

# One-way flow control valve VFOE-LE-T-M5-Q4-F1A

Part number: 8157642

FESTO



 [General operating condition](#)

## Data sheet

| Feature  | Value  |
|--|--|
| Valve function   | Exhaust air flow control non-return function   |
| Pneumatic connection 1                                   | QS-4   |
| Pneumatic connection 2                                   | M5   |
| Actuation type   | Manual   |
| Adjusting element  | Rotary knob with detent  |
| Type of mounting   | Screw-in   |
| Standard nominal flow rate in flow control direction     | 90 l/min   |
| Standard nominal flow rate in non-return direction       | 50 l/min ... 90 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                                       | 9 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  | 150 l/min  |
| Standard flow rate in non-return direction at 6 -> 0 bar | 130 l/min ... 160 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   |

| <b>Feature</b>  | <b>Value</b>   |
|---|--|
| Suitability for the production of Li-ion batteries        | Suitable for battery production with reduced Cu/Zn/Ni values (F1a) |
| Cleanroom suitability, measured according to ISO 14644-14 | Class 4 according to ISO 14644-1                                   |
| Temperature of medium                                     | -10 °C ... 60 °C   |
| Max. tightening torque                                    | 2.4 Nm   |
| Nominal tightening torque                                 | 2 Nm   |
| Tolerance for nominal tightening torque                   | ± 20%  |
| Product weight  | 3.3 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  |