

VERMES
MDS 3200A

POLY DISPENSING SYSTEMS

SYSTEMES DE DOSAGE INDUSTRIEL



SPEED

Extremely fast opening and closing of valve at full stroke with up to 3000 Hz

VERSATILITY

- Freely adjustable parameter settings allow customizing the jet properties to requirements and fluid properties
- Electronic control unit allows change of dispensing parameters without delay

PRECISION

- High repeatability of drop-to-drop dispensing volume for material of all viscosities
- Precise positioning onto miniature parts dispensing into cavities, slots and irregular surfaces

FORCE

Converting the force of the latest generation piezo through sophisticated mechanics, the MDS 3200A can jet highest viscosity material 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 material compatibility– all components in contact with the fluid chamber can be chosen from a list of different materials, one meeting your requirements

CHOICE OF MATERIAL SUPPLY

- 3 ml to 55 ml syringe directly at the valve
- Customer defined through hose interface, e.g. pressure tank
- Nozzle heating – can also be retrofitted

VARIANTS

Next to the standard version of the MDS 3200A there are two variants for special applications:

- Compact (CP) – more compact build with electronics module at the side, allows for use in pre-determined machine configurations – without loss in performance
- Highspeed (HS) – a variant specially designed for applications which regularly demand highest speeds

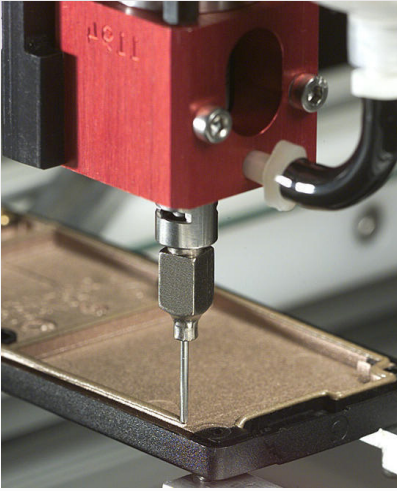
LOW TOTAL COST OF OWNERSHIP (TCO)

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

- Parts can be exchanged in 5 min, then cleaned off-line while production continues
- Parts can be cleaned completely in an ultrasonic bath or even sterilized
- All parts subject to abrasion can be exchanged locally

Recommended media	SMT adhesives (also filled conductive glues with high solid content), silicones, underfill materials, other high viscosity media	
Dispensing quantity	Min. 1nl per pulse (depending on medium), highest dot precision with additional independent pulse time control	
Dynamic viscosity	Medium - high - and highest viscous media up to 2 Mio mPas	
Tappet	Exchangeable, different shapes, monolithic ceramics	
Supply pressure	0,1 - 8 bar, max. 100 bar	
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.)	3000 Hz	
Dimensions	Valve : 115 x 39.5 mm x 12 mm	Control unit : 101.6 mm x 295 mm x 128.4 mm for installation into 19" rack
Weight	Min. 258g (depending on configuration)	
Power connection	110/240 V AC, 50/60 Hz power socket (back side) controller power : 130 watt	
Valve operating modes	Burst mode : predefined burst after trigger signal Single shot mode : one shot after the trigger signal Infinite mode : number of shots controlled by external trigger External mode : open time controller by external trigger	
Heating system (optional)	Regulated nozzle heating : 120° C, higher upon request	
Parameter sets memory	4 sets internally can be switched in real time 10 sets internally, externally unlimited	
Standard interfaces	RS232C; 24V / 5V PLC, AUX	
Additional functionality	Multiple user defined cycle counts (e.g. media use, wear & tear of tappet, nozzle)	

Poly Dispensing Systems



PDS S.A.S is a french company that commercializes a wide range of dosage equipments, proven and effective.

Distributed in over 20 countries around the world, these equipments provide tailored solutions to many users in order to improve technically their manufacturing and reduce their productions costs.

Our collaborators and sales engineers all have a strong technical competences. They are able to answer your questions and offer you, after analysis, the right solution for your particular need

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