                  | -0.09 ... 1 MPa  |
| Operating pressure                      | -0.9 ... 10 bar  |
| Design structure                        | Piston slide   |
| Type of reset                           | mechanical spring  |
| Authorisation                           | c UL us - Recognized (OL)  |
| Nominal size                            | 4.8 mm   |
| Exhaust-air function                    | throttleable   |
| Sealing principle                       | soft   |
| Assembly position                       | Any  |
| Manual override                         | None   |
| Type of piloting                        | direct   |
| Pilot air supply                        | Internal   |
| Flow direction                          | reversible   |
| Overlap                                 | Positive overlap   |
| Pilot pressure MPa                      | 0.25 ... 1 MPa   |
| Pilot pressure                          | 2.5 ... 10 bar   |
| Switching time off                      | 43 ms  |
| Switching time on                       | 10 ms  |
| Switching time reversal                 | 21 ms  |
| Operating medium                        | Compressed air in accordance with ISO8573-1:2010 [7:4:4]                                       |
| Note on operating and pilot medium      | Lubricated operation possible (subsequently required for further operation)                    |
| Vibration resistance                    | Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6 |
| Shock resistance                        | Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27              |
| Corrosion resistance classification CRC | 2 - Moderate corrosion stress  |
| PWIS conformity                         | VDMA24364-B1/B2-L  |
| Medium temperature                      | -10 ... 60 °C  |
| Pilot medium                            | Compressed air in accordance with ISO8573-1:2010 [7:4:4]                                       |
| Ambient temperature                     | -10 ... 60 °C  |
| Product weight                          | 207 g  |
| Mounting type                           | on manifold rail<br>with through hole<br>Optional  |
| Scavenging orifice connection           | Non-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  |
| Materials note                          | Conforms to RoHS   |

| <b>Feature</b>        | <b>Value</b>                    |
|-----------------------|---------------------------------|
| Material seals        | HNBR<br>NBR                     |
| Material housing      | Aluminium die cast<br>Painted   |
| Material Piston slide | High alloy steel, non-corrosive |
| Material screws       | Galvanised steel                |