

# Dispense head VTOE-8-D8-T3-M22C-08-F-P-P-M

Part number: 8063638

**FESTO**



## Data sheet

| Feature                                    | Value                                                                                      |
|--------------------------------------------|--------------------------------------------------------------------------------------------|
| Valve function                             | 2/2, closed, monostable                                                                    |
| Fluid connector                            | 8x UNF1/4-28                                                                               |
| Type of mounting                           | Optionally:<br>With through-hole for M3 screw<br>With internal thread and centering sleeve |
| Materials in contact with the media        | ETFE<br>FFPM<br>PEEK<br>High-alloy stainless steel                                         |
| Mounting position                          | Any                                                                                        |
| Note on fluid connector                    | Fitting enclosed for pneumatic tubing with 3 mm outside diameter                           |
| Duty cycle                                 | 50 % (max. switch-on time 1 s)                                                             |
| Note on power consumption                  | Specification per pneumatic valve                                                          |
| Material number for dosing needle          | 1.4301                                                                                     |
| Material of dosing needle                  | High-alloy stainless steel                                                                 |
| Electrical connection                      | 9-pin<br>Plug<br>Sub-D                                                                     |
| Width dimension                            | 9 mm                                                                                       |
| Nominal width of dosing needle             | 0.6 mm                                                                                     |
| Storage temperature                        | -20 °C ... 70 °C                                                                           |
| Product weight                             | 220 g                                                                                      |
| Internal volume                            | 113 µl valve with fluid connections                                                        |
| Water flow rate at max. operating pressure | 1300 µl/s                                                                                  |
| Operating pressure                         | 0 psi ... 7.25 psi                                                                         |
| Operating pressure                         | 0 MPa ... 0.05 MPa                                                                         |
| Note on dosing precision                   | Depending on the configuration, environment and application                                |
| Note on switching frequency                | Dependent on the ambient temperature and installation state                                |
| Note on dosing volume                      | Depending on the configuration, environment and application                                |
| Relative air humidity                      | 0 - 95 %<br>Non-condensing                                                                 |
| Nominal altitude of use above sea level    | ≤ 2000 m NHN                                                                               |
| Typical dosing precision                   | <1% CV for volumes >5 µl<br><2.5% CV for volumes between 1-5 µl                            |
| Information on medium                      | Observe resistance of materials that come into contact with media                          |
| Application note                           | See application note (available on the support portal at festo.com)                        |
| Note on switching time on                  | Depending on the configuration, environment and application                                |
| Contamination level                        | 2                                                                                          |

| Feature                          | Value                                                                                |
|----------------------------------|--------------------------------------------------------------------------------------|
| Note on switching time off       | Depending on the configuration, environment and application                          |
| Medium                           | Liquid media                                                                         |
| Note on degree of protection     | In mounted state                                                                     |
| Length of dosing needle          | 30 mm                                                                                |
| Min. dosing volume               | 3 µl                                                                                 |
| On switching time                | 7 ms                                                                                 |
| Switching time off               | 2 ms                                                                                 |
| Electrical power consumption     | 1.8 W                                                                                |
| Operating pressure               | 0 bar ... 0.5 bar                                                                    |
| Nominal width                    | 0.8 mm                                                                               |
| Type code                        | VTOE                                                                                 |
| Sealing principle                | Soft                                                                                 |
| Reset method                     | Mechanical spring                                                                    |
| Type of control                  | Direct                                                                               |
| Max. switching frequency         | 4 Hz                                                                                 |
| Nominal operating voltage DC     | 24 V                                                                                 |
| Permissible voltage fluctuations | +/- 10 %                                                                             |
| Vibration resistance             | Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 |
| Shock resistance                 | Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27                |
| Corrosion resistance class (CRC) | 0 - No corrosion stress                                                              |
| Temperature of medium            | 5 °C ... 50 °C                                                                       |
| Degree of protection             | IP30                                                                                 |
| Ambient temperature              | 5 °C ... 40 °C                                                                       |
| Note on materials                | Contains paint-wetting impairment substances<br>RoHS-compliant                       |
| Actuation type                   | Electrical                                                                           |