



VERMES  
MDS 3010A / 3020A

**POLY DISPENSING SYSTEMS**  
S Y S T E M E S   D E   D O S A G E   I N D U S T R I E L



## MICRO DISPENSING SYSTEM

With their modular build, the VERMES Microdispensing systems MDS 3010A/ MDS 3020A can be used for a wide range of applications.

- Life Science, medical diagnostics : Water based cell and protein solutions
- Glues: UV glues, cyanacrylate, anaerobic glues
- Other electronics: solder flux, selective coating
- Oiling and greasing – fine mechanics, watch industry

## MODULARITY

The modular design of VerMES MDS 3010A/ MDS 3020A allows user to define configurations for various applications. Even for Low Volume High Mix Applications the user can adjust the same MDS 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 compatibility – all components in contact with the equipment can be chosen from a list of different materials, one meeting your requirements

## SELECTION OF MEDIA SUPPLY :

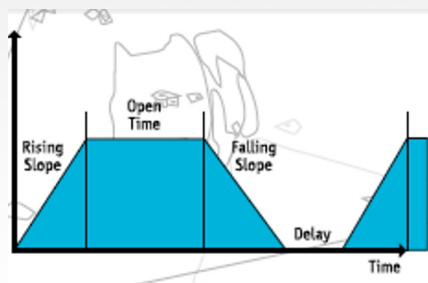
- 3 ml to 55 ml cartridge directly at the valve
- Customer defined through tube connection

## OPTIONAL HEATER

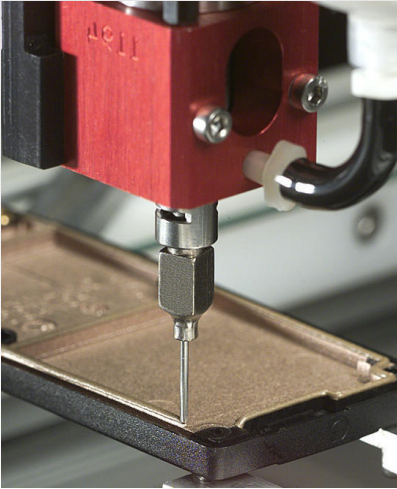
- Local nozzle heater – can be added as an upgrade
- External heater controller for advanced applications available

## FLEXIBLE PARAMETER SETTINGS

- Flexible setting of tappet movement
- Highly precise setting of opening point



Recommended media	Alcohol like media, agents, watery chemical solutions, low viscous adhesives (for exemple cyanos)	
Dispensing quantity	Min. 5nl per pulse	
Dynamic viscosity	MDS 3010A up to 300 mPas MDS 3020A low-medium viscous media up to 8.000 mPas	
Tappet version	Monolithics, carbide, different forms, exchangable.	
Supply pressure	0,1 - 8 bar	
Max. dispensing frequency	3000 Hz	
Average dispensing frequency	1000 Hz	
Operating temperature range	10°C to 50°C	
Heating systems (optional)	Regulated nozzle heating : 120° C higher upon request	
Dimensions (basic version)	Valve : 103 x 39.5 mm x 10 mm	Control unit : 101.6 mm x 173 mm x 128.4 mm for 19 ". Rack (3HE, 20 TE)
Weight	Valve : ca.210g. Controller : 1350g	
Valve position at current less state	Closed, no energy consumption (Normally Closed)	
Resistance	To all aqueous media, organic solvents, weak acids and bases	
Supply units (optional)	MDX (fluid pressure reservoir, configurable) MDX (cartbridge connection, Luer-Lock)	
Parameter memory	Internally: 10, extern : unlimited	
Standard interfaces	RS232C; 24V / 5V PLC, AUX	



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

FRANCE - SWITZERLAND  
NORTH AFRICA

Poly Dispensing Systems  
122, Chemin de la Cavée  
78630 Orgeval

FRANCE

☎ + 33 (0)1 39 62 40 92

📠 + 33 (0)1 39 62 40 94

[www.polydispensing.com](http://www.polydispensing.com)

BELGIUM - HOLLANDE  
LUXEMBOURG

Gentec Benelux  
Rue de L'Industrie, 12  
B-1400 Nivelles

BELGIUM

☎ +32 2 351 1800

📠 +32 2 351 1962

[www.gentec-benelux.com](http://www.gentec-benelux.com)

- NON CONTRACTUAL DOCUMENT -

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