

Your specialist in microdispensing



MDS 3200A

- ▲ Non contact jetting, precise, powerful, versatile
- ▲ Vermes Microdispensing Systems for medium and high viscous media up to 2.000.000 mPas

▲ Speed:

Extremely fast opening and closing of valve
Real time opening and closing of valve at full stroke with up to 1000 Hz

▲ Versatility:

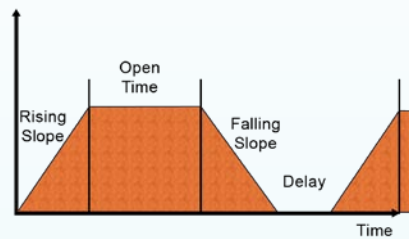
Freely combinable and adjustable parameter settings allow customizing the jet properties to user requirements and fluid properties

▲ Precision:

High repeatability of drop-to-drop dispensing volume for media of all viscosities
Enhanced valve-to-valve repeatability based on automatic valve calibration features
Precise positioning onto miniature parts, dispensing into cavities, grooves and irregular surfaces

▲ Force:

Converting the force of the latest generation piezo through sophisticated mechanics, the MDS 3200A can jet highest viscosity media with pressures up to 1000 bar



Modularity

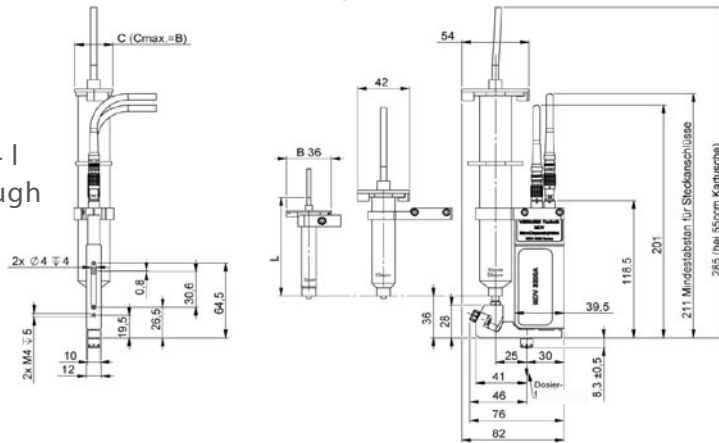
The modular design of Vermes MDS 3200A allows users defined configurations for various applications. Even for Low Volume High Mix Applications the user can adjust the same MDS 3200A to very different process and fluid parameters:

- ▲ Different nozzle sizes and shapes for different fluids and droplet sizes
- ▲ Different tappet geometries for achieving optimum performance
- ▲ Virtually unlimited media compatibility – all components in contact with the medium can be chosen from a list of different materials, one meeting your requirements

MDS 3200A

Choice of media supply

- ▲ 3 ml to 55 ml cartridge directly at the valve
- ▲ Pressure tank 0.25 l to 4 l
- ▲ Customer defined through hose interface
- ▲ Nozzle heating – can also be retrofitted



Low Total Cost of Ownership (TCO)

Easy and fast cleaning; only straight bore holes; all parts with media contact are easily removable:

- ▲ Parts can be exchanged in 5 min, then cleaned off-line while production continues
- ▲ Parts can completely be cleaned in ultrasonic bath or even sterilized
- ▲ Parts can be exchanged if glue hardens inside – no need to throw away entire valve
- ▲ All parts subject to abrasion can be exchanged by line technician – no need to send in valve for inspection

Micro Dispensing Valve	MDS 3200A	
recommended media	SMT adhesives (also filled conductive glues with high solid content), silicones, underfill materials, other high viscosity media	
dispensing quantity	min. 2 nl per pulse (depending on medium)	
dynamic viscosity	medium-, high- and highest viscous media up to ab. 2Mio mPas	
tappet version	exchangeable, different shapes, monolithic ceramics	
supply pressure	0,1 to 8 bar sufficient for most applications, more possible	
media resistance	resistant against a very wide range of media, as all components in contact with medium can be selected from list of materials	
dispensing frequency (max)	1000Hz at full stroke	
dimensions	Valve: 115 x 39,5 x 12 mm	Control unit: 101,6 mm x 295 mm x 128,4 mm for Installation into 19"-Rack
weight	Min 258 g (je nach Konfiguration)	
power connection	110 / 240 VAC, 50 / 60Hz power socket (back side)	
valve operating modes	Burst Mode – predefined burst after trigger signal Infinite Mode – number of shots controlled by external trigger External Mode – open time controlled by external trigger	
heating system (optional)	regulated nozzle heating: 80 °C, higher upon request	
parameter sets memory	10 sets internally, externally unlimited	
standard interfaces	RS232C; 24V / 5V PLC	
additional functionality	multiple user defined cycle counts (e.g. media use, wear & tear of tappet, nozzle)	