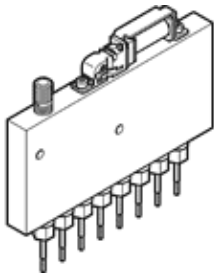


# dispense head

## VTOI-V8-30D3-U14-08-V-S015-1

Part number: 8114037

FESTO



### Data sheet

Feature	Value
Valve function	2/2 closed, monostable
Operating pressure MPa	0 ... 0.1 MPa
Operating pressure	0 ... 1 bar 0 ... 14.5 psi
Internal volume	10 µl fluid chamber valve 178 µl distributor block with valve, needle and fittings
Nominal size	0.8 mm
Nominal width of dosing needle	0.3 mm
Length of dosing needle	30 mm
Grid dimension	9 mm
Sealing principle	soft
Assembly position	Vertical
Type of reset	mechanical spring
Type of piloting	direct
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
Switching time on	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 fluctuation	+/- 10 %
Medium	Fluid media Gaseous media
Note on the medium	Maximum particle size 20 µm
Instructions for use	See application note (available on the Support Portal at festo.com)
Vibration resistance	Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27
Corrosion resistance classification CRC	0 - No corrosion stress
PWIS conformity	VDMA24364-B2-L
Storage temperature	5 ... 40 °C
Medium temperature	5 ... 50 °C
Protection class	IP30
Note on degree of protection	in assembled condition
Ambient temperature	5 ... 40 °C
Product weight	52 g

Feature	Value
Electrical connection	2-core 2 single wires Open end
Cable length	0.15 m
Wire ends	Sheath removed
Nominal conductor cross section (AWG)	AWG28
Mounting type	With through-hole for M3 screw
Fluid connection	Female thread 1/4-28 UNF-2B
Note on fluid connection	Fitting provided for tubing with an outside diameter of 3 mm
Material of dosing needle	High alloy steel, non-corrosive
Material number of dosing needle	1.4404
Materials note	Conforms to RoHS
Materials in contact with media	ETFE FPM PEI PPS High alloy steel, non-corrosive
Type of actuation	electrical
Nominal altitude of use	≤ 2000 m NHN
Relative air humidity	0 - 95 % non-condensing