

# Dispense head VTOE-8-D9-T3-M22C-08-V-S-PC-M

Part number: 8063636

**FESTO**



## Data sheet

| Feature                                    | Value                                                             |
|--------------------------------------------|-------------------------------------------------------------------|
| Valve function                             | 2/2-way, closed, monostable                                       |
| Operating pressure                         | 0 MPa...0.05 MPa<br>0 bar...0.5 bar<br>0 psi...7.25 psi           |
| Internal volume                            | 113 µl valve with fluid connections                               |
| Nominal width                              | 0.8 mm                                                            |
| Nominal width of dosing needle             | 1 mm                                                              |
| Length of dosing needle                    | 30 mm                                                             |
| Width dimension                            | 9 mm                                                              |
| Sealing principle                          | Soft                                                              |
| Mounting position                          | Any                                                               |
| Reset method                               | Mechanical spring                                                 |
| Type of control                            | directly                                                          |
| Water flow rate at max. operating pressure | 2000 µl/s                                                         |
| Min. dosing volume                         | 5 µl                                                              |
| Note on dosing volume                      | Depending on the 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                   | Depending on the configuration, environment and application       |
| Max. switching frequency                   | 4 Hz                                                              |
| Note on switching frequency                | Dependent on the ambient temperature and installation state       |
| On switching time                          | 7 ms                                                              |
| Note on switching time on                  | Depending on the configuration, environment and application       |
| Switching time off                         | 2 ms                                                              |
| Note on switching time off                 | Depending on the configuration, environment and application       |
| Duty cycle                                 | 50% (max. switch-on time 1 s)                                     |
| Electrical power consumption               | 1.8 W                                                             |
| Note on power consumption                  | Specification per pneumatic valve                                 |
| Nominal operating voltage DC               | 24 V                                                              |
| Permissible voltage fluctuations           | +/- 10%                                                           |
| Medium                                     | Liquid media                                                      |
| Information on medium                      | Observe resistance of materials that come into contact with media |

| Feature                                 | Value                                                                                         |
|-----------------------------------------|-----------------------------------------------------------------------------------------------|
| Application note                        | See application note (available on the support portal at festo.com)                           |
| 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                                                                       |
| LABS (PWIS) conformity                  | VDMA24364-B2-L                                                                                |
| Storage temperature                     | -20 °C...70 °C                                                                                |
| Temperature of medium                   | 5 °C...50 °C                                                                                  |
| Degree of protection                    | IP30                                                                                          |
| Note on degree of protection            | In mounted state                                                                              |
| Ambient temperature                     | 5 °C...40 °C                                                                                  |
| Product weight                          | 220 g                                                                                         |
| Electrical connection                   | 9-pin<br>Plug<br>Sub-D                                                                        |
| Type of mounting                        | Alternatively:<br>With through-hole for M3 screw<br>With internal thread and centering sleeve |
| Fluid connector                         | 8x UNF1/4-28                                                                                  |
| Note on fluid connector                 | Fitting enclosed for pneumatic tubing with 3 mm outside diameter                              |
| Material of dosing needle               | high-alloy stainless steel                                                                    |
| Material number for dosing needle       | 1,4301                                                                                        |
| Note on materials                       | RoHS compliant                                                                                |
| Materials in contact with the media     | ETFE<br>FPM<br>PC<br>PEEK<br>PPS<br>high-alloy stainless steel                                |
| Actuation type                          | Electrical                                                                                    |
| Nominal altitude of use above sea level | <= 2000 m NHN                                                                                 |
| Relative air humidity                   | 0 - 95%<br>Non-condensating                                                                   |
| Contamination level                     | 2                                                                                             |