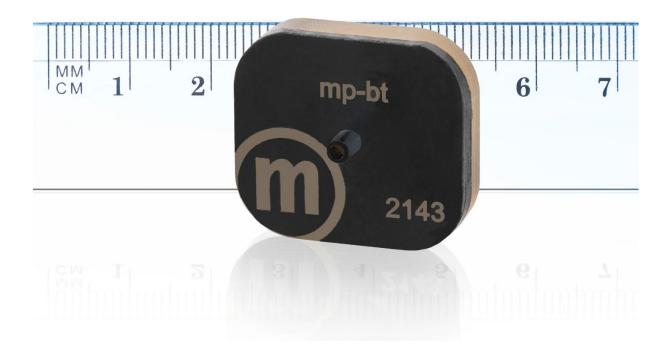


Accessories Catalogue



Summary

This catalogue deals with pre-selected, reasonable accessories enabling full functionality and adding features to micropumps.

That is why besides the micropump we also offer microfluidic equipment like bubble traps, hoses, hose clamps, manifolds, and much more. With the help of these components, you can build up your microfluidic system quickly and easily.



Contents

_	Office	165	
1	Revi	sion History	3
2	Mic	opump Accessories	4
	2.1	Bubble Trap mp-bt	4
	2.2	Micro Filter mp-f	4
	2.3	Passive Check Valves	4
	2.3.	1 mp-cv	5
	2.3.2	2 sm-cv	5
	2.4	Pulsation Damper mp-Damper	5
	2.5	Microfluidic Reservoir Bundle	6
	2.6	Tubing connector mp-y	6
	2.7	Tygon Tubing mp-t	6
	2.8	Silicone Tubing mp-s	7
	2.9	Hose Clamp mp-hc	7
	2.10	Micropump Mounting frame mp-mf	7
	2.11	Active Valve 2/2-Way with Media Seperation by Takasago	8
	2.12	Bistable Valve 2/2-Way with Media Seperation by Memetis	8
	2.13	Active Valve 2/2-Way with Media Seperation by Memetis	9
	2.14	Active Valve 3/2-Way without Media Seperation by Festo	9
	2.15	Active Valve 3/2-Way with Media Seperation by Bürkert	9
	2.16	Active Valve 2/2-Way with Media Seperation by Staiger	9
	2.17	Liquid Flow Sensors SLF3s-0600F & -1300F by Sensirion	10
	2.18	Gas Flow Sensor by Sensirion	10
	2.19	Gas Level Sensor VOC by Sensirion	11
	2.20	Gas Level Sensor CO2 by Sensirion	11
	2.21	Pressure Sensor by Honeywell	11
	2.22	Microfluidic Chips by microfluidic ChipShop	12
	2.23	Microfluidic Chips by Micronit	12
	2.24	mp6-con cable for mp-Labtronix	12
	2.25	Flex Cable Connector	13
3	Imp	Important Notices	
	3.1	Warranty	14
	3.2	Warning, Personal Injury	15
4	Com	pany information	16



1 Revision History

Changes from v1.2 to v1.3

- New chapter: 1 Revision History added
- New sub chapter: 2.10 Memetis 2/2-way bistable valve
- Wetted Materials in 2.3.2 updated
- Wetted Material in 2.9 updated
- Fluidic connectors added in 2.9
- Compatible drivers in 2.9 updated

Changes from v1.3 to v1.4

• New sub chapter: 2.5 Reservoir Bundle

Changes from v1.4 to v1.5

• New sub chapter: mp-s

Changes from v1.5 to v1.6

• New sub chapter: Microfluidic Chip by Micronit

Changes from v1.6 to v1.7

- New sub chapter: Gasflow Sensor by Sensirion
- Photo added for sub chapter 2.17

Changes from v1.7 to v1.8

- New sub chapter: Festo 3/2-way solenoid valve (not media separated)
- New sub chapter: Bürkert 3/2-way solenoid valve (media separated)
- Chapter Warning, Personal Injury: Paragraph 4 extended
- Correction: several order codes
- Extended: Internal volume for mp-damper

Changes from v1.8 to v1.9

• Grammar mistakes corrected

Changes from v1.9 to v1.10

• New sub chapters: VOC- & CO2 Sensor

Changes from v1.10 to v1.11

• Important Notice in 2.15 added

Changes from v1.11 to v1.12

- Order Codes added
- Staiger valve added

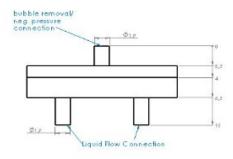


2 Micropump Accessories

2.1 Bubble Trap mp-bt

A bubble trap to get rid of bubbles in your flow stream.

Dimensions





Technical specification:

mp-bt Bubble Trap	Order code: BM-A-0016
Dimensions	17 x 19 x 10 mm
Material	PPSU, PET
Media	Water based solutions
ports	Ø 1,9mm suitable for 1,3mm mp-t
Internal volume	100 μΙ
Water Entry Pressure:	1,9 bar
Necessary neg. pressure	100 – 200 mbar
Necessary accessories	Bartels micropump @ 250Vpp/300Hz



2.2 Micro Filter mp-f

Depending on the particulate matter, the particle load has an influence on the performance of the micropump. The higher the load the larger the probability of clogging and blockage of the fluid channels. This can lead to a decline until stagnation of the flow rate of the micropump. We recommend only to pump liquids with a particle size smaller than 50 μ m. We recommend the use of filters if you are pumping media that has a particulate load.

Technical specifications:

mp-filter Micro Filter	Order code: BM-A-0044
Dimensions	21 mm x 5.5 mm (length x wrench size) 0.82677 in. x 0.2165 in.
Wetted material	PP, PPSU, DELO AD840
Fluidic connectors	barbed tube clip, length : 5.6 mm for tubing with internal diameter: 1.3 mm
Filter porosity	20 – 60 μm

2.3 Passive Check Valves

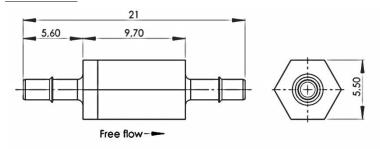
When the micropump is switched off, a back flow of the pumping medium, depending on a differential pressure between in- and outlet is possible. In order to impede a back-flow Bartels Mikrotechnik offers a passive check valve integrated in stainless steel.

The connection of the valves with the micropump can be done easily with suitable tubing. The valve should be placed between the micropump and the outlet reservoir. The valves are individually marked regarding the free flow direction. Please note that the volume flow of the micropump will be influenced by the check valve.



2.3.1 mp-cv

Dimensions:



Technical specifications:

mp-cv check valve	Order code: BM-A-0017
Dimensions	21 mm x 5.5 mm (length x wrench size) 0.82677 x 0.2165 in.
Materials in contact with the pumped media	silicone, stainless steel
Fluidic connectors	barbed tube clip, length : 5.6 mm for tubing with internal diameter: 1.3 mm
Cracking pressure	typical < 35 mbar
Max. back pressure	500 mbar
Typical leak rate	<20 μl/h for DI-water (at 500 mbar)



2.3.2 sm-cv

sm-cv check valve	Order code: BM-A-0033
Barbed	1/16"
Wetted Material	Polypropylene, Viton, Stainless Steel
Opening pressure	0.09 PSI



2.4 Pulsation Damper mp-Damper

This damper is designed to reduce the pulsation of fluids from micropumps to allow sensors to measure more reliable. For example, calorimetric flow sensors.

Technical specification:

mp-damper pulsation damper	Order code: BM-A-0018
Material	PPSU (black/transparent), silicone
Dimensions	17 x 19 x5 mm
Number of in-/ outlets	2
In-/ outlet inner diameter	1,4 mm
In-/ outlet outer diameter	1,6 mm
Internal voulume	133 μΙ
Operating temperature	+5°C up to 45°C
Wetted material	PPSU, silicone





2.5 Microfluidic Reservoir Bundle

This bundle is equipped with components realizing direct flow (i.e. closed-loop) and indirect flow (i.e. pressure driven flow) applications. It can also be utilized as a damping volume for gas application minimizing pulsation in combination with gas flow meters.

Microfluidic Reservoir Bundle	Order code : BM-A-0030
Included components	Vial, closure w/hole & septum, short dosing tip, long dosing tip, Male Luer to Barb connector (2x)
Dimensions vial	22.5 mm x 46 mm
Dimensions short dosing tip	ID: 1.6 mm, OD: 1.83 mm, Length: 38 mm
Dimensions long dosing tip	ID: 1 mm, OD: 1.4 mm, Length: 50 mm
Male Luer to Barb connector	OD Barb: 1/16 inch
Operating temperature	< 100°C
Wetted material	glass, stainless steel, PTFE, Silicone, metal (magnetic), PP



2.6 Tubing connector mp-y

The y-connector is suitable for a parallel operation of two micropumps.

Technical specifications:

mp-y tubing connector	Order code: BM-A-0025
Material	polypropylene (PP)
for tubing inner diameters of	1.3 – 2.6 mm 0.512 – 0.1024 in.



2.7 Tygon Tubing mp-t

The mp-t is a tube made of Tygon material that is compatible with the inlet and outlet of the micropump. The tube is available in two versions.

Technical specifications:

mp-t tubing	Order code: BM-A-0024 (ID 1.3 mm)	Order code: BM-A-0023 (ID 1.02 mm)
Inner diameter	1.3 mm	1.02 mm
Outer diameter	3 mm	2.74 .mm
Wall thickness	0.85 mm	
Sterilizable	Yes (autoclave or ethylene oxide)	
Color	transparent	
Packaging unit	1 m	
Suitable micropumps The Bartels Pump BP7 - Tubing, mp6-liq, mp6-gas, mp6-g		mp6-liq, mp6-gas, mp6-gas+





2.8 Silicone Tubing mp-s

The mp-s is a tube made of silicone material that is compatible with the inlet and outlet of the micropump.

Technical specifications:

mp-s tubing	Order code: BM-A-0022
Inner diameter	1 mm
Outer diameter	3 mm
Wall thickness	1 mm
Sterilizable	Yes (autoclave or ethylene oxide)
Color	Transparent/turbid



2.9 Hose Clamp mp-hc

The hose clamp mp-hc serves as a connector aiding the micropump functionality at high pressure applications, by preventing leakage at the micropumps fluidic connectors.

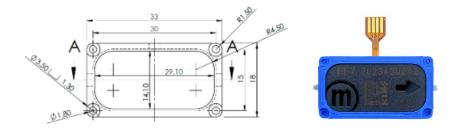
mp-hc host clamps	Order code: BM-A-0020
Material	PPSU
Dimensions in close state	4 x 5,1 x 2 mm (width in tube direction)
Inner diameter (closed)	3 mm



2.10 Micropump Mounting frame mp-mf

This frame helps to mount Bartels micropumps via screws.

Dimensions:



Technical specification:

mp-mf	Order code: BM-A-0021
Dimensions	33 x 18 x 4 mm
Material	PLA, blue
Suitable screw	M1,6



2.11 Active Valve 2/2-Way with Media Seperation by Takasago

An almost silent and low power active valve from the company Takasago. We cooperate with the German representative BMT.

Technical specification:

Takasago valve	Order code: BM-A-0002	
Valve type	2/2-way valve – normally closed	
Model number	SMV-2R-AN1F	
Dimensions	4 x 18,4 x 19 mm 0,62x 1,57 x 0,06 in.	
Operating temperature range	5 – 40°C	
Material	FPM, PPS	
Input current	250 mA	
Switching time	600ms	
Power consumption	0,3 W	
Compatible driver	mp-valvedriverT	
Fluidic Connectors	1.6 mm barb connectors	
For more information please check the data sheet of the manufacturer Takasago, which is available at https://www.pumps-valves.eu/		



2.12 Bistable Valve 2/2-Way with Media Seperation by Memetis

An almost silent and low power active valve on a very small footprint from the company Memetis. It does not consume any power within the switching states.

Memetis Bistable valve	Order code : BM-A-0003	
Valve type	2/2-way valve – bistable	
Model number	BV1101	
Dimensions	20 x 5 x 10.1 mm ³	
Operating temperature range	10 - 50°C	
Material	Silicone, PEEK	
Input current	500 mA	
Switching time	40 or 130 ms	
Energy per switching	75 mJ	
Compatible driver	mp-valvedriverM	
Fluidic Connectors	1.6 mm barb connectors	
For more information please check the data sheet of the manufacturer Memetis, which is available at https://www.memetis.com		





2.13 Active Valve 2/2-Way with Media Seperation by Memetis

An almost silent and compact valve from the company Memetis.

Memetis Bistable valve	Order code : BM-A-0026	
Valve type	2/2-way valve – bistable	
Model number	MVL-22-NC-08-14P-PEEK-SIL	
Dimensions	20 x 5 x 8.24 mm ³	
Operating temperature range	10 – 50°C	
Material	Silicone, PEEK	
Input current	450 mA	
Switching time	70 or 200 ms	
Power Consumption	255 mW	
Compatible driver	mp-valvedriverM	
Fluidic Connectors	1.6 mm barb connectors	
For more information please che available at https://www.memet	eck the data sheet of the manufacturer Memetis, which is	



2.14 Active Valve 3/2-Way without Media Seperation by Festo

Fast switching 3/2-way solenoid valve from the company Festo that is not media separated.

Festo valve	Order code: BM-A-0005	
Valve type	3/2-way valve – normally closed (not media separated)	
Model number	VOVK	
Dimensions	6 x 42.8 x 15.5 mm ³	
Operating temperature range	5 – 50°C	
Material	PBT, Steel	
Power consumption	0.5 W	
Switching time	<13 ms	
Input voltage	12 V	
Compatible driver	mp-valvedriverS	
Fluidic Connectors	1.5 mm barb connectors	
For more information please che available at www.festo.com	eck the data sheet of the manufacturer Festo, which is	



2.15 Active Valve 3/2-Way with Media Seperation by Bürkert

Fast switching media separated 3/2-way solenoid valve from the company Bürkert.

Bürkert valve	ve Order code : BM-A-0035	
Valve type	3/2-way valve – normally closed (media separated)	
Model number	Тур 6724	
Dimensions	9 x 44.8 x 40 mm ³	
Operating temperature range	5 – 50°C	
Material	EPDM, PEEK	
Power consumption	1 W	
Switching time	Ca. 3 ms	
Input voltage	12 V	
Compatible driver	mp-valvedriverS	
Fluidic Connectors	2 mm barb connectors	



2.16 Active Valve 2/2-Way with Media Seperation by Staiger

Fast switching media separated 2/2-way solenoid valve from the company Staiger.



Staiger valve	Order code : BM-A-0050		
Valve type	2/2-way valve – normally closed (media separated)		
Model number	613-000-013-X1		
Dimensions	5 mm (OD)		
Operating temperature range	5 – 50°C		
Material	FFKM, PEEK		
Power consumption	0.65 W		
Switching time	Ca. 1 ms		
Input voltage	12 V		
Compatible driver	mp-valvedriverS		
Fluidic Connectors	barb connectors		
For more information please check the data sheet of the manufacturer Staiger, which is available at https://www.staiger.de/			



2.17 Liquid Flow Sensors SLF3s-0600F & -1300F by Sensirion

Sensors from the SLF3x series by Sensirion are thermal flow sensors measuring the liquid flow rate of the pump.

Technical specification:

Liquid Flow Sensor	Order code: BM-A-0031 (0600) & BM-A-0032 (1300)	
Dimensions	48 x 15.5 x 8.9 mm ³	
Liquid Flow sensing	up to ±2000 μI/min (SLF3S-0600F) up to ±40 mI/min (SLF3S-1300F)	
Wetted materials:	PPS, stainless steel 316L, epoxy-based adhesive	
Biofilm can form from use and contamination on the sensor element, causing inaccurate measurements. Prevent with IPA rinses after every use and remove wi an enzymatic solution. Not covered under warranty.		
More information in the data she https://sensirion.com/	eet from the manufactuer Sensirion at	



2.18 Gas Flow Sensor by Sensirion

Sensors from the SDP81x series by Sensirion are thermal flow sensors measuring the air flow rate of the pump.

Technical specification:

Gas Flow Sensor	Order code: BM-A-0006	
Dimensions	29 x 10.25 x 18 mm ³	
Air Flow sensing	1 – 50 ml/min	
Calibrated for	Air, N ₂	
Wetted materials:	PBT (polybutylene terephthalate), glass (silicon nitride, silicon oxide), silicon, gold, FR4, silicone as static sealing, epoxy, copper alloy, lead-free solder	
Allowable overpressure	1 bar	
More information in the data sheet from the manufactuer Sensirion at https://sensirion.com/		





2.19 Gas Level Sensor | VOC by Sensirion

Sensor from the SGP4X series by Sensirion MOX sensors measuring the VOC Level of a gas phase.

Technical specification:

Gas Leve Sensor VOC	Order code : BM-A0046	
Dimensions	30 x 30 x 15,3 mm ³	
Supply Voltage	5V	
Measuring Range VOC	0 – 65535 ticks	
Measuring Range NOX	0 – 65535 ticks	
Interface	I ² C	
Allowable overpressure	1 bar	
More information in the data sheet from the manufactuer Sensirion at https://sensirion.com/		



2.20 Gas Level Sensor | CO2 by Sensirion

Sensor from the SCD4X series by Sensirion are high accuracy sensors measuring CO2 levels in a gas phase

Technical specification:

Gas Level Sensor COS	Order code : BM-A-0045	
Dimensions	29 x 10.25 x 18 mm ³	
Supply Voltage	5V	
Measuring Range	400 – 5000 ppm	
Interface	I ² C	
Allowable overpressure	1 bar	
More information in the data sheet from the manufactuer Sensirion at https://sensirion.com/		



2.21 Pressure Sensor by Honeywell

The pressure sensors from the ABP series by Honeywell offer an easy-to-use solution measuring pressure in liquid <u>and</u> gas systems.

Pressure Sensor	Order code: BM-A-0001	
Dimensions	8 mm x 7 mm	
Pressure range	Up to 15 psi	
Measures gage pressure		
More information in the data sheet from the manufacturer Honeywell available at https://www.honeywell.com/us/en		





2.22 Microfluidic Chips by microfluidic ChipShop

Plastic chips with internal fluidic structures helping to realize experiments on a very small footprint.

Technical specification:

Microfluidic Chips:	Chip with 16 straight channels	Chip with 7 reaction chamber	Reaction chamber chip with 8 different depths
Width	1000 μm	-	-
Length	18 mm	-	-
Depth	200 μm	370 μm	100 – 800 μm
Volume	3.6 μΙ	6.66 μΙ	1.8 – 14.4 μΙ
Fluidic interface	Mini Luer		
Material	Topas		
More information in the data sheet from the manufacturer microfluidic ChipShop			



available at https://www.microfluidic-chipshop.com/

2.23 Microfluidic Chips by Micronit

Glass chips with internal fluidic structures helping to realize experiments on a very small footprint.

Technical specification:

Microfluidic Chip (3 Channels):	Channel A	Channel B	Channel C
Width	500 μm	1500 μm	1000 μm
Length	42 mm	40 mm	42 mm
Depth	50 μm	50 μm	50 μm
Volume	1 μΙ	2.8 μΙ	1.9 μΙ
Fluidic interface	External equipment necessary (Chip holder & connection kit)		
Material	Glass (D263 Bio)		
More information in the data sheet from the manufacturer Micronit available at https://www.micronit.com/			

2.24 mp6-con cable for mp-Labtronix

mp6-con connection cable	Order code: BM-A-0037
Design and connectors	- Molex FCC 1.25 mm pitch - 85 cm (33.465 in.) cable - Binder 620 connector





2.25 Flex Cable Connector

Flex Cable Connector	Order code: BM-A-0015	
Connector for custom-made cabling to Bartels micropumps		
Туре	Molex FCC 39532045 1.25 mm pitch	
Contacts	4	
Entry Angle/Orientation	Vertical	
PC Tail Length	3.50 mm	
Operating temperature	-20°C - 80°C	
Voltage	max. 200V	
Current	max. 1.0 A per contact	
Termination Interface: Style	Through Hole	



Accessories Catalogue Version 1.12 (April 2025)



3 Important Notices

This operating manual contains necessary instructions for the installation, commissioning, operation and maintenance of Bartels micropumps. The manual is intended to help you achieving optimal results in a short time and shall also assist avoiding possible sources of errors. The operating manual of the controllers and the accessories are available separately.

The products have been designed with state-of-the-art technology and in accordance with all relevant safety regulations. However, a risk of damage to the units, other property, the operator and/or other persons cannot be fully excluded.

Always ensure that specialized and trained personnel will comply with the following general instructions. Therefore, please keep this manual and hand out copies as required.

All values are approximate and no guarantee of specific technical properties. Changes in the course of technical progress are possible without notice.

3.1 Warranty

The Bartels micropumps have been developed for the transport of gases or liquids. The controllers have been developed for operating the Bartels micropumps. Bartels Mikrotechnik can assume no liability for damages resulting from the pump media. This applies especially for hazardous fluids.

The Bartels micropumps must be operated with Bartels Mikrotechnik electronics. Bartels Mikrotechnik GmbH cannot guarantee the proper work of the units with customer specific electronics. If other controllers than the ones from Bartels Mikrotechnik are used, Bartels Mikrotechnik disclaims any warranty.

Bartels Mikrotechnik assumes no liability for abnormal handling, improper or negligent use of the Bartels micropumps and the controller that is not conform to the specified purpose of the system. This applies especially for micropump controllers, components and systems of other manufacturers, which have not been certified by Bartels Mikrotechnik.

We guarantee that Bartels micropumps comply with the actual state of scientific and technical knowledge and due to this, the operational risks are limited to a minimum.

Bartels Mikrotechnik GmbH warrants solely to the original purchaser of this product for a period of 12 months (one year) from the date of delivery that this product shall be of the quality, material and workmanship defined in Bartels Mikrotechnik GmbH published specifications of the product. Within such period, if proven to be defective, Bartels Mikrotechnik GmbH shall repair and/or replace this product, in Bartels Mikrotechnik GmbH's discretion, free of charge to the Buyer, provided that:

- notice in writing describing the defects shall be given to Bartels Mikrotechnik GmbH within fourteen (14) days after their appearance
- such defects shall be found, to Bartels Mikrotechnik GmbH's reasonable satisfaction, to have arisen from Bartels Mikrotechnik GmbH's faulty design, material or workmanship
- the defective product shall be returned to Bartels Mikrotechnik's factory at the Buyer's expense
- the warranty period for any repaired or replaced product shall be limited to the unexpired portion of the original period.

This warranty does not apply to any equipment which has not been installed and used within the specifications recommended by Bartels Mikrotechnik GmbH for the intended and proper use of the equipment.

Accessories Catalogue Version 1.12 (April 2025)



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3.2 Warning, Personal Injury

Bartels Mikrotechnik GmbH rejects any responsibility for damages to persons or property resulting from non-compliance with the instructions in this manual. In this case all warranties shall be void.

Do not use this product as safety or emergency stop devices or in any other application where failure of the product could result in personal injury. Do not use this product for applications other than its intended and authorized use. Before installing, handling, using or servicing this product, please consult the data sheet and application notes. Failure to comply with these instructions could result in death or serious injury. If the Buyer shall purchase or use Bartels Mikrotechnik GmbH products for any unintended or unauthorized application, Buyer shall defend, indemnify and hold harmless Bartels Mikrotechnik GmbH and its officers, employees, subsidiaries, affiliates and distributors against all claims, costs, damages and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if Bartels Mikrotechnik GmbH shall be allegedly negligent with respect to the design or the manufacture of the product.

Moreover, please note that components of the controller and pump are operating with high voltage. Therefore, persons wearing pacemakers are recommended to avoid the operating system. Do not open the housing of the micropump and the controllers.

The use of liquids, which may alone or in combination create explosive or otherwise health-endangering conditions (including vapors) is not permitted.

All work in connection with the installation, assembly, commissioning/decommissioning, disassembly, operation, servicing, cleaning and repairing of the pump and the controller must be carried out by qualified, suitably trained and instructed personnel. Work on electrical components and assemblies must be carried out by supervised personnel with the necessary qualifications and skills, after verifying that the components do not lead residual voltage or charge and in a dry environment.

We guarantee that the micropumps comply with the actual state of scientific and technical knowledge and due to this, the operational risks are limited to a minimum.

ESD Precautions: The inherent design of the active electronic components, i.e. mp-Lowdriver, -Highdriver, -Highdriver4, Valvedriver and -Labtronix causes it to be sensitive to electrostatic discharge (ESD). To prevent ESD-induced damage and/or degradation, take customary and statutory ESD precautions when handling this product.



4 Company information



Bartels Mikrotechnik is a globally active manufacturer and development service provider in the field of microfluidics. In the microEngineering division, the company supports industrial customers in the modification, adaptation and new development of high-performance and market-oriented product solutions through the innovative means of microsystems technology. The second division, microComponents, produces and distributes microfluidic products and systems, especially for miniaturized and portable applications. Our key products are micropumps that convey smallest quantities of gases or liquids and are used in a variety of ways in biotechnology, pharmaceuticals, medical technology and numerous other applications.

Bartels Mikrotechnik with passion for microfluidics!

Contact us:

Bartels Mikrotechnik GmbH Konrad-Adenauer-Allee 11 44263 Dortmund Germany www.bartels-mikrotechnik.de info@bartels-mikrotechnik.de Tel: +49-231-47730-500

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