

# Dispense head VTOE-D8-T3-M22C-08-V-S-PC-S

Part number: 8063370

**FESTO**



 [General operating condition](#)

## Data sheet

| Feature                                    | Value                                                                                    |
|--------------------------------------------|------------------------------------------------------------------------------------------|
| Valve function                             | 2/2-way, closed, monostable                                                              |
| Operating pressure                         | 0 MPa ... 0.05 MPa                                                                       |
| Operating pressure                         | 0 bar ... 0.5 bar                                                                        |
| Operating pressure                         | 0 psi ... 7.25 psi                                                                       |
| Internal volume                            | 113 µl valve with fluid connections                                                      |
| Nominal size                               | 0.8 mm                                                                                   |
| Nominal width of dosing needle             | 0.6 mm                                                                                   |
| Length of dosing needle                    | 30 mm                                                                                    |
| Grid dimension                             | 9 mm                                                                                     |
| Sealing principle                          | Soft                                                                                     |
| Mounting position                          | optional                                                                                 |
| Type of reset                              | Mechanical spring                                                                        |
| Type of piloting                           | Direct                                                                                   |
| Water flow rate at max. operating pressure | 1300 µl/s                                                                                |
| Min. dosing volume                         | 3 µl                                                                                     |
| Note on dosing volume                      | Depends on configuration, environment and application                                    |
| Typical dosing precision                   | <1% CV für Volumina >5 µl<br><2.5% CV for volumes between 1-5 µl                         |
| Note on dosing precision                   | Depends on configuration, environment and application                                    |
| Max. switching frequency                   | 4 Hz                                                                                     |
| Note on switching frequency                | Dependent on the ambient temperature and installation state                              |
| Switching time on                          | 7 ms                                                                                     |
| Note on switching time on                  | Depends on configuration, environment and application                                    |
| Switching time off                         | 2 ms                                                                                     |
| Note on switching time off                 | Depends on configuration, environment and application                                    |
| Duty cycle                                 | 100% with individual mounting<br>50% in case of block mounting (max. switch-on time 1 s) |
| Electrical power consumption               | 1.8 W                                                                                    |
| Nominal operating voltage DC               | 24 V                                                                                     |
| Permissible voltage fluctuations           | +/- 10 %                                                                                 |
| Medium                                     | Liquid media                                                                             |
| Note on the medium                         | Observe resistance of materials that come into contact with the media                    |
| Instructions on use                        | See application note (available on the Support Portal at festo.com)                      |
| Vibration resistance                       | Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6         |
| Shock resistance                           | Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27                        |

| Feature                             | Value                                                  |
|-------------------------------------|--------------------------------------------------------|
| Corrosion resistance class CRC      | 0 - No corrosion stress                                |
| LABS (PWIS) conformity              | VDMA24364-B2-L                                         |
| Storage temperature                 | -20 °C ... 70 °C                                       |
| Media temperature                   | 5 °C ... 50 °C                                         |
| Degree of protection                | IP30                                                   |
| Note on degree of protection        | In assembled state                                     |
| Ambient temperature                 | 5 °C ... 40 °C                                         |
| Product weight                      | 18 g                                                   |
| Electrical connection               | 2-wire<br>Cable<br>Open end                            |
| Cable length                        | 0.15 m                                                 |
| Wire ends                           | Sheath removed                                         |
| Conductor nominal cross section     | AWG28                                                  |
| Type of mounting                    | Via female thread and centring sleeve                  |
| Fluid connection                    | UNF1/4-28                                              |
| Note on fluid connection            | Fitting enclosed for tubing with 3 mm outside diameter |
| Material of dosing needle           | High-alloy stainless steel                             |
| Material number of dosing needle    | 1.4301                                                 |
| Note on materials                   | RoHS-compliant                                         |
| Material in contact with the medium | FPM<br>PC<br>PEEK<br>PPS<br>High-alloy stainless steel |
| Type of actuation                   | Electric                                               |
| Nominal altitude of use             | ≤ 2000 m NHN                                           |
| Relative air humidity               | 0 - 95%<br>Non-condensing                              |
| Pollution degree                    | 2                                                      |