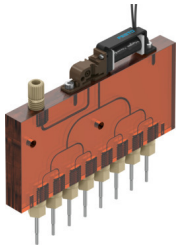
Dispense head
VTOI-V8-30D3-U14-08-V-S015-1

Part number: 8114037



Data sheet

Feature	Value
Valve function	2/2-way, closed, monostable
Operating pressure	0 MPa...0.1 MPa 0 bar...1 bar 0 psi...14.5 psi
Internal volume	10 µl fluid chamber valve 178 µl distributor block with valve, needle and fittings
Nominal width	0.8 mm
Nominal width of dosing needle	0.3 mm
Length of dosing needle	30 mm
Width dimension	9 mm
Sealing principle	Soft
Mounting position	Vertical
Reset method	Mechanical spring
Type of control	directly
Suitability for vacuum	No
Min. dosing volume	1 µl
Note on dosing volume	Depending on the configuration, environment and application
Typical dosing precision	≤5% Tip-to-Tip CV ≤ 3% Intra-run CV
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	100%
Electrical power consumption	1.8 W
Nominal operating voltage DC	24 V
Permissible voltage fluctuations	+/- 10%
Medium	Liquid media Gaseous media
Information on medium	Maximum particle size 20 µm

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	5 °C...40 °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	52 g
Electrical connection	2-core 2x single conductor Open end
Cable length	0.15 m
Wire ends	Stripped
Nominal conductor cross section	AWG28
Type of mounting	With through-hole for M3 screw
Fluid connector	Internal thread 1/4-28 UNF-2B
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	1,4404
Note on materials	RoHS compliant
Materials in contact with the media	ETFE FPM PEI PPS high-alloy stainless steel
Actuation type	Electrical
Nominal altitude of use above sea level	<= 2000 m NHN
Relative air humidity	0 - 95% Non-condensating