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

Part number: 8063638



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	0.6 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	1300 µl/s
Min. dosing volume	3 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	9-pin Plug Sub-D
Type of mounting	Optionally: 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	ETFE FFPM PEEK High-alloy stainless steel
Actuation type	Electrical
Nominal altitude of use above sea level	<= 2000 m NHN
Relative air humidity	0 - 95 % Non-condensing
Contamination level	2