

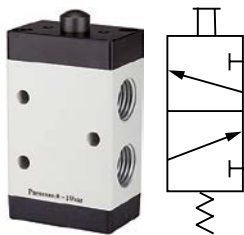
## 3/2-way valve

mechanically operated - »M3« series

**EASY**

Art. No. 115953

Type No. 511.1001



Exemplary illustration

3/2-way valves

- Mechanically operated -

### Technical data

|                       |                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------|
| Operation             | mechanical                                                                                          |
| Function              | 3/2 NC                                                                                              |
| Version               | plunger                                                                                             |
| Connection            | G 1/4 IT                                                                                            |
| Exhaust connection    | G 1/4 IT                                                                                            |
| Flow cross-section    | 12.0 mm <sup>2</sup> (Cv = 0.67)                                                                    |
| Flow rate measurement | at P <sub>1</sub> = 8 bar, P <sub>2</sub> = 6 bar and pressure drop Δ <sub>p</sub> = 1 bar          |
| Flow rate             | 550 l/min                                                                                           |
| Medium                | filtered compressed air (min. ≤ 40 μm) with or without lubrication. If lubricated, then continuous. |
| Operating pressure    | 0 - 10 bar                                                                                          |
| Test pressure         | 15 bar                                                                                              |
| Temperature range     | -20 to 70 °C                                                                                        |
| Valve body            | aluminium alloy                                                                                     |
| Series                | M3                                                                                                  |

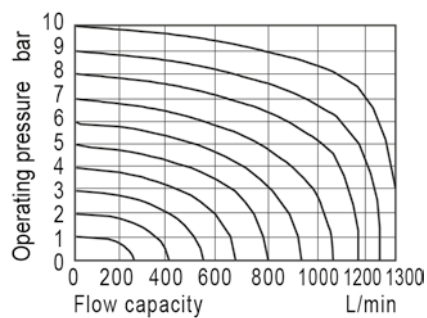
## Commercial data

|                         |                  |
|-------------------------|------------------|
| Customs tariff number   | 84818079         |
| Country of origin       | CN               |
| eCl@ss 5.1.4            | 27291701         |
| eCl@ss 9.0              | 27291390         |
| UNSPSC_Code_v190501     | 40141603         |
| UNSPSC_CodeDesc_v190501 | Pneumatic valves |

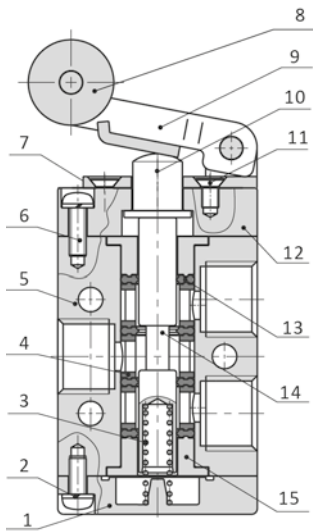
## Material informations

|                            |                         |
|----------------------------|-------------------------|
| REACH SVHC1 substance name | lead                    |
| CAS no. SVHC 1             | 7439-92-1               |
| RoHS materials notice      | RoHS compliant          |
| REACH Info                 | contains SVHC substance |

## Flow chart

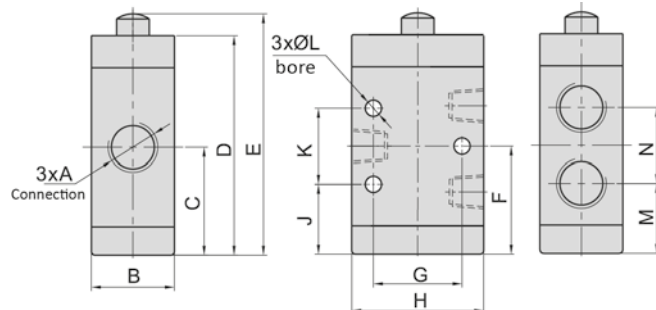


## Components and material



| No. | Item           | Material        |
|-----|----------------|-----------------|
| 1   | Cover          | PA66            |
| 2   | Screw          | Steel           |
| 3   | Spring         | Stainless steel |
| 4   | Spacer         | POM             |
| 5   | Body           | Aluminium alloy |
| 6   | Screw          | Steel           |
| 7   | Holder         | Steel           |
| 8   | Roller         | Hardened steel  |
| 9   | Roller lever   | Steel           |
| 10  | Press bolt     | Steel           |
| 11  | Screw          | Steel           |
| 12  | Cover          | Aluminium alloy |
| 13  | O-ring         | NBR             |
| 14  | Spool          | Aluminium alloy |
| 15  | Centering bush | Aluminium alloy |

## Dimensions [mm]



| Connection | Exhaust connection | B    | C    | D    | E    | F    | G    | H    | J    | K    | L   |
|------------|--------------------|------|------|------|------|------|------|------|------|------|-----|
|            |                    | mm   | mm   | mm   | mm   | mm   | mm   | mm   | mm   | mm   | mm  |
| G 1/4 IT   | G 1/4 IT           | 22.0 | 28.5 | 58.0 | 63.8 | 28.5 | 23.5 | 35.0 | 18.5 | 20.0 | 4.3 |

| M    | N    |
|------|------|
| mm   | mm   |
| 18.5 | 20.0 |

## Technical information

### Port identification pneumatic valves

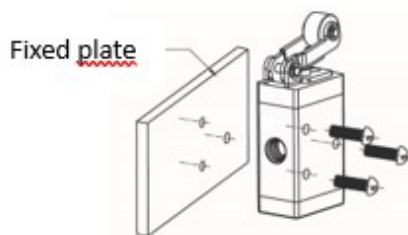
|              | Designation at the valve | corresponds to ISO 1219-1 |
|--------------|--------------------------|---------------------------|
| Input port   | P                        | 1                         |
| Output port  | A                        | 2                         |
| Output port  | B                        | 4                         |
| Exhaust port | R                        | 3                         |
| Exhaust port | S                        | 5                         |
| Control port | Y                        | 12                        |
| Control port | Z                        | 14                        |

### Reversal stroke

| Version                       | Spool stroke | Button/lever stroke |
|-------------------------------|--------------|---------------------|
| Plunger                       | 2.0 to 3.3   | -                   |
| Roller lever                  | 2.0 to 3.0   | 4.6 to 6.8          |
| Roller lever with free return | 2.0 to 3.0   | 5.0 to 7.8          |

### Assembly chart

#### Body mounting



#### Panel mounting

