

# One-way flow control valve VFOE-LE-T-R18-Q6-F1A

Part number: 8157639

**FESTO**



[PDF](#) General operating condition

## Data sheet

| Feature                                                  | Value                                                                                                                                                                                                                          |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Valve function                                           | Exhaust air flow control non-return function                                                                                                                                                                                   |
| Pneumatic connection 1                                   | QS-6                                                                                                                                                                                                                           |
| Pneumatic connection 2                                   | R1/8                                                                                                                                                                                                                           |
| Actuation type                                           | Manual                                                                                                                                                                                                                         |
| Adjusting element                                        | Rotary knob with detent                                                                                                                                                                                                        |
| Type of mounting                                         | Screw-in                                                                                                                                                                                                                       |
| Standard nominal flow rate in flow control direction     | 165 l/min                                                                                                                                                                                                                      |
| Standard nominal flow rate in non-return direction       | 110 l/min ... 200 l/min                                                                                                                                                                                                        |
| Ambient temperature                                      | -10 °C ... 60 °C                                                                                                                                                                                                               |
| Housing material                                         | PBT                                                                                                                                                                                                                            |
| Explosion prevention and protection                      | Observe the information on the certificate<br>Zone 1 (ATEX)<br>Zone 2 (ATEX)<br>Zone 21 (ATEX)<br>Zone 22 (ATEX)                                                                                                               |
| Mounting position                                        | Any                                                                                                                                                                                                                            |
| Symbol                                                   | 00991452                                                                                                                                                                                                                       |
| Width across flats                                       | 13 mm                                                                                                                                                                                                                          |
| Rotatability                                             | 360 deg/continuous swiveling not permissible                                                                                                                                                                                   |
| Variants                                                 | Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils. |
| Operating pressure for entire temperature range          | 0.02 MPa ... 1 MPa                                                                                                                                                                                                             |
| Operating pressure for entire temperature range          | 0.2 bar ... 10 bar                                                                                                                                                                                                             |
| Operating pressure for entire temperature range          | 2.9 psi ... 145 psi                                                                                                                                                                                                            |
| Standard flow rate in flow control direction 6 -> 0 bar  | 280 l/min                                                                                                                                                                                                                      |
| Standard flow rate in non-return direction at 6 -> 0 bar | 300 l/min ... 360 l/min                                                                                                                                                                                                        |
| 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)                                                                                                                                                             |
| LABS (PWIS) conformity                                   | VDMA24364 zone III                                                                                                                                                                                                             |

| Feature                                            | Value                                                              |
|----------------------------------------------------|--------------------------------------------------------------------|
| Suitability for the production of Li-ion batteries | Suitable for battery production with reduced Cu/Zn/Ni values (F1a) |
| Cleanroom class                                    | Class 4 according to ISO 14644-1                                   |
| Temperature of medium                              | -10 °C ... 60 °C                                                   |
| Product weight                                     | 9.5 g                                                              |
| Note on materials                                  | RoHS-compliant                                                     |
| Cover material                                     | PBT                                                                |
| Material of dynamic seals                          | HNBR                                                               |
| Threaded bolt material                             | Steel, chemically nickel-plated                                    |
| Releasing ring material                            | PBT                                                                |
| Static seal material                               | NBR                                                                |