

Dispense head

VTOE-8-D7-T3-M22C-08-F-P-P-M

FESTO

Part number: 8063637



 General operating condition

Data sheet

| Feature | Value |
|--------------------------------------------|--------------------------------------------------------------------------------------|
| Valve function | 2/2, 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 width | 0.8 mm |
| Nominal width of dosing needle | 0.32 mm |
| Length of dosing needle | 30 mm |
| Width dimension | 9 mm |
| Sealing principle | Soft |
| Mounting position | Any |
| Reset method | Mechanical spring |
| Type of control | Direct |
| Water flow rate at max. operating pressure | 370 µl/s |
| Min. dosing volume | 1 µl |
| Note on dosing volume | Depending on the configuration, environment and application |
| Typical dosing precision | <1% CV für Volumina >5 µl <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 |
| 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 |

| Feature | Value |
|-----------------------------------------|-----------------------------------------------------------------------------|
| 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 | Plug Sub-D |
| Type of mounting | With through-hole for M3 screw 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 | High-alloy stainless steel |
| Actuation type | Electrical |
| Nominal altitude of use above sea level | ≤ 2000 m NHN |
| Relative air humidity | Non-condensing |
| Contamination level | 2 |