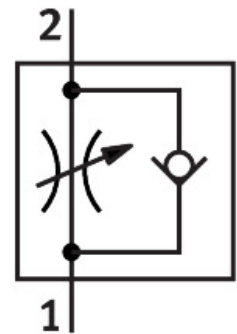


# One-way flow control valve VFOE-LE-T-R18-F1A

Part number: 8157638

FESTO



 [General operating condition](#)

## Data sheet

| Feature                                                                       | Value                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Valve function                                                                | Exhaust air one-way flow control function                                                                                                                                                                                      |
| Pneumatic connection, port 1                                                  | QS-8                                                                                                                                                                                                                           |
| Pneumatic connection, port 2                                                  | R1/8                                                                                                                                                                                                                           |
| Type of actuation                                                             | Manual                                                                                                                                                                                                                         |
| Adjustment component                                                          | Rotary knob with detent                                                                                                                                                                                                        |
| Type of mounting                                                              | Screw-in                                                                                                                                                                                                                       |
| Standard nominal flow rate in flow control direction                          | 170 l/min                                                                                                                                                                                                                      |
| Standard nominal flow rate in blocked direction                               | 130 l/min ... 200 l/min                                                                                                                                                                                                        |
| Ambient temperature                                                           | -10 °C ... 60 °C                                                                                                                                                                                                               |
| Material housing                                                              | PBT                                                                                                                                                                                                                            |
| 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)                                                                                                     |
| Mounting position                                                             | optional                                                                                                                                                                                                                       |
| Symbol                                                                        | 00991452                                                                                                                                                                                                                       |
| Width across flats                                                            | 13 mm                                                                                                                                                                                                                          |
| Rotatability                                                                  | 360°/no continuous swivelling 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 complete temperature range                                 | 0.02 MPa ... 1 MPa                                                                                                                                                                                                             |
| Operating pressure complete temperature range                                 | 0.2 bar ... 10 bar                                                                                                                                                                                                             |
| Operating pressure complete temperature range                                 | 2.9 psi ... 145 psi                                                                                                                                                                                                            |
| Standard flow rate in flow control direction 0.6-10 MPa (6-10 bar, 87-10 psi) | 320 l/min                                                                                                                                                                                                                      |
| Standard flow rate in non-return direction 0.6-10 MPa (6-10 bar, 87-10 psi)   | 320 l/min ... 390 l/min                                                                                                                                                                                                        |
| Operating medium                                                              | Compressed air to ISO 8573-1:2010 [7:4:4]                                                                                                                                                                                      |

| Feature                                            | Value                                                                                                                                                    |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note on operating and pilot medium                 | Lubricated operation possible (in which case lubricated operation will always be required)                                                               |
| LABS (PWIS) conformity                             | VDMA24364 zone III                                                                                                                                       |
| Suitability for the production of Li-ion batteries | Suitable for battery production according to the Festo internal definition of the degree of severity F1A with restrictions regarding the use of Cu/Zn/Ni |
| Cleanroom class                                    | Class 4 according to ISO 14644-1                                                                                                                         |
| Media temperature                                  | -10 °C ... 60 °C                                                                                                                                         |
| Product weight                                     | 9.5 g                                                                                                                                                    |
| Note on materials                                  | RoHS-compliant                                                                                                                                           |
| Material cover                                     | PBT                                                                                                                                                      |
| Material dynamic seals                             | HNBR                                                                                                                                                     |
| Material threaded bolt                             | Steel, chemically nickel-plated                                                                                                                          |
| Material release ring                              | PBT                                                                                                                                                      |
| Material static seals                              | NBR                                                                                                                                                      |