



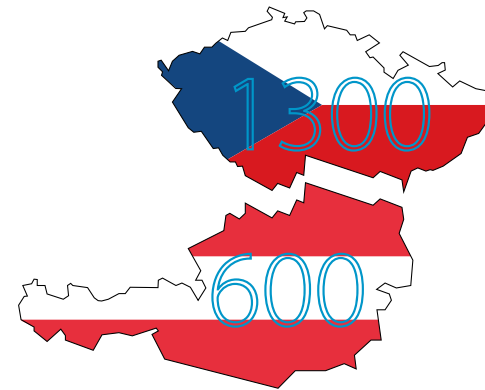
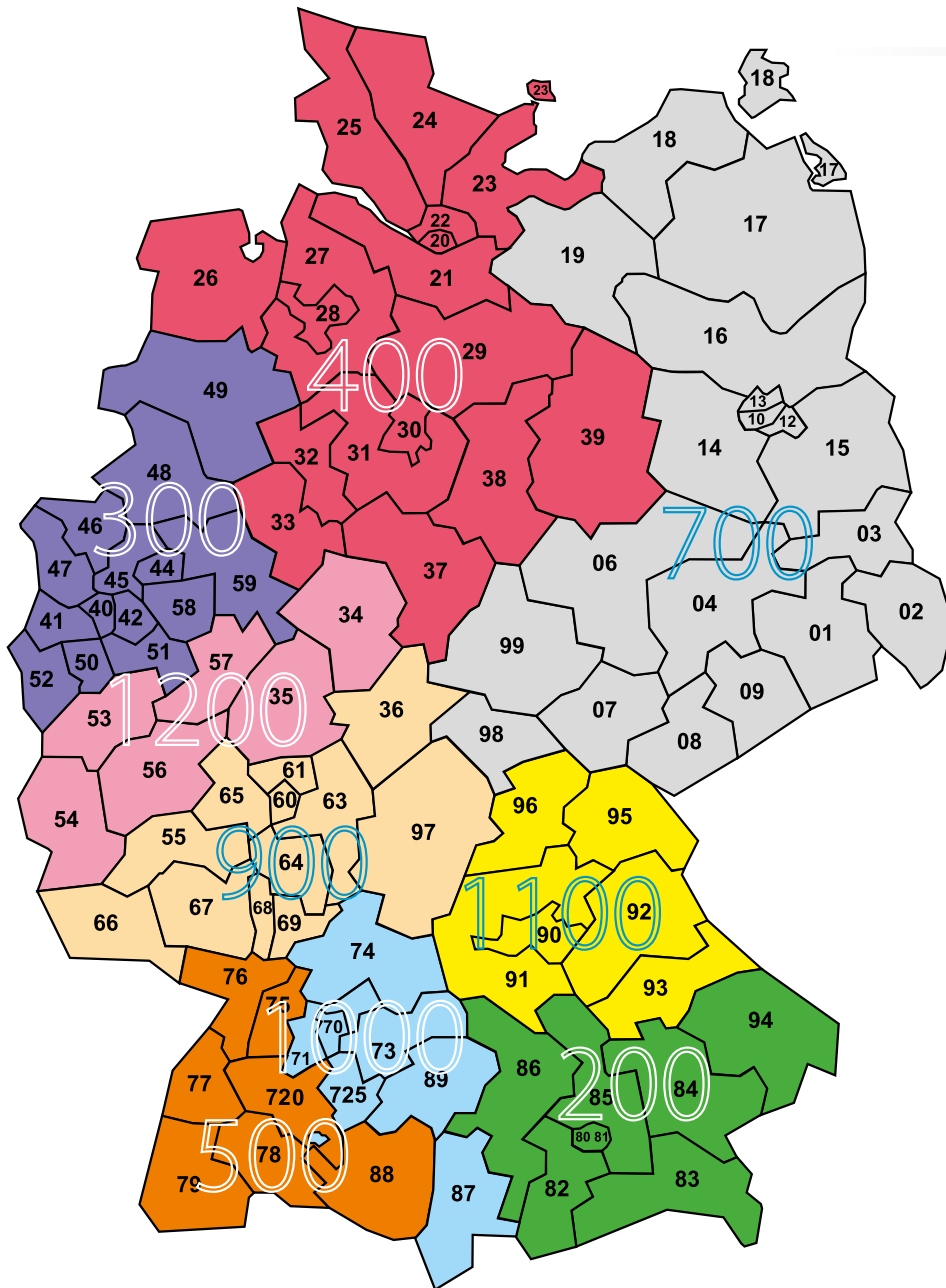
EN 

Dispensing Technology

VIEWEG GmbH
Dosier- und Mischtechnik



AREA REPRESENTATIVES



V-Nr.	Area representative	Mobile phone number	PLZ - areas
200	Vitus Schwinghammer	+49 175 5280008	80-86, 94
300	Carsten Lukas	+49 171 4684610	40-49, 50-52, 58-59
400	Henning Salau	+49 175 5613000	20-29, 30-33, 37-39
500	Armin Weber	+49 160 1531325	720-724, 75-79, 88
700	Enrico Dimitrow	+49 170 9081751	01-09, 10-19, 98-99
900	Dirk Schleicher	+49 175 7282087	36, 55, 60-69, 97
1000	Andreas Jund	+49 160 96730923	70-71, 725-74, 87, 89
1100	Hans-Dieter Fisch	+49 170 9685562	90-93, 95-96
1200	Jürgen Gerlach	+49 151 15245125	34-35, 53-54, 56-57
600	Reinhold Altenstrasser	+43 664 3446077	Austria
1300	Martin Dedek	+420 775 675001	Czech Republic
1400	Antoni Nichifor	+40 771 710028	Romania

LATEST NEWS FROM

DISPENSING TECHNOLOGY

In modern manufacturing technology, a wide range of systems are needed and used for controlled dispensing of liquids and pastes.

The workplace and the equipment used always becomes dirty and contaminated when applying adhesives, greases, oils and other liquids and pastes. Dispensing systems remedy this. They are capable of dispensing the exact amount of required material into the correct place.

The smallest dosages of 0.001 grammes can be easily and reliably applied "by hand" directly from the cartridge, just as easily as larger amounts consisting of several grammes.

In order to meet the necessary demands, we have one of the largest product ranges in the market. In addition, we are always working to expand our range of products.

We have equipment capable of dispensing the following materials:

- Adhesives
 - Cyanoacrylates
 - Solder paste
 - Thermal compound
 - Greases
 - Oils
 - Sealants
 - Silicones
- and other low and high viscosity materials.

From the simple, manual application tool, for cost-effective options, to the all-digital, processor-controlled systems, everything is available from stock, including all of our "consumable" accessories such as: barrels, pistons, end caps and a great variety of dispensing tips.

This includes pressure-time controlled systems which are one of the most common and highly reliable systems.



The range is complemented by a wide selection of accessories. The most obvious examples are the different sizes of cartridges which hold the materials to be dispensed as well as the dispensing tips, available in different diameters and shapes. The smallest dispensing

tip has an internal diameter of just 0.11 mm.

All systems can be combined with one another and can be integrated in semi-automatic and fully automatic processes. The necessary mechanical and electrical interfaces are available.

SIMPLY DISPENSING

The VIEWEG company was founded in 1976 and has been in business for more than 40 years. Since 1989, we have offered dispensing systems and 2-component mixing systems for small and very small quantities to the German and German-speaking market.

The selection of products ranges from simple manual systems to inline capable, 4-axis dispensing robots. With our highly qualified technical personnel, we support our customers in Germany, Austria, Switzerland and neighbouring countries in Eastern Europe.

We use high-quality production equipment as well as measuring and testing technology for manufacturing the dispensing systems.

In September 2006, we moved into our new building where we can better satisfy the challenges of the market.

Years of experience coupled with the willingness to constantly invest in the expertise of our personnel and our testing and manufacturing facilities are the guarantee for high-quality products.

DISPENSERS

Overview Dispenser	4
DC 150 - Dispenser Without Timer	5
DC 200 - Dispenser With Timer	6
DC 300 - Digital Dispenser With Program Memory .	7
DC 600 - Dispenser with pick and place pencil . .	8
DC 1000 - Digital Dispenser With Graphic Display .	9
DC 1100 - Digital Dispenser	10
DC 1200 - Full Digital Dispenser	11
PPD 3000 - Digital Peristaltic Pump Dispenser . .	12
VPP511 Vacuum Tweezers Electrical	14
VPP803B Vacuum Tweezers Pneumatical	14
Accessories Included With DC-Series	15
Manual Dispensing Guns	16
Pneumatic Dispensing Guns	17

DISPENSING VALVES

Overview Dispensing Valves	18
Pinch Tube Dispensing Pen DV-5110	21
Pinch Tube Valve DV-5120	22
Diaphragm Valve DV-5625	23
Needle Valve DV-5425	24
Needle Valve Micro Shot TS-5440	25
Mini Spool Valve DV-5325	26
High Pressure Spool Valve DV-5370	27
Spray Valve SV-1000SS	28
Spray Valve SV-2000N Series	29
Screw Valve DV-5005	30
Volume Dispenser DV-8000	31
Volume Dispenser eco-PEN	32
Spray Valve eco-SPRAY	34
Accessories For eco-PEN And eco-SPRAY	36
Process Monitoring	37
Jet Valve DV-6210 / DV-6220	38
Valve Controller VC1410 / VC1420	39
Valve Controller VC1000	40
Valve Controller VC1100	40
Valve Controller VC1200	41
Valve Controller Preeflow® EC 200-K / EC 200-B . .	41

DISPENSING ROBOTS

Overview Dispensing Robots	44
Benchtop Robot VR3200	46
Benchtop Robot VR3300	48
Benchtop Robot VR3400	50
Benchtop Robot VR3500	52
Benchtop Robot VR3600	54
Gantry Robot JC-3	56
Gantry Robot F9000N Series With Servo Drive . .	58
Dimensioning F9000N Series	60
Dimensioning F9000N Series	61
SCARA Robot JS550TH / JS750TH	62
Protective Enclosures	64
Dispensing Tip Sensors	65

2K-METER-MIX SYSTEMS

Overview 2K-Meter-Mix Systems	66
2K-Dispensing Guns 50 ml.	67
2K-Dispensing Guns System II / 200 and 400 ml	68
2K-Meter-Mix System eco-DUO	70
VOLUME MIX (5-80 ccm).	72
Principle VOLUME MIX (5-80 ccm)	74

CONSUMABLES

Overview Consumables	78
Syringe With Hand Plunger	79
Series 8000 Barrel Systems	80
Series 8000 Barrel Accessories	81
Dispensing Pens And Bottles For Low Viscosity Material	84
Dispensing Tip Sets And Removal Tool	85
Dispensing Tips Standard	86
Dispensing Tips Tapered	87
Dispensing Tips Aluminium / Stainless Steel.	88
Dispensing Tips / Brushes / PTFE / Flexible	89
Dispensing Tips MICRON-S.	90
Static Mixers	92
2K Cartridges	95
Large Cartridges & Cartridge Casing, EURO	96
Large Cartridges & Cartridge Casing, SEMCO	98
Dispensing Nozzles With 1/4" NPT External Thread	100
Tube Inserts / Replacement Screw Body	101

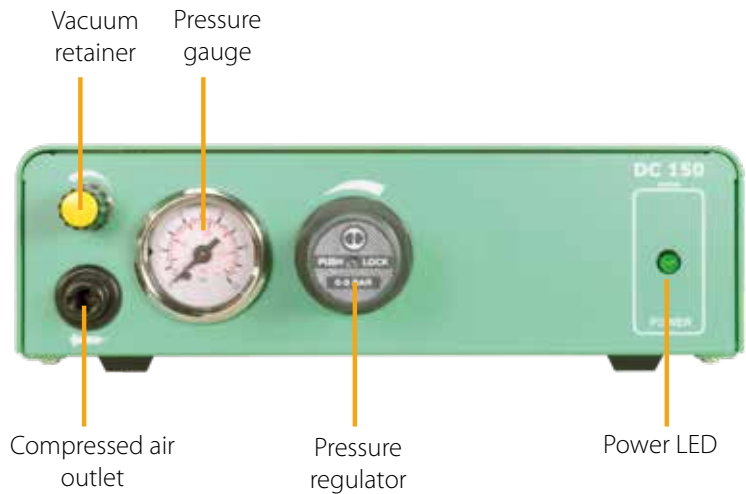
ACCESSORIES

Overview Accessoires	104
Finger Switches And Gravity Flow Bottles	105
Material Container - MDG Series	106
Material Container - PP 300	108
Manual Cartridge Filling Device	109
Hand Pump.	110
Mini Pump	111
Piston Pump DA35	112
Hobbock Pump	113
Luer-Lock Adapter - For Dispensing Tips	114
Luer-Lock Adapter - For Syringe Barrels	115
Fittings For Material Tube / EURO Cartridge	116
Fittings For Cartridge To Valve / Tubes	117
Stands For Valves And Cartridges.	118
Mounting For Dispensing Valves	119
Mounting For Barrels And Pens.	121
Mounting For Large Cartridges.	122
Adapter Plates - Supporting Cross	123
Low-Level-Indicators	124
Low-Level-Indicators & Heater For Mixing Tubes.	125
Barrel, Tip And Valve Heating.	126
Heating Controllers	127

OVERVIEW DISPENSER

Features	DC 150	DC 200	DC 300	DC 300 I/O	DC 600	DC 1000	DC 1100	DC 1200									
Analog timer	-	•	-	-	•	-	-	-									
Digital timer	-	-	•	•	-	•	•	•									
Dispensing period (in seconds)	manual	0,01 - 31	0,01 - 9999	0,01 - 9999	0,01 - 31	0,01 - 999	0,01 - 999	0,01 - 999									
Digital programming	-	-	•	•	-	•	•	•									
Program memory	-	-	9	9	-	8	8	8									
I/O-Port	-	-	-	•	-	•	•	•									
7-segment display	-	-	•	•	-	-	-	-									
Graphic display	-	-	-	-	-	•	•	•									
Air inlet																	
Inlet pressure indicator	-	-	-	-	-	•	•	•									
Sensored monitoring of air inlet	-	-	•	•	-	•	•	•									
Digital monitoring of air inlet	-	-	-	-	-	•	•	•									
Vacuum Suck-Back																	
Adjustment by rotary knob	•	•	•	•	•	•	•	•									
Vacuum suck-back without indication	•	•	•	•	•	•	-	-									
Vacuum suck-back indicator on graphic display	-	-	-	-	-	-	•	•									
Dispensing Pressure																	
	DC 150	DC 215	DC 270	DC 315	DC 315 I/O	DC 370	DC 370 I/O	DC 600	DC 1020	DC 1040	DC 1060	DC 1120	DC 1140	DC 1160	DC 1220	DC 1240	DC 1260
Dispensing pressure (in bar)	0,1 - 7	0,08 - 1	0,1 - 7	0,08 - 1	0,08 - 1	0,1 - 7	0,1 - 7	0,1 - 7	0,08 - 2	0,08 - 4	0,08 - 6	0,08 - 2	0,08 - 4	0,08 - 6	0,08 - 2	0,08 - 4	0,08 - 6
Adjustment by air regulator	•	-	•	-	-	•	•	•	-	-	-	-	-	-	-	-	-
Adjustment by fine air regulator	-	•	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-
Adjustment by precise air regulator	-	-	-	-	-	-	-	-	•	•	•	•	•	•	•	•	•
Indication on pressure gauge	•	•	-	•	-	•	-	•	•	-	-	•	•	-	-	-	-
Indication on graphic display	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-
Page	5	6	7	7	8	9	10	11									

DC 150 - DISPENSER WITHOUT TIMER



TECHNICAL DATA:

Dimensions	230 x 225 x 75 mm
Weight	1,25 kg
Input voltage	85 - 264 V AC 50/60 Hz
Operating voltage	24 V DC
Compressed air inlet	0 - 7 bar
Compressed air outlet	0,1 - 7 bar
Standards	CE mark

MODELS:

Item No.	Description
DC150	Dispensing device without timer

Page 15 shows an overview of included accessories



DESCRIPTION:

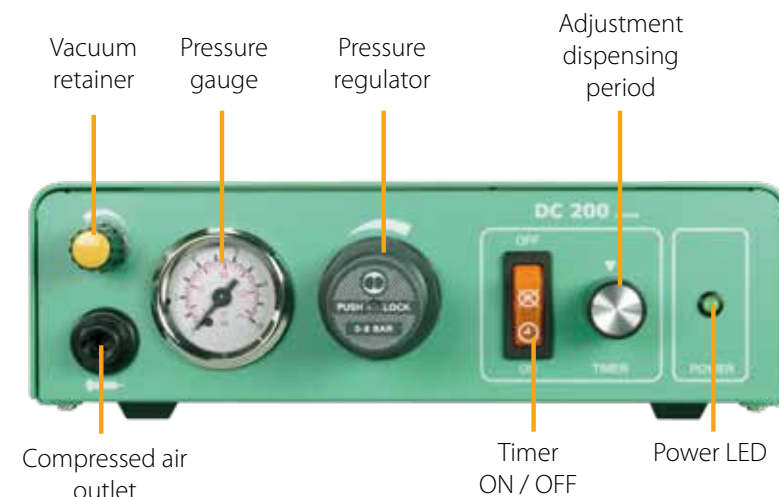
This model is recommended for dispensing applications that are exclusively conducted manually and do not require timer control. The dispensing process is activated by pressing the foot switch. This model is more cost-efficient than the devices equipped with timers and ensures continuous

dispensing processes with the same high precision and quality. Suitable for material of all kinds, equipped with a vacuum retaining system to prevent dripping of low viscosity material.

Features:

- Continuous dispensing cycle
- Wide range of applications
- Security from dripping through Suck Back
- Cost-efficient system with high reliability.

DC 200 - DISPENSER WITH TIMER



TECHNICAL DATA:

Dimensions	230 x 225 x 75 mm
Weight	1,35 kg
Input voltage	85 - 264 V AC 50/60 Hz
Operating voltage	24 V DC
Dispensing period	0,01 to 31 seconds
Compressed air inlet	5 to 7 bar
Compressed air outlet	DC 215: 0,08 to 1 bar (precise air regulator) DC 270: 0,1 to 7 bar

DESCRIPTION:

The economical and popular DC 200 series dispensers are easy to use. The set up takes just a few minutes and the dispensing process can be started immediately. The unit timer can be programmed from 0,01 to 31 seconds. The dispenser is available in two pressure range versions - with dispensing pressure up to maxi-

mum 1 bar and 7 bar. The DC 200 series provides excellent regulation of the dispensing process. Units can be used with all barrels from 3 - 55 cc capacity, although only the adapters for 5 and 30 cc barrels are included with this unit. Adapters for 3 and 10 cc barrels are also available but must be purchased separately. The DC 200

series is suitable for all types of fluids and is also equipped with a vacuum suck-back feature to prevent low viscosity materials from dripping.

Features:

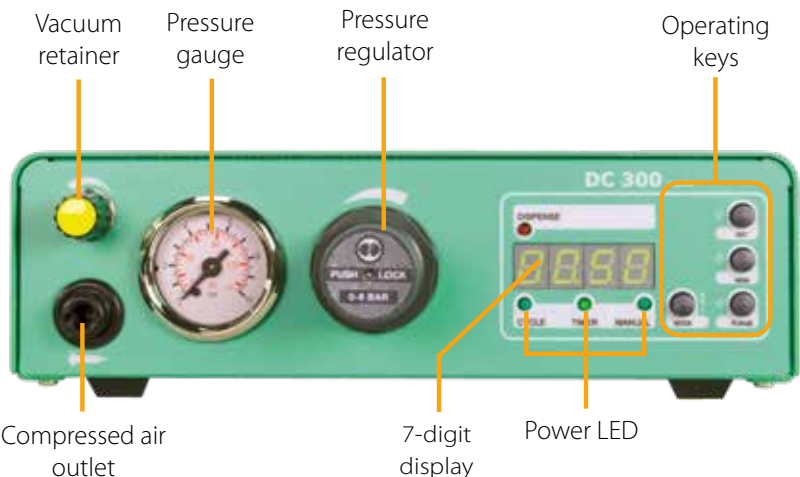
- Timer 0,01 - 31 seconds
- Vacuum suck-back to avoid dripping
- Pressure gauge and regulator
- Power supply 100 V - 250 V input

MODELS:

Item no.	Description
DC 215	Device with max. 1 bar dispensing pressure
DC 270	Device with max. 7 bar dispensing pressure

Page 15 shows an overview of included accessories

DC 300 - DIGITAL DISPENSER WITH PROGRAM MEMORY



TECHNICAL DATA:

Dimensions	230 x 225 x 75 mm
Weight	1,25 kg
Input voltage	85 - 264 V AC 50/60 Hz
Operating voltage	24 V DC
Compressed air inlet	0 to 7 bar
Compressed air outlet	DC 315: 0,08 - 1 bar (precise air regulator) DC 370: 0,1 to 7 bar
Memory	9 programs

MODELS:

Item no.	Description
DC 315	Dispensing device with 1 bar dispensing pressure
DC 315-I/O	Dispensing device with 7 bar dispensing pressure
DC 370	Dispensing device with 1 bar disp. pressure & I/O port
DC 370-I/O	Dispensing device with 1 bar disp. pressure & I/O port

Page 15 shows an overview of included accessories

DESCRIPTION:

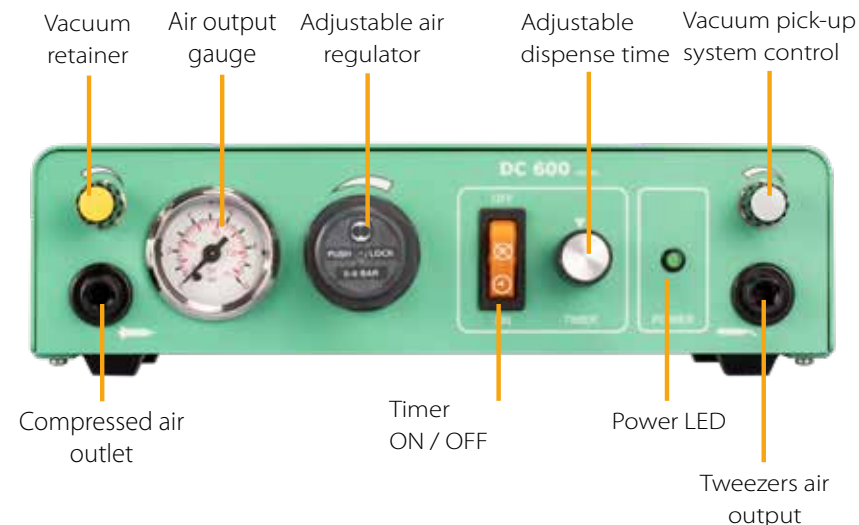
The DC 300 is a very popular digital dispenser with perfect versatility, bright display and all necessary features for your applications. The DC 300 series is available in 4 model versions with varied features. Our most popular model is the DC 370. The DC 370 has three modes of operation. The manual mode enables dispensing to be controlled by a foot

pedal. The timed mode dispenses at a pre-set time. The auto-cycling mode operates by sequencing a self-taught cycle of events, including a dispensing time as well as a pause function between the cycles. The optional I/O port allows you to operate the dispenser in a semi-automated environment by utilizing an external control to activate the unit.

Features:

- Timer from 0,01 - 9999 seconds
- I/O-Port optional Vacuum suck-back to avoid dripping
- Bright display
- Cycle mode Stores up to 9 dispensing programs
- Air inlet monitoring
- Pressure read-out
- Pressure gauge and regulator

DC 600 - DISPENSER WITH PICK AND PLACE PENCIL



TECHNICAL DATA:

Dimensions	260 x 210 x 75 mm
Weight	1,45 kg
Dispensing period	0,01 - 31 seconds
Operating modes	time-controlled or manual
Input voltage	85 to 264 V AC 50/60 Hz
Operating voltage	24 V DC
Compressed air inlet	0 - 7 bar
Compressed air outlet	0,1 - 7 bar
Standards	CE mark

DESCRIPTION:

For assembling miniature components and corresponding dispensing applications. The vacuum tweezers are ideally suited for Pick & Place as well as for assembling and reworking small parts. Before positioning the parts with the vacuum tweezers, soldering pastes and other materials can be applied with

the highest precision. This model is suitable for numerous industrial applications in the miniature field. Suitable for all types of material and equipped with a vacuum retaining system to prevent low viscosity material from dripping. Time range adjustable between 0.01 and 31 seconds.

Features:

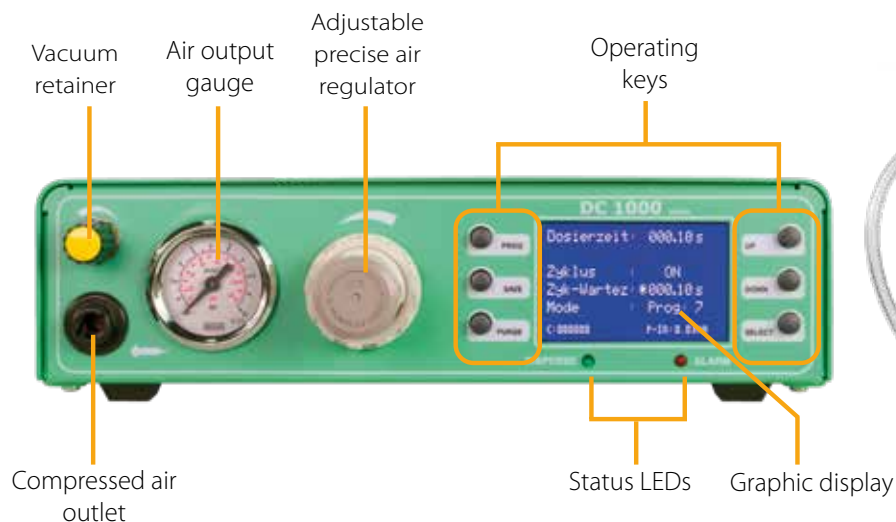
- Vacuum tweezers, timer
- Security from dripping through Suck Back

MODELS:

Item no.	Description
DC600	Dispensing device 85 to 264 V AC 50/60 Hz
560046	Vacuum tweezers

Page 15 shows an overview of included accessories

DC 1000 - DIGITAL DISPENSER WITH GRAPHIC DISPLAY



TECHNICAL DATA:

Dimensions	260 x 210 x 75 mm
Weight	1,50 kg
Dispensing period	0,01 - 999 seconds
Operating modes	time-controlled or manual
Input voltage	85 to 264 V AC 50/60 Hz
Operating voltage	24 V DC
Compressed air inlet	0 - 7 bar
Compressed air outlet	DC 1020: 0,08 to 2 bar DC 1040: 0,08 to 4 bar DC 1060: 0,08 to 6 bar
Display	128 x 64 px
Memory	8 memory locations

MODELS:

Item no.	Description
DC1020	Dispensing device, up to 2 bar
DC1040	Dispensing device up to 4 bar
DC1060	Dispensing device, up to 6 bar

Page 15 shows an overview of included accessories

DESCRIPTION:

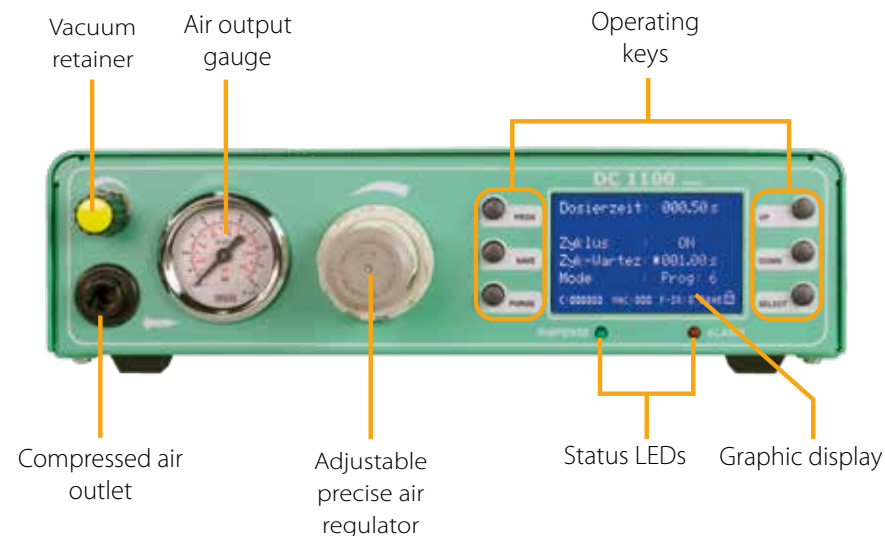
The digital dispense controller series DC 1000 can be built up with different options related to dispensing pressure. The devices are used for precise control of pneumatic dispensing with for example 3 - 55 cc cartridges. The air output pressure for the cartridge is adjustable with the

embedded precision pressure regulator. An integrated digital pressure sensor at the inlet air gives an additional point for the process safety.

Features:

- Timer and I/O-Port
- Precision pressure compressed air regulator
- 8 program memory locations
- Digital display with pressure indicator
- Cycle counter
- Time range 0,01 – 999 seconds
- Wide range of application

DC 1100 - DIGITAL DISPENSER



DESCRIPTION:

The DC 1100 dispensing series is available in different models, which vary according to the amount of maximum pressure allowed. It provides precise regulation of pneumatically steered dispensing, for example from 3-55 cc barrels. The pressure applied to the material in the barrel can be set

accurately by using the precision compressed air regulator. The display shows the calibration of the vacuum retention. The digital pressure monitor and inlet pressure display further ensure process safety.

Features:

- Timer and I/O-Port
- Precision pressure compressed air regulator
- 8 program memory locations
- digital display with pressure indicator
- Cycle counter
- Time range 0,01 – 999 seconds
- Wide range of application

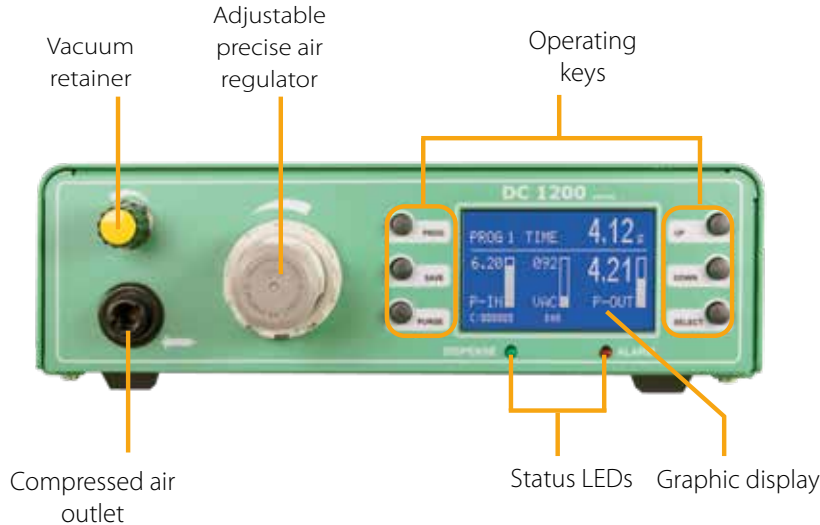
TECHNICAL DATA:

Dimensions	260 x 210 x 75 mm
Weight	1,50 kg
Dispensing period	0,01 to 999 seconds
Input Voltage	85 - 264 V AC 50/60 Hz
Operating Voltage	24 V DC
Compressed air inlet	0 - 7 bar
Compressed air outlet	DC 1120: 0,08 to 2 bar DC 1140: 0,08 to 4 bar DC 1160: 0,08 to 6 bar
Vacuum retainer	<ul style="list-style-type: none"> • digital indication of all pressures • 3-digits
Display	128 x 64 pixel
Program Memory	8 memory locations

MODELS:

Item no.	Description
DC1120	Dispensing device, up to 2 bar
DC1140	Dispensing device up to 4 bar
DC1160	Dispensing device, up to 6 bar

Page 15 shows an overview of included accessories



TECHNICAL DATA:

Dimensions	260 x 210 x 75 mm
Weight	1,50 kg
Dispensing period	0,01 to 999 seconds
Input Voltage	85 - 264 V AC 50/60 Hz
Operating Voltage	24 V DC
Compressed air inlet	0 - 7 bar
Compressed air outlet	DC 1220: 0,08 to 2 bar DC 1240: 0,08 to 4 bar DC 1260: 0,08 to 6 bar

Vacuum retainer	<ul style="list-style-type: none">digital indication of all pressuresindication graphical and as digits3-digits
-----------------	---

Display	128 x 64 pixel
Program Memory	8 memory locations

MODELS:

Item no.	Description
DC1220	Dispensing device, up to 2 bar
DC1240	Dispensing device up to 4 bar
DC1260	Dispensing device, up to 6 bar

Page 15 shows an overview of included accessories

DC 1200 - FULL DIGITAL DISPENSER



DESCRIPTION:

The digital dispensers in the DC 1200 series can be seen as enhanced versions of the DC 1000 and DC 1100 series. The DC 1200 has a new digital pressure gauge, instead of an analog gauge, which increases precision and repeat accuracy. The digital pressure gauge shows the value of the adjustable built-in vacuum retention. The newly

designed graphic surface displays the dispensing time and operational modes very clearly. The relevant pressure settings are shown numerically as well as on a bar diagram. As all other dispensers, the DC series offers a Teach-In-Function and I/O port and is PLC compatible. The DC 1260, with a lockable precision compressed air regulator, can operate

with pressure up to 2, 4 or 6 bar.

Features:

- Timer and I/O-Port
- Precision pressure compressed air regulator
- 8 program memory locations
- Digital display with graphical indication of all pressures
- Cycle counter
- Time range 0,01 – 999 seconds
- Wide range of applications

PPD 3000 - DIGITAL PERISTALTIC PUMP DISPENSER



TECHNICAL DATA:

Dimensions	260 x 210 x 75 mm
Weight	approx. 2,20 kg
Input voltage	85 – 264 V AC 50/60 Hz
Internal voltage	24 V DC
Modes of operation	<ul style="list-style-type: none"> • tube filling / emptying • continuous (manual) • steps for volume dispensing (program 1 - 7)
Teach-In	yes
Cycle mode	yes
Counter	total counter (volatile)
Steps	1 ... 99999 steps adjustable step size; 1,8° / Step
Rotation Speed	120 rpm
15 pin connector	6 inputs 3 outputs
Parameter setting and select	128 x 64 Pixel graphic display
Memory	8 programs

ACCESSORIES (INCLUDED IN SCOPE OF DELIVERY):

Item no.	Description
PPD-3000	Peristaltic pump dispenser PPD 3000 digital
560989-B-V	Pen with finger switch
560984A	Tube 1 meter, 1,0 x 1,6 mm
560995A	Tube 1 meter, 1,9 x 2,5 mm

DESCRIPTION:

Model PPD 3000 is used for very precise digital controlled dispensing without air, especially for materials like cyanoacrylates, UV acrylates, solvents and other low viscosity fluids. The PPD 3000 is digitally adjustable and programmable and provides true volumetric dispensing of fluids. The PPD 3000,

with its standard stainless steel pump head, stands out against other peristaltic pumps on the market. Separate modes for filling and emptying the tube as well as 8 different programs ensure maximum user friendly operation. High resolution (200 steps / 360° turn) stepper motor permits dispensing

with maximum precision and repeatability. An adjustable suck-back and variable waiting time guarantee dispensing flexibility.

Features:

- Stainless steel pump head
- Digital setup
- 8 programs
- I/O - Port
- Teach-In mode
- Cycle mode
- Digital adjustable Suck-Back

- Precise dispensing in digital
- Step size (1,8°/step)
- Dispensing directly from the bottle
- Digital adjustable rotor speed
- Easy fittable to different tube sizes

PPD 3000 ACCESSORIES

AVAILABLE TUBES FOR PPD3000:

Item no.	Description
Standard tubes for PPD3000	
560984A	1,0 x 1,6 mm PTFE clear tube
560985A	1,4 x 2,0 mm PTFE clear tube
560995A	1,9 x 2,5 mm PTFE clear tube
560996A	2,4 x 3,0 mm PTFE clear tube
560984BA	1,0 x 1,6 mm PTFE black tube
560985BA	1,4 x 2,0 mm PTFE black tube
560995BA	1,9 x 2,5 mm PTFE black tube
560996BA	2,4 x 3,0 mm PTFE black tube
Optional tubes for PPD3000	
560997A	0,25 x 0,75 mm PTFE clear tube
560998A	0,50 x 1,00 mm PTFE clear tube
560999A	0,6 x 1,0 mm PTFE clear tube
560997BA	0,25 x 0,75 mm PTFE black tube
560998BA	0,50 x 1,00 mm PTFE black tube
560999BA	0,6 x 1,0 mm PTFE black tube

NOZZLES FOR PPD3000:

Nozzles for available tubing (standard pump head)

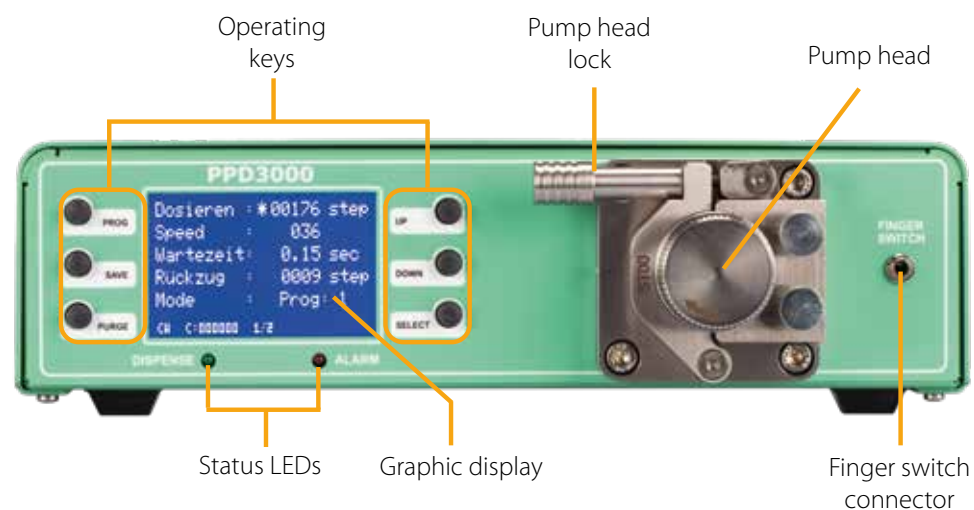
Available tubing (mm)	Nozzle holder	Nozzle holder	Nozzle holder
	560990 (-15) and 560989-E	560989-B	560989-D

I-Ø x A-Ø	Dimension	Item no.	Item no.	Item no.
1,0 x 1,6	Ø 1,5	561003	561010-B	561010-D
1,4 x 2,0	Ø 1,9	561004	561011-B	561011-D
1,9 x 3,0	Ø 2,4	561005	561012-B	561012-D
2,4 x 3,0	Ø 2,9	561006	561013-B	561013-D

Nozzles for available tubing (optional pump head)

Available tubing (mm)	Nozzle holder	Nozzle holder	Nozzle holder
	560990 (-15) and 560989-E	560989-B	560989-D

I-Ø x A-Ø	Dimension	Item no.	Item no.	Item no.
0,25 x 0,75	Ø 0,7	561000	561007-B	561007-D
0,50 x 1,0	Ø 0,9	561001	561008-B	561008-D
0,60 x 1,1	Ø 1,0	561002	561009-B	561009-D

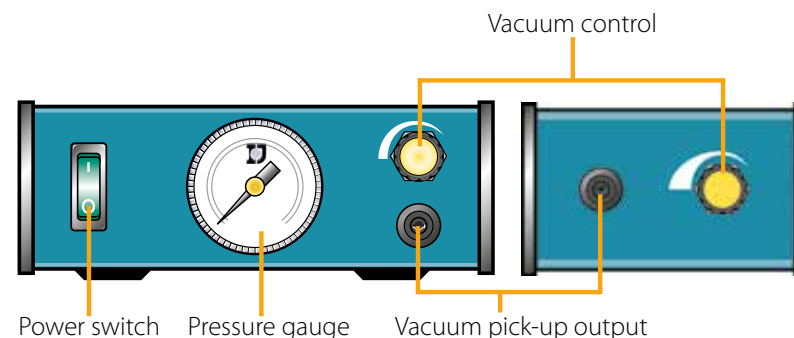


OPTIONAL ACCESSORIES:

Item no.	Description
990105-15	Finger switch separate with cable 1,5 m (for Ø 15mm)
560989-E	Spreading stylus (Ø 15mm) ONLY FOR PPD 130A, incl. 3 nozzle, dispensing tip can be mounted
560990-15	Spreading stylus (Ø 15mm) for PPD-130, PPD-3000 without finger switch (POM black)
C-0040	Foot switch (optional)
C-0056-10	Bar ST10
C-0056-15	Bar ST15

VPP511 VACUUM TWEEZERS ELECTRICAL

VPP803B VACUUM TWEEZERS PNEUMATICAL



TECHNICAL DATA:

	VPP511	VPP803B
Dimensions	139.7 x 177.8 x 66.8 mm	95.2 x 190.5 x 66.5 mm
Weight	1.14 kg	341 g
Input voltage	230 V AC	230 V AC
Control	by means of the foot switch	using the finger hole
Compressed air inlet	5 - 7 bar	5 - 7 bar
Vacuum	venturi nozzle	venturi nozzle

MODELS:

Item no.	Description
VPPE 511-LF	Vacuum tweezers with foot switch
VPP 803-LF	Vacuum pick-up system

SUCTION CUPS AND VACUUM TIPS:

Item no.	Description	For vacuum tip
560047-1_6	suction cup Ø 1.6 mm	560054
560047	suction cup Ø 3.5 mm	560054
560048	suction cup Ø 5.1 mm	560053
560049	suction cup Ø 6.4 mm	560053
560050	suction cup Ø 8.1 mm	560052
560051	suction cup Ø 10.2 mm	560052
Vacuum Tips		
560052	curved I-Ø 1.60 mm	
560053	curved I-Ø 0.84 mm	
560054	curved I-Ø 0.51 mm	

DESCRIPTION OF VPP803B:

For gentle handling of small parts. The corresponding part is picked up and put into the desired position. To pick up small parts, close

the opening of the vacuum tweezers with your finger. To put down the small parts, simply remove your finger from the opening.

DESCRIPTION OF VPP511:

The model VPP511 is equipped with a compressed air solenoid valve that is electrically controlled via a foot switch.

This has two advantages:
 1. The vacuum is only created when the foot switch is pressed.
 2. The work piece is also released by means of the foot switch.

ACCESSORIES INCLUDED WITH DC-SERIES



Power cord 230 V AC
(Item no. C-0043)



Foot switch
(Item no. C-0040)



Barrel stand
(Item no. C-0041)



Air hose
(Item no. C-0042)



30 cc barrel adapter
(Item no. 560004A-PC)



3x 30 cc barrels
(Item No. 560002D)
3 x 30 cc pistons
(Item no. 801009)

DISPENSING TIP SETS



Dispensing tip set small
(Item no. 990062-K)

Our dispensers model DC 150 and the DC 200 series include our small dispensing tip set.

The 17-piece set contains:

- 2 tip caps
- 4 tapered dispensing tips
- 11 standard 1/2" tips



Dispensing tip set large
(Item no. 990062A-G)

The DC 300 series, model DC 600 and DC 1000, DC 1100 and DC 1200 series come with our large dispensing tip set.

The 134-piece set contains 41 different types of tips:

- 4 tip caps
- 33 tapered dispensing tips
- 12 flexible tips
- 85 standard 1/2" tips



MANUAL DISPENSING GUNS



TUBE DISPENSER:

Item no.	Description
TD101	Tube dispenser

The tube dispenser makes dispensing from tubes more convenient and uses the dispensing material in the best possible way. The suitable design protects the tube from damage, the workplace and users from contamination. The tube will be completely emptied. A compressed air supply is needed for operation.

MANUAL DISPENSING GUNS FOR SMALL BARRELS:

Item no.	Description
990277	Dispensing gun for 30 cc barrels
990277-10	Dispensing gun for 10 cc barrels
990278	Plunger for 30 cc gun
990278-10	Plunger for 10 cc gun
990110-10	Dispensing gun for system A, 10 cc barrels
990110-30	Dispensing gun for system A, 30 cc barrels
990110-55	Dispensing gun for system A, 55 cc barrels

With our manual dispensing guns, all disposable barrels from 5 cc - 35 cc can be processed easily, clean and quickly. They are manually operated and do not require electricity or compressed air.

MANUAL DISPENSING GUNS FOR SEMCO CARTRIDGES:

Gun, including barrel holder

Order no.	Description
G75-25	75 cc gun (2.5 oz)
G75-60	180 cc gun (6 oz)
G75-80	240 cc gun (8 oz)
G75-120	360 cc gun (12 oz)
G75-200	600 cc gun (20 oz)

Large barrels from 75 - 360 can be manually compressed using the hand guns. This allows a clean and extremely cost-effective way of dispensing. Particularly suitable for mobile applications.

PNEUMATIC DISPENSING GUNS



G85-60



G85-200



G100-M3

PNEUMATIC DISPENSING GUNS FOR SEMCO CARTRIDGES:

With handle, including cartridge holder

Order no.	Description
G85-25	75 cc pneumatic gun (2.5 oz)
G85-60	180 cc pneumatic gun (6 oz)
G85-80	240 cc pneumatic gun (8 oz)
G85-120	360 cc pneumatic gun (12 oz)
G85-200	600 cc pneumatic gun (20 oz)

PNEUMATIC DISPENSING GUNS FOR EURO CARTRIDGES:

Compressed air gun G100 series

Order no.	Description
G100-M3	with plastic sleeve, Pmax 4 bar

Model G 100-M3 is suitable for dispensing putty or seals. Connect the pistol to a adjustable compressed air supply and dispense directly from the cartridge.

Most materials have to be dispensed with air pressure between 0,8 and 3,0 bar for a satisfactory result.



Pinch Tube Dispensing Pen

DV-5110



Pinch Tube Valve

DV-5120



Diaphragm Valve

DV-5625-U

DV-5625S



Needle Valves

DV-5425S

DV-5425

TS-5440

OVERVIEW DISPENSING VALVES

APPLICATIONS

Spraying

Beads and seals

•

•

•

•

•

•

•

Casting / filling / sealing

•

•

•

•

•

•

•

Micro-dispensing

•

•

•

•

•

High viscous material

Filled materials

•

•

MATERIALS

Adhesives

•

•

•

•

•

•

•

Acids

•

•

•

Alcohol / Methanol

•

•

•

•

•

•

•

Anaerobics

•

•

•

•

Bases

•

•

•

Conformal Coatings

•

•

•

•

•

Cyanoacrylates

•

•

•

Oils / Greases / Lubricants

•

•

•

•

•

•

•

Silicone (RTV) / Gels

•

•

•

Solder Masks / Pastes / PVA

•

•

Solvents

•

•

•

•

•

•

•

UV adhesives

•

•

•

•

•

•

•

PAGE

21

22

23

24-25

RECOMMENDED CONTROLLER

VC1000 series

VC1000 series

VC1000 series



Mini Spool Valve

DV-5325SS

DV-5325

DV-5325PEEK



High Pressure Spool Valve

DV-5370

DV-5370SS



Spray Valve

SV-1000SS

SV-2007

SV-2002

SV-2003



eco-spray



Screw Valve

DV-5005DFS

[illegible]

26

VC1000 series

27

VC1000 series

28 -29

VC1200 series

34

EC200-K + SC1200

30

OVERVIEW DISPENSING VALVES



Volumetric Valves

DV8000

eco-PENs

eco-PEN Accessories
process monitoring

JET Valve

DV-6210

APPLICATIONS

Spraying

Beads / Seals	•	•	•
Casting / Filling / Sealing	•	•	•
Micro-dispensing	•	•	•
High viscosity materials	•	•	•
Filled materials	•	•	•

MATERIALS

Adhesives	•	•	•
Acids			•
Alcohol / Methanol		•	•
Anaerobics	•	•	•
Bases			•
Conformal Coatings		•	•
Cyanoacrylates			•
Oils / Greases / Lubricants	•	•	•
Silicone (RTV) / Gels	•	•	•
Solder Masks / Pastes / PVA	•		•
Solvents			•
UV adhesives	•	•	•

PAGE

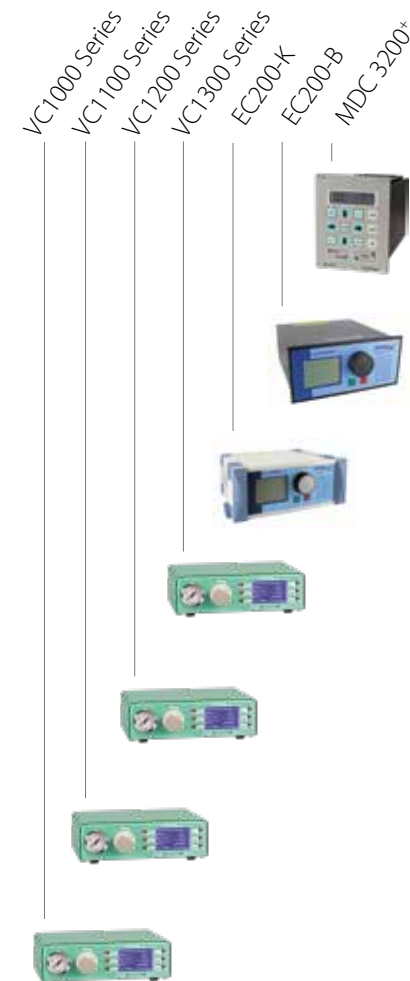
31

32

36 - 37

38

Control Devices



VC1000 Series

VC1100 Series

VC1200 Series

VC1300 Series

EC200-K

EC200-B

MDC 3200+

RECOMMENDED CONTROLLER

VC1100 series

VC1300 series

39 - 41

PINCH TUBE DISPENSING PEN DV-5110

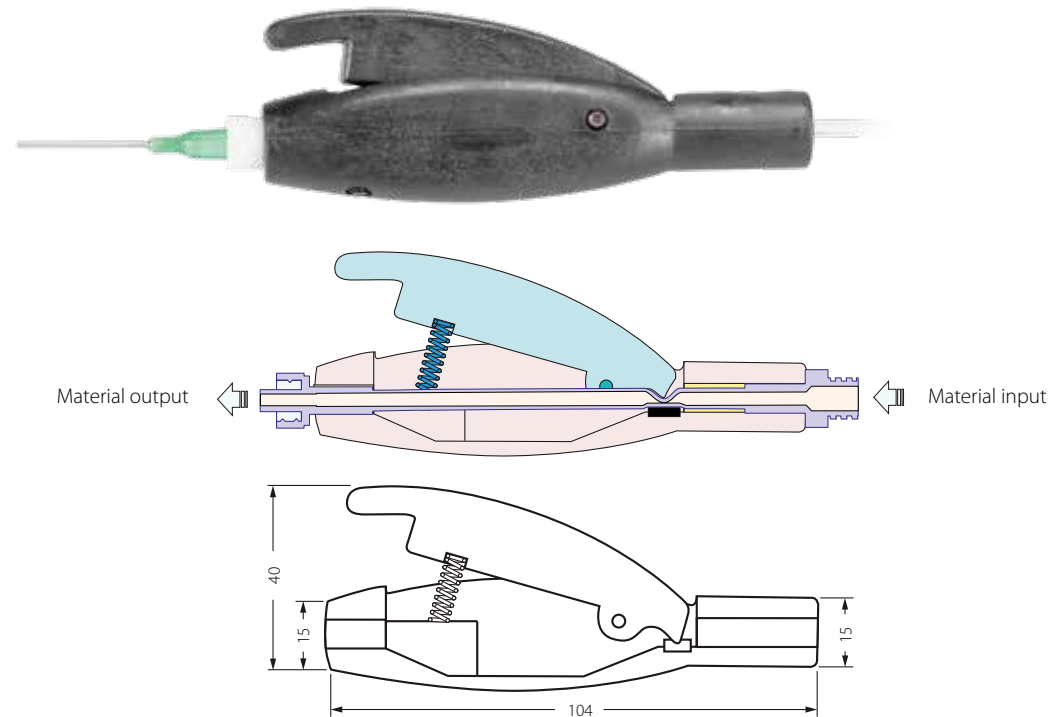
87,55 €

TECHNICAL DATA:

Dimensions	104 mm long
Weight	40 g
Material inlet	Luer-Lock female
Material outlet	Luer-Lock male
Max. material pressure	3.5 bar (50 PSI)
Compressed air inlet	-
Min. operating pressure	-
Wetted part materials	squeeze tube made of polyethylene
Min. dispensing quantity	0.0075 ccm
Flow rate at 3.5 bar	1680 ml/min. (water)
Switching frequency	-
Fluid viscosity range	max. 50,000 mPas

AVAILABLE MODELS AND ACCESSOIRES:

Item no.	Description
DV-5110	Manual tube squeeze valve



TYPICAL DISP. MATERIAL:

Cyanoacrylate, UV glue, ink, alcohol, anaerobics, glue, grease, oils, etc.

DESCRIPTION:

The manual squeeze valve is ideal for manually applying lines, dispensing points or filling low viscosity liquids such as solvents, oils, grease and cyanoacrylates.

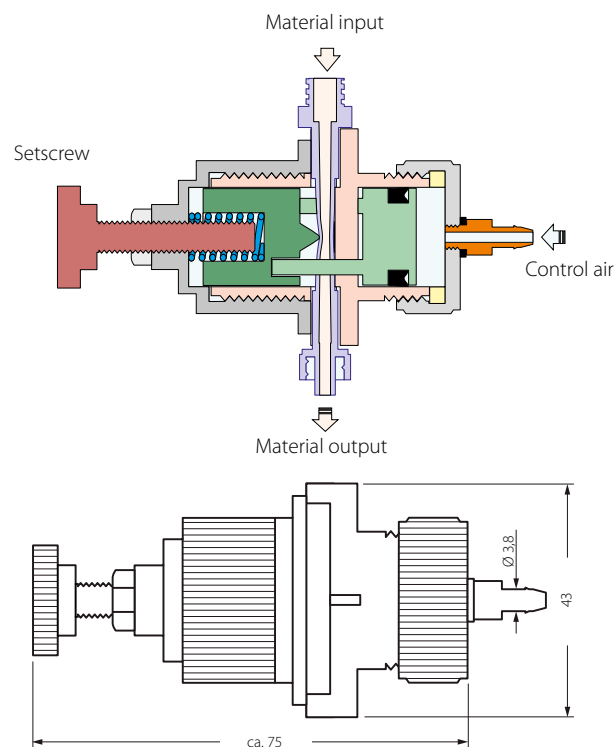
The squeeze tube is the only component that comes into contact with the manual squeeze to the valve material. If contaminated, it can be exchanged very easily. The tube comes in 2 inner diameters: 1.8 mm and 2.5 mm.

Functionality:

The manual squeeze valve is closed in the idle state. A piston closes the squeeze tube by spring force. By activating the hand lever, the pistons are released from the squeeze tube and the valve is opened. The

stroke of the hand lever can be set via a small setscrew. A fine adjustment of the opening gap is possible. The tube can easily be exchanged and a new one can be inserted again.

PINCH TUBE VALVE DV-5120



TECHNICAL DATA:

Dimensions	approx. 75 mm long
Weight	90 g
Material inlet	Luer-Lock female
Material outlet	Luer-Lock male
Max. material pressure	4 bar
Compressed air inlet	10 - 32 UNF
Min. operating pressure	2.5 bar
Wetted part materials	squeeze tube made from polyethylene
Min. dispensing quantity	0.0075 ml
Flow rate at 4 bar	1980 ml/min. (water)
Switching frequency	500 cycles/min.
Fluid viscosity range	max. 50,000 mPas

AVAILABLE MODELS AND ACCESSOIRES:

Item no.	Description
DV-5120	Pinch tube valve

Recommended valve controller
VC1060 Valve controller

TYPICAL DISP. MATERIAL:

Cyanoacrylates, 2-component adhesives, abrasive material, greases, oils, etc.

DESCRIPTION:

The squeeze valve is pneumatically controlled and is particularly suited for abrasive and two component material in the low to high viscosity range. Since no part of the valve aside from the squeeze tube comes

in contact with the material, the squeeze tube can be easily and cost-efficiently exchanged if the material is to harden. This tube is also available in 2 interior diameters: 1.8 mm and 2.5 mm.

Functionality:

The squeeze tube is closed via a piston using spring force. The dispensing valve is opened with compressed air which moves the pistons against the spring force. The volume flow can be varied via

a setscrew.

To change the tubes, the knurled cap is simply unscrewed. The tube can easily be exchanged and a new one can be inserted again.

DIAPHRAGM VALVE DV-5625

TECHNICAL DATA:

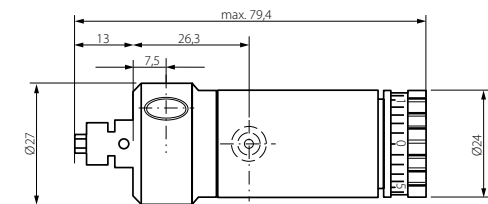
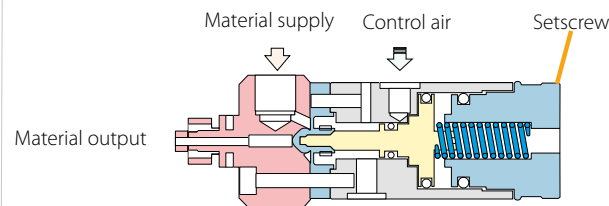
Dimensions	approx. 80 mm long, Ø 27mm
Weight	76 g
Material inlet	1/8" NPT (Luer-Lock included)
Material outlet	Luer-Lock
Max. material pressure	5 bar
Compressed air inlet	M5
Min. operating pressure	4 bar
Wetted part materials	UHMW-PE
Min. dispensing quantity	0.001 ml (material-dependent)
Flow rate at 2 bar	300 ml/min. (water)
Switching frequency	500 cycles/min.
Fluid viscosity range	max. up to 50,000 mPas

AVAILABLE MODELS AND ACCESSOIRES:

Item no.	Description
DV-5625-U	Diaphragm valve, POM body
DV-5625-T	Diaphragm valve, PTFE body
DV-5625-SS	Diaphragm valve, stainless steel body
DV-5625-MED	Diaphragm valve, FDA conform

Recommended valve controller

VC1060



TYPICAL DISP. MATERIAL:

- VD510:
cyanoacrylates, paint, ink,
adhesives, solvents, acids,
alcohols
- VD510-UV:
UV adhesive
- VD510-SS:
stainless steel

DESCRIPTION:

The membrane dispensing valve VD-510 is very well suited for fluids in the lower and material viscosity range where the membranes separate the wetted parts from the control unit. These are optimal conditions for use for the dispensing of cyanoacrylates, UV

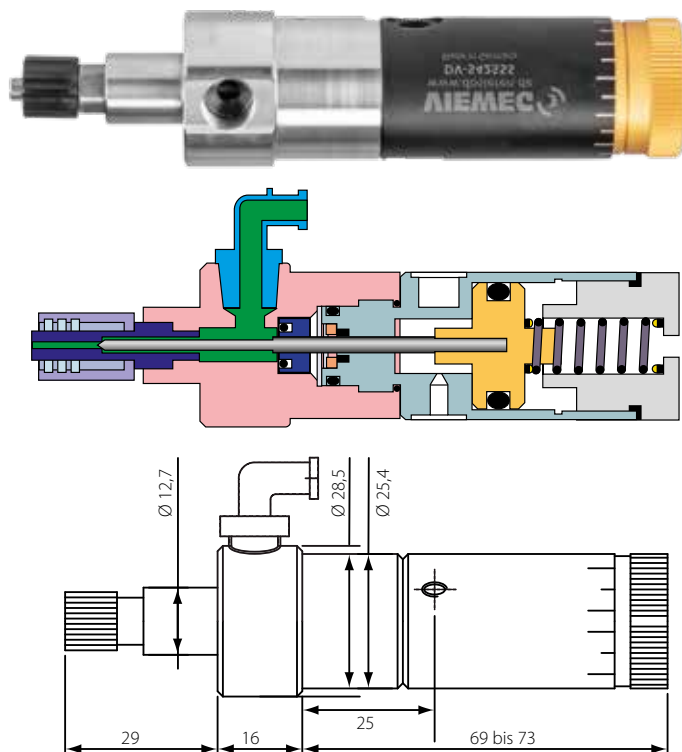
adhesives, paints, inks, electrolytes, pastes, alcohols and other low viscosity materials.

Functionality:

The valve is opened with a compressed air pulse. A built-in spring closes the valve. The valve VD-510 definitely proves its superiority particularly during high frequency output cycles of small dispensing quantities.

The respective quantities can be exactly set via a fine adjustment on the head of the valve. The Luer-Lock adapter has a very small dead volume!

NEEDLE VALVE DV-5425



TYPICAL DISP. MATERIAL:

Adhesives, UV adhesives,
Alcohol/Methanol,
Oils/Greases/Lubricants

DESCRIPTION:

The needle valve DV-5425 was especially developed for dispensing of low to material viscosity materials. The DV-5425 needle valve enables control of material from extremely small individual shots to continuous beads. The needle dispensing valve is pneumatically

controlled. The slim design allows for installation in automated lines and a high packing density.

Functionality:

The valve is closed in the idle state. The opening gap is adjustable on the valve. The valve is

opened with the control air. The valve needle moves up out of the seat and the material can then flow through the material input to the material output. Optionally, auxiliary air can be used for faster closure. Otherwise, the valve closes using spring force.

TECHNICAL DATA:

Dimensions	approx. 110 mm long, Ø 28,5 mm
Weight	140 g
Material inlet	1/8"
Material outlet	Luer-Lock
Max. material pressure	21 bar
Compressed air inlet	10 - 32 UNF
Min. operating pressure	5 bar
Wetted part materials	alu, PTFE, viton, stainless steel 1.4305, hard metal
Min. dispensing quantity	0,003 ml
Flow rate at 7 bar	1680 ml/min (water, 7 bar)
Switching frequency	600 cycles/min
Fluid viscosity range	max. 100.000 mPas

AVAILABLE MODELS AND ACCESSOIRES:

Item no.	Description
DV-5425	Needle valve, aluminium
DV-5425SS	Needle valve, stainless steel

Accessoires

VC1060	Valve controller
V-0034	Seal kit 1, for needle valve
V-0039	Seal kit 2, for needle valve

NEEDLE VALVE MICRO SHOT TS-5440

TECHNICAL DATA:

Dimensions	125 mm long, Ø 28,5 mm
Weight	230 g
Material inlet	1/8" NPT inner thread
Material outlet	Luer-Taper
Max. material pressure	7 bar
Compressed air inlet	10/32 UNF 2B
Min. operating pressure	4,8 bar
Wetted part materials	stainless steel 1.4305, PTFE
Dispensing volume (min.)	0,0005 ml
Flow rate	900 ml/min (water, 7 bar)
Switching frequency	400 cycles/min
Fluid viscosity range	max. 100.000 mPas

AVAILABLE MODELS AND ACCESSOIRES:

Item no.	Description
TS-5440SS	Needle valve micro shot, stainless steel

Recommended valve controller

VC1060	Valve controller
--------	------------------

TYPICAL DISP. MATERIAL:

Adhesives, UV adhesives,
Alcohol/Methanol, Oils/Greases/
Lubricants, Silicone (RTV)/Gels

DESCRIPTION:

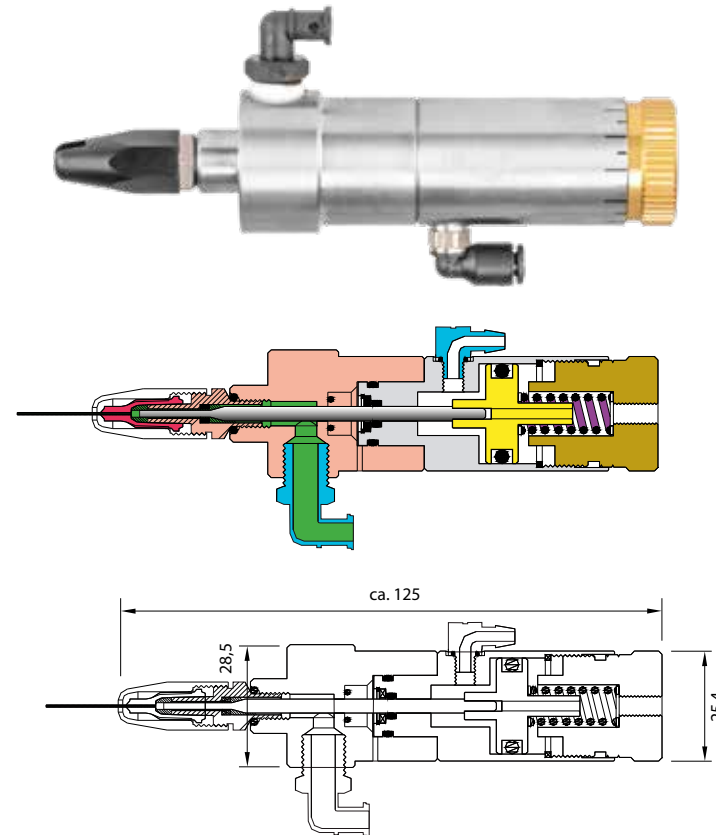
The micro-dispensing needle valve TS-5440SS dispenses very precise deposits over a wide range of shots and bead sized due to a minimal dead fluid. An external stroke control adjustment allows to fine-tune shot sizes. Easy to maintain, with little or no down-

time. The compact design and easy-mount threaded hole allows for easy integration into automated applications.

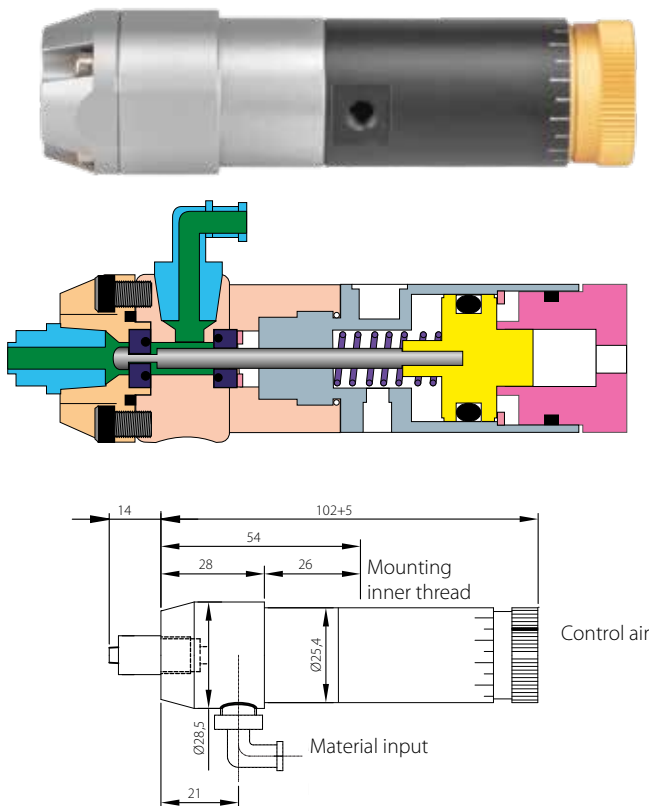
Functionality:

The micro-dispensing needle valve TS-5440SS is pneumatically operated. The valve body is made of stainless steel. The Valve can dispense very precise amounts, because its needle can close the fluid path directly on the canula

inside the needle body.



MINI SPOOL VALVE DV-5325



TECHNICAL DATA:

Dimensions	102 mm long, Ø 35 mm
Weight	approx. 160 g
Material inlet	1/8" NPT
Material outlet	1/8" NPT
Max. material pressure	34 bar
Compressed air inlet	10-32 UNF-2B
Min. operating pressure	3,5 bar
Wetted part materials	aluminium, PTFE, viton, stainless steel 1.4305
Dispensing volume (min.)	0,05 ml
Flow rate	2700 ml/min (water, 6,9 bar)
Switching frequency	700 cycles/min
Fluid viscosity range	1.000.000 mPas

AVAILABLE MODELS AND ACCESSOIRES:

Item no.	Description
DV-5325	Mini spool valve, aluminium
DV-5325SS	Mini spool valve, stainless steel
DV-5325PEEK	Mini spool valve peek

Accessoires

VC1060	Valve controller
V-0062	Seal Kit 1, for mini spool valve
V-0065	Seal Kit 2, for mini spool valve

TYPICAL DISP. MATERIAL:

Adhesives, Oils/Greases/Lubricants, Silicone (RTV)/Gels, Solder Masks/Pastes/PVA

DESCRIPTION:

The Mini Spool valve DV-5325 is designed to very accurately dispense material to high viscosity materials. The compact construction of this dispensing valve enables usage in automatic lines and in systems with limited space. The dispensing valve is pneumati-

cally controlled. The reverse action closure of the valve provides "suck-back" effect, enabling improved positive "shear" of the material. The return stroke can be adjusted via a set screw.

Functionality:

The valve is closed in the rest position. The material suck-back function is adjustable on the valve. The control air opens the valve. The valve tappet unit moves down and material flows through the material inlet to the material

outlet. Optionally, auxiliary air can be used for faster closure of the valve. In the standard operation, the valve closes via a spring force. A moisture barrier can be built up via a small oiler if moisture-sensitive material is being dispensed.

HIGH PRESSURE SPOOL VALVE DV-5370

TECHNICAL DATA:

Dimensions	118 mm long, Ø 38 mm
Weight	approx. 750 g
Material inlet	1/4" NPT
Material outlet	1/4" NPT
Max. material pressure	170 bar
Compressed air inlet	1/4" NPT
Min. operating pressure	4 bar
Wetted part materials	aluminium, buna, PTFE, viton, stainless steel 1.4305, hard chrome plated
Dispensing volume (min.)	0,14 ml
Flow rate	3.900 ml/min (water)
Switching frequency	600 cycles/min
Fluid viscosity range	max. 3.000.000 mPas

AVAILABLE MODELS AND ACCESSOIRES:

Item no.	Description
DV-5370	High pressure spool valve, aluminium
DV-5370SS	High pressure spool valve, stainless steel
Accessoires	
VC1060	Valve controller
560565	Hand held valve dispenser

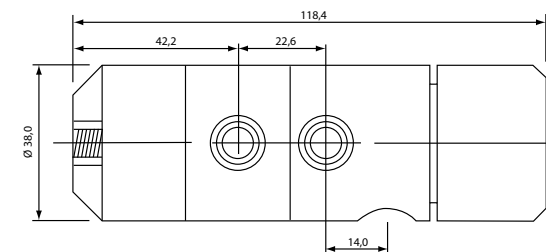
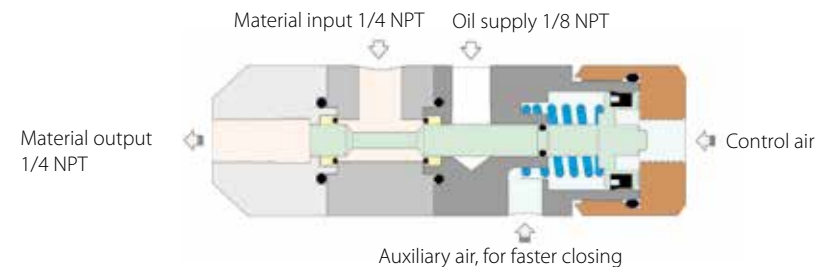
TYPICAL DISP. MATERIAL:

Adhesives, Oils/Greases/
Lubricants, Silicone (RTV)/Gels

DESCRIPTION:

The high pressure dispensing valve DV-5370 is ideally suited for controlled dispensing of high viscosity materials such as silicones (RTV), sealants and greases. The dispensing valve is pneumatically controlled and is equipped with a back suction effect. This achieves

an exact break of the material following the dispensing process. The high pressure valve is designed for extremely high material pressures.

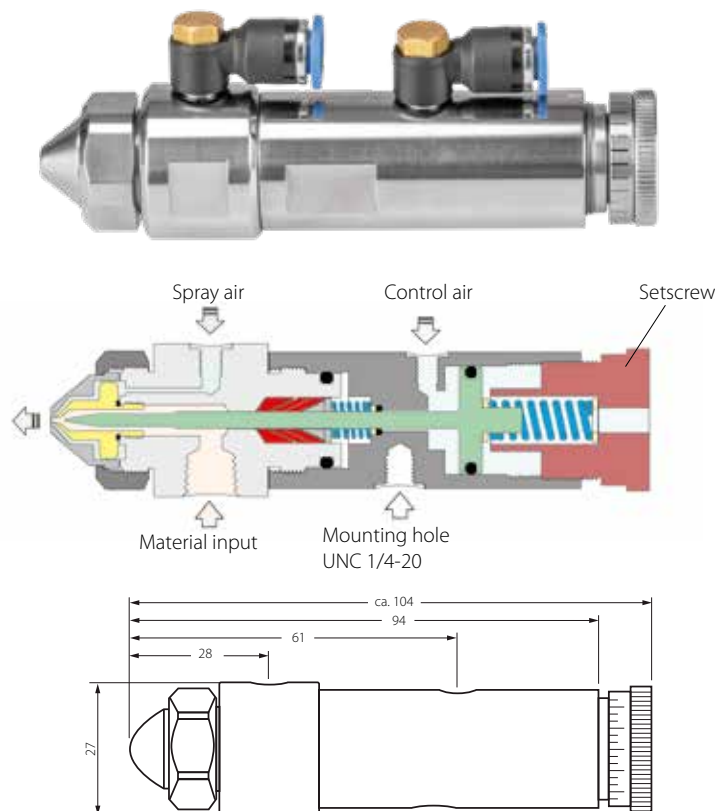


Functionality:

The valve DV-5370 is also a valve with the retraction effect. As soon as compressed air of at least 4 bar is applied to the air inlet, the piston is pushed forward, triggering the dispensing process. When closing the valve, the piston moves

inward. Thus material is pulled into the nozzle, creating a clean break of material flow.

SPRAY VALVE SV-1000SS



TECHNICAL DATA:

Dimensions	104 mm long, Ø 27 mm
Weight	293 g
Control air	5 - 7 bar
Atomised air	0,1 - 2 bar
Material viscosity	max. 1000 mPas
Material pressure	0,1 - 7 bar
Nozzle diameter	0,71 mm
Flow	up to 28 ml/sec
Switching frequency	over 200 cycles/min
Spray cone	12°
Spray pattern	circular, Ø 20-40 mm
Control air supply inlet	10/32 UNF
Atomiser air supply inlet	10/32 UNF
Material supply inlet	1/8" NPT thread

AVAILABLE MODELS AND ACCESSOIRES:

Item no.	Description
SV-1000SS	Spray valve, from 20 mm spray pattern, stainless steel
Recommended valve controller	
VC1260	Valve controller

TYPICAL DISP. MATERIAL:

Adhesives, UV adhesives, Oils/ Greases/Lubricants, Silicone (RTV)/Gels, thick pastes

DESCRIPTION:

The spray valve Model SV-1000SS has been specially developed for spraying of low to medium viscosity materials to produce round spray patterns. The very good adjustment options guarantee a fine spraying operation. Control unit model VC1260 can be program-

med to independently control the two pneumatic "signals" to control the valve – one to atomize the material and the second the control the opening duration of the valve. With the short stroke, the valve responds quickly. With the adjusting screw, the opening

gap can be easily adjusted. The sprayed material is atomized via the separate spray air channel. The slim design allows installation in automated lines and with high equipment density. The valve is adjustable by turning the stroke-adjust control at the

rear of the valve. This will tune the spray pattern. Coating and flow rates are controlled with the fluid pressure, needle stroke, distance from the valve to the work surface and the duration that the valve is open.

SPRAY VALVE SV-2000N SERIES

TECHNICAL DATA:

Weight	250 g
Control air	4 - 6 bar
Atomised air	0,1 - 2 bar
Material viscosity	max. 1000 mPas
Material pressure	0.1 – 7 bar
Spray cone at 40mm	SV2001N - 20° SV2002N - 30° SV2003N - 37°
Spray pattern	circular
SV2003N - 37°	circular (conical spray)
Flow rate	up to 2.4 L/min
Switching frequency	over 200 cycles/min.
Control air supply	M5 * with fitting, quick plug coupling for tube Ø 4 (incl.)
Atomiser air supply	M5 * with fitting, quick plug coupling for tube Ø 4 (incl.)
Material supply	1/8 NPT

MODELLS:

Item no.	Description
SV-2001N	Spray valve for dots and lines from 3mm
SV-2002N	Spray valve from 12 mm width
SV-2003N	Spray valve from 118 mm width

Recommended valve controller

VC1260	Valve controller
--------	------------------

TYPICAL DISP. MATERIAL:

Oils, lubricants, paints, solvents, flux, alcohol, release agents, activators

DESCRIPTION:

The SV2000N valves provide close tolerance spray dispensing of fluids up to 1000 cps, including urethanes, flux and paints. The material is fed from a pressure reservoir. Each valve is actuated by air pressure sequenced by a controller. The operating air pressure

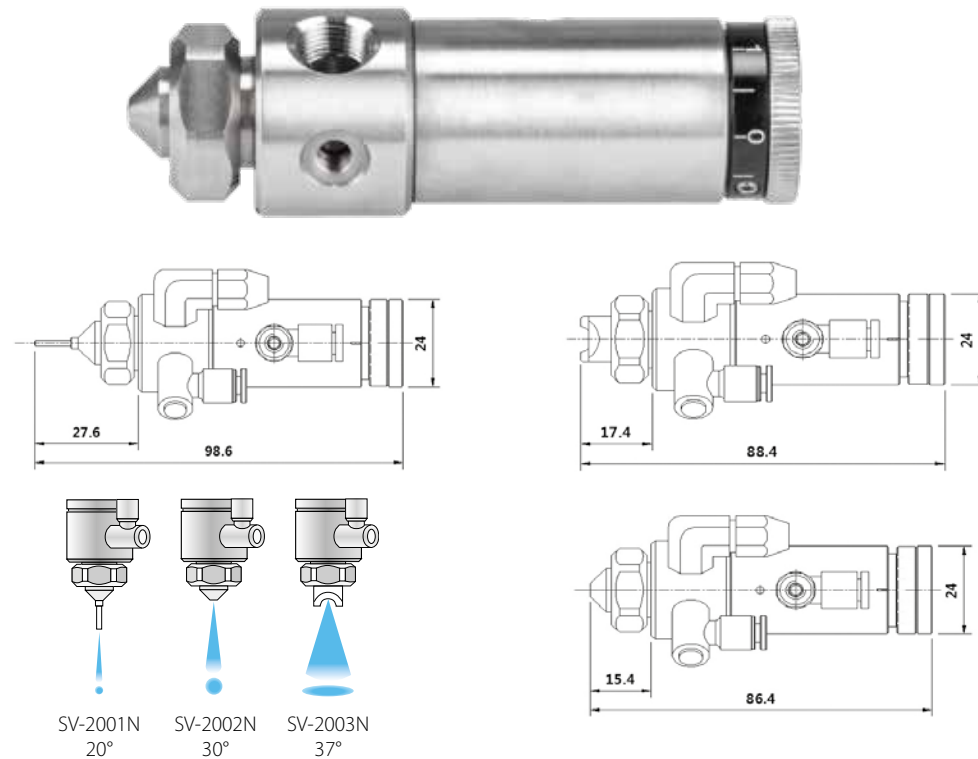
opens a needle valve allowing material to flow; a separate air line creates pressure in the air cap, atomizing the fluid.

Functionality:

The valves are adjustable by turning the stroke-adjust control at the rear of the valve; this will tune the spray pattern.

Coating and flow rate are controlled by the fluid pressure, needle

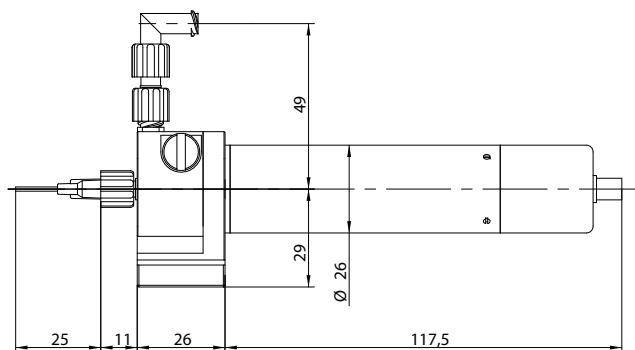
stroke, distance from the valve to the work and the duration the valve is open.



SCREW VALVE DV-5005



Material input



TYPICAL DISP. MATERIAL:

Soldering paste, Silicones (RTV), SMD glue, Heat conducting pastes, Greases

DESCRIPTION:

Model DV- screw valve is designed to dispense material to high viscosity materials. The valve uses a replaceable screw auger to dispense 2K- materials as well as materials that are abrasive. Three augers with different pitches are included with the valve. To operate the valve

control unit model VC1140 is used. The plastic auger can be quickly exchanged, which greatly simplifies the cleaning of the valve.

Functionality

The screw valve meters the material via a rotating auger, from prefilled

syringes or cartridges which are pressurized with air to move the material to the valve. The material is forced by the rotating auger into the dispensing needle. The amount of material being dispensed depends on the auger pitch and its speed of rotation. The auger is powered by

a 24V DC motor. The control unit VC1140 can be programmed for the valve not only to dispense material but also to reverse the rotation of the auger, thereby producing reverse movement of the material into the valve.

TECHNICAL DATA :

Dimensions	153 x 40 x 34 mm
Weight	270 g
Material inlet	Luer-Lock connector
Material outlet	Luer-Lock needle connection
Fluid pressure (max.)	1,5 bar
Motor voltage	5 - 24 V DC
Power consumption	idle 22 mA starting 110 mA
Speed max.	400 U/min
Wetted part materials	delrin/PE
Fluid viscosity range (max.)	50.000 mPas

AVAILABLE MODELS AND ACCESSOIRES:

Item no.	Description
DV-5005DFS	Screw valve with replaceable screw
DV-5005DFS-L	Screw valve with replaceable screw, opens to the left

Accessoires

VC1140	Valve controller
DFS6-A	disposable feed screw, 6 pitch red, complete. w. housing
DFS8-A	disposable feed screw, 8 pitch, black, complete. w. housing
DFS16-A	disposable feed screw, 16 pitch, blue, complete. w. housing



Replacement screw bodies on page 101.

VOLUME DISPENSER DV-8000

TECHNICAL DATA :

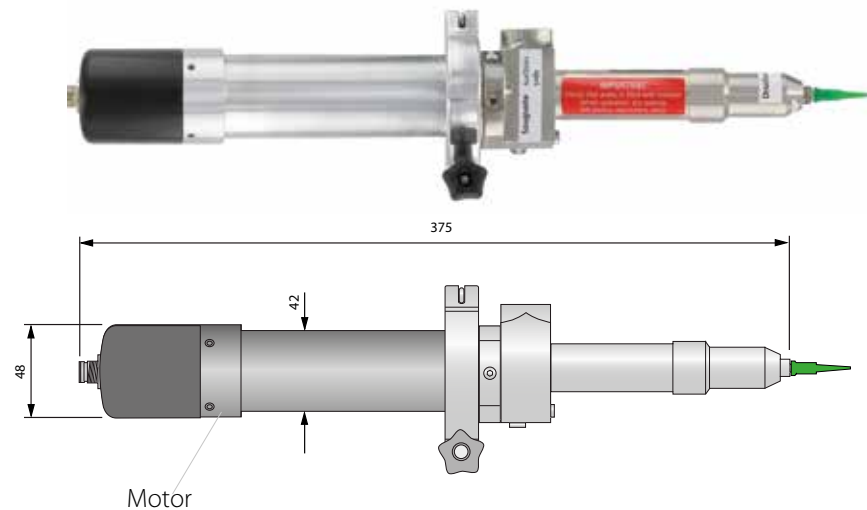
Dispensing volumes	approx. 0,35 ml/U
Flow rate	24 ml/min
Minimum dispensing volume	0,02 ml
Absolute accuracy in ml ±	0,002 ml
Primary pressure, maximum bar (inlet pressure)	static 0-40, dynamic 0-20
Dispensing pressure max. (left-handed)	12 to 60 bar
Dispensing pressure max. (right-handed)	0 to 40 bar
Operating environment conditions	+10° C to +40° C (Ta) air pressure 1 bar
Disp.-temperature material	-10° C to +100° C
Storage conditions / Temperature	dry and dust-free / -10 to +40°
Weight without drive	0,9 kg
Weight	approx. 2 kg
Maximum speed, (idle)	100 U/min
Motor-Voltage	0 to 24 V DC

AVAILABLE MODELS AND ACCESSOIRES:

Item no.	Description
DV-8000	Volume dispenser with rotor-stator-geometry, 0,35 ml/U

Recommended valve controller

VC1140-100	Valve controller
------------	------------------



TYPICAL DISP. MATERIAL:

Oils, lubricants, paint, adhesives,

DESCRIPTION:

Compact volume valve model DV-8000 enables very precise and uniform volumetric dispensing with a wide range of materials. With the special rotor-stator geometry, a valve is not required to prevent the material to flow out on its own. Alternating opening chambers ensure gentle transport

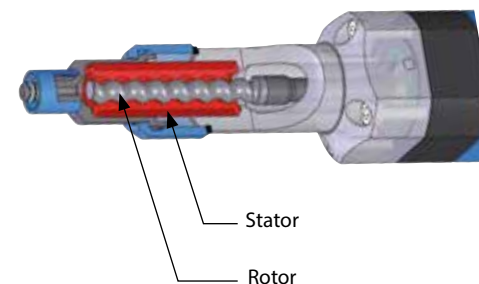
and pulsation-free dispensing application. The system is controlled via model VC1140-100 control unit. Simple programming of the dispensing time and speed are possible with the system. (separate data sheet).

Functionality:

- Interior non-stick coating
- withdrawal possible (no dripping or stringing)
- Absolutely linear relationship between dispensed amount and speed
- Constant dispensing volume

- even with fluctuations in density and viscosity
- Reliable dispensing of material even without heating the material
- low maintenance
- quick disassembly through clamp system

VOLUME DISPENSER ECO-PEN



AVAILABLE MODELS AND ACCESSOIRES:

Item no.	Description
ECO-PEN300	Volume-dispenser
ECO-PEN330	Volume-dispenser
ECO-PEN450	Volume-dispenser
ECO-PEN600	Volume-dispenser
ECO-PEN700	Controller for eco-PEN 300/450/600, complete
ECO-EC200-K	Controller for eco-PEN 300/450/600, for installation, without power supply unit
ECO-EC200-B	eco-Remote-232 port for external programselection
ECO-20326	Speed Control "plug n dispense" TP for eco-PEN300/450/600/700 (Time Pressure)
ECO-20455	Speed Control "plug n dispense" AM for eco-PEN300/450/600/700 (automated 0-10 V)
ECO-20462	

TYPICAL DISP. MATERIAL:

Greases, paints, sealants, adhesives, oils, silicones

DESCRIPTION:

The preeflow® eco-PEN is a rotating, completely pressure-tight dior causes the conveyance through controlled rotation of the rotor. Conveyance without changing the material is guaranteed. Since the flow can also take place backwards, preeflow® guarantees

a clean, controlled material/medium extraction without dripping.

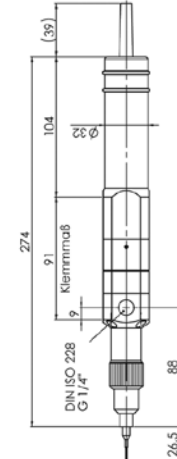
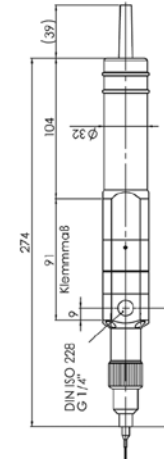
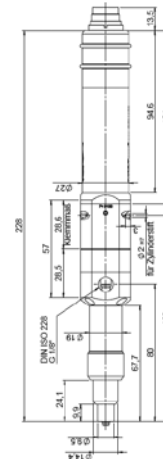
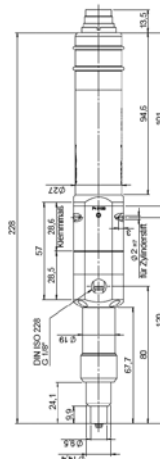
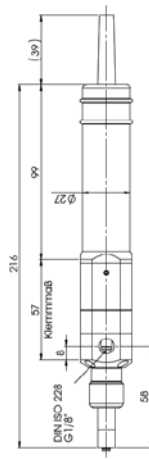
Functionality

The preeflow® eco-PEN300 is a rotating, pressure-sealed displacement system. It consists of a stainless steel rotor and an elas-

tomer stator that together form a self-sealing system. Here single, closed volume chambers are created. Through the rotation of the stator, the volume chambers are pushed further and through it, the extraction is generated. The system is self-priming with low

viscosity products. EC200-K is required for activation.

TECHNICAL DATA:



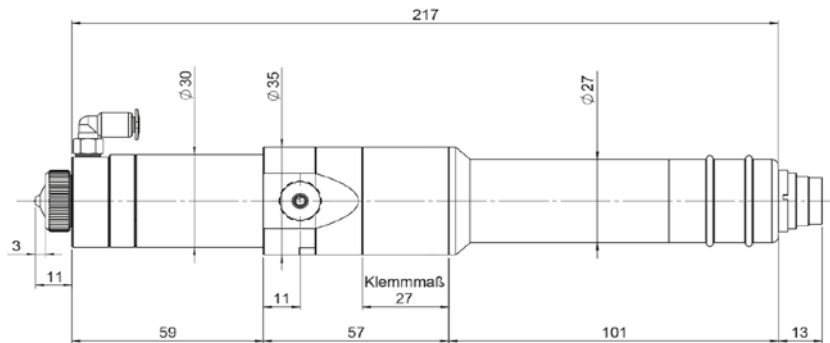
	eco-PEN300	eco-PEN330	eco-PEN450	eco-PEN600	eco-PEN700
Dimensions	Length 216 mm, □ 29 x 29, ø 33 mm	Length 228 mm, □ 29 x 29, Ø 33 mm	Length 228 mm, □ 29 x 29 Ø 33 mm	Length 274 mm, □ 34 x 34 Ø 40 mm	Length 274 mm, □ 34 x 34 Ø 40 mm
Weight	approx. 380 gram	approx. 410 gram	approx. 410 gram	approx. 750 gram	approx. 750 gram
Material infeed	1/8" cylindrical whitworth pipe thread DIN/ISO 228			1/4" cylindrical whitworth pipe thread DIN/ISO 228	
Material outfeed	Luer-Lock with O ring, patented				
Min. operating pressure	0 bar, non-self-levelling-fluid				
Max. operating pressure	0 to 6 bar input pressure, self-levelling-fluid				
Max. dispensing pressure	16 to 20 bar				8 to10 bar
Intrinsic tightness ⁽¹⁾	approx. 2 bar (reference material approx. 1000mPas at 20° C)				
Wetted part materials	HD-POM / stainless steel				
Seals	High-molecular PE, VisChem				
Static seals	Viton O ring (material)				
Motor	18 - 24 V DC, incremental encoder, planetary gears				
Operating conditions	+10° C to +40° C, air pressure 1 bar				
Material temperature	+10° C to +40° C				
Storage environment	dry & dust-free, -10° C to +40° C				
Approx. disp. volume per revolution	0,012 millilitres per revolution	0,03 millilitres per revolution	0,05 millilitres per revolution	0,14 millilitres per revolution	0,53 millilitres per revolution
Accuracy of dispensing ⁽²⁾	± 1 %	± 1 %	± 1 %	± 1 %	± 1 %
Repeat accuracy	> 99 %	> 99 %	> 99 %	> 99 %	> 99 %
Min. dispensing quantity	1 µl (0,001 millilitres)	0,002 millilitres	0,004 millilitres	0,015 millilitres	0,06 millilitres
Volume flow ⁽³⁾	0,12 to 1,48 millilitres/min	0,2 to 3,3 millilitres/min	0,5 to 6,0 millilitres/min	1,4 to 16,0 millilitres/min	5,3 to 60,0 millilitres/min

⁽¹⁾ Max. dispensing pressure and intrinsic tightness will decrease in direct proportion to a decrease in viscosity and increase in direct proportion to an increase in viscosity. Consultation with the manufacturer recommended.

⁽²⁾ Volumetric dispensing as absolute deviation in relation to one dispenser revolution. Depends on the viscosity of the dispensing material.

⁽³⁾ Volume flow depends on viscosity and primary pressure.

SPRAY VALVE ECO-SPRAY



AVAILABLE MODELS AND ACCESSOIRES:

Item no.	Description
ECO-SPRAY450	Dispenser eco-SPRAY (spray valve)
ECO-EC200-K	Valve controller eco-CONTROL EC200-K, complete
ECO-SC1200	Spray controller eco-SPRAY

TYPICAL DISP. MATERIAL:

Greases, paints, sealants, adhesives, oils, silicones, solids contaminated materials

DESCRIPTION:

The precision volume dispenser eco-SPRAY by ViscoTec supports many applications for the low- to high-viscosity materials. The preeflow® eco-SPRAY guarantees a volumetric dispensing based on the endless piston principle. The basis for this is a rotating,

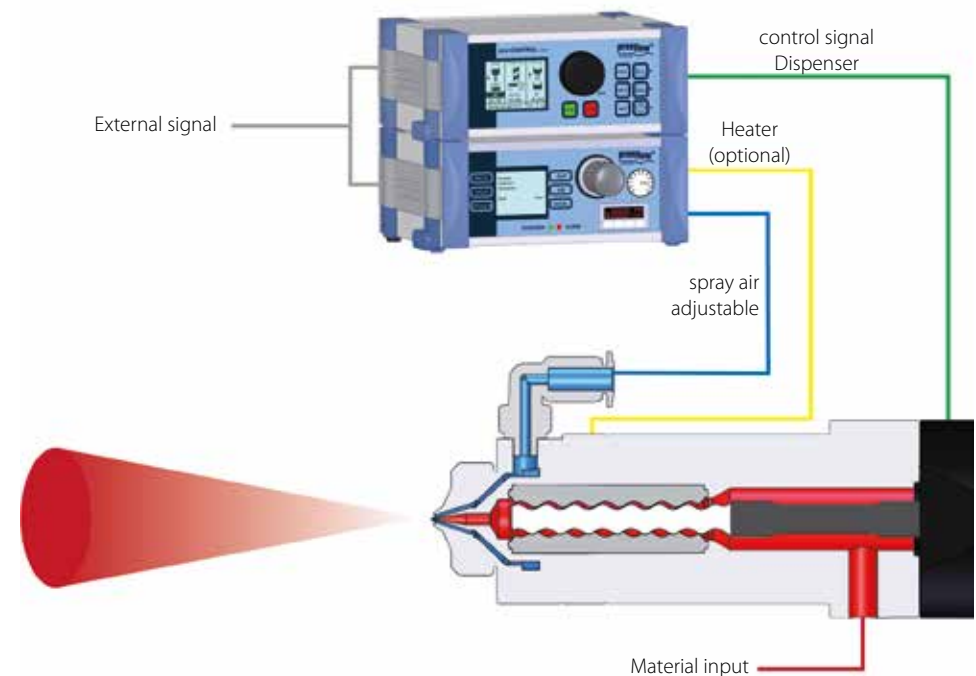
absolutely pressure-tight displacement system consisting of a rotor and a stator. Due to the defined rotational movement of the auger, the material in the stator is displaced volumetrically and generates material flow. A defined amount is supplied by

a processor-controlled special "low-flow" spray chamber. The precise spraying can be done continuously or intermittently. The revolutionary design combination of endless piston and "low-flow" spray chamber guarantees perfect spraying of low to high

viscous materials with high edge definition and lowest overspray.

TECHNICAL DATA:

Dimensions	length, 228 mm, ø 35 mm
Material infeed	1/8" cylindrical Whitworth pipe thread DIN/ISO 228
Wetted part materials	HD-POM / stainless steel / PEEK
Min. operating pressure	0 bar, self-levelling-fluid
Max. operating pressure	0 - 6 bar input pressure, non-self-levelling-fluid
Intrinsic tightness ⁽¹⁾	approx. 2 bar (reference material approx. 10 mPas at 20° C)
Seals	high molecular weight PE, VisChem
Motor	18 to 24 V DC, incremental encoder, planetary gears
Operating conditions	+10° C to +40° C (Ta.), air pressure 1 bar
Material temperature	+10° C to +40° C (optional with heater)
Materialviskosität	low to high viscosity material
Min. dispensing quantity	50 µl
Volume flow ⁽²⁾	0,5 to 6,0 ml/min
Düsendurchmesser	0,2 mm, 0,3 mm, 0,5 mm
Dispensing accuracy ⁽³⁾	± 1%
Repeat accuracy	> 99%
Zerstäuberluft	0,1 - 6 bar
Zerstäuberzuführung	hose connection, outer diameter 4 mm (process connection M5)
Sprühbild	omnidirectional (adjustable)
Sprühwinkel	15 to 30°



⁽¹⁾ Max. dispensing pressure and intrinsic tightness will decrease in direct proportion to a decrease in viscosity and increase in direct proportion to an increase in viscosity. Consultation with the manufacturer recommended.

⁽²⁾ Volumetric dispensing as absolute deviation in relation to one dispenser revolution. Depends on the viscosity of the dispensing material.

⁽³⁾ Volume flow depends on viscosity and primary pressure.

ACCESSORIES FOR ECO-PEN AND ECO-SPRAY

ECO-REMOTE:



Item no.	Description
ECO-20326	eco-Remote-232 interface for ext. programselection

eco-Remote is an interface between the eco-Control EC200-K control system (B) and an external control (eg PLC).

It enables the dispensing programs on the memory card of the control system to be activated.

SPEED CONTROL:



Item no.	Description
ECO-20455	Speed control "plug n dispense" TP for ecoPEN300/450/600/700 (time pressure)
ECO-20462	Speed control "plug n dispense" AM for ecoPEN300/450/600/700 (automated 0-10 V)

The preflow Speed Control plug 'n' dispense TP control unit allows you to control the eco-PEN using a simple time/pressure control unit.

Operating principle:

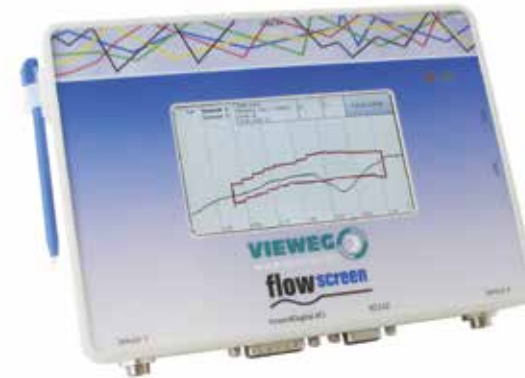
Microprocessor-controlled. The supplied pressure adapter is connected to a conventional time/pressure control unit. The flow rate and flow speed of the eco-PEN are controlled using the specified pressure and a time mode.

DESCRIPTION AIR BUBBLE DETECTION:

The air bubble detection hose sensor has been specially developed for industrial use. The non-contact measuring method is the basic requirement for hygienic and contamination-free applications. The hose is simply placed in the sensor and thus allows a quick and smooth change. The sensor adapts dynamically to changed acoustic conditions. This ensures high stability of the measured values against fluctuating ambient conditions.

AVAILABLE MODELS AND ACCESSOIRES:

Item no.	Description
ECO-Flowscreen	Evaluation unit
ECO-Flowplus16	Pressure sensor
990115	Air bubbles sensor



flowscreen process monitoring



Sensor for measuring the pressure of liquids



Air bubble sensor

TYPICAL DISP. MATERIAL:

Greases, paints, sealants, adhesives, oils, silicones

DESCRIPTION:

The flowscreen evaluation system was developed to monitor dispensing processes.

Up to two pressure sensors can be connected to it. The pressure values determined from the meas-

urement signals are displayed graphically on a display.

Deviations from specified limits for pressure build-up, run-down and removal during dispensing are signaled as error messages with an

LED. In this case, an error tolerance number can be set per connected sensor.

The flowscreen is operated via a touch screen with the supplied pen. The menu navigation is

largely self-explanatory. System states are represented by symbols and plain text output.

JET VALVE DV-6210 / DV-6220



TECHNICAL DATA:

Valve type	piezo-based jet valve for average-, high- and highly viscosity materials
Dimensions (W x H x D)	12 x 39,5 x 115 mm
Weight	min. 258 g (depending on the configuration)
Dispensing volumes	sub nanoliter range depends on the material
Min. drop diameter	180 µm
Viskositätsbereich	until approx. 2.000.000 mPAS
Piston	interchangeable, different shapes, monolithic ceramic, hard metal, etc.
Nozzle	interchangeable, different shapes and diameters (30 µm – 1200 µm)
Dispensing frequency	up to 3.000 Hz
Operating material	filtered compressed air
Material compatibility	unlimited, the wetted parts can be exchanged, and can be selected from an extensive list of materials
Supply pressure	0,1 to 8 bar (rel.), up to max. 100 bar possible
heating system	regulatet nozzle heater: 120° C, higher on request

AVAILABLE MODELS:

Item no.	Description
DV-6210	Jet valve for material to high viscosity material
DV-6220	Jet valve for low viscosity material

TYPICAL DISP. MATERIAL:

SMT adhesives (also filled conductive adhesives with high solids content), silicones, LED phosphors, underfill materials, hotmelts, solder pastes, etc.

DESCRIPTION:

The DV-6210 is a high-speed jet valve with a highly efficient piezo actuator for the contactless dispensing of material- to high-viscosity material of up to 2,000,000 mPas. The high-speed piezo technology accelerates

the dispensing cycles and allows an extremely fast opening and closing of the valve of up to 3000 Hz. Thanks to the modular design and the simple replacement of fewer accessories, such as nozzles and tappets, the system can be

easily adapted to a wide range of customer applications. In addition to the standard version, there are variants for e.g. compact, space-saving installation or high-speed insert and a selection of supply units, such as cartridges, hose con-

nections and nozzle heating.

VALVE CONTROLLER VC1410 / VC1420

TECHNICAL DATA:

Dimensions (W x H x D)	102 x 295 x 128 mm (installation rack mounting)
Weight	approx. 1,4 kg
Power supply	110/240 V AC, 50/60 Hz, controller performance 130 Watt
Parameter storage locations	4 programs in real time controllable 10 programs intern, extern unlimited
Default interfaces	RS232C; 24 V / 5 V, SPS, AUX
Operating modes	burst mode, single shot mode, infinite mode, external mode, szenario, select pins, parameterchange in real time
More funktions	several custom cycle counter (e.g. material consumption, wear parts from nozzle and piston) real time clock for event timestamp

AVAILABLE MODELS:

Item no.	Description
VC1410	Valve controller unit for valve MDV 3200A
VC1420	Valve controller unit for valve MDV 3020A

ACCESSOIRES:

The VC1420 series is designed for installation in the 19" rack. For operation directly at the workplace, we offer special housings on request.

DESCRIPTION:

The electronic control by the controller VC1400 series allows changes of the dispensing parameters without loss of time.

User-adjustable pulse times in the millisecond range allow droplet

diameter of a few hundred micrometers and metering amounts of a shot of 0.5 nanoliters.

Several user-defined cycle counters, such as Material consumption, wear of nozzle and plunger

facilitate control. A real time clock provides the event timestamp.



VALVE CONTROLLER VC1000



DESCRIPTION VC1000 SERIES:

The valve control device VC1000 controls all pneumatic dispensing valves with return springs. The advantage of the VC1000 lies in the fact that in addition to the dispensing valve, the reservoir is also charged with adjustable compressed air. This

is always the case when cartridges are used. It has a digital, adjustable timer and can communicate with a PLC or machine control without any problem.

TECHNICAL DATA VC1060:

Dimensions	235 x 75 x 210 mm (W x H x D)
Weight	1,65 kg
Power supply	85 - 264 V AC 50/60 Hz
Dispensing time	0,01 - 999 sec
Operating modes	manually, time, cycle
Compressed air input	5 to 7 bar
Dispensing pressure	0 to 6 bar
Display	128 x 64 px, graphic display
Programs	8
Input / Output	I/O-Port

DESCRIPTION VC1060-5/2:

The valve control device VC1000 controls all pneumatic dispensing valves with return springs. The advantage of the VC1000 lies in the fact that in addition to the dispensing valve, the reservoir is also charged with adjustable compressed air. This

is always the case when cartridges are used. It has a digital, adjustable timer and can communicate with a PLC or machine control without any problem.

TECHNICAL DATA VC1060-5/2:

Dimensions	235 x 75 x 210 mm (W x H x D)
Weight	1,65 kg
Power supply	85 - 264 V AC 50/60 Hz
Dispensing time	0,001 - 99,9 sec
Operating modes	manually, time, cycle
Compressed air input	5 to 7 bar
Dispensing pressure	2 x 0 to 6 bar
Display	128 x 64 px, graphic display
Programs	8
Input / Output	I/O-Port

VALVE CONTROLLER VC1100



DESCRIPTION VC1100 SERIES:

The digital valve control device VC1100 is used for controlling screw valves such as, for example, the DV-5000DFS, which possess a voltage range of 0 - 24 V. The device has 8 program spaces available that can be selected manually via the front panel, or

alternatively via the I/O interface. Digital pressure monitoring, graphics display, as well as easy operation round out the overall picture of this very high-quality device.

TECHNICAL DATA VC1140:

Dimensions	235 x 75 x 210 mm (W x H x D)
Weight	1,65 kg
Power supply	85 - 264 V AC 50/60 Hz
Dispensing time	0,01 - 999 sec
Compressed air input	0 - 7 bar (Display: digital)
Dispensing pressure	0 - 4 bar (precision pressure reducer) - continuous - pulsed
Display	128 x 64 px, graphic display
Programs	8
Steuerspannung Spindelventil	0 - 24 V DC (PWM)

VALVE CONTROLLER VC1200



DESCRIPTION VC1200 SERIES:

The digital control device VC1200 makes precise control of spray valves possible. It controls the compressed air, used to open and close the valve, as well as compressed air use to atomize the material. The compressed air, which is used to atomize the material, is

adjustable. Three different time intervals can be set: pre-, main- and post-spray time. These adjustment possibilities ensure that a clean spray pattern is generated and no material clings to the nozzle.

TECHNICAL DATA VC1260:

Dimensions	235 x 75 x 210 mm (W x H x D)
Weight	1,65 kg
Power supply	85 - 264 V AC 50/60 Hz
Internal voltage	24 V DC
Dispensing time	0,01 - 999 sec
Compressed air input	0 - 7 bar (Display: digital)
Dispensing pressure	- spray air 0 - 6 bar (precision pressure reducer) - Control air max. 7 bar inlet pressure
Display	128 x 64 px, graphic display
Programs	8

VALVE CONTROLLER PREFLOW® EC 200-K / EC 200-B



DESCRIPTION ECO-EC200-K:

The control device EC200-K (desktop version) serves for controlling the preflow® eco-PEN series dispenser. The control offers the complete functionality that is necessary for the process security of the dispenser. Through the structured

menu and innovative user interface, the user has all data in view and is clearly informed on the current status.

TECHNICAL DATA ECO-EC200-K:

Internal Voltage	24 V DC
Voltage power adapter	230 V / 50/60 Hz
Start	button, footswitch
Start/Stop external	24 V Impuls, 10 mA terminal strip; low 0 to 1,5 V, high 12 to 24 V
Inputs 1-3	Fill level, form, footswitch, plug
Inputs 4-5	free
Output 1	fill level alarm, optocoupler, terminal strip, max. 30 V / 10 mA
Output 2	operational readiness, optocoupler, terminal strip, max. 30 V / 10 mA

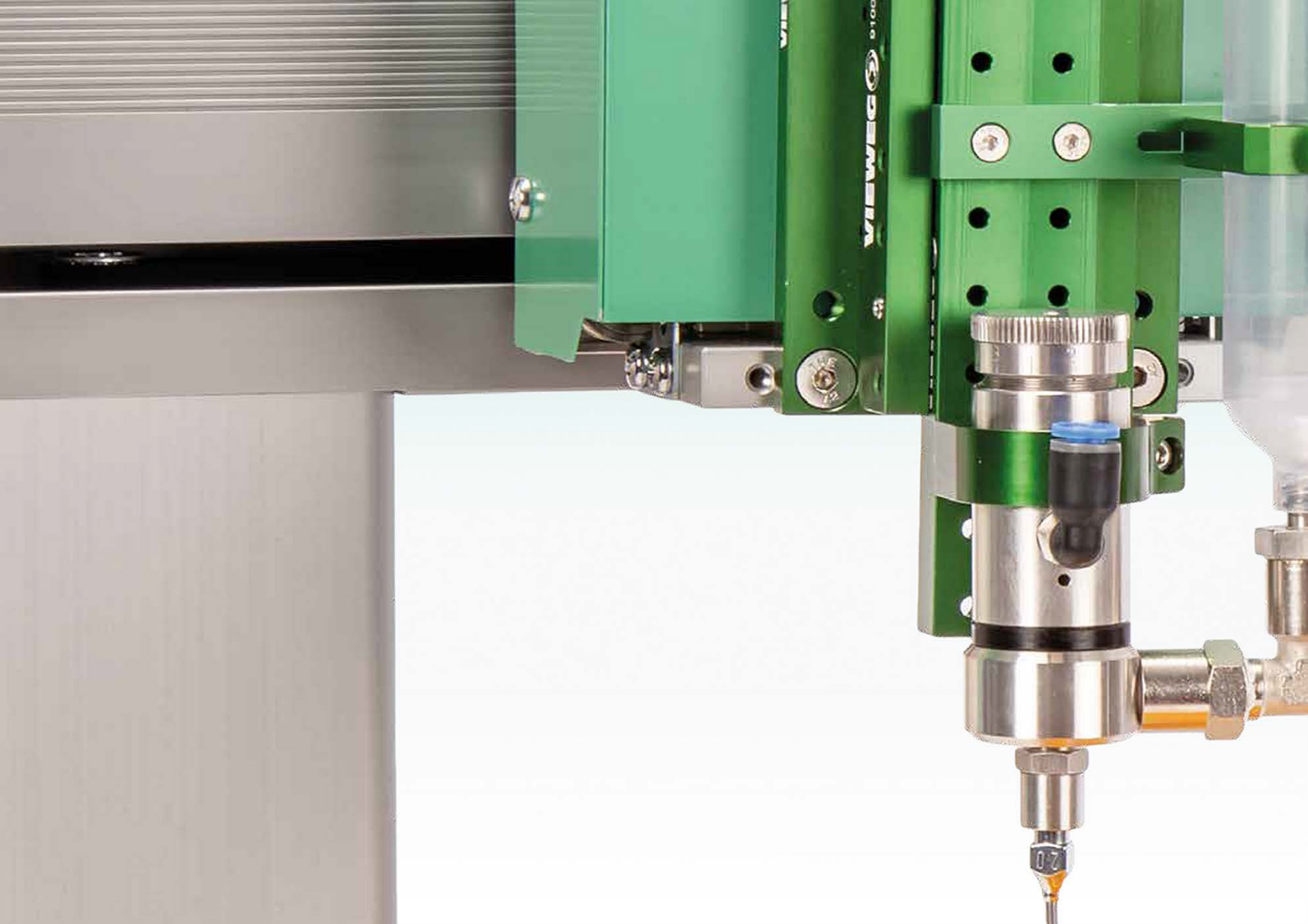


DESCRIPTION ECO-EC200-B:

The control device is controlled via microprocessor. It is characterized by simple operation and graphics surface. Preset prepressure is monitored and can be displayed digitally in bar or psi. Error messages for fill level and motor current are also

monitored. External signals for control in automated lines can be connected to an SPS via I/O-port. Various dispensing programs with part management can be saved in the unit memory. An optional external pressure sensor is required.

Output 3	error, optocoupler, terminal strip, max. 30 V / 10 mA
Connection	GND external components
On and off switch	yes
Compressed air monitoring	0 - 7 bar
External storage	MMC/SD-Card min 64 MB max. 24 programs Microsoft® operating system readable
Operating conditions	+10° C to +40° C (Ta.), air pressure 1 bar
Material temperature	+10° C to +40° C
Storage cond./ Temp.	dry and dust-free / -10 to +40°
CE certified	yes





OVERVIEW DISPENSING ROBOTS

BENCHTOP:



Workspace: cost-saving desktop-application

Model	Axes	Dimensions W x H x D (mm)	Vmax (mm/sec.)	Page
VR3200	3/4	200 x 200 x 50	700	46
VR3300	3/4	300 x 320 x 100	900	48
VR3400	3/4	400 x 400 x 150	900	50
VR3500	3/4	510 x 510 x 150	900	52
VR3600	3/4	510 x 620 x 150	900	54

GANTRY:



Workspace: Inline-systems, finishing lines or system cells, big/heavy work pieces

Model	Axes	Dimensions W x H x D (mm)	Vmax (mm/sec.)	Page
JR-JC3T3-3320	3	300 x 300 x 200	800	57
JR-JC3H3-4420	3	400 x 400 x 200	800	57
JR-JC3H3-5520	3	500 x 500 x 200	800	57
JR-JC3H4-5510	4	500 x 500 x 100	800	57
F9300N	3	300 x 300 x 200	1000	59
F9304N	4	300 x 300 x 200	1000	59
F9600N	3	600 x 600 x 200	1000	59
F9604N	4	600 x 600 x 200	1000	59
F9800N	3	800 x 600 x 200	1000	59
F9804N	4	800 x 600 x 200	1000	59

OVERVIEW DISPENSING ROBOTS

SCARA:



Workspace: Inline-systems, finishing lines or system cells, high-speed applications

Model	Axes	Dimensions W x H x D (mm)	Vmax (mm/sec.)	Page
JS550TH	4	349 x 349 x 150	4200	62
JS750TH	4	505 x 505 x 200	7200	62

PROTECTIVE ENCLOSURES:



To create an EC declaration of conformity (CE marking) in accordance with the Machinery Directive, the robots may only be used in one suitable protective hood are operated!

Model	Page
Protective enclosures with light curtain (BWS)	64
Protective enclosures with sliding door	64

DISPENSING TIP SENSORS:



Model	Page
Dispensing tip sensor for 3-axle-robot	65
Dispensing tip sensor for 4-axle-robot	65

BENCHTOP ROBOT VR3200



BENCHTOP ROBOT VR3200:

The model VR3200 is the smallest of a series of easily programmable Cartesian dispensing robots. With a working area of only 323 x 387 mm (12 ¾" x 15 ¼"), the unit occupies a very small space. The simple easy to use programming of the system can be done using the teach box or software for Microsoft® Windows® operating system.

Business

Our Cartesian dispensing robots interpolate all programmed points, whether they are individual lines or one continuous path, in all axes automatically. The 4-axis model VR3204 is also equipped with a fourth axis, to enable rotation of the tool. The equally powerful and user-friendly software enables the operator to program quickly and easily all application routines. With a clear and easy to use "user guidance" menu program, the system is ready for use within a few minutes.

Connection options

The system is equipped with an I/O-signal interface for controlling external systems (16 input / 16 output).

Programming

- Using teach box (13-line display, illuminated)
- Ideal dispensing methods through continuous-path programming of movements.
- Windows® and CAD software for entering the coordinates are optional.

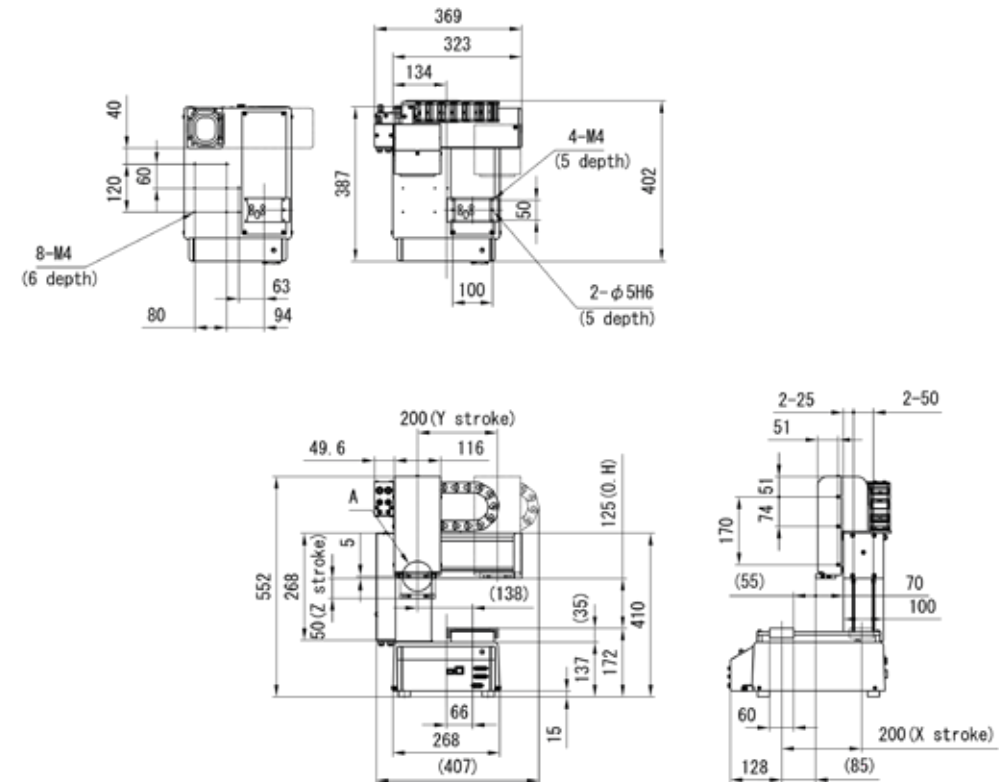
CHARACTERISTICS:

- Points, lines, arcs and circles
- Used for sealing, potting, filling and encapsulation.
- Perfect dispensing ability with repeat accuracy of 0.01 mm deviation
- Computer skills are not required
- System is fast, accurate and reliable
- Dispensing tip sensor is optional and available

BENCHTOP ROBOT VR3200 - TECHNICAL DATA

TECHNICAL DATA:

VR3200 3/4-axis-model	
Working area X/Y/Z (mm)	200 x 200 mm / 50 (R-axis $\pm 360^\circ$)
Max. height tool	200 mm (R 275 mm)
Load, workbench/tool	workbench 7 kg, tool 3,5 kg
Max. Speed PTP Movement	X-axis 700 mm/s; Y-axis 700 mm/s; Z-axis 250 mm/s; R-axis 900° /s
Max. Speed CP Movement	600 mm/s in combination with X-/Y-/Z-movements
Resolution	X and Y axes 0,005 mm / Step Z axis 0,0025 mm / Step R axis 0,009 deg / Step
Repeatability	VR3203 $\pm 0,006$ mm per axis VR3204 $\pm 0,01$ mm per axis; R-axis $\pm 0,008^\circ$
Programs	999 programs
Storage capacity	max. 32.000 program points
Drive	5-phases Impuls stepper motor
Control	PTP (point to point) and CP (continuous movement)
Interpolation	XYZ-axis simultaneously (CP) 3D-lines-interpolation
Programming	Remote & Manual Data Input (MDI)
PLC	100 free programmable applications
I/O signals	SYSTEM I/O 16 input / 16 output signals USER I/O-1 (optional) 8 input / 8 output signals (inkl. 4 relais) I/O-MT (optional) can additionally control up to two external motors
External interfaces	RS-232C (3 ch) for external device USB to save and load programs or backup Feldbus CC-Link; DeviceNet; Profibus (optional) LAN for PoE Industrial Hub Connections
Power supply 230 V	AC 200-240 V, 280 Watt
Operating temperature	0-40° C
Relative humidity	35-85 % without condensation
Dimensions (W x D x H)	323 x 387 x 552 mm (R 323 x 387 x 676 mm)
Weight	20 kg (R 22 kg)



AVAILABLE MODELS:

Item no.	Description
VR3203	3-axis dispensing robot 230 V / 50Hz CE
VR3204	4-axis dispensing robot 230 V / 50Hz CE

ACCESSOIRES:

Item no.	Description
DC1000	Digital dispensing device
JR-C-POINTS2	JR-C-Points II Windows® Software

BENCHTOP ROBOT VR3300



Also available as a
4-axis model



990253-NS
matching dispensing tip sensors
for 3 and 4-axis robots
on page 65

BENCHTOP ROBOT VR3300:

The model VR3300 has a working area of 300 x 320 mm. The simple easy to use programming of the system can be done using the teach box or software for Microsoft® Windows® operating system.

Business:

Our Cartesian dispensing robots interpolate all programmed points, whether they are individual lines or one continuous path, in all axes automatically. The 4-axis model VR3304 is also equipped with a fourth axis, to enable rotation of the tool. The equally powerful and user-friendly software enables the operator to program quickly and easily all application routines. With a clear and easy to use "user guidance" menu program, the system is ready for use within a few minutes.

Connection options:

The system is equipped with an I/O-signal interface for controlling external systems (16 input / 16 output).

Programming:

- Using teach box (13-line display, illuminated)
- Ideal dispensing methods through continuous-path programming of movements.
- Windows® and CAD software for entering the coordinates are optional.

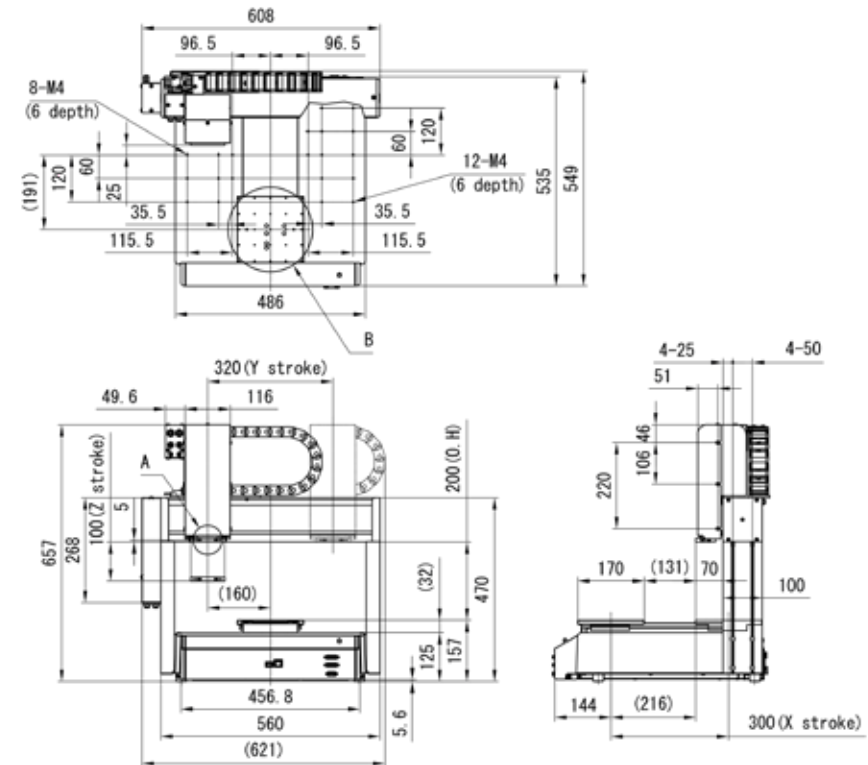
CHARACTERISTICS:

- Points, lines, arcs and circles
- Used for sealing, potting, filling and encapsulation.
- Perfect dispensing ability with repeat accuracy of 0.01 mm deviation
- Computer skills are not required

BENCHTOP ROBOT VR3300 - TECHNICAL DATA

TECHNICAL DATA:

VR3300 3/4-axis-model	
Working area X/Y/Z (mm)	300 / 320 / 100 (R-axis $\pm 360^\circ$)
Max. height tool	200 mm (R 275 mm)
Load, workbench/tool	workbench 15 kg, tool 7 kg
Speed PTP	X-axis 900 mm/s; Y-axis 900 mm/s; Z-axis 400 mm/s; R-axis 900° /s
Speed CP	850 mm/s in combination with X-/Y-/Z-movements
Repeatability	VR3303 $\pm 0,007$ mm per axis VR3304 $\pm 0,01$ mm per axis; R-axis $\pm 0,008^\circ$
Programs	999 programs
Storage capacity	max. 32.000 program points
Drive	5-phases Impuls stepper motor
Control	PTP (point to point) and CP (continuous movement)
Interpolation	XYZ-axis simultaneously (CP) 3D-lines-interpolation
Programming	remote & manual data input (MDI)
PLC	100 programs, 1000 steps pro program
I/O signals	SYSTEM I/O 16 input / 16 output signals
	USER I/O-1 (optional) 8 input / 8 output signals (inkl. 4 Relais)
	I/O-MT (optional) can additionally control up to two external motors
External interfaces	RS-232C (3 ch) for external device
	USB to save and load programs or backup
	Feldbus CC-Link; DeviceNet; Profibus (optional)
	LAN for PoE Industrial Hub Connections
Power supply 110 V	AC 100-120 V, 280 Watt
Power supply 230 V	AC 200-240 V, 280 Watt
Operating temperature	0-40° C
Relative humidity	35-85 % without condensation
Dimensions (W x D x H)	628 x 608 x 657 mm (R 628 x 608 x 769 mm)
Weight	35 kg (R 38 kg)



AVAILABLE MODELS:

Item no.	Description
VR3303	3-axis dispensing robot
VR3304	4-axis dispensing robot

ACCESSOIRES:

Item no.	Description
DC1000	Digital dispensing device
JR-C-POINTS2	JR-C-Points II Windows® Software

BENCHTOP ROBOT VR3400



BENCHTOP ROBOT VR3400:

The model VR3400 has a working area of 400 x 400 mm. The simple easy to use programming of the system can be done using the teach box or software for Microsoft® Windows® operating system.

Business:

The Cartesian dispensing robot VR3400 has an opening on one side. This makes it easy to handle bulky objects. They can easily be put in the work area and taken out again.

The system interpolates all programmed points, whether they are individual lines or one continuous path, in all axes automatically. The 4-axis model VR3404 is also equipped with a fourth axis, to enable rotation of the tool. The equally powerful and user-friendly software enables the operator to program quickly and easily all application routines. With a clear and easy to use "user

guidance" menu program, the system is ready for use within a few minutes.

Connection options:

The system is equipped with an I/O-signal interface for controlling external systems (16 input / 16 output).

Programming:

- Using teach box (13-line display, illuminated)
- Ideal dispensing methods through continuous-path programming of movements.
- Windows® and CAD software for entering the coordinates are optional.

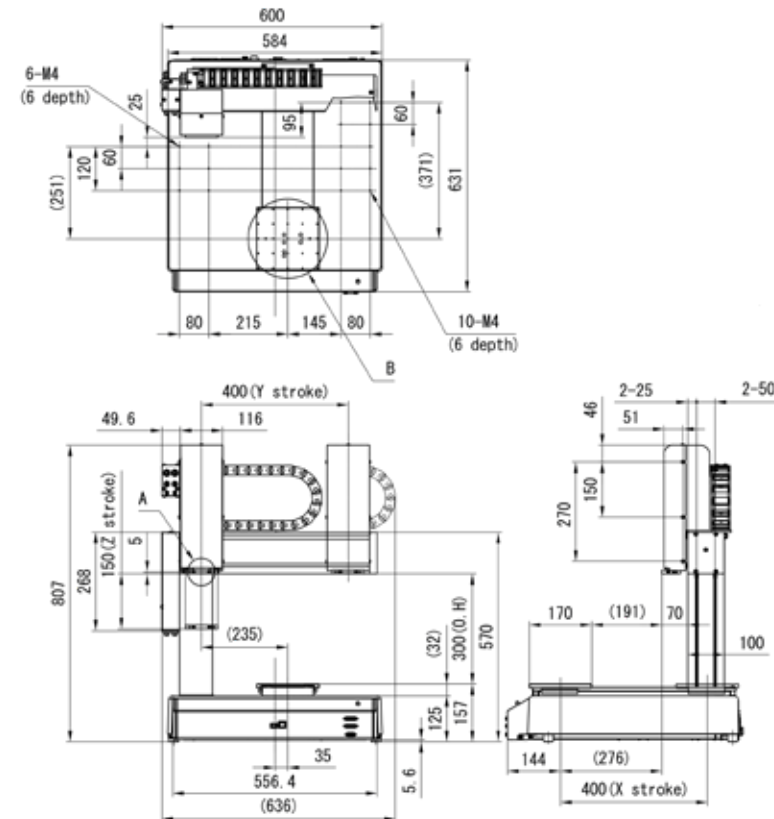
CHARACTERISTICS:

- Points, lines, arcs and circles
- Used for sealing, potting, filling and encapsulation
- Perfect dispensing ability with repeat accuracy of 0.01 mm deviation
- Computer skills are not required

BENCHTOP ROBOT VR3400 - TECHNICAL DATA

TECHNICAL DATA:

	VR3400 3/4-axis-model
Working area X/Y/Z (mm)	400 / 400 / 150 (R-axis $\pm 360^\circ$)
Max. height tool	208 mm (R 300 mm)
Load, workbench/tool	workbench 15 kg, tool 7 kg
Speed PTP	X-axis 900 mm/s; Y-axis 900 mm/s; Z-axis 400 mm/s; R-axis 900°/s
Speed CP	850 mm/s in combination with X-/Y-/Z-movements
Repeatability	VR3403 $\pm 0,007$ mm per axis VR3404 $\pm 0,01$ mm per axis; R-axis $\pm 0,008^\circ$
Programs	999 programs
Storage capacity	max. 32.000 program points
Drive	5-phases Impuls stepper motor
Control	PTP (point to point) and CP (continuous movement)
Interpolation	XYZ-axis simultaneously (CP) 3D-lines-interpolation
Programming	remote & manual data input (MDI)
PLC	100 programs, 1000 steps pro program
I/O signals	SYSTEM I/O 16 input / 16 output signals USER I/O-1 (optional) 8 input / 8 output signals (inkl. 4 Relais) I/O-MT (optional) can additionally control up to two external motors
External interfaces	RS-232C (3 ch) for external device USB to save and load programs or backup Feldbus CC-Link; DeviceNet; Profibus (optional) LAN for PoE Industrial Hub Connections
Power supply 110 V	AC 100-120 V, 280 Watt
Power supply 230 V	AC 200-240 V, 280 Watt
Operating temperature	0-40° C
Relative humidity	35-85 % without condensation
Dimensions (W x D x H)	651 x 668 x 715 mm (R 651 x 668 x 844 mm)
Weight	42 kg (R 46 kg)



AVAILABLE MODELS:

Item no.	Description
VR3403	3-axis dispensing robot
VR3404	4-axis dispensing robot

ACCESSOIRES:

Item no.	Description
DC1000	Digital dispensing device
JR-C-POINTS2	JR-C-Points II Windows® Software

BENCHTOP ROBOT VR3500

BENCHTOP ROBOT VR3500:

The model VR3500 has a working area of 510 x 510 mm. The simple easy to use programming of the system can be done using the teach box or software for Microsoft® Windows® operating system.

Business:

The Cartesian dispensing robot VR3500 has an opening on one side. This makes it easy to handle bulky objects. They can easily be put in the work area and taken out again.

The system interpolates all programmed points, whether they are individual lines or one continuous path, in all axes automatically. The 4-axis model VR3504 is also equipped with a fourth axis, to enable rotation of the tool. The equally powerful and user-friendly software enables the operator to program quickly and easily all application routines. With a clear and easy to use "user

guidance" menu program, the system is ready for use within a few minutes.

Connection options:

The system is equipped with an I/O-signal interface for controlling external systems (16 input / 16 output).

Programming:

- Using teach box (13-line display, illuminated)
- Ideal dispensing methods through continuous-path programming of movements.
- Windows® and CAD software for entering the coordinates are optional

CHARACTERISTICS:

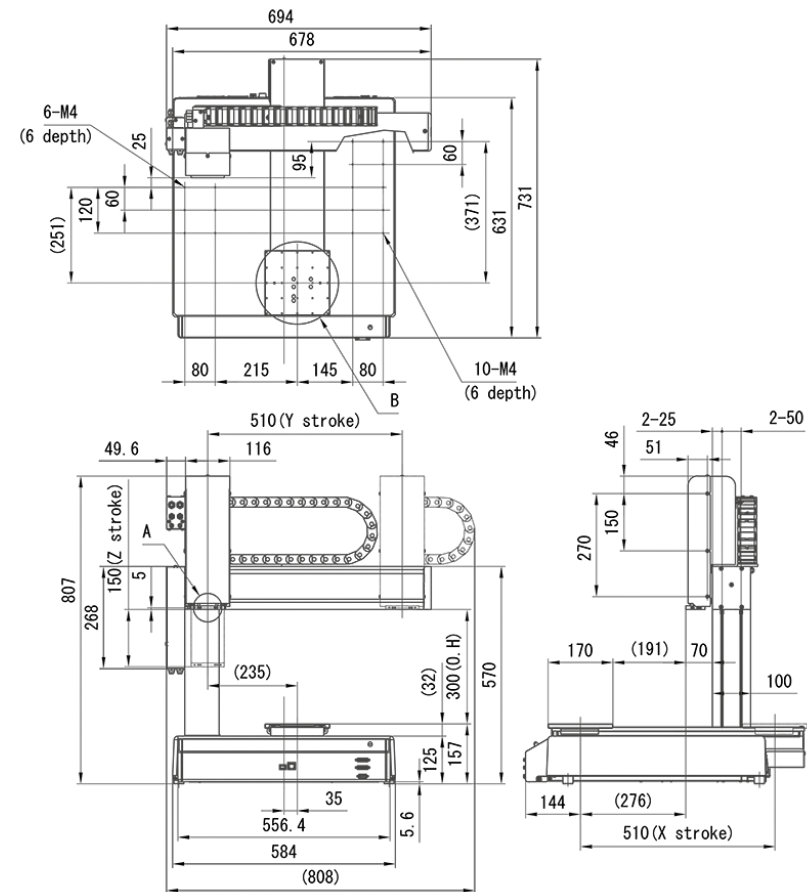
- Points, lines, arcs and circles
- Used for sealing, potting, filling and encapsulation
- Perfect dispensing ability with repeat accuracy of 0.01 mm deviation
- Computer skills are not required



BENCHTOP ROBOT VR3500 - TECHNICAL DATA

TECHNICAL DATA:

	VR3500 3/4-axis-model
Working area X/Y/Z (mm)	510 / 510 / 150 (R-axis $\pm 360^\circ$)
Max. height tool	208 mm (R 300 mm)
Load, workbench/tool	workbench 15 kg, tool 7 kg
Speed PTP	X-axis 900 mm/s; Y-axis 900 mm/s; Z-axis 400 mm/s; R-axis 900°/s
Speed CP	850 mm/s in combination with X-/Y-/Z-movements
Repeatability	VR3503 $\pm 0,007$ mm per axis VR3504 $\pm 0,01$ mm per axis; R-axis $\pm 0,008^\circ$
Programs	999 programs
Storage capacity	max. 32.000 program points
Drive	5-phases Impuls stepper motor
Control	PTP (point to point) and CP (continuous movement)
Interpolation	XYZ-axis simultaneously (CP) 3D-lines-interpolation
Programming	remote & manual data input (MDI)
PLC	100 programs, 1000 steps pro program
I/O signals	SYSTEM I/O 16 input / 16 output signals USER I/O-1 (optional) 8 input / 8 output signals (inkl. 4 Relais) I/O-MT (optional) can additionally control up to two external motors
External interfaces	RS-232C (3 ch) for external device USB to save and load programs or backup Feldbus CC-Link; DeviceNet; Profibus (optional) LAN for PoE industrial hub connections
Power supply 110 V	AC 100-120 V, 280 Watt
Power supply 230 V	AC 200-240 V, 280 Watt
Operating temperature	0-40° C
Relative humidity	35-85 % without condensation
Dimensions (W x D x H)	678 x 731 x 807 mm (R 678 x 731 x 894 mm)
Weight	44 kg (R 47 kg)



AVAILABLE MODELS:

Item no.	Description
VR3503	3-axis dispensing robot
VR3504	4-axis dispensing robot

ACCESSOIRES:

Item no.	Description
DC1000	Digital dispensing device
JR-C-POINTS2	JR-C-Points II Windows® Software

BENCHTOP ROBOT VR3600



BENCHTOP ROBOT VR3600:

The model VR3600 has a working area of 620 x 510 mm. The simple easy to use programming of the system can be done using the teach box or software for Microsoft® Windows® operating system.

Business:

The Cartesian dispensing robot VR3600 has an opening on one side. This makes it easy to handle bulky objects. They can easily be put in the work area and taken out again.

The system interpolates all programmed points, whether they are individual lines or one continuous path, in all axes automatically. The 4-axis model VR3604 is also equipped with a fourth axis, to enable rotation of the tool. The equally powerful and user-friendly software enables the operator to program quickly and easily all application routines. With a clear and easy to use "user

guidance" menu program, the system is ready for use within a few minutes.

Connection options:

The system is equipped with an I/O-signal interface for controlling external systems (16 input / 16 output).

Programming:

- Using teach box (13-line display, illuminated)
- Ideal dispensing methods through continuous-path programming of movements.
- Windows® and CAD software for entering the coordinates are optional.

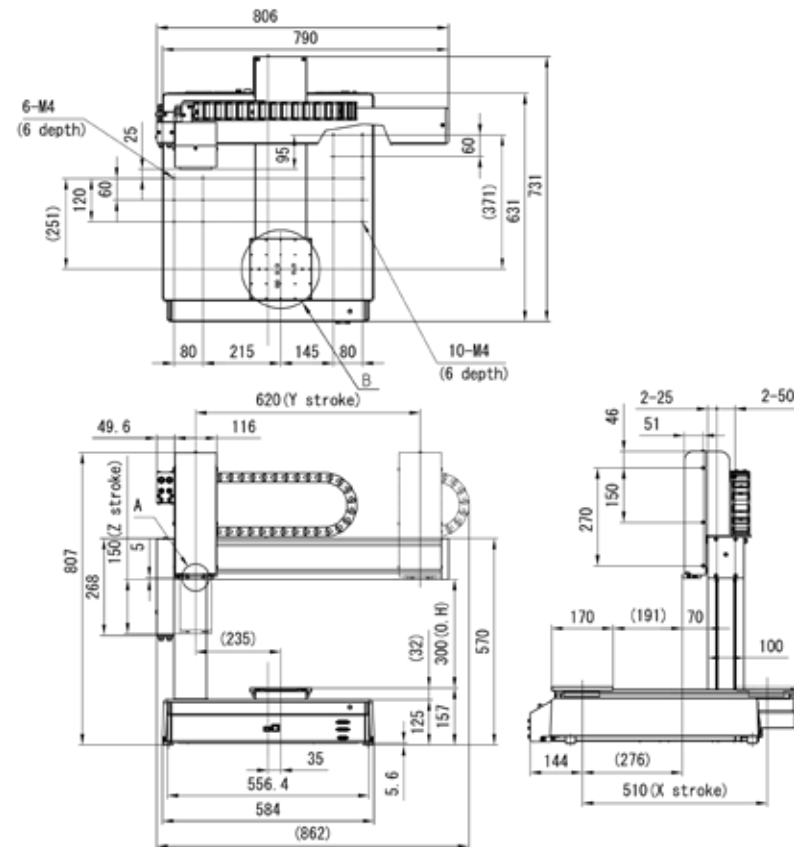
CHARACTERISTICS:

- Points, lines, arcs and circles
- Used for sealing, potting, filling and encapsulation
- Perfect dispensing ability with repeat accuracy of 0.01 mm deviation
- Computer skills are not required

BENCHTOP ROBOT VR3600 - TECHNICAL DATA

TECHNICAL DATA:

VR3600 3/4-axis-model	
Working area X/Y/Z (mm)	510 / 620 / 150 (R-axis $\pm 360^\circ$)
Max. height tool	208 mm (R 300 mm)
Load, workbench/tool	workbench 15 kg, tool 7 kg
Speed PTP	X-axis 900 mm/s; Y-axis 900 mm/s; Z-axis 400 mm/s; R-axis 900°/s
Speed CP	850 mm/s in combination with X-/Y-/Z-movements
Repeatability	VR3603 $\pm 0,007$ mm per axis VR3604 $\pm 0,01$ mm per axis; R-axis $\pm 0,008^\circ$
Programs	999 programs
Storage capacity	max. 32.000 program points
Drive	5-phases Impuls stepper motor
Control	PTP (point to point) and CP (continuous movement)
Interpolation	XYZ-axis simultaneously (CP) 3D-lines-interpolation
Programming	remote & manual data input (MDI)
PLC	100 programs, 1000 steps pro program
I/O signals	SYSTEM I/O 16 input / 16 output signals USER I/O-1 (optional) 8 input / 8 output signals (inkl. 4 Relais) I/O-MT (optional) can additionally control up to two external motors
External interfaces	RS-232C (3 ch) for external device USB to save and load programs or backup Feldbus CC-Link; DeviceNet; Profibus (optional) LAN for PoE industrial hub connections
Power supply 110 V	AC 100-120 V, 280 Watt
Power supply 230 V	AC 200-240 V, 280 Watt
Operating temperature	0-40° C
Relative humidity	35-85 % without condensation
Dimensions (W x D x H)	790 x 731 x 807 mm (R 790 x 731 x 894 mm)
Weight	45 kg (R 48 kg)



AVAILABLE MODELS:

Item no.	Description
VR3503	3-axis dispensing robot
VR3504	4-axis dispensing robot

ACCESSOIRES:

Item no.	Description
DC1000	Digital dispensing device
JR-C-POINTS2	JR-C-Points II Windows® Software
990253-NS	Dispensing tip sensor

GANTRY ROBOT JC-3



Image: JR-JC3H4-5510



990253-NS
matching dispensing tip sensor
for 3 and 4-axis robots
on page 65

CARTESIAN ROBOT JC-3:

The cartesian robot of the JC-3 Series offers numerous functions as well as an easy-to-use control and a robotic unit with a rich selection of stroke per axle.

The JC-3 series uses stepper motors with feedback control. The payload is up to 8 kg, the maximum acceleration is at 5000mm/s and the maximum speed at 800mm/s.

An Ethernet port (LAN) and 3 COM ports (RS232C) are integrated by default. An optional Fieldbus port can be installed (available types: CC-Link, devicenet and Profibus).

The standard included SYS-I/O interface, the system is fully In-line capable and controllable via customer-side plc.

The system offers advanced camera functions for dispensing applications with high precision requirements, such as Automatic calibration and a CCD camera adjustment including position correction and a qualitative evaluation of the dispensing result.

In order to support users from different countries, one of the 10 integrated display languages can be selected on the robot's Teach-box: German, Japanese, English, French, Spanish, Italian, Korean, Simplified Chinese, Czech and Vietnamese.

Programming:

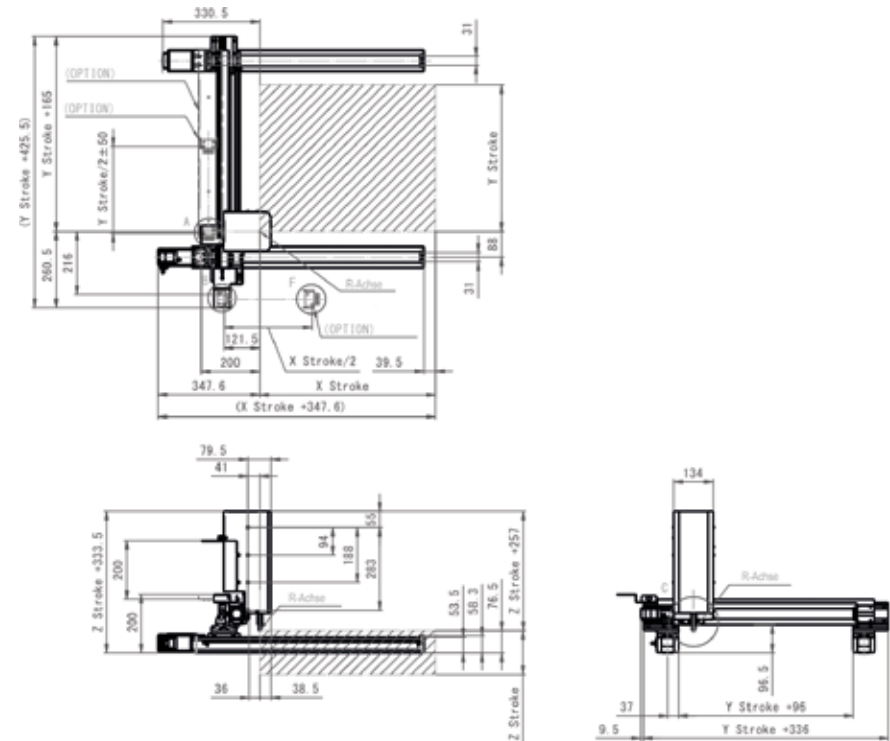
The Teach-box included in the scope of delivery is available for programming.

Optionally, we offer the Windows® software JR-C Points II for programming, through which DXF data can also be imported.

GANTRY ROBOT JC-3 - TECHNICAL DATA

TECHNICAL DATA:

Model		JR-JC3T3-3320	JR-JC3H3-4420	JR-JC3H4-5510
Number of controlled axes		3		4
Working area	X-axis (mm)	300	400	500
	Y-axis (mm)	300	400	500
	Z-axis (mm)	200	200	100
	R-axis (mm)	-	-	±360°
Max. loading capacity (kg)		4	8	3
Speed PTP (mm/s)		X-axis 700, Y-axis 800, Z-axis 400, R-axis 900		
Repeatability (mm)		±0,02 / axis		X-,Y-axis ± 0,02
				Z-axis ± 0,01
				R-axis ± 0,008
Resolution		0,001 mm / axis		
Storage capacity		999 programs, 32.000 point		
Drive		stepper motor, partially with feedback-control		
Control / traverse		PTP and CP		
Programming		<ul style="list-style-type: none">• directly via optional programming panel• Offline per Windows® Software JR-C Points II• per PC: CAD Daten (DXF, Gerber, jpeg)		
I/O signals	SYSTEM I/O	16 input / 16 output signals		
	USER I/O-1	(optional) 8 input / 8 output signals (inkl. 4 Relais)		
	I/O-MT	(optional) can additionally control up to two external motors		
External interfaces	RS-232C (3 ch)	for external device		
	USB	to save and load programs or backup		
	Feldbus	CC-Link; DeviceNet; Profibus (optional)		
	LAN	for PoE Industrial Hub Connections		
Power supply		alternating current 90 - 240 V, 50/60 Hz		
Dimensions control unit (W x D x H) (mm)		170 x 310 x 300		



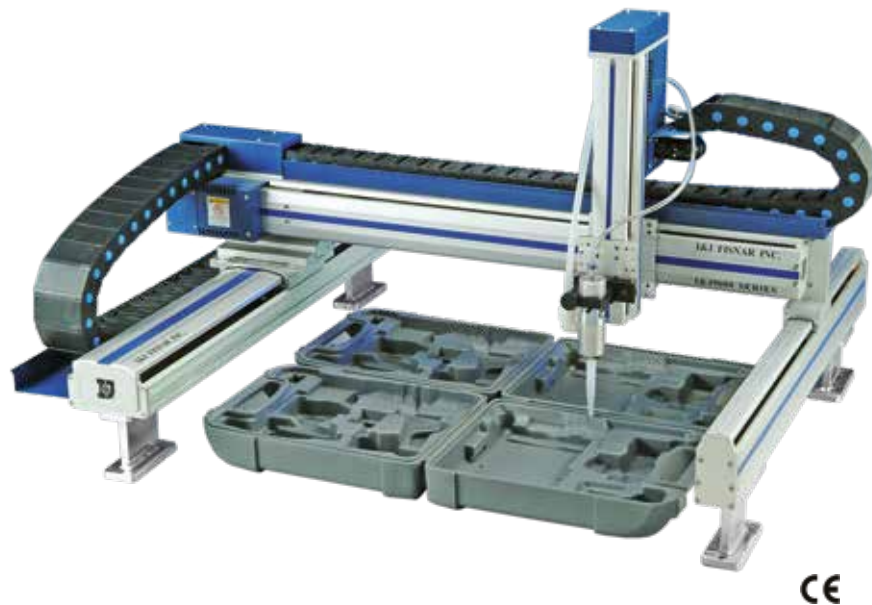
MODELS STANDARD (OTHER SIZES ON REQUEST):

Item no.	Description
JR-JC3T3-3320	3-axis dispensing robot 300 x 300 mm
JR-JC3H3-4420	3-axis dispensing robot 400 x 400 mm
JR-JC3H3-5520	3-axis dispensing robot 500 x 500 mm
JR-JC3H4-5510	4-axis dispensing robot 500 x 500 mm

ACCESSOIRES:

Item no.	Description
DC1000	Digital dispensing device
JR-C-POINTS2	JR-C-Points II Windows® Software

GANTRY ROBOT F9000N SERIES WITH SERVO DRIVE



990253-NS
matching dispensing tip sensor
for 3 and 4-axis robots
on page 65

F9000N SERIES - GANTRY ROBOT WITH SERVO DRIVE:

This proven line of high-performance industrial robots is designed for large volume and large-scale dispensing applications in automated manufacturing environments such as conveyor belts or system cells that require greater flexibility. The control in XYZ (R) axes takes place by means of servomotors and ball screws. All axes are interpolated to ensure an always continuous application of the dispensing material.

Application examples:

- Seals, bonds, encapsulations and potting.
- Resolution 0.01 mm
- Repeat accuracy 0.02 mm
- Continuous motion (CP) and point to point (PTP)
- Repeat programmed steps
- Automatic offset calculation
- 100 programs, 3000 points per program
- Fast, accurate and reliable - around the clock

CHARACTERISTICS:

Cartesian gantry robot moving above the workpiece. Can be used for conveyor systems and rotary indexing tables where the workpiece does not move during the dispensing process. Drive by digital servomotors with recirculating ball screws. Multiple inputs and outputs for integration into other systems.

- Large Z-axis for the absorption of extensive dispensing equipment
- Three- and four-axle models
- High travel speed of up to 1000 mm / sec.
- Robust design for tough industrial use
- Programming via teachbox and PC

PROGRAMMING:

It is very easy to program the F9000N series dispensing robot using the Teach-Box and dispensing software (compatible with Windows® XP / Windows®7) included with the equipment as a standard accessory.

(Windows® software package optional)
Several inputs and outputs for integration into other systems are available - facilitating integration with the PLC of an automatic "conveyorized" system as one example.

GANTRY ROBOT JC-3 - TECHNICAL DATA

TECHNICAL DATA:

	Model F9300N		Model F9600N		Model F9800N	
	F9300N	F9304N	F9600N	F9604N	F9800N	F9804N
Number of controlled axes	3	4	3	4	3	4
Working area X/Y/Z (mm)	300 / 300 / 200	300 / 300 / 200	600 / 600 / 200	600 / 600 / 200	800 / 600 / 200	800 / 600 / 200
rotation range (R°)	-	360°	-	360°	-	360°
Max. load (kg)	7,0 (R 4,0)					
Max. speed X/Y/Z (mm/sek) (R°/s)	1000 / 1000 / 500	1000 / 1000 / 500 / 360°	1000 / 1000 / 500	1000 / 1000 / 500 / 360°	1000 / 1000 / 500	1000 / 1000 / 500 / 360°
Repeatability (mm/axis)	± 0,02 mm					
(R°/axis)	± 0,05°					
Resolution (mm/axis)	0,01 mm					
Resolution (R°/axis)		0,05°		0,05°		0,05°
Storage capacity	3000 steps/PGM, 3000 points/PGM, 100 programs					
Data storage	2 MB Battery-Backup, SRAM					
Processor, Main-CPU	32 bit*1.900 Mflops					
Processor, Servo-CPU	16 bit*2.40 Mips					
Drive	fully digital AC servo					
Control	point to point (PTP) and continuous movement (CP)					
Interpolation, linear/circular	all axes					
Programming	Teachbox / Windows® Software optional					
I/O signals	System I/O 24 / 6, User I/O 32 / 32					
External interfaces	RS232C					
Power supply	230 V / 50Hz					
Operating temperature	0-40° C					
Relative humidity (without condensation)	20 - 90 %					
Dimensions (W x D x H) mm, axis system	679 x 696 x 505		979 x 1022 x 505		1179 x 1022 x 505	
Dimensions (W x D x H) mm, control unit	368 x 302 x 160		368 x 302 x 160		368 x 302 x 160	
Weight, axis system	29 kg	32 kg	37 kg	40 kg	40 kg	43 kg
Weight, control unit	9,5 kg	10 kg	9,5 kg	10 kg	9,5 kg	10 kg

PLEASE NOTE:

Dispensing robots of the F9000N series conform to EU Regulations (CE). Protective enclosure necessary (available as an option)

AVAILABLE MODELS (230 V OPERATING, CE):

Item no.	Description
F9300N	300 x 300 mm 3-axis
F9304N	300 x 300 mm 4-axis
F9600N	600 x 600 mm 3-axis
F9604N	600 x 600 mm 4-axis
F9800N	800 x 600 mm 3-axis
F9804N	800 x 600 mm 4-axis

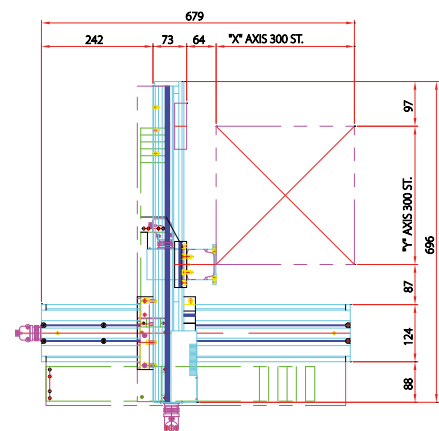
DIMENSIONING F9000N SERIES

F9300N SERIES - GANTRY ROBOT WITH SERVO DRIVE:

F9300N DIMENSIONING:

The F9300N has a working or dispensing range of 300 x 300mm and can cantilevered over only one mounted axle.

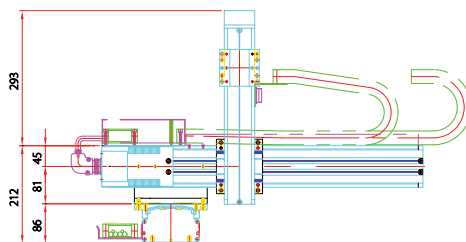
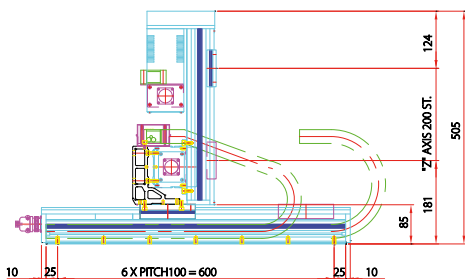
The height of the robot can be adjusted via substructure support blocks in different standard heights.



Substructure support blocks:

Drive axle (left):

562022-050	50 mm
562022-100	100 mm
562022-150	150 mm

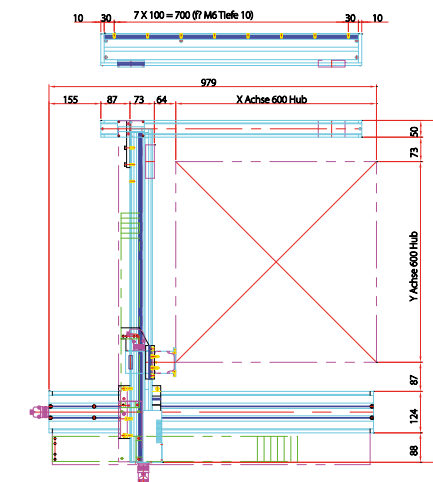


F9600N SERIES - GANTRY ROBOT WITH SERVO DRIVE:

F9600N DIMENSIONING:

The F9600N has a working or dispensing range of 600 x 600mm and is driven by a main driven axle (left) and a follower support axle (right).

The height of the robot can be adjusted via base support blocks on both axles in different standard heights.



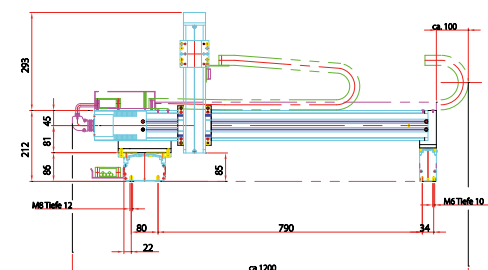
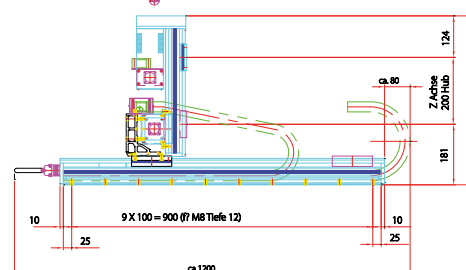
Substructure support blocks:

Drive axle (left):

562022-050	50 mm
562022-100	100 mm
562022-150	150 mm

Support axis (right):

562023-050	50 mm
562023-100	100 mm
562023-150	150 mm



61

SCARA ROBOT JS550TH / JS750TH



DISPENSING ROBOT JS550TH / JS750TH SCARA:

The SCARA robot Models are ideal for use in large volume and large scale dispensing applications in automated production environments. Conveyor belt systems or system cells require a high level of flexibility, to which the SCARA dispensing robot is optimally equipped with its $\pm 360^\circ$ rotation axis.

The SCARA dispensing robot is extremely flexible and versatile. In many cases it can be programmed to perform movement operations generally performed similar to the "human hand". Scara robots are particu-

larly suitable for fast and repeatable dispensing on surfaces of flat to varying contours as well as in an automated operation environment. This industrial robot is a high-speed robot with a processing speed of up to 5000 mm/s. It is suitable to be integrated for in-line operations and or with rotary indexing tables on which the workpiece does not move during the dispensing process. The robot is driven by digital servo motors.

Programming:

Via teachbox or PC software

CHARACTERISTICS:

- Arm length of 750 mm
- Points, lines, curves and circles
- Sealing, casting and fillings
- Continuous path (CP) and point to point (PTP)
- Repetition of programmable steps

AVAILABLE MODELS:

Item no.	Description
JS550TH	4-axis dispensing robot SCARA 230 V AC CE
JS750TH	4-axis dispensing robot SCARA 230 V AC CE

ACCESSOIRES:

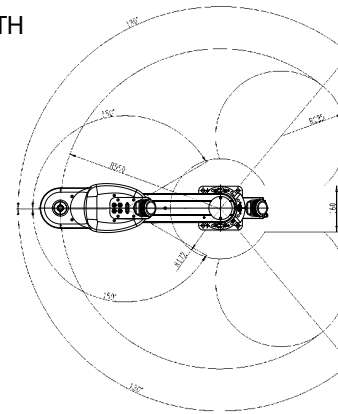
- Mounts for all valves
- Protective enclosure, undercarriage
- Mounts for all cartridges
- JR-C-Points Windows® Software

SCARA ROBOT JS550TH/750TH - TECHNICAL DATA

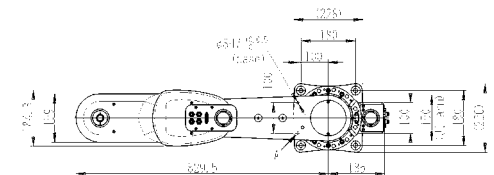
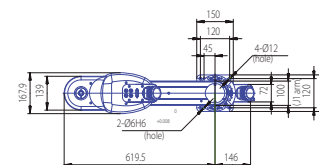
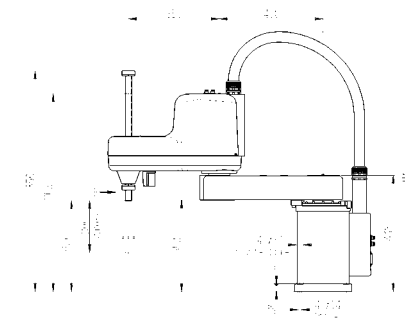
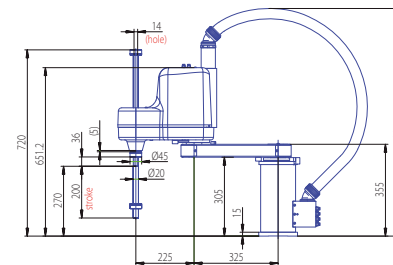
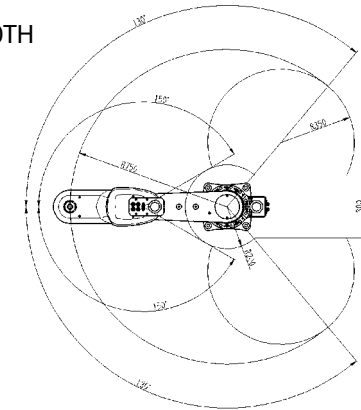
TECHNICAL DATA:

	JS550TH / JS750TH
Drive	AC servomotors
Control	point to point (PTP) and continuous movement (CP)
Interpolation	3 Ddimensional 4-axis linear / circular
Position sensing	Absolut encoder Teachbox:
Programming	direct approach of the position (JOG) manual position input (MDI) PC: Windows® Software JR C-Points (RS232)
Storage capacity	255 programs 30000 steps / total programs 1000 steps / sequenzer
External interfaces	1 x RS422 - Teachbox 3 x RS232C: COM1: PC interface COM2/COM3: external devices
I/O signals	I/O-SYS: 15 inputs 14 outputs I/O-1: 18 inputs 22 outputs (4x relay contact) I/O-H: (tool) 4 inputs 4 outputs (2x relay contact)
Electrical and compressed air lines to the tool (hose depending on robot type)	14 electrical signal lines 4 hose extensions (hose: 4er / 6er)
Power supply	230 V AC (1.050 VA)
Operating temperature	0-40° C
Relative humidity (without condensation)	20-90 %

JS550TH



JS750TH



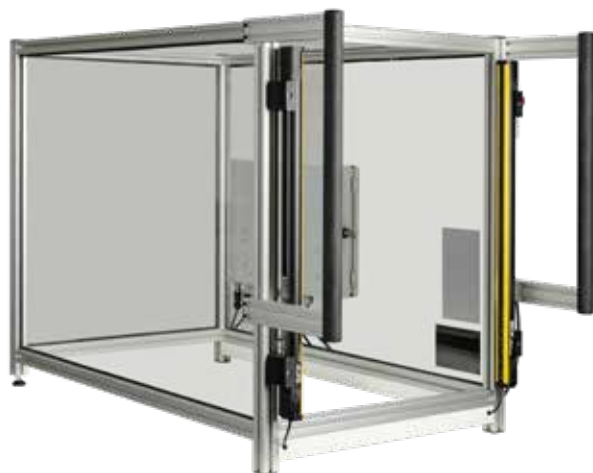
PROTECTIVE ENCLOSURES

To create an EC Declaration of Conformity (CE marking) in accordance with the Machinery Directive, the robots may only be operated in a suitable protective enclosures!



PROTECTIVE ENCLOSURE WITH SLIDING DOOR SUITABLE FOR:

Dispensing Robot	Item no.
VR3303 / F7300N	990200-2300
VR3304 / F7304N	990200-2304
VR3400 / F7400N	990200-2400
VR3404 / F7404N	990200-2404
VR3500	990200-2500
VR3600	990200-2600



PROTECTIVE ENCLOSURE WITH LIGHT CURTAIN SUITABLE FOR:

Dispensing Robot	Item no.
VR3303 / F7300N	990201-2300
VR3304 / F7304N	990201-2304
VR3400 / F7400N	990201-2400
VR3404 / F7404N	990201-2404
VR3500	990201-2500
VR3600	990201-2600

Our protective enclosure are optionally also available in ESD version.
All protective enclosure are available with a base frame. Dimensions and prices on request.

DISPENSING TIP SENSORS

Dispensing tips can be quickly bonded when working with adhesives or silicones, which makes it necessary to replace the dispensing tip.

When using a dispensing tip sensor, the position of the dispensing tip in 3 or 4 axes is re-determined after each change and the dispensing program is adjusted with the measured values.

This will result in a maximum Repeat accuracy when Dispensing process is reached.

It is also ensured that the once set distance of the workpiece to the dispensing tip remains the same, so that a constant dispensing quality is achieved.

Even existing dispensing systems can be retro-fitted with dispensing tip sensors, as they are easy and quick to assemble.

DISPENSING TIP SENSORS FOR 3 AND 4-AXIS ROBOTS:

Item no.	Description
990253-NS	Dispensing tip Sensor, suitable for Series JR2000N, JR3000, VR3000, JC-3, F9000N

Robot-Series	Robot	Disp. tip Sensor, 3-Axis-Function	Disp. tip Sensor, 4-Axis-Function
JR2000N	JR2203N, JR2303N, JR2403N, JR2503N, JR2603N	•	-
JR3000	JR3203, JR3303, JR3403, JR3503, JR3603	•	-
	JR3204, JR3304N, JR3404, JR3504, JR3604	-	•
VR3000	VR3203, VR3303, VR3403, VR3503, VR3603	•	-
	VR3204, VR3304N, VR3404, VR3504, VR3604	-	•
JC-3	JR-JC3T3, JR-JC3H3	•	-
	JR-JC3H4	-	•
F9000N		•	-



OVERVIEW 2K-METER-MIX SYSTEMS

2K-DISPENSING GUNS, 50 ML:

PAGE 67

For dualcartridges 1:1 / 2:1 / 4:1 / 10:1

For dental cartridges 1:1

- manual
- pneumatic
- electric



2K-DISPENSING GUNS, SYSTEM II / 200 AND 400 ML:

PAGE 68

For dualcartridges, SYSTEM II

- manual
- pneumatic



2K-MIXING SYSTEM ECO-DUO330 / -450 / -600:

PAGE 70



The new eco-DUO 2-component precision volume dispenser.

Point dispensing with maximum volumetric accuracy - bead application with an application speed that can be adjusted to match the conveyor speed - encapsulation technology.

2-MIXING SYSTEMS:

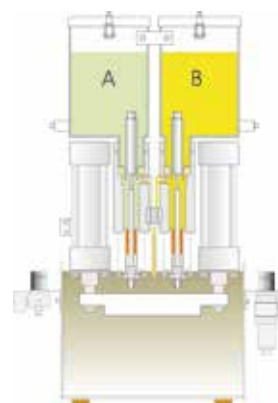
PAGE 72



Two component dispensing and mixing systems, also known as 2K mixing units, are used in a wide range of industries. This ranges from mechanical engineering, electrical engineering, electronics to medical technology, aerospace and many other areas.

VOLUME MIX PRINCIPLE:

PAGE 74



Sectional diagram to show how the Dosamix mixing system works. This shows how the unit operates in detail.

2K-DISPENSING GUNS 50 ML

2K-DISPENSING GUN MANUAL



For double cartridges, 50 ml, 1:1 / 2:1 / 4:1 / 10:1

Item no.	Description
990196-1	mixing ratio 1:1 / 2:1
990196-4	mixing ratio 4:1
990196-10	mixing ratio 10:1

For Dental double cartridges, 50 ml, 1:1

Item no.	Description
990197-1	mixing ratio 1:1 / 2:1
990197-4	mixing ratio 4:1
990197-10	mixing ratio 10:1

2K-DISPENSING GUN PNEUMATIC



For double cartridges 50 ml (Standard Bajonett)

Item no.	Description
990230-A-1	mixing ratio 1:1 / 2:1
990230-A-10	mixing ratio 10:1

For double cartridges 50 ml (Dental cartridges / UHU)

Item no.	Description
990230-B-1	mixing ratio 1:1 / 2:1
990230-B-10	mixing ratio 10:1



Accessoires for both guns

Item no.	Description
990241-2k-50MLA	Holder for fastening the discharge gun in the U-bracket

2K-DISPENSING GUNS SYSTEM II / 200 AND 400 ML

APPLIKATOR GUN MANUEL



2K gun 200 ml for Mixpac® double cartridges

Item no.	Description
990264	mixing ratio 1:1 / 2:1
990264-4	mixing ratio 4:1
990264-10	mixing ratio 10:1

2K gun 400 ml for Mixpac® double cartridges

Item no.	Description
990267	mixing ratio 1:1 / 2:1
990267-4	mixing ratio 4:1
990267-10	mixing ratio 10:1

APPLIKATOR GUN PNEUMATIC



2K gun 200 ml for Mixpac® double cartridges

Item no.	Description
990266	mixing ratio 1:1 / 2:1
990266-4	mixing ratios 4:1
990266-10	mixing ratio 10:1

2K gun 400 ml for Mixpac® double cartridges

Item no.	Description
990268	mixing ratio 1:1/2:1
990268-4	mixing ratio 4:1
990268-10	mixing ratio 10:1

2K-APPLICATOR GUN MANUAL FOR SYSTEM II:



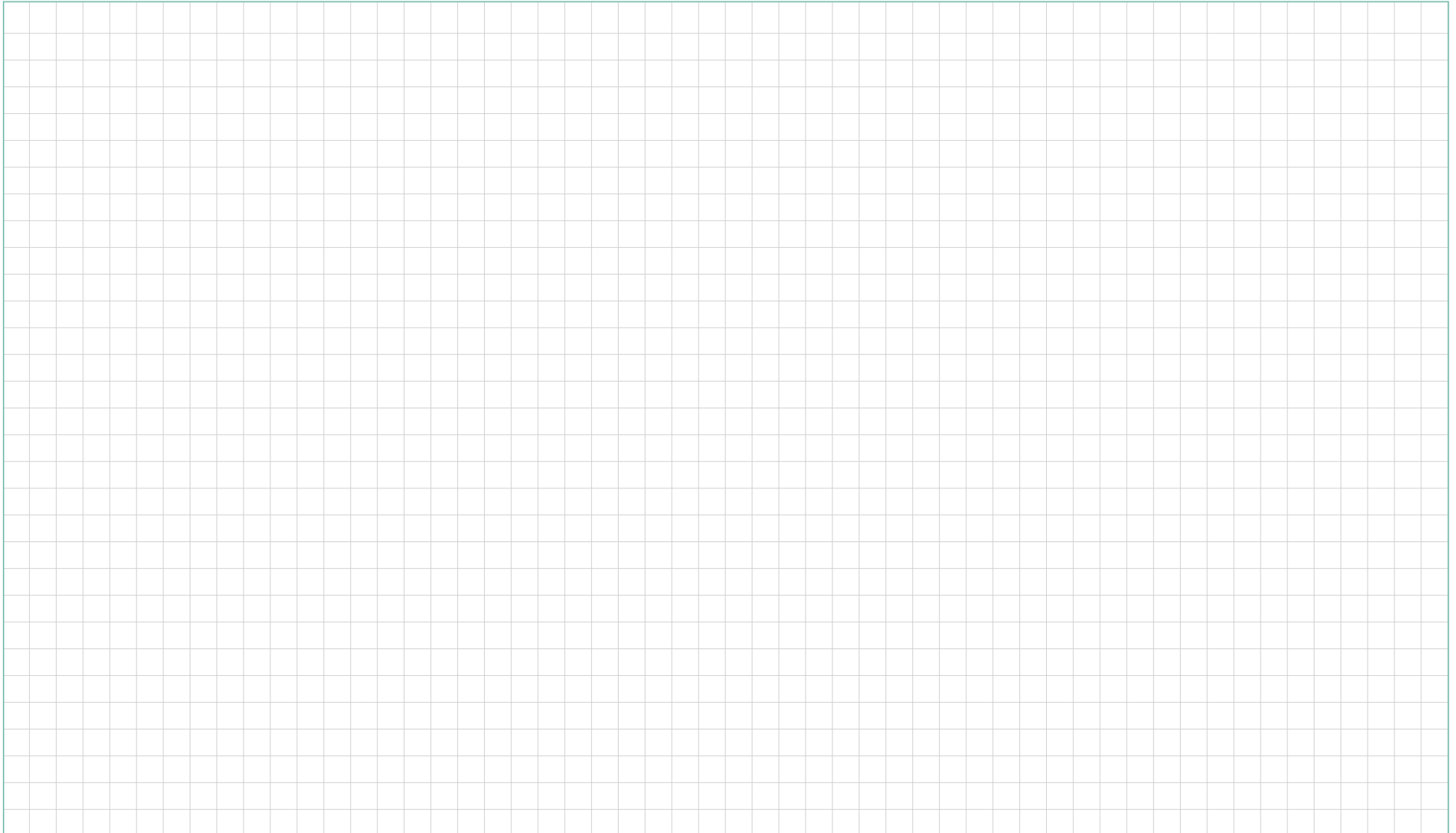
Item no.	Description	mixing ratio in ml
TS-526C	compact manual gun	50 x 50
TS-526S	standard Small manual gun	150 x 150, 150 x 75
TS-529S	standard Large manual gun	300 x 300, 300 x 150

2K-APPLICATOR GUN PNEUMATIC FOR SYSTEM II:



Item no.	Description	mixing ratio in ml
TS-522C	pneumatic gun compact-1	50 x 50
TS-522S	pneumatic gun standard	150 x 150, 150 x 75, 75 x 75
TS-523S	large pneumatic gun standard-1	750 x 750, 750 x 300, 750 x 150
TS-524S	large pneumatic gun standard-2	750 x 75
TS-525S	large pneumatic gun standard-3	300 x 300, 300 x 150, 300 x 75, 150 x 75

FOR YOUR NOTES



2K-METER-MIX SYSTEM ECO-DUO



TECHNICAL DATA:

	eco-DUO330	eco-DUO450	eco-DUO600
Weight (without drive)	ca. 1.100 g	ca. 1100 g	ca. 1600 g
Material input	1/8"		1/4"
Material output	static mixer pipe bayonet lock		
Operating pressure	0 to 20 bar inlet pressure		
Maximum operating pressure ⁽⁴⁾	up to 40 bar		
Wetted part materials	anodized aluminum		
Seals	high molecular weight PE, VisChem		
Seals static	O-Ring Viton		
Drive	18 to 24 V DC, incremental encoder, planetary gear		
Operating conditions	+10° C to +40° C (Ta.), air pressure 1 bar		
Material temperature	+10° C to +40° C		
Dispensing volume approx. per revolution	0,028 ml/U per Dispenser	0,05 ml/U per Dispenser	0,140 ml/U per Dispenser
Dispensing accuracy ⁽²⁾	± 1 %		
Repeatability	> 99 %		
Mixing ratio	1:1 to 10:1		
Smallest dispensing	0,005 ml / 5 µ	0,01 ml / 10 µ	0,03 ml / 30 µ
Volume flow ⁽³⁾	0,1 to 6,6 ml/min (at 1:1)	0,2 to 12 ml/min	0,6 to 32 ml/min

⁽¹⁾ Max. dispensing pressure and self-sealing decrease with lower viscosity and increase for higher viscosity Consultation with the manufacturer

⁽²⁾ Volumetric dispensing as an absolute deviation referring to one revolution of the dispenser. Dependent on the viscosity of the dispensing material

⁽³⁾ max. material flow depends on viscosity, material pressure and mixing ratio

⁽⁴⁾ depends on type of static mixer

TYPICAL DISP. MATERIAL:

- Epoxy
- Polyurethane
- Silikone

DESCRIPTION:

The preeflow® eco-DUO is a rotating, completely pressure-tight dior causes the conveyance through controlled rotation of the rotor. Conveyance without changing the material is guaranteed. Since the conveyance can also take place backwards, preeflow®

guarantees a clean, controlled material extraction without dripping.

Technical characteristics:

- True volumetric dispensing, dispensing independent of viscosity and of primary pressure
- Pressure-tight without a valve
- Retraction effect
- Easy cleaning

- Adjustable dispensing rate
- Dispensing pressures up to 40 bar

2K-METER-MIX SYSTEM ECO-DUO

TECHNICAL DATA:

Dimensions (HxWxD):	100 x 240 x 260 mm
Weight:	approx. 1,3 kg
Voltage:	24 V DC, power adapter is supplied
Voltage power adapter:	230 V / 50 / 60 Hz
Consumption/Power:	100 VA / 2,7 A
Start:	Taste
Start/Stop external:	24 V pulse high/low terminal strip; low 0 to 1.5 mV, high 12 to 24 V
On/Off switch	yes
Interface:	RS232 / USB / I/O
Input	0 to 7 bar
Output	0 to 40 bar
External memory:	MMC/SD-Card min. 64 MB max. 24 programs
Data analysis	Expression signals optionally readable
Operating conditions:	+10° C to +40° C (Ta.), air pressure 1 bar
Material temperature:	+10° C to +40° C
Storage conditions:	dry/dust-free -10 to +40° C
CE certified:	yes



AVAILABLE MODELS:

Item no.	Description	Dispensing volume
ECO-DUO330	2K-mixing system with control EC200-DUO	0,005 ml
ECO-DUO450	2K-mixing system with control EC200-DUO	0,01 ml
ECO-DUO600	2K-mixing system with control EC200-DUO	0,03 ml
ECO-20827	Mixing tube adapter for bayonet mixer on eco-DUO450 - stainless steel	

DESCRIPTION:

The new controller eco-CONTROL EC200-DUO allows a lot of different 2K applications, based on the ecoDUO 450 volume dispenser.

Mode of operation:

The controller gives the user a lot of possibilities for various settings

for dispensing volume, mixing ration and dispense time. All required parameters for the production can be saved and edited in the system.

The setting of the EC200-DUO parameters can be done intuitive on two graphical displays.

An integrated pressure control for both components ensures optimal process reliability. A USB interface allows a very easy external data save and data transfer.



VOLUME MIX (5-80 CCM)

from **9.027,95 €**



DESCRIPTION:

The 2-component mixing and dispensing system was developed in order to process material amounts of 2-component material. The flow control principle for both components consists of piston pumps that are driven by two pneumatic cylinders. As standard, the system is equipped with 2 x 11-litre containers and can also be combined with 35-litre containers. The containers are airtight and are not pressurised. This means they can also be opened at any time during operation.

Functionality:

The mixing system works according to the piston principle. The pistons for the resin and hardener are designed according to the mixing ratio (MR). The MR is therefore permanently fixed for a specific material. Advantage: The operating personnel cannot adjust the mixing ratio!

Of course, the MR can also be changed subsequently at any time by exchanging the hardness piston. Both material pistons are connected to one another via a piston plate. The piston plate is pneumatically driven by an air cylinder. If the piston plate moves up, both pistons emerge from the material cylinders. Material is drawn into the cylinders. When the piston plate moves down, both material pistons plunge simultaneously into the gaskets and convey the material separately to the outlet valve via check valves. The material first comes together at the front of the outlet and flows through the static mixer pipe. Two operating modes can be selected at the control:

- Manual operation
- Volume operation

AVAILABLE MODELS:

Item no.	Description
VOLMIX-M1-E2	2K-mixing system Volumenmix, 2 component
VOLMIX-M1-E2-P	2K-mixing system Volumenmix, 2 component with dispensing gun
VOLMIX-M2-E2	2K-mixing system Volumenmix, 2 component with brake

VOLUME MIX (5-80 CCM)

CHARACTERISTICS:

- Simple operation
- Few moving parts
- Low maintenance
- Controlled outflow speed
- Very little cleaning effort - no rinsing
- Immediately ready to use

CONTROL:

- Electric, with pneumatic actuator

Operating modes:

- Volume dispensing
- Continuous dispensing (manual operation)
- Dimensions in mm
WxDxH 365x230x305

STD SCOPE OF DELIVERY:

- Volume mix with containers
- (2 x 11 litre)
- Automatic piston return
- Foot switch
- Compressed air hose
- Operating instructions
- Tool for maintenance

TYPICAL DISP. MATERIAL:

- Epoxy
- Polyurethane
- Silicone

TECHNICAL DATA:

Mixing ratio	1:1 to 6:1
Viscosity	to 100,000 mPas
Container	2 x 11 litre stainless steel (optional 35 litre)
Height	approx. 87 cm (approx. 104 cm with the agitator)
Width	approx. 53 cm
Depth	approx. 30 cm
Weight	approx. 40 kg (empty)
Required air pressure	min. 4 bar - max. 8 bar
Voltage	230 VAC/2 A/50 Hz
Accuracy	± 3% (depends on the mixing ratio)
Application amount	5 cc - 80 cc

OPTIONS (WE ARE HAPPY TO HELP):

35-litre container

A 35-litre container can be installed instead of the 11-litre container. Either on the resin or hardener or for both sides.



Heating

The 11 l or 35 l containers can be heated to warm up the materials. The temperature range goes up to 45° C.



Fill level control

For all container sizes, the fill level is monitored using ultrasound. The fill level is indicated by a bar graph on the display.



Dehumidification cartridge

An absorber cartridge can be attached to the container for materials sensitive to moisture, such as polyurethanes. The size is 180 cc.



Agitator

Materials with fillers must generally always be stirred. We offer two agitators:

- Electric
- Pneumatic

Each with approx. 60 rpm.



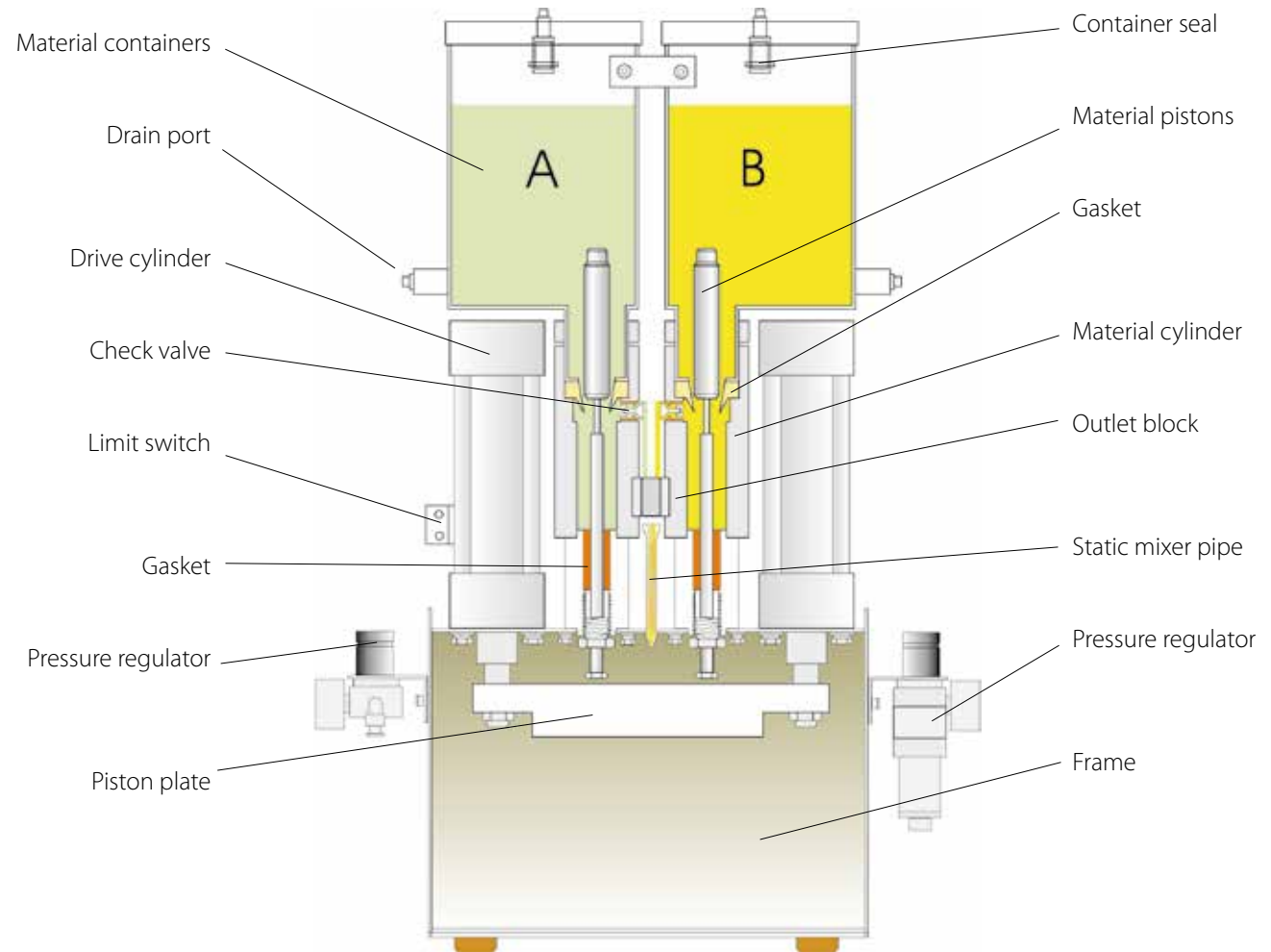
PRINCIPLE VOLUME MIX (5-80 CCM)

VOLUME MIX PRINCIPLE:

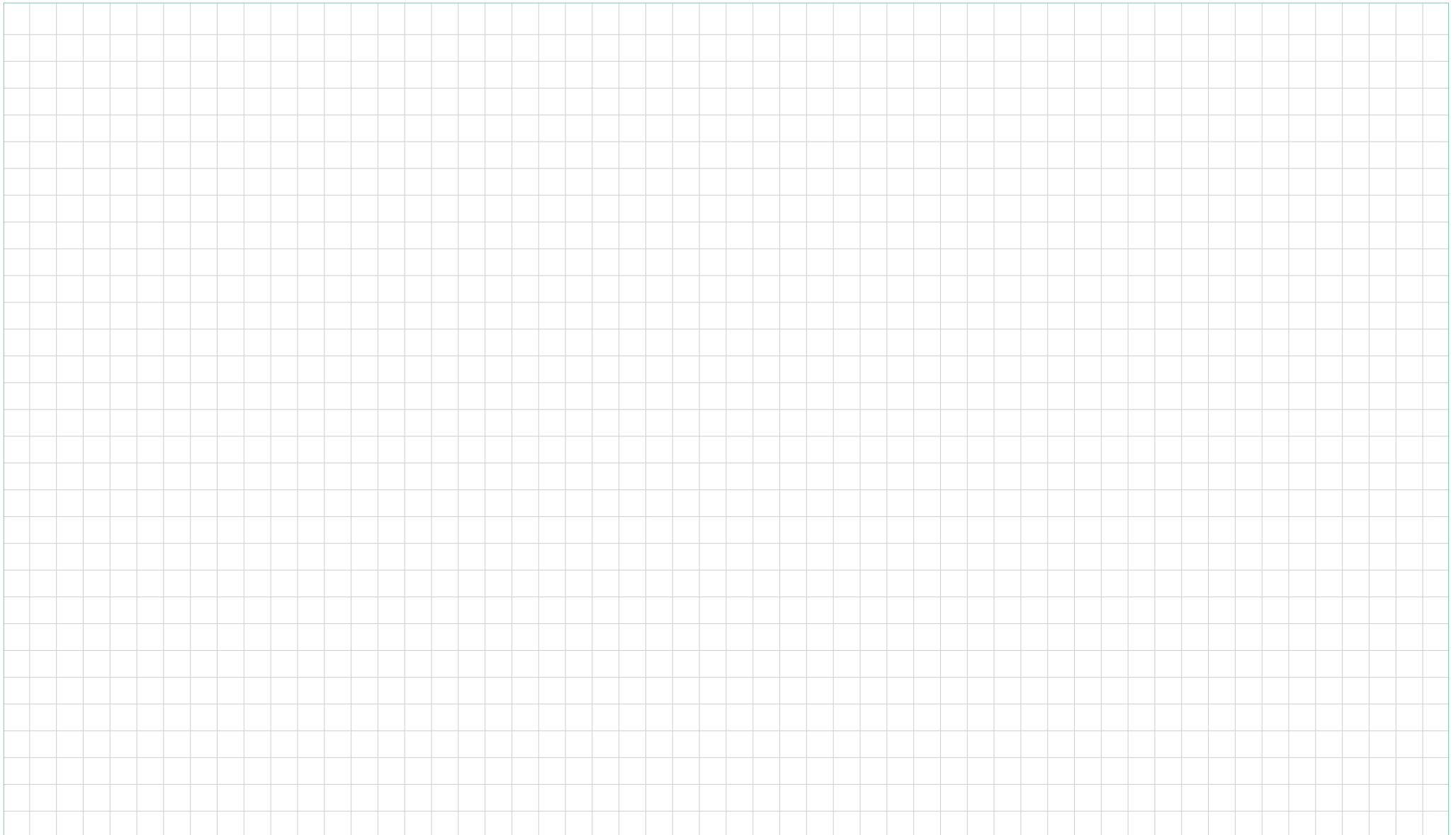
In principle, a 2k mixing system with a pre-set mixing ratio (piston principle) of a machine with variable mixing ratio is preferable.

Due to the lower complexity, the significantly lower costs and the reliable working method, these systems were able to establish themselves on the market well. Piston pump systems can also be adjusted to a new mixing ratio by changing the hardener piston with gasket.

The change of the mixing ratio usually also requires a change of the material to be metered. A basic cleaning of the system is therefore required in any case. In the course of this cleaning activity, the piston is also changed.



FOR YOUR NOTES







OVERVIEW CONSUMABLES

from page

Syringe with Hand plunger



79

Series 8000 Barrels system



80

Series 8000 Barrels adapter and accessories,
Dispensing pens and bottles for low viscous
material, Dispensing tip sets


82

Dispensing tips standard
spare parts


86

Dispensing tips aluminium - stainless steel



88

Dispensing tips, dispensing brushes, Micron-S,



89

Static mixers, mixing tubes

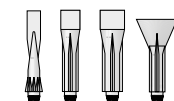


92

50 ml Dual Cartridge, system II,
cartridges SEMCO, EURO


95

Dispensing nozzles



100

Valve tube inserts / replacement spindle body



101

SYRINGE WITH HAND PLUNGER



MODELS:

Item No.	Description	QTY
990281	3 cc graduated LL Syringe Barrel Kit	10
990282	5 cc graduated LL Syringe Barrel Kit	10
990283	10 cc graduated LL Syringe Barrel Kit	10
990284	30 cc graduated LL Syringe Barrel Kit	10
990285	60 cc graduated LL Syringe Barrel Kit	10

DESCRIPTION:

The new cartridges with scale and with hand pistons are available in the sizes 3 cc, 5 cc, 10 cc, 30 cc and 60 cc.

They are intended for quick and easy use. They can also be filled by the user himself. For this purpose, the cartridge filling device is ideally used.

Each set consists of the cartridge with Luer-Lock, hand piston and stopper.

Packing unit are each 10 pieces.

SERIES 8000 BARREL SYSTEMS

SERIES 8000

The Series 8000 fluid management system defined by its carefully designed and precisely engineered dispensing components.



Together these components provide a superior industrial dispensing experience, resulting in reduced waste and greater accuracy.



Syringe barrels are manufactured from premium grade, silicone-free, polypropylene. Natural for non UV materials, amber for UV protection up to 520 nm visible light, and opaque black for maximum light protection.

800 SERIES SYRINGE BARRELS, NATURAL:

with different pack quantities

Item No.	Size	QTY	length	OD
801001	3 cc	50	75 mm	11,5 mm
801002	5 cc	40	71 mm	14,6 mm
801003	10 cc	30	91 mm	18,7 mm
801004	30 cc	20	118 mm	25,4 mm
801005	55 cc	15	175 mm	26,0 mm

800 SERIES SYRINGE BARRELS, AMBER, UV PROTECTION:

with different pack quantities

Item No.	Size	QTY	length	OD
801040	3 cc	50	75 mm	11,5 mm
801041	5 cc	40	71 mm	14,6 mm
801042	10 cc	30	91 mm	18,7 mm
801043	30 cc	20	118 mm	25,4 mm
801044	55 cc	15	175 mm	26,0 mm

800 SERIES SYRINGE BARRELS, BLACK, LIGHT PROTECTION:

with different pack quantities

Item No.	Size	QTY	length	OD
801045	3 cc	50	75 mm	11,5 mm
801046	5 cc	40	71 mm	14,6 mm
801047	10 cc	30	91 mm	18,7 mm
801048	30 cc	20	118 mm	25,4 mm
801049	55 cc	15	175 mm	26,0 mm

SERIES 8000

The new pistons apply pressure evenly across the fluid and trap fluid and fumes in the syringe barrel. They also help to prevent tunneling in higher viscosity fluids.

Smooth-Flow, green

The Series 8000 smooth-flow, low-friction pistons are recommended for most dispensing applications. The double-wipe design prevents air entrapment and material waste by wiping the syringe barrel wall clean.

Flat-Wall, blue

The Series 8000 flat-wall pistons are recommended for reducing potential stringing and pulsing when dispensing high-viscosity fluids.

SERIES 8000 BARREL ACCESSORIES

SERIES 8000 PISTON SELECTION:

with different pack quantities

Item No.	Size	QTY	Description
801006	3 cc	50	smooth-flow / green
801007	5 cc	40	smooth-flow / green
801008	10 cc	30	smooth-flow / green
801009	30 cc / 55 cc	20	smooth-flow / green
801010	3 cc	50	flat-wall / blue
801011	5 cc	40	flat-wall / blue
801012	10 cc	30	flat-wall / blue
801013	30 cc / 55 cc	20	flat-wall / blue
801506	3 cc	50	low viscosity / orange
801507	5 cc	40	low viscosity / orange
801508	10 cc	30	low viscosity / orange
801509	30 cc / 55 cc	20	low viscosity / orange



SYRINGE BARREL END CAPS:

Item No.	Size	QTY
801034	3 cc	50
801035	5 cc	40
801036	10 cc	30
801037	30 cc / 55 cc	20



SYRINGE BARREL FLAT-BASE TIP CAPS:

Item No.	Size	Pk Qty
801038	fits all	50



SERIES 8000 BARRELS ADAPTER AND ACCESSORIES

SERIES 8000

The 8000 Series syringe barrel adapter assemblies provide a convenient quick connect to the controller from the syringe barrel.

They are available in two hose lengths with optional micron filter-traps.

SYRINGE BARREL ADAPTERS WITH HOSE:

Hose diameter = 4x2 mm, QTY = 1 pcs.

Item No.	Size	Description
990183	3 cc	Syringe Barrel Adapters with 90 cm hose
990187	3 cc	Syringe Barrel Adapters with 150 cm hose
990182	5 cc	Syringe Barrel Adapters with 90 cm hose
990186	5 cc	Syringe Barrel Adapters with 150 cm hose
990181	10 cc	Syringe Barrel Adapters with 90 cm hose
990185	10 cc	Syringe Barrel Adapters with 150 cm hose
990180	30 cc / 55 cc	Syringe Barrel Adapters with 90 cm hose
990184	30 cc / 55 cc	Syringe Barrel Adapters with 150 cm hose



ADAPTER REPLACEMENT PARTS:

Item No.	Size	QTY	Description
990191	3 cc	1	Adapter Head with O-Ring
990190	5 cc	1	Adapter Head with O-Ring
990189	10 cc	1	Adapter Head with O-Ring
990188	30 cc / 55 cc	1	Adapter Head with O-Ring



O-rings
on page 83



ACCESSORIES FOR CARTRIDGE SYSTEMS

ALUMINIUM CADRIDGES ADAPTERS:

QTY = 1 pcs.

Item No.	Size	Description
560042A-AL	10 cc	4x2 mm hose, 100 cm
560004A-AL	55 / 30 cc	4x2 mm hose, 100 cm
560042A-AL-02	10 cc	6x3 mm hose, 100 cm
560004A-AL-02	55 / 30 cc	6x3 mm hose, 100 cm



Other hose lengths on request.

ADAPTER HEADS:

QTY = 1 pcs., incl. O-Ring

Item No.	Size	Description
560042A-SB-AL	10 cc	Alu for 4x2 mm hose
560004A-SB-AL	55 / 30 cc	Alu for 4x2 mm hose
560042A-K-AL-02	10 cc	Alu for 6x3 mm hose
560004A-K-AL-02	55 / 30 cc	Alu for 6x3 mm hose



SPECIAL CADRIDGES ADAPTERS:

QTY = 1 pcs., incl. O-Ring

Suitable for Loctite, Permabond and many others.

Item No.	Size	Description
990121	50 ml / 75 g	Alu for 4x2 mm hose
990120	25 g	Alu for 4x2 mm hose

Other lengths on request



O-RINGS:

QTY = 10 pcs.

Item No.	Size	QTY	Description
560038B	3 cc	10	material Buna
560005B	5 cc	10	material Buna
L-0130-002	10 cc	10	material Buna
560006B-M	55 / 30 cc	10	material Buna



560038V	3 cc	10	material Viton
560005V	5 cc	10	material Viton
L-0130-002-01	10 cc	10	material Viton
L-0130-003-02	55 / 30 cc	10	material Viton

BARREL TIP CAPS:

QTY = 10 pcs.

Item No.	Description
580142	without thread, clear, PP
580142-WT	with thread, white, PP
580142-BLK-G	with thread, black, PP



SPARE PARTS:

QTY = 1 pcs.

Item No.	Description
580035-4	Connector plug for 4/2er hose
990085-BLK	Cap for dispensing tip, black
560780-2	hose, 4x2 mm, 100 cm
5606034	safety clip, 4x2 mm
5606037	fine filter for compressed air, 4x2 mm



MOUNTING CLAMPS:

QTY = 1 pcs.

Item No.	Description
580175	preformed (metal)
580175R	round (metal)
560755-SB	plastic for 4x2 mm hose



DISPENSING PENS AND BOTTLES FOR LOW VISCOSITY MATERIAL

Flow-Seal-Pen Jumbo



Flow-Seal-Pens

Dispensing bottles with cap and integrated Luer-Lock thread

MODELS:

Item No.	Description
FV-0100*	Flow-Seal pen, clear
FV-0200*	Flow-Seal pen, ESD-safe, aluminium
FV-0300*	Flow-Seal bottle, 60 ml, clear
FV-0400*	Flow-Seal bottle, 60 ml, ESD-safe, aluminium
FV-0500*	Flow-Seal bottle, 120 ml, clear
FV-0600A*	Flow-Seal pen "Jumbo" 45 ml
*Flow-Seal products are delivered with 381-8425-AC tips	
381-8425-AC	Acrylic tip/Chisel-shaped
381-8425-AB	Acrylic tip/Spherical-shaped
381-8425-AP	Acrylic tip/Point-shaped
381-8425-PC	Polyester tip/Chisel-shaped
381-600-PB	Polyester tip/Blunt (only for FV-0600)

Dispensing bottles with cap and integrated Luer-Lock thread

5606000	Dispensing bottle 3/4 oz (22 ml) clear
5606001	Dispensing bottle 1 oz (30 ml) clear
5606002	Dispensing bottle 2 oz (60 ml) clear
5606003	Dispensing bottle 4 oz (120 ml) clear

ASSEMBLY:

Pen and bottle comprise two parts (valve and body) and are easy to assemble. The body should be filled with the material up to 19 mm below the lid. The air chamber that results will allow the valve lid to be fitted safely.

sing down the point and holding the pen vertically.

84 The material is applied by pres-

DESCRIPTION:

Specific amounts of NoClean-Flux, solutions, lubricants, masking and products are applied using dispensing pens and bottles. A valve in the cap prevents the material from evaporating. This also effectively prevents any leakages or splashes which can

otherwise often occur during application.

DISPENSING TIP SETS AND REMOVAL TOOL

DISPENSING TIP SETS:

Item No.	Description	Image
990062A-G	Large dispensing tip set 134-pieces set with 41 different tip types - 4 cover cap tip side - 33 tapered tips - 12 flexible tips - 85 standard tips	1
990062-K	Small dispensing tip set 17-pieces set with: - 2 cover cap tip side - 4 tapered tips - 11 standard tips	2
990140	dispensing tip removal tool for dispensing tips	3

1



2



3



DISPENSING TIPS STANDARD

DISPENSING TIP STANDARD, WITH LUER-LOCK THREAD:

Plastic body made from polypropylene, capillary from stainless steel corresponds to the material number 1.4301

Item No.	Length	I-Ø mm	A-Ø mm	Size	Color code
F560200-1_4	¼" (6,35)	1,19	1,65	16	grey
F560087-1_4	¼" (6,35)	0,84	1,27	18	green
F560088-1_4	¼" (6,35)	0,58	0,91	20	pink
F560089-1_4	¼" (6,35)	0,51	0,82	21	purple
F560090-1_4	¼" (6,35)	0,41	0,71	22	blue
F560014-1_4	¼" (6,35)	0,33	0,64	23	orange
F560015-1_4	¼" (6,35)	0,25	0,51	25	red
F561020-1_4	¼" (6,35)	0,20	0,41	27	clear
F560016-1_4	¼" (6,35)	0,15	0,31	30	lavender
F561387-1_4	¼" (6,35)	0,11	0,31	32	yellow



Item No.	Length	I-Ø mm	A-Ø mm	Size	Color code
F560085	½" (12,7)	1,60	1,83	14	olive
F560086	½" (12,7)	1,37	1,83	15	amber
F560086-oval	½" (12,7)	1,37	1,83	15	amber
F560200	½" (12,7)	1,19	1,65	16	grey
F560087	½" (12,7)	0,84	1,27	18	green
F560088	½" (12,7)	0,58	0,91	20	pink
F560089	½" (12,7)	0,51	0,82	21	purple
F560090	½" (12,7)	0,41	0,71	22	blue
F560014	½" (12,7)	0,33	0,64	23	orange
F560015	½" (12,7)	0,25	0,51	25	red
F561020	½" (12,7)	0,20	0,41	27	clear
F560016	½" (12,7)	0,15	0,31	30	lavender



Item No.	Length	I-Ø mm	A-Ø mm	Size	Color code
F560085-1	1" (25,4)	1,60	1,83	14	olive
F560086-1	1" (25,4)	1,37	1,83	15	amber
F560200-1	1" (25,4)	1,19	1,65	16	grey
F560087-1	1" (25,4)	0,84	1,27	18	green
F560088-1	1" (25,4)	0,58	0,91	20	pink
F560089-1	1" (25,4)	0,51	0,82	21	purple
F560090-1	1" (25,4)	0,41	0,71	22	blue
F560014-1	1" (25,4)	0,33	0,64	23	orange
F560015-1	1" (25,4)	0,25	0,51	25	red
F561020-1	1" (25,4)	0,20	0,41	27	clear
F560016-1	1" (25,4)	0,15	0,31	30	lavender



Item No.	Length	I-Ø mm	A-Ø mm	Size	Color code
F560085-1_5	1 ½" (38,1)	1,60	1,83	14	olive
F560086-1_5	1 ½" (38,1)	1,37	1,83	15	amber
F560200-1_5	1 ½" (38,1)	1,19	1,65	16	grey
F560087-1_5	1 ½" (38,1)	0,84	1,27	18	green
F560088-1_5	1 ½" (38,1)	0,58	0,91	20	pink
F560089-1_5	1 ½" (38,1)	0,51	0,82	21	purple
F560090-1_5	1 ½" (38,1)	0,41	0,71	22	blue
F560014-1_5	1 ½" (38,1)	0,33	0,64	23	orange
F560015-1_5	1 ½" (38,1)	0,25	0,51	25	red
F561020-1_5	1 ½" (38,1)	0,20	0,41	27	clear
F560016-1_5	1 ½" (38,1)	0,15	0,31	30	lavender



DISPENSING TIPS TAPERED

DISPENSING TIP STANDARD BENT, WITH LUER-LOCK THREAD:

Plastic body made from polypropylene, QTY = 50 pcs.

Item No.	Bent	I-Ø mm	A-Ø mm	Size	Color code
F560085-45	45°	1,60	1,83	14	olive
F560086-45	45°	1,37	1,83	15	amber
F560200-45	45°	1,19	1,65	16	grey
F560087-45	45°	0,84	1,27	18	green
F560088-45	45°	0,58	0,91	20	pink
F560089-45	45°	0,51	0,82	21	purple
F560090-45	45°	0,41	0,71	22	blue
F560014-45	45°	0,33	0,64	23	orange
F560015-45	45°	0,25	0,51	25	red
F561020-45	45°	0,20	0,41	27	clear
F560016-45	45°	0,15	0,31	30	lavender



Item No.	Bent	I-Ø mm	A-Ø mm	Size	Color code
F560085-90	90°	1,60	1,83	14	olive
F560086-90	90°	1,37	1,83	15	amber
F560200-90	90°	1,19	1,65	16	grey
F560087-90	90°	0,84	1,27	18	green
F560088-90	90°	0,58	0,91	20	pink
F560089-90	90°	0,51	0,82	21	purple
F560090-90	90°	0,41	0,71	22	blue
F560014-90	90°	0,33	0,64	23	orange
F560015-90	90°	0,25	0,51	25	red
F561020-90	90°	0,20	0,41	27	clear
F560016-90	90°	0,15	0,31	30	lavender



Item No.	Bent	I-Ø mm	A-Ø mm	Size	Color code
F560085-45-L	45° 1½"	1,60	1,83	14	olive
F560087-45-L	45° 1½"	0,84	1,27	18	green
F560089-45-L	45° 1½"	0,51	0,82	21	purple



DISPENSING TIP TAPERED, WITH LUER-LOCK THREAD:

Plastic body made from polypropylene, QTY = 50 pcs.

Item No.	I-Ø mm	Size	Color code
560783MA	1,60	14	olive
560010MA	1,20	16	grey
560011MA	0,84	18	green
560012MA	0,58	20	pink
560013MA	0,41	22	blue
561751MA	0,25	25	red
561751MA-CLEAR	0,20	27	clear
560016MA	0,15	30	lavender



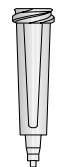
Black dispensing tips are light impermeable and offer full UV protection

Item No.	I-Ø mm	Size	Color code
560010MA-BLK	1,20	16	black
560011CW-BLK	0,84	18	black
560012MA-BLK	0,58	20	black
560013MA-BLK	0,41	22	black
5601807	0,25	25	black



QTY = 1 pcs.

Item No.	I-Ø mm	A-Ø mm	material
990249-14	1,40	1,80	aluminum
990249-10	1,00	1,40	aluminum
990249-08	0,80	1,20	aluminum
990249-06	0,60	1,00	aluminum
990249-05	0,50	0,90	aluminum
990249-04	0,40	0,80	aluminum
990249-03	0,30	0,80	aluminum
990249-025	0,25	0,80	aluminum



DISPENSING TIPS ALUMINIUM / STAINLESS STEEL

DISPENSING TIP SOLID METAL SINGLE CAPELLARY:

Solid metal, QTY = 12 pcs.

Item No.	L=mm	I-Ø mm	A-Ø mm	Size
561344-13MM	13	2,40	2,75	12
561345-13MM	13	2,00	2,40	13
561346-13MM	13	1,50	2,00	14
561347-13MM	13	1,40	1,80	15
561348-13MM	13	1,20	1,60	16
561349-13MM	13	1,00	1,40	17
561123-13MM	13	0,80	1,20	18
561350-13MM	13	0,65	1,00	19
561124-13MM	13	0,60	0,90	20
561151-13MM	13	0,50	0,80	21
561125-13MM	13	0,40	0,70	22
561351-13MM	13	0,30	0,60	23
561352-13MM	13	0,28	0,55	24
561126-13MM	13	0,25	0,50	25
561353-13MM	13	0,25	0,45	26
561354-13MM	13	0,20	0,40	27
561355-13MM	13	0,15	0,30	30



DISPENSING TIP SOLID METAL WITH 2-, 3-, 4-FOLD CAPELLARY:

Capillary made from stainless steel, length: 20 mm, QTY = 1 pcs.

Item No.	Capillary	I-Ø mm	A-Ø mm	Size
561348-2	2-fold	1,20	1,60	16
561349-2	2-fold	1,00	1,40	17
561123-2	2-fold	0,80	1,20	18
561350-2	2-fold	0,65	1,00	19
561124-2	2-fold	0,60	0,90	20
561151-2	2-fold	0,50	0,80	21
561125-2	2-fold	0,40	0,70	22
561351-2	2-fold	0,30	0,60	23
561352-2	2-fold	0,28	0,55	24
561126-2	2-fold	0,25	0,50	25
561353-2	2-fold	0,25	0,45	26
561354-2	2-fold	0,20	0,40	27



Item No.	Capillary	I-Ø mm	A-Ø mm	Size
561123-3	3-fold	0,80	1,20	18
561350-3	3-fold	0,65	1,00	19
561124-3	3-fold	0,60	0,90	20
561151-3	3-fold	0,50	0,80	21
561125-3	3-fold	0,40	0,70	22
561351-3	3-fold	0,30	0,60	23
561352-3	3-fold	0,28	0,55	24
561126-3	3-fold	0,25	0,50	25
561353-3	3-fold	0,25	0,45	26
561354-3	3-fold	0,25	0,40	27



Item No.	Capillary	I-Ø mm	A-Ø mm	Size
561123-4	4-fold	0,80	1,20	18
561350-4	4-fold	0,65	1,00	19
561124-4	4-fold	0,60	0,90	20
561151-4	4-fold	0,50	0,80	21
561125-4	4-fold	0,40	0,70	22
561351-4	4-fold	0,30	0,60	23
561352-4	4-fold	0,28	0,55	24
561126-4	4-fold	0,25	0,50	25
561353-4	4-fold	0,25	0,45	26
561354-4	4-fold	0,25	0,40	27



DISPENSING TIP STANDARD ALUMINUM:

Capillary made from stainless steel, QTY = 50 pcs.

Item No.	L=Zoll	I-Ø mm	A-Ø mm	Size
560085M	1/2"	1,60	2,10	14
560085M-1	1"	1,60	2,10	14
560085M-2,0	2"	1,60	2,10	14
560086M	1/2"	1,37	1,85	15
560086M-1	1"	1,37	1,85	15
560086M-1,5	1,5"	1,37	1,85	15
TS-16M-1,0	1"	1,20	1,60	16
560088M-1,5	1,5"	0,58	0,90	20
560089M-1	1"	0,51	0,77	21
560090M-1,0	1"	0,41	0,72	22
560014M-1	1"	0,33	0,63	23
560015M-1	1"	0,25	0,50	25



DISPENSING TIPS / BRUSHES / PTFE / FLEXIBLE

DISPENSING TIP SOLID METAL SINGLE CAPILLARY:

Length 50 mm, size 8 - 11, also single pcs. available, QTY = 6 pcs.

Item No.	L=mm	I-Ø mm	A-Ø mm	Size
13.205-50-35	50	3,50	4,00	8
13.205-50-30	50	3,00	4,00	8
13.205-50-25	50	2,50	3,50	10
13.205-50-24	50	2,40	3,00	11
13.205-50-20	50	2,00	2,60	-
13.205-50-16	50	1,60	2,10	14
13.205-50-13	50	1,30	1,80	15
13.205-50-10	50	1,00	1,40	17
13.205-50-08	50	0,80	1,20	18
13.205-50-065	50	0,65	1,00	19



Length 100 mm, size 8 - 11, also single pcs. available, QTY = 6 pcs.

Item No.	L=mm	I-Ø mm	A-Ø mm	Size
13.205-100-30	100	3,00	4,00	8
13.205-100-25	100	2,50	3,50	8
13.205-100-24	100	2,40	3,00	11
13.205-100-20	100	2,00	2,60	-
13.205-100-16	100	1,60	2,10	14
13.205-100-13	100	1,30	1,80	15
13.205-100-10	100	1,00	1,40	17
13.205-100-08	100	0,80	1,20	18



DISPENSING TIP FLEXIBLE, WITH LUER-LOCK THREAD:

Material PP, length 0,5" (12,5 mm) and 1,5" (38 mm), QTY = 50 pcs.

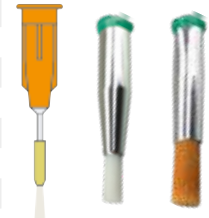
Item No.	L=Zoll/mm	I-Ø mm	A-Ø mm	Size	Color
560103-1/2	½" (12,7)	1,24	1,82	15	amber
560104-1/2	½" (12,7)	0,81	1,31	18	green
560105-1/2	½" (12,7)	0,58	0,86	20	pink
560106-1/2	½" (12,7)	0,26	0,77	25	red
560103	1 ½" (38,1)	1,24	1,82	15	amber
560104	1 ½" (38,1)	0,81	1,31	18	green
560105	1 ½" (38,1)	0,58	0,86	20	pink
560106	1 ½" (38,1)	0,26	0,77	25	red



DISPENSING BRUSH:

QTY = 1 pcs.

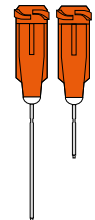
Item No.	Size	Width	Color	Image	Version
561087				1	soft bristles
561088				1	stiff bristles
BTC18-SOFT-03	18	3 mm	white	2	soft bristles
BTC18-SOFT-05	18	5 mm	white	2	soft bristles
BTC18-SOFT-07	18	7 mm	white	2	soft bristles
BTC18-STIFF-03	18	3 mm	orange	3	stiff bristles
BTC18-STIFF-05	18	5 mm	orange	3	stiff bristles
BTC18-STIFF-07	18	7 mm	orange	3	stiff bristles



DISPENSING TIP WITH PTFE INSERT:

Cyanacrylat (CA) applications, capillary made of stainless steel with retracted PTFE-hose, QTY = 50 pcs.,

Item No.	L=Zoll	I-Ø mm	Size	Color
560913-0,5	½"	0,50	21	grey
560017-0,5	½"	0,30	24	pink
560017-RED-0,5	½"	0,25	25	red
560913	1"	0,50	21	grey
560017	1"	0,30	24	pink
560017-RED	1"	0,25	25	red



DISPENSING TIP TAPERED LUER-SLIP:

Length 1,5", material PP, QTY = 50 pcs.

Item No.	I-Ø mm	Size	Color
CF050B-15	0,50	21	clear



DISPENSING TIPS MICRON-S

DISPENSING TIP MICRON-S WITH WITH PRECISION STANDARD BORE:

Phosphor bronze material, electro-less nickel coating, QTY = 1 pcs.

Item No.	I-Ø mm	A-Ø mm	Size	Color
5901001	1,04	1,26	18	pink
5901002	0,86	1,07	19	light brown
5901003	0,68	0,89	20	green
5901004	0,61	0,82	21	light blue



DISPENSING TIP MICRON-S WITH WITH PRECISION STANDARD BORE:

Phosphor Bronze material with Apticoat 450 F, QTY = 1 pcs.

Item No.	I-Ø mm	A-Ø mm	Size	Color
5901012	1,041	1,254	18	pink
5901013	0,864	1,067	19	light brown
5901014	0,686	0,889	20	green
5901015	0,609	0,813	21	light blue



DISPENSING TIP MICRON-S WITH WITH PRECISION STANDARD BORE:

Nickel silver material, no coating, QTY = 1 pcs.

Item No.	I-Ø mm	A-Ø mm	Size	Color
5901005	0,56	0,64	23	purple
5901006	0,44	0,51	25	white
5901007	0,34	0,41	27	red
5901008	0,23	0,31	30	black



DISPENSING TIP MICRON-S WITH WITH PRECISION STANDARD BORE:

Nickel silver materia with Apticoat 450 F, QTY = 1 pcs.

Item No.	I-Ø mm	A-Ø mm	Size	Color
5901016	0,56	0,64	23	purple



DISPENSING TIP MICRON-S WITH MICRO BORE:

Nickel silver material, no coating, QTY = 1 pcs.

Item No.	I-Ø mm	A-Ø mm	Size	Color
5901009	0,16	0,24	k.A.	blue
5901010	0,11	0,20	k.A.	orange
5901011	0,06	0,16	k.A.	yellow



DISPENSING TIPS MICRON-S

DESCRIPTION:

Micron-S precision dispensing tips

Dispensing tips for high accuracy. The Micron-S dispensing tips have a Luer-Lock thread and can be used with all standard cartridges, valves or pumps.

Thin, rigid and conical design

An excellent design feature of this unique Luer-Lock dispensing tip is the improvement of the flow behaviour. This in turn allows the possibility of working with a lower pressure, which contributes to a higher dispensing precision and longer life.

Compared to the standard dispensing tips with larger inner diameters, the thin wall allows dispensing with reduced external diameters. In addition, the thin walls are a further improvement to the dispensing precision and the definition of points, lines or special patterns. At the same time, the thread formation is reduced as well as the stretching of material to be dispensed.

Features

- Micro-precision for points and lines up to 50 µm
- Tapered channel (optimised flow)
- High repeatability
- Thin, rigid metal construction
- Color-coded plastic body
- Secure connection through Luer-Lock screw
- Highly-accurate solder paste dispensing
- Ideally suited for underfill application
- High-precision medical applications
- MEMS (Micro-electromechanical systems)
- Semiconductor encapsulation
- Automated micro-dispensing applications

The most important advantages

- High accuracy through precision manufacturing
- Improved accuracy in robotic applications
- Dispensing of materials with higher viscosities and lower pressure
- Reduced risk of clogging, improved material break, no thread pulling
- Solution for specific dispensing tasks
- Luer-Lock mounting

Dispensing tip materials

Sizes 18-21

- Material: (UNS C51000) phosphor bronze
- Surface treatment: galvanised nickel

Sizes 23-30

- Material: (UNS C73500) Nickel silver
- without surface treatment

The new Apticote 450F coating reduces the so-called wicking when using very low viscosity material and sustainably improves the dispensing of anaerobes and UV adhesives.

The material is highly enriched with PTFE and therefore behaves neutrally.

Apricote 450F is a substitute material for stainless steel.

Minimum size: 23
Price and Item number upon request.
* custom design upon request

Product packaging

- Polypropylene
- Standard diameter QTY = 1 pcs.
- Micro diameter QTY = 1 pcs.
- Nozzles are color coded
- Processing up to 50° C

STATIC MIXERS

MIXING TUBES:

Blue elements (Delrin/POM), QTY = 10 pcs.



Item No.	L=mm	Elements	A-Ø mm	Elements Ø mm	Outlet	Outlet Ø mm	Max. bar pressure
5-24-S-POM	149	24	8,0	5,0	stepped	1,5	33
5-32-S-POM	188	32	8,0	5,0	stepped	1,5	33
6-24-S-POM	186	24	9,8	6,2	stepped	1,8	30
6-32-S-POM	235	32	9,8	6,2	stepped	1,8	30
6-48-S-POM	334	48	9,8	6,2	stepped	2,4	30
8-24-S-POM	223	24	11,8	7,8	stepped	2,4	27
8-32-S-POM	289	32	11,8	7,8	stepped	2,4	27
10-24-S-POM	276	24	14,0	9,8	stepped	3,0	22
10-32-S-POM	355	32	14,0	9,8	stepped	3,0	22
1012-0832-S-POM	409	12+32	14+11,8	9,8+7,8	stepped	3,0	22
13-24-S-POM	293	24	17,0	12,7	stepped	4,0	17
13-32-S-POM	378	32	17,0	12,7	stepped	4,0	17

MIXING TUBES:

Yellow elements (Delrin/POM), QTY = 10 pcs.

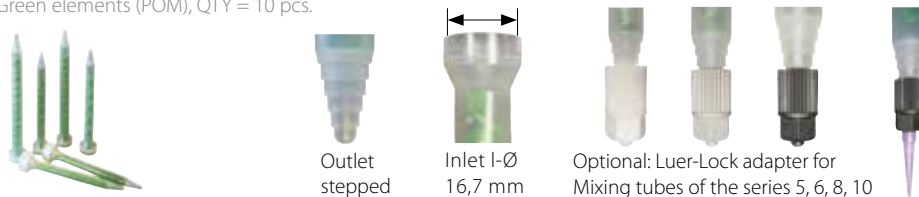


Item No.	L=mm	Elements	A-Ø mm	Elements Ø mm	Outlet	Outlet Ø mm	Max. bar
5-24-MS-POM	149	24	8,0	5,0	stepped	1,5	33
5-32-MS-POM	188	32	8,0	5,0	stepped	1,5	33
6-24-MS-POM	186	24	9,8	6,2	stepped	1,8	30
6-32-MS-POM	235	32	9,8	6,2	stepped	1,8	30
6-48-MS-POM	334	48	9,8	6,2	stepped	2,4	30
8-24-MS-POM	223	24	11,8	7,8	stepped	2,4	27
8-32-MS-POM	289	32	11,8	7,8	stepped	2,4	27
10-18-MS-POM	214	18	10,0	9,8	stepped	3,0	22
10-24-MS-POM	276	24	14,0	9,8	stepped	3,0	22
10-32-MS-POM	355	32	14,0	9,8	stepped	3,0	22
13-24-MS-POM	293	24	17,0	12,7	stepped	4,0	17
13-32-MS-POM	378	32	17,0	12,7	stepped	4,0	17

PASS---RING Reducing ring for mixing tubes on US scale

ROTATION MIXERS:

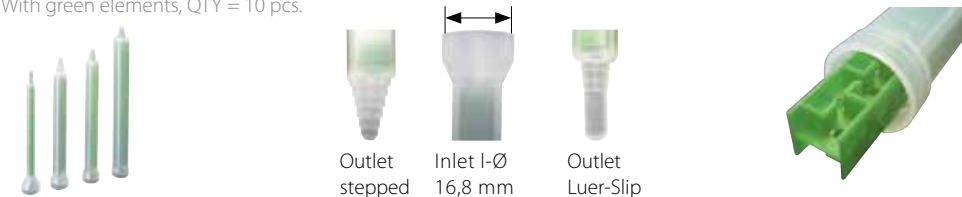
Green elements (POM), QTY = 10 pcs.



Item No.	L=mm	Elements	A-Ø mm	Elements Ø mm	Outlet	Max. bar
6-12-SR-POM	111,5	12	10,0	6,2	stepped	30
8-12-SR-POM	129,6	12	12,0	7,8	stepped	27
10-12-SR-POM	155,5	12	14,0	10,0	stepped	22
13-12-SR-POM	198,0	12	17,0	13,0	stepped	17

QUADRO MIXER:

With green elements, QTY = 10 pcs.

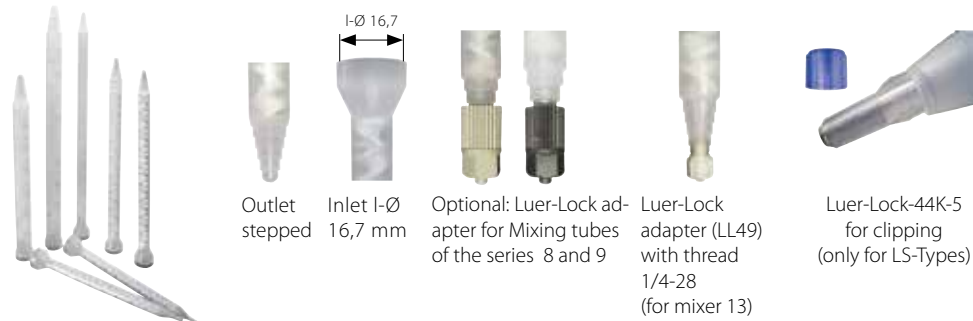


Item No.	L=mm	Elements	Inner Ø mm	Outlet	Adaption
5-24Q-LS-PP	127	24	5,3	Luer-Slip	Cup
7-24QZ-S-PP	130	24	7,5	stepped	Cup
8-24QZ-S-PP	147	24	8,7	stepped	Cup
8-32QZ-S-PP	187	32	8,7	stepped	Cup
10-24QZ-S-PP	172	24	10,7	stepped	Cup
10-32QZ-S-PP	221	32	10,7	stepped	Cup

STATIC MIXERS

MIXING TUBES:

White elements (polyplas), QTY = 10 pcs.



Item No.	L=mm	Elements	A-Ø mm	Elements Ø mm	Outlet	Max. bar
5-08H-LS-PY	66,5	8	7,62	4,8	Luer-Slip	34
5-24H-LS-PY	131,6	24	7,62	4,8	Luer-Slip	34
5-32H-LS-PY	164,6	32	7,62	4,8	Luer-Slip	34
5-48H-LS-PY	229,6	48	7,62	4,8	Luer-Slip	34
6-08H-LS-PY	90,4	8	9,40	6,3	Luer-Slip	25
6-16H-LS-PY	138,7	16	9,40	6,3	Luer-Slip	25
6-24H-LS-PY	189,5	24	9,40	6,3	Luer-Slip	25
6-32H-LS-PY	241,0	32	9,40	6,3	Luer-Slip	25
6-48H-LS-PY	333,8	48	9,40	6,3	Luer-Slip	25
8-18-S-PY	176,8	18	11,71	8,0	stepped	23
8-24-S-PY	224,5	24	11,71	8,0	stepped	23
8-32-S-PY	290,6	32	11,71	8,0	stepped	23
9-18-S-PY	184,9	18	12,95	9,3	stepped	21
9-24-S-PY	232,4	24	12,95	9,3	stepped	21
9-30-S-PY	285,5	30	12,95	9,3	stepped	21
9-40-S-PY	359,2	40	12,95	9,3	stepped	21
13-12-S-PY	170,4	12	16,76	12,65	stepped	19
13-18-S-PY	230,6	18	16,76	12,65	stepped	19
13-24-S-PY	294,6	24	16,76	12,65	stepped	19
13-30-S-PY	357,9	30	16,76	12,65	stepped	19
13-36-S-PY	422,4	36	16,76	12,65	stepped	19

PASS---RING Reducing ring for mixing tubes on US scale

MIXING TUBES:

For double cartridges with bayonet connector (for 38/50ml)



Item No.	L=mm	Elements	A-Ø mm	Elements Ø mm	Outlet	Outlet Ø mm	Img
M-50-212	38	12	4,7	2,36	mikro	0,8	3
M-50-312H-LS	54	12	4,8	3,18	Luer-Slip	1,7	2
M-50-324H-LS	87	24	4,8	3,18	Luer-Slip	1,7	2
M-50-416H-LS	86	16	6,6	4,75	Luer-Slip	1,7	2
M-50-507-S	56	7	7,4	5,4	stepped	1,5	1
M-50-507-LS	58	7	7,4	5,4	Luer-Slip	1,7	1
M-50-513-D	85	13	7	5,4	Bent	1,5	4
M-50-513-S	85	13	7,7	5,4	stepped	1,5	1
M-50-517-S	103	17	7,8	5,4	stepped	1,5	3
M-50-517/413-S	150	17/13	7,7	5,4	stepped	1,3	1
M-50-521-S	135	21	7,4	5,4	stepped	1,7	1
M-50-617-S	129	17	8,60	6,3	stepped	1,3	1
M-50-620H-LS	150	20	8,35	6,35	Luer-Slip	1,7	2
M-50-621-S	153	21	8,6	6,3	stepped	1,3	1

Item No.	Img
Luer-Lock-44K-5 Luer-Lock Ring. 4-edges inside, "stroke", nylon, "HUB"	2

Luer-Lock Adapter can be found from the side 114

STATIC MIXERS

MIXING TUBES:

For Eco-Duo with tapered outlet,
(Dispensing tips do not fit)



Item No.	L=mm	Elements	A-Ø mm	I-Ø mm	Outlet	QTY
M-25D-216-K	60	16	4,0	2,5	tapered	10
M-25D-312-K	61	12	3,9	3,2	tapered	10
M-25D-316-K	74	16	3,9	3,2	tapered	10
M-25D-CAP	Sealing cap 25 ml					1

QUADRO MIXER:

With Bajonett port, (50 ml 1:1), QTY = 10 pcs.

Item No.	L=mm	Elements	Innen-Ø mm	Outlet	Inlet
M-50D-516Q-LS	83	16	5,3	Luer-Slip	dental
M-50D-524Q-LS	115	24	5,3		



Image 1



Image 2



Image 3



Image 4

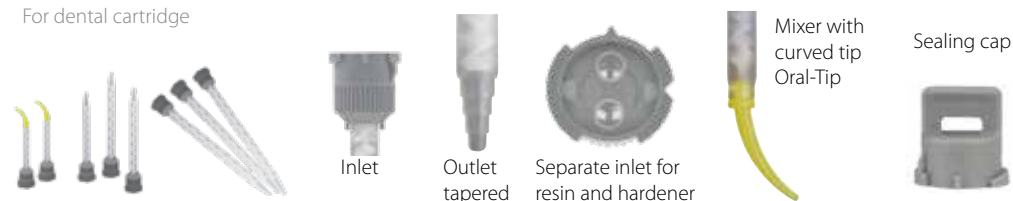


Image 5

Item No.	Description	Img.
UM10-PA	For mixers size 5-10, plastic	1
UM13-PA	For mixers of size 13, plastic	1
990012-Q2	For mixers of size 10.7, plastic	2
990012-A-S	For mixers of size 4 - 6, knurled aluminium	3
990012-A-M	For mixers of size 8 - 9, knurled aluminium	3
990012-A-L	For mixers of size 10 - 13, knurled aluminium	3
990012	For mixers of size 5 - 9, nickel-plated brass SW 27	4
990012-Q1	For mixers of size 5 - 13, plastic	5

MIXING TUBES (UHU):

For dental cartridge



Item No.	L=mm	Elements	A-Ø mm	I-Ø mm	Outlet	Outlet Ø mm	Vol. in ml	QTY
M-50D-620-S	157,0	20	8,2	6,5	stepped	1,5	3,76	10
M-50D-520-S	157,0	20	7,0	6,5	stepped	1,5	2,29	10
M-50D-516-S	111,8	16	7,0	5,4	stepped	1,5	1,91	10
M-50D-312-K	64,0	12	4,8	3,0	tapered	1,5	0,49	10
M-50D-416-K	96,0	16	5,9	4,2	tapered	1,5	1,04	10
M-50D-412-OT	69,5	12	5,9	4,2	Oral-Tip	0,5	0,84	10
M-50D-512-OT	84,5	12	7,0	5,0	Oral-Tip	0,5	k.A.	10
M-50D-516Q-LS	90,7	16	7x7	5,3	Luer-Slip	1,8	k.A.	10
M-50D-524Q-LS	122,0	24	7x7	5,3	Luer-Slip	1,8	k.A.	10
M-50D-CAP	Sealing cap 50 ml							1

PROTECTIVE COVERS:

For static mixers of the S POM series (blue) and MS POM (yellow)



The protective covers are equipped with an inner thread thereby eliminating the union nuts for securing the mixing tubes



Item No.	Mixer	Inner Ø mm	Outer Ø mm	L= mm
SH-05-24-09	5-24	8,2	11,5	146,5
SH-05-32-09	5-32	8,2	11,5	185,0
SH-06-24-09	6-24	10,2	14,0	179,5
SH-06-32-09	6-32	10,2	14,0	228,5
SH-06-48-09	6-48	10,7	15,0	329,0
SH-08-24-09	8-24	12,2	16,0	215,0
SH-08-32-09	8-32	12,2	16,0	280,0
SH-10-24-09	10-24	14,2	19,0	265,5
SH-10-32-09	10-32	14,2	19,0	341,5
SH-13-24-09	13-24	17,2	23,0	280,5
SH-13-32-09	13-32	17,2	23,0	365,5

2K CARDTRIDGES

DUAL CARTRIDGE HALVES SYSTEM II:



Item No.	Description	Thread	Volume	Image
S-II-050C	Dual cartridge halve C type	coarse	50 ml	1
S-IIF-075S	Dual cartridge halve S type	fine	75 ml	1
S-IIF-100S	Dual cartridge halve S type	fine	100 ml	1
S-IIF-150S	Dual cartridge halve S type	fine	150 ml	1
S-IIF-300S	Dual cartridge halve S type	fine	300 ml	1
S-IIF-750S	Dual cartridge halve S type	fine	750 ml	1
Mutter-II-F	Union nut S type	fine	-	3
Mutter-II	Union nut C type	coarse	-	no img.

With the double cartridge system 50 ml, rational and cost-effective processing of 2 component adhesives can be achieved. Resin and curing agent are separately filled into both chambers and each chamber is closed off by a piston. The outlet of the double cartridge has a reusable closure. Thus, the material can be stored, and is immediately available as needed.

Matching dispensing guns listet on page 68

There is currently no matching dispensing gun available for the 100 ml double cartridge half (S-IIF-100S).

DUAL CARTRIDGE (EMPTY):

Dual Cartridge complete with pistons and end cap.



Item No.	MR	Volume	Type	Image
D-KART-050-01-A	1:1	50 ml	Bajonett	1
D-KART-050-01	1:1	50 ml	Bajonett	2
D-KART-050-02	2:1	50 ml	Bajonett	2
D-KART-050-04	4:1	42 ml	Bajonett	2
D-KART-050-10	10:1	37 ml	Bajonett	no image

DUAL CARTRIDGE MIXPAC® SYSTEM F:

Dual Cartridge complete with pistons and end cap.



Item No.	MR	Volume	Type	Image
D-KART-200F-01	1:1	210 ml	F-mixer	1
D-KART-200F-02	2:1	215 ml	F-mixer	no image
D-KART-200F-04	4:1	225 ml	F-mixer	no image
D-KART-200F-10	10:1	250 ml	F-mixer	2
D-KART-400F-01	1:1	395 ml	F-mixer	no image
D-KART-400F-02	2:1	400 ml	F-mixer	no image
D-KART-400F-04	4:1	415 ml	F-mixer	no image
D-KART-400F-10	10:1	490 ml	F-mixer	no image

LARGE CARTRIDGES & CARTRIDGE CASING, EURO



CARTRIDGE SLEEVE 310 CC:

QTY = 1 pcs.

Item No.	Description	Material outlet	Img.
580091-RET	Plastic EURO cartridge sleeve for screw cap, 310 cc	open	2
901492	Alu EURO Cartridge sleeve for screw cap, opening for low-level-indicator	open	1

Cartridges with closure cap

990269-B	Cartridge sleeve alu 2 part	1/4" thread	3
990269-B-M15	Cartridge sleeve alu 2 part with M15 x 1,5 thred to material outlet	1/4" thread	3
990269-BH	high-pressure cartridge up to 18 bar, Alu	1/4" thread	3
990269-BM	Cartridge sleeve alu, pressure reducer	1/4" thread	4
990272	Cartridge sleeve 310ml aluminum with telescope piston, connection openly	open	5

CLOSURE CAP AND SMALL PARTS FOR EURO-CARTRIDGES:

QTY = 1 pcs.

Item No.	Description	Img.
990136-001	Screw top, with pressure gauge and pressure regulator, ALU, 310 ml	6
990136	Screw top, ALU, 310 cc, for Euro Cartridge 901492	7
580092V	Screw top, with pressure gauge and pressure regulator, ALU, 310 ml	8
580091H-CF	Screw top, incl. Seal, 310 cc, for Euro Cartridge 580091	9
990204-P1-SS	1/4" cartridge adapter EURO "Pilz" (Edelstahl)	10
990250-E	Insert with O-ring	
990250-E-ORING	O-Ring for Insert	
580095	Coupling for device plug (spare part)	
990250-G	Seal for screw top, ALU 990250	

LARGE CARTRIDGES & CARTRIDGE CASING, EURO



CARTRIDGES:

QTY = 1 pcs.

Item No.	Description	Size	Img.	€/Item
TS-110C-R	EURO-Cartridge closed at the bottom (to cut open. with external thread)	310 ml	1	1,15
TS-110C-R-BLK	EURO-Cartridge closed at the bottom, black (to cut open. with external thread)	310 ml	2	1,63
TS-110C	EURO-Cartridge 1/4" inner thread, open	310 ml	3	2,49



CLOSURE COVER AND SMALL PARTS FOR EURO-CARTRIDGES:

QTY = 1 pcs.

Item No.	Description	Image
TS-4C	Upper cap, EURO cartridge 310 cc with inner thread	8
TS-4C-R	Upper closure cap, EURO cartridge 310 cc for cutting	9
990204	Adapter from standard 310 ml cartridge to 1/4 female thread, alu	10
560519NY	Luer-Lock male, thread 1/4 NPT, Nylon, white	11
560527S	Lower cap 75 - 600 cc, red	12
560527S-BLK	Lower cap, black, 75 - 600 cc (for cartridges with inner thread)	12
TS-3P-R	Cap 1/4 inch for closed cartridges with male thread, 310 cc	13
TS-2P-R	Piston for EURO cartridge with male thread, 310 cc	14
TS-2P	Piston for EURO cartridge with female thread, 310 cc	15
990225	Dispensing nozzles round, for cartridge EURO	

More cover cap tip side (Luer-Lock-port) on Page 114

LARGE CARTRIDGES & CARTRIDGE CASING, SEMCO



CARTRIDGE SLEEVE:

For receiving SEMCO large cartridges, QTY = 1 pcs.

Item No.	Description	Size
560067	for cartridge SEMCO®, steel containers	75 cc
560068	for cartridge SEMCO®, steel containers	180 cc
560520	for cartridge SEMCO®, steel containers	240 cc
560069	for cartridge SEMCO®, steel containers	360 cc
101-20R	for cartridge SEMCO®, steel containers	600 cc
101-20R-L	for cartridge SEMCO®, steel cont., for low-level-indicator	600 cc
101-32	for cartridge SEMCO®, steel containers	950cc



1



4



2



5



3



6

Mouting Brackets
on page 122

CAP FOR CARTRIDGE SLEEVE:

With or without pressure gauge and pressure regulator, QTY = 1 pcs.

Item No.	Description	Size	Img.
560537	closure cap with pressure gauge and pressure regulator, including seal	75 - 360 cc	1
990170-C	closure cap with pressure gauge and pressure regulator, including seal (aluminium)	75 - 360 cc	2
990251M	closure cap with pressure gauge and pressure regulator, including seal (aluminium)	600 cc	3
560065	closure cap, including seal	75 - 360 cc	4
990170-A	closure cap, including seal (aluminium)	75 - 360 cc	5
990251	input with O-Ring	600 cc	6
560065-E	closure cap, including seal (aluminium)	75 - 360 cc	no img.
560066	seal for closure cover	75 - 360 cc	no img.
101-20G	seal for closure cover	600 cc	no img.

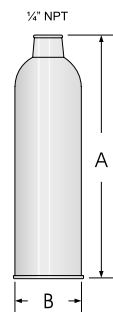
LARGE CARTRIDGES & CARTRIDGE CASING, SEMCO



CARTRIDGES SEMCO:

Clear HDPE material and black for UV applications, QTY = 1 pcs.

Item No.	Description	Size	L=mm	B=mm
560061S	Cartridge clear	75 cc	101,6	42,9
560062S	Cartridge clear	180 cc	181,3	42,9
560517S	Cartridge clear	240 cc	226,5	42,9
560063S	Cartridge clear	360 cc	311,1	42,9
560518	Cartridge clear	600 cc	249,4	68,0
560518-950	Cartridge clear	950 cc	351,0	68,0
560061-BLK	Cartridge black	75 cc	101,6	42,9
560062S-BLK	Cartridge black	180 cc	181,3	42,9
560063S-BLK	Cartridge black	360 cc	311,1	42,9
560518-BLK	Cartridge black	600 cc	249,4	68,0
560518-950-BLK	Cartridge black	950 cc	351,0	68,0



CLOSURE COVER AND SMALL PARTS FOR SEMCO-CARTRIDGES:

Needle valve, lower couplings, pistons, connection hose, QTY = 1 pcs.

Item No.	Description	Size	Img.
560597S	upper closure cover	75 - 360 cc	1
TS-6C	upper closure cover	600 / 950 cc	2
560519NY	dispensing tip connection (nylon) 1/4"	75 - 600 cc	3
560527S	lower closure cap 1/4", red	75 - 600 cc	4
560527S-BLK	lower closure cap 1/4", black	75 - 600 cc	4
560060S-CLEAR	clear piston	75 - 360 cc	5
560060S-BLK	black piston	75 - 360 cc	6
TS-20P	white piston	600 cc	7
TS-20PS-CLEAR	clear piston	600 cc / 950 cc	8
TS-20PS-BLK	black piston	600 cc / 950 cc	no img.
560059	compressed air hose with doubled -sided 2 m connector plug	6x3 mm hose	no img.

More cover cap tip side (Luer-Lock-port) on Page 114

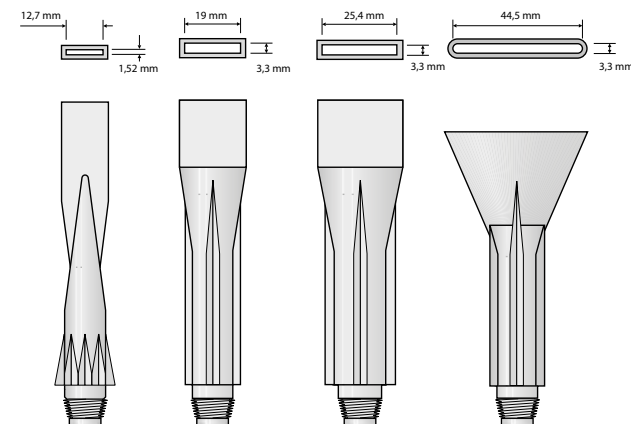
DISPENSING NOZZLES WITH 1/4" NPT EXTERNAL THREAD

DESCRIPTION:

Suitable for the large cartridges, we offer dispensing nozzles with 1/4" thread. They are used for large

dispensing rates and volumes requiring simultaneous precision.

Different nozzle diameters and geometries are available.



DISPENSING NOZZLES:

Item No.	Length / opening in mm	Description
560584	113 1.2	Nozzle
560585	102 1.6	Nozzle
560586	124 3.3	Nozzle
560587	111 3.3	Nozzle
560588	106 3.3	Nozzle
560589	114 3.3	Nozzle
560591	162	Extension
990225	2.2	Nozzle round with inner thread, EURO

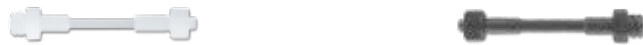
DISPENSING NOZZLES:

Item No.	Length / opening in mm	Description
560574	64 1.6	Nozzle round
560575	64 3.2	Nozzle round
560576	102 0.8	Nozzle round
560577	102 1.6	Nozzle round
560578	102 3.2	Nozzle round
560579	152 1.6	Nozzle round
560579-3,2	152 3.2	Nozzle round
560583	254 1	Nozzle round

TUBE INSERTS / REPLACEMENT SCREW BODY

TUBE INSERT FOR SQUEEZE VALVE:

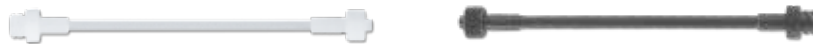
PT 710 clear / black, QTY = 1 pcs.



Item No.	Description
580038	interior-Ø 1,80 mm clear
580037	interior-Ø 2,50 mm clear
580037A-BLK	interior-Ø 2,50 mm black

TUBE INSERT FOR HAND VALVE:

PTP 700 clear / black, QTY = 1 pcs.



Item No.	Description
580048	interior-Ø 1,80 mm clear
580045A	interior-Ø 2,50 mm clear
580045-BLK	interior-Ø 2,50 mm black

HOSE LINES (PE):

Clear / black- 45 cm, 60 cm, 90 cm, QTY = 1 pcs.

Item No.	Description
580047A-07-18V	length 45 cm, I-Ø 1,80 mm clear, Luer-Lock connected
580047A-07-24	length 60 cm, I-Ø 1,80 mm clear
580047A-07-36V	length 90 cm, I-Ø 1,80 mm clear, Luer-Lock connected
580047A-10-18	length 45 cm, I-Ø 2,50 mm clear
580047A-10-24	length 60 cm, I-Ø 2,50 mm clear
580047A-10-36	length 90 cm, I-Ø 2,50 mm clear
580047A-10-18BK	length 45 cm, I-Ø 2,50 mm black
580047A-10-24BK	length 60 cm, I-Ø 2,50 mm black
580047A-10-36BK	length 90 cm, I-Ø 2,50 mm black
580047A-10-60BK	length 150 cm, I-Ø 2,50 mm black

REPLACEMENT SCREW BODY FOR DV-5005DFS:

Plastic, POM, QTY = 1 pcs.



Item No.	Description
DFS6-A	replacement screw body with slope of 6 pitch, red
DFS8-A	replacement screw body with slope of 8 pitch, black
DFS16-A	replacement screw body with slope of 16 pitch, blue

REPLACEMENT SCREW FOR DV-5005DFS:

Stainless steel, QTY = 1 pcs.









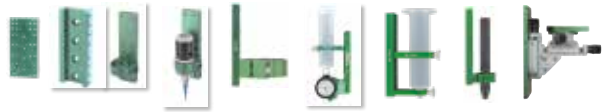



Item No.	Description
DFS4-SS	screw with a slope of 4 pitch, stainless steel
DFS6-SS	screw with a slope of 6 pitch, stainless steel
DFS8-SS	screw with a slope of 8 pitch, stainless steel
DFS16-SS	screw with a slope of 16 pitch, stainless steel





OVERVIEW ACCESSOIRES

Spreading stylus, fingerswitch, gravity flow bottle		105
Material container series MDG, heaters, heater regulation		106
Clear material container, manual cartridge filling system		108
Hand pump Mini-pump		110
Piston pump, autocan Hobbock-Pump		112
Luer-Lock adapter		114
Fittings for material hose, cartridge EURO, cartridge to valve / cartridge adapter heads		116
Stands for valves and cartridges		118
Mountings for dispensing valves and cartridges		119
Low-level-indicators, heater and heating controller		124

FINGER SWITCHES AND GRAVITY FLOW BOTTLES

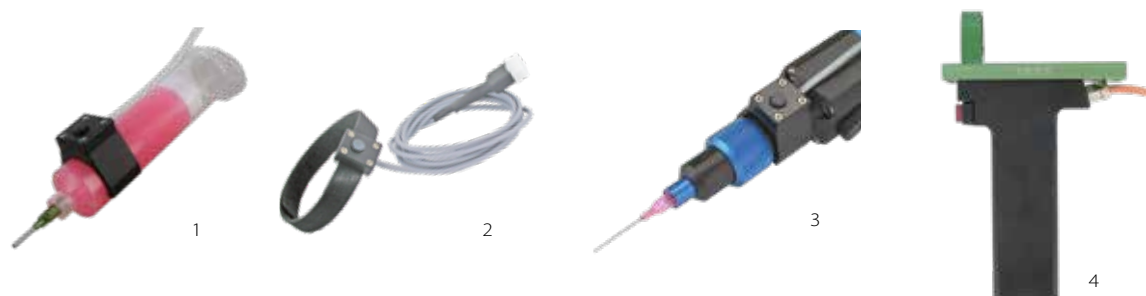
GRAVITY FLOW BOTTLE & HOLDER:



Item No.	Description
560670	gravity flow bottle holder
560666	filling bottle, 500 ml
DV-5110	pinch tube dispensing pen

Various low-viscosity materials can be fed through to the manual valve using gravity. The 560670 stand is used to hold the 560666 gravity flow bottle.

FINGER SWITCHES:



Item No.	Description	Image
990105-3cc	Finger switch for 3 cc cartridges	1
990105-5cc	Finger switch for 5 cc cartridges	1
990105-10cc	Finger switch for 10 cc cartridges	1
990105-30cc	Finger switch for 30/55 cc cartridges	1
990105-ADJ	Finger switch with adjustable easy touch tape for cartridges 75-360 cc	2
990105-ECO450	Finger switch for eco-PEN450, 1,5 m	3
990105-ECO600	Finger switch for eco-PEN600, 1,5 m	3
560598V-01	Hand held for valve dispenser, with switch and bracket	4
560598V-HP790	Hand held for valve high pressure, with switch and bracket	no image

SPREADING STYLUS FOR DIGITAL PERISTALTIC PUMP DISPENSER PPD 3000

Item No.	Description
990105-15	Finger switch, single, with cable 1,5 m (for 560990-15 Ø 15 mm)
560990-15	Spreading stylus (Ø 15 mm) without fingerswitch (POM black)
560989-E	Spreading stylus with fingerswitch incl. 3 nozzles, dispensing tip can be added

MATERIAL CONTAINER - MDG SERIES



DESCRIPTION:

The material containers serve to supply the material to be dispensed. The material can flow from the container via the riser pipe or the tap at the bottom. The containers can be equipped with optional extras such as heaters and agitators.

The containers of the MDG series can be customised according to our clients' needs. Containers of up to 3 litres are always made of stainless steel. Containers with a capacity of 4 litres or more can be ordered in stainless steel or galvanised (standard).

Features

- Simple storage of material to be dispensed
- Clean handling
- Large volumes of stored material without the need for constant refilling

STANDARD MODELS:

Item No.	Capacity	Description	Material f. container
MDG-1	1,1 l	6 bar, without agitator	stainless steel
MDG-1-U	1,1 l	6 bar, without agitator, bottom	stainless steel
MDG-1-UE	1,1 l	6 bar, with electric agitator, bottom	stainless steel
MDG-2	1,8 l	6 bar, without agitator	stainless steel
MDG-2-U	1,8 l	6 bar, without agitator, bottom	stainless steel
MDG-2-UE	1,8 l	6 bar, with electric agitator, bottom	stainless steel
MDG-3	2,5 l	6 bar, without agitator	stainless steel
MDG-3-U	2,5 l	6 bar, without agitator, bottom	stainless steel
MDG-3-UE	2,5 l	6 bar, with electric agitator, bottom	stainless steel
MDG-4	3,1 l	6 bar, without agitator	galvanized
MDG-4-U	3,1 l	6 bar, without agitator, bottom	galvanized
MDG-4-UE	3,1 l	6 bar, with electric agitator, bottom	galvanized
MDG-4-SS	3,1 l	6 bar, without agitator	stainless steel
MDG-4-SSU	3,1 l	6 bar, without agitator, bottom	stainless steel
MDG-4-SSUE	3,1 l	6 bar, with electric agitator, bottom	stainless steel
LDG-5	3,5 l	6 bar, without agitator	stainless steel
MDG-8	6,4 l	6 bar, without agitator	galvanized
MDG-8-U	6,4 l	6 bar, without agitator, bottom	galvanized
MDG-8-UE	6,4 l	6 bar, with electric agitator, bottom	galvanized
MDG-12	11,8 l	6 bar, without agitator	galvanized
MDG-12-U	11,8 l	6 bar, without agitator, bottom	galvanized
MDG-12-UE	11,8 l	6 bar, with electric agitator, bottom	galvanized
MDG-22	19,5 l	6 bar, without agitator	galvanized
MDG-22-U	19,5 l	6 bar, without agitator, bottom	galvanized
MDG-22-UE	19,5 l	6 bar, with electric agitator, bottom	galvanized

CONTAINER VERSION OPTIONS:

Optionally we can offer you the Material container of the MDG series also with bottom drain on. Contact us.



MATERIAL CONTAINER - MDG SERIES

MATERIAL CONTAINER HEATING:

Item No.	Description	€/Item
MDG 1-Heiz	Heating jacket 230 V, 500 W for MDG 1 container	355,00
MDG 2-Heiz	Heating jacket 230 V, 500 W for MDG 2 container	355,50
MDG 3-Heiz	Heating jacket 230 V, 500 W for MDG 3 container	355,00
MDG 4-Heiz	Heating jacket 230 V, 500 W for MDG 4 container	405,00
MDG 8-Heiz	Heating jacket 230 V, 500 W for MDG 8 container	448,05
MDG 12-Heiz	Heating jacket 230 V, 500 W for MDG 12 container	469,68
MDG 22-Heiz	Heating jacket 230 V, 500 W for MDG 22 container	489,25
990235A	Heating control 20 - 60° C for heating jacket	1096,95



Heating sleeve for material container

LOW-LEVEL-INDICATOR:

990222 Low-level-indicator, capacitive (24 V with adapter)

Outside of production a support is welded onto the base of the container 10 mm above the bottom and a sensor screwed into it.

AGITATORS:



-E Electric agitator, integrated in the lid, from MDG 1 upwards

CONTAINER SIZES AND TECHNICAL DATA:

Type	MDG 1*	MDG 2*	MDG 3*	MDG 4	LDG 5*	MDG 8	MDG 12	MDG 22
Operational pressure in bar	6 bar	6 bar	6 bar	6 bar	6 bar	4 bar	6 bar	6 bar
Content in litres	1,1	1,8	2,5	3,1	3,5	6,4	11,8	19,5
Weight without agitator in kilogrammes	4,3	4,9	5,5	10	6,5	17	21	31
with manual agitator	-	-	-	11,3	-	19,5	22,5	33
with compressed air agitator	-	-	-	11,5	-	21,5	28	38
with electric agitator	-	-	-	-	-	28	30,5	41
Internal diameter, container in mm	125	125	125	162	181	210	240	265
External diameter in mm	175	175	175	222	244	292	320	356
Approx. height of container, excluding lid (mm)	163	223	283	235	215	250	358	440
Internal height of container (mm)	140	200	265	200	175	220	270	360
Total height, excluding agitator (mm)	334	394	454	410	384	424	536	620
Approx. total height, including agitator in mm	-	-	-	562	538	577	686	769
Approx. total height with compressed air agitator in mm	411	471	531	486	495	500	608	692
Approx. total height with electric agitator in mm	on request	on request	on request	on request	-	644	752	836

* only available in stainless steel

The container sizes listed here are approximate values, for the exact dimensions please request the dimensional drawings!

MATERIAL CONTAINER - PP 300 WITH TRANSPARENT PRESSURE CHAMBER



TECHNICAL DATA:

Dimensions	152,4 x 152,4 x 279,4 mm
Weight	Glass model 4,20 kg
Compressed air inlet	5 - 7 bar
Compressed air outlet	max. 2 bar
Consumables	Polyethylene tubes and connections

DESCRIPTION:

The transparent pressure chamber is used for dispensing low-viscosity fluids directly from bottles and pots with a volume of up to 500 cc. Pressure is applied to force the material out of the bottle and through the tube to a valve or dispensing pen. The PP300-A de-

vice is available in acrylic or glass versions.

Features:

- All parts which come in contact with the material are disposable parts
- Visible fill level
- Suitable for most low-viscosity material

MODELS:

Item No.	Description
PP300GL	Glass pressure chamber (cyan acrylate)
Optional:	
DV-5120	Tube squeeze valve
560606	Holder stand for tube squeeze valve
DC1060	85 - 264 V AC CE dispensing device
DV-5110	Manual valve

MANUAL CARTRIDGE FILLING DEVICE



MODELS:

Item No.	Description
990150-A-180	Cartridge filling system for 180 cc cartridges to fill barrels 3 cc - 55 cc
990150-A-360	Cartridge filling system for 360 cc cartridges to fill barrels 3 cc - 55 cc
990150-B	Cartridge filling system for 310 cc cartridges to fill barrels 3 cc - 55 cc

ACCESSOIRES FOR EURO-CARTRIDGE:

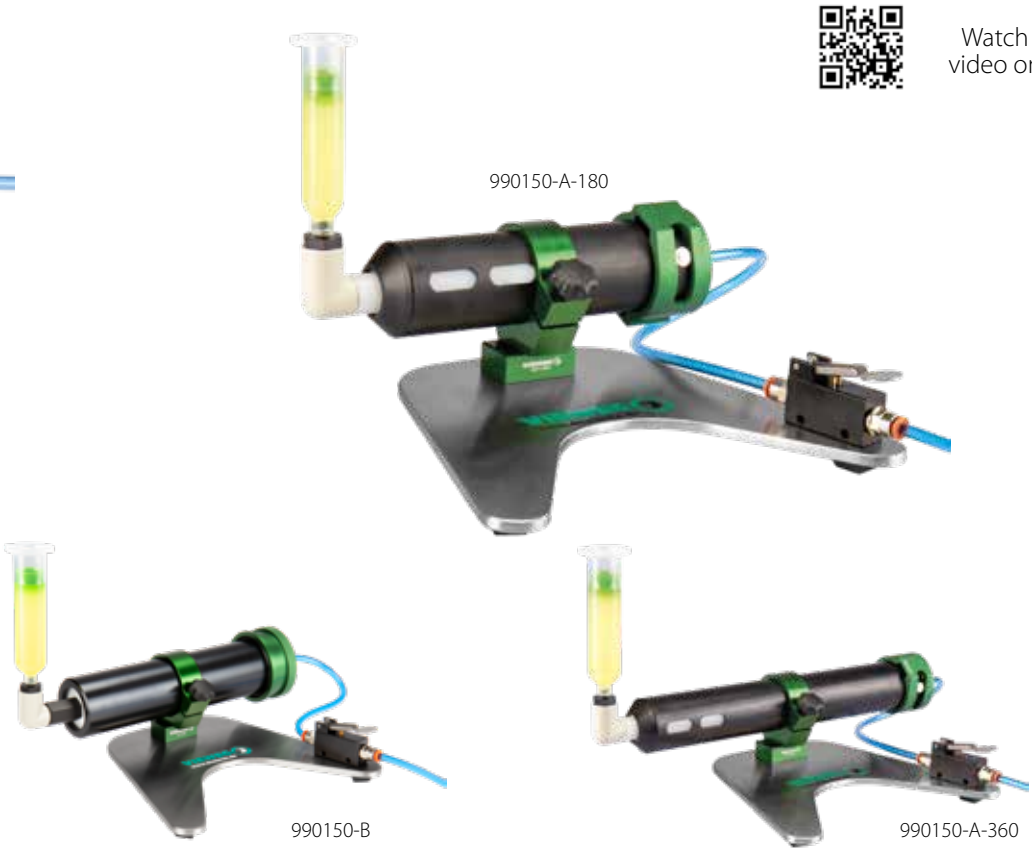
included in delivery

Item No.	Description
990204-K	Adapter for cartridge EURO 310 ml, 1/4 inch inner, POM
F-14A14I-90-PP	Fitting PP, 1/4 inch exterior - 1/4 inch inner, elbow
990063-1_4POM	Luer-Lock adapter female, screw thread 1/4 inch, POM
560710	Luer-Lock tip site, PP , transparent

ACCESSOIRES FOR SEMCO®-CARTRIDGE:

included in delivery

Item No.	Description
F-14A14I-90-PP	Fitting PP, 1/4 inch exterior - 1/4 inch inner, elbow
990063-1_4POM	Luer-Lock adapter female, screw thread 1/4 inch, POM
560710	Luer-Lock tip site, PP, transparent



Watch video on



DESCRIPTION:

Fats, epoxy resins, silicones, solder pastes and other materials can be efficiently transferred into small cartridges with these devices. To control the process, the Cartridge filling devices optionally e.g. to a dispensing device DC 1060 getting closed.

With the 990150-A series models, small cartridges can be filled directly from the SEMCO 180 cc and 360 cc cartridges. With the model 990150-B, the small cartridges can be filled from 310 ml EURO cartridges.

For this purpose, the cartridge filling device is connected to a compressed air regulator. The pressurization takes place according to the material used. A pushbutton located on the side of the stand activates the pressurization.

HAND PUMP



DESCRIPTION:

With the manual pump, high viscosity material can be transferred directly from the original container. The follower plate ensures a clean wiping the container wall. This means cartridges from 3 cc to 360 cc can be filled cleanly, quickly and easily.

When ordering, please include the inner diameter of the container. The correct follower plate will then be included. The mounting cross joint provides a secure pump mounting in the bucket.

Features:

- Easy and quick transfer from large containers
- Clean emptying of the container
- Direct filling of the cartridges

MODELS:

Item No.	Description
560092A-K	Hand pump for container I-Ø 90 - 180 mm
560092A-180-210	Hand pump for container I-Ø 180 - 210 mm
560092A-210-240	Hand pump for container I-Ø 210 - 240 mm
560092A-240-270	Hand pump for container I-Ø 240 - 270 mm
560092A-270-290	Hand pump for container I-Ø 270 - 290 mm
560092A-270-310	Hand pump for container I-Ø 290 - 310 mm
560092A-310-335	Hand pump for container I-Ø 310 - 335 mm
560092A-335-385	Hand pump for container I-Ø 335 - 385 mm

ACCESSORIES / SPARE PARTS:

Item No.	Description
17195	Follower plate 180 - 210 mm
17230	Follower plate 210 - 240 mm
17265	Follower plate 240 - 270 mm
17285	Follower plate 270 - 290 mm
17300	Follower plate 290 - 310 mm
17320	Follower plate 310 - 335 mm
17380	Follower plate 335 - 385 mm
17197	Mounting cross 180 - 310 mm
17199	Mounting cross 310 - 385 mm
17188	Dust cover 180 - 240 mm
17176	Dust cover 240 - 270 mm
17193	Dust cover 270 - 335mm
17198	Dust cover 335 - 385 mm

ADAPTER:

Item No.	Description
990063-1/4 Abb. (1)	Luer-Lock connector, female, (1/4" external thread). Screwed into the pump in order to fill cartridges.
990063-1/4POM Abb. (2)	Luer-Lock connector, female, plastic, (1/4" external thread). Screwed into the pump in order to fill cartridges.

MINI PUMP

TECHNICAL DATA:

Inlet pressure	2 to 10 bar
Working pressure	6,0 bar (optimum)
Gear transmission	10:1
Maximum output pressure of the fluid	100 bar (at 10 bar Inlet pressure)
Volume per stroke	16 cm ³
Output	1720 cm ³ /min
Maximum operating temperature of the pump	40° C
Size of the air inlet	G 1/4"
Size of the material outlet	G 1/4"
Container internal diameter	80 to 210 mm
Container height	285 mm
Max. air consumption	150 l/min

MODELS:

Item No.	Description
990243	Mini Pump 10:1, with exchangeable follower plates

DESCRIPTION:

The mini-pump's compressed air supply system is the ideal and cost-effective way to extract expensive lubricants, including silicone greases and oils, from small containers. The pump can be easily, quickly and directly connected to a metering valve by means of a high-pressure hose with

integrated air line. The height lock and follower plate with venting allows easy container change.

The mini pump with a pressure ratio of 10: 1 is ideal for use as a feed pump for dispensing valves or as a transfer and filling system. This pumping system consists of a compressed air pump and

a pump stand. Separate from the grease supply system, the selection of the follower plate is made according to the size of the container.

Features:

- Compact design
- Delivery directly from the original container
- Long lifetime
- Perfectly matched components
- Can be used as a local pump
- Replaceable follower plate and scraper
- Simple acoustic message "Barrel empty" with pump stop (as option)



PISTON PUMP DA35 AUTOCAN



TECHNICAL DATA:

Maximum output pressure of the fluid	60 bar
Pressure range of the main compressed air supply	2.4-7.0 bar
Maximum viscosity of the dispensing material	600,000 cps.
Volume per stroke	5.0 cm ³
Recommended pump speed for continuous operation	40 cpm
Maximum recommended pump speed	60 cpm
Stroke	19 mm
Maximum operating temperature of the pump	40° C
Size of the air inlet	1/4"/Ø 6 mm
Size of the material outlet	1/4 npt(f)
Weight	approx. 8.4 kg
Material of parts in contact with dispensing material	304 and 17-4 pH stainless steel; PTFE, Viton, PEEK
Sound pressure level at 7 bar, 40 cpm	64.12 dB(A)
Sound power level at 7 bar, 40 cpm	70.84 dB(A)

MODELS:

Item no.	Description
DA35-220	Autocan extruder pump follower plate to Ø170mm, stroke 215 mm
DA35-220-10	Autocan extruder pump follower plate to Ø240 mm, stroke 300 mm
DA35-1KG	Follower plate for 1 kg container (DA35-220)
DA35-3KG	Follower plate for 3 kg container (DA35-220)

ACCESSORY PARTS FOR AUTOCAN:

Item no.	Description
560598V-HP790	Grip holder with switch for valve 790HONM
990029-WF-08	Material hose 2m, Stahlflex, Dn8
990265	Pressure regulator up to 10 bar

Optional accessories:

DC1060	Dispensing device digital
790HPNM	High pressure valve

DESCRIPTION:

The DA35 is used to transfer high viscosity material from small containers. Simply remove the cover from the container and place the container under the piston pump. Then slide the pump into the container. The entire dispensing material below the pump is pushed out except for small residual amounts and is transferred, for

example, to a 790HPNM high pressure valve that can be equipped with a grip holder (optional). The valve is controlled via the DSPE501A dispensing device and a switch on the grip holder. The system is suitable for manual or time-controlled dispensing and eliminates dripping.

Cartridges can also be filled using an appropriate fitting!

Features:

- Small amounts of waste
- No contamination of the material
- No transferring of the material required

HOBBOCK PUMP

TECHNICAL DATA:

Inlet pressure	max. 7,0 bar
Working pressure	2,5-6,0 bar
Gear transmission	11:1
Maximum output pressure of the fluid	60 bar
Maximum viscosity of the material	300.000 mPas
Volume per stroke	60 cm ³
Recommended pump speed for continuous operation	15 DH/Min
Maximum recommended pump speed	30 DH/Min
Stroke	63 mm
Maximum operating temperature of the pump	40° C
Size of the air inlet	1/2" NPT inner thread
Size of the material outlet	3/8" Male thread with sealing cone
Weight	approx. 95 kg
Dimensions height retracted / extendet	1210 - 1750 mm
Dimensions of floor space	390 x 490 mm
Wetted part materials	stainless steel, PTFE
Sound pressure level at 7 bar, 40 cpm	76 dB(A)
Sound power level at 7 bar, 40 cpm	89,7 dB(A)

AVAILABLE MODELS:

Item no.	Description
990244A-SIL	Hobbock Pump 11:1, without Material pressureregulator, One-pillar RAM-system

ACCESSOIRES FOR HOBBOCK-PUMP:

Item no.	Description
990029-WF-10	Flexible hose DN10 x 2, 0 m Stahlflex, 2 m
990265	Material pressure reducer up to 10 bar with display
990265-50	Material pressure reducer, 10-50 bar with display

Optional accessories:

DC1060	Dispensing device, digital, 85 ... 264 V AC 50/60 Hz
790HPNM	High Pressure Spool Valve
990258-SIL	Low-level-indicator for Hobbock-Pump

One-pillar RAM-system



DESCRIPTION:

High viscosity materials can be dispensed directly out of containers with 10 to 50 kg by this Hobbock pump. The following plate has to be adapted individually to your container. For tapping dispensing material the container has to be centered under the pump. The following plate has to be located above the material to wipe it completely from the walls, so only

a small amount will be left.

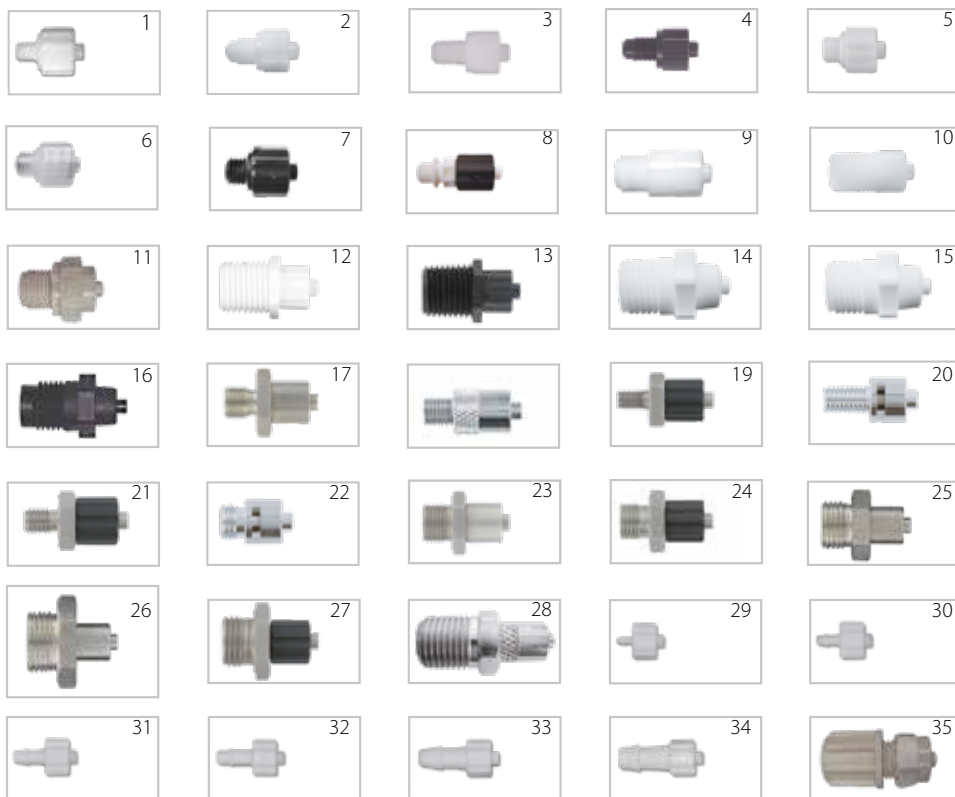
An optional material pressure reducer can also compensate for pressure fluctuations for finer dosing applications.

The pump can be connected to dosing robots via material hoses. This allows an automated application of the material directly from the container.

Features:

- Low waste quantities
- No contamination of the material
- No transfer of the material required

LUER-LOCK ADAPTER - FOR DISPENSING TIPS



LUER-LOCK ADAPTER, INNER THREAD (MALE):

Item no.	Description	Connection	Img.
Luer-Lock-26	Nylon, white	Thread 10-32	1
Luer-Lock-08	Zelcon, white	Thread 1/4-32	2
Luer-Lock-08-M6	Zelcon, white	Thread M6	3
Luer-Lock-22	Zelcon, black	Thread 1/4-32	4
Luer-Lock-49	Nylon, white	Thread 1/4-28	5
Luer-Lock-60	PP, clear	Thread 1/4-28	6
Luer-Lock-91	Acetal, black	Thread 1/4-28	7
Luer-Lock-99	Nylon, straight	Thread 1/4-28	8
Luer-Lock-05	Zelcon	Thread 5/16-28	9
Luer-Lock-06	Zelcon	Thread 1/8 NPT	10
560953PP	PP	Thread 1/8"	11
560519NY	Nylon, white	Thread 1/4 NPT	12
560519NY-BLK	Nylon, black	Thread 1/4 NPT	13
560519PP	PP, white	Thread 1/4 NPT	14
560519PE	PE, white	Thread 1/4 NPT	15
560519PE-BLK	PE, black	Thread 1/4 NPT	16
560953A-5/16-28	Stainless steel	Thread 5/16-28	17
MV-013	ME, nickel-plated, galvanised brass	Thread 1/4 UNF	18
560952-M5-SS	Stainless steel	Thread M5	19
560952-M6	Metal	Thread M6	20
560952-M6-SS	Stainless steel	Thread M6	21
560952-M8x1	Metal	Thread M8x1	22
560953A-V	Stainless steel for retraction valve	Thread 1/8"	23
560953SS	Stainless steel LL turnable	Thread 1/8"	24
560953SS-V	Stainless steel LL turnable for retraction valve	Thread 1/8"	o. A.
560952A	Stainless steel	Thread 1/4"	25
560952A-3/8	Stainless steel	Thread 3/8"	26
560952SS	Stainless steel	Thread 1/4"	27
560952	Metal	Thread 1/4 NPT	28
Luer-Lock-49SS	Stainless steel for diaphragm valve	Thread 1/4-28	o. A.
990090-20	Nylon white	Hose inner-Ø 2,0 mm	29
990090-30	Nylon white	Hose inner-Ø 3,0 mm	30
990090-40	Nylon white	Hose inner-Ø 4,0 mm	31
990090-50	Nylon white	Hose inner-Ø 5,0 mm	32
990090-60	Nylon white	Hose inner-Ø 6,0 mm	33
990090-80	Nylon white	Hose inner-Ø 8,0 mm	34
560953PP-6/4	PP	Hose inner-Ø 4,0 mm	35

DESCRIPTION:

The Luer-Lock adapters are among the most important connectors in dispensing technology. They are

available as male or special adapters. They allow tubes or threaded parts to be attached to dispensing tips

quickly and easily.

LUER-LOCK ADAPTER - FOR SYRINGE BARRELS

LUER-LOCK ADAPTER, OUTER THREAD (FEMALE CONE):

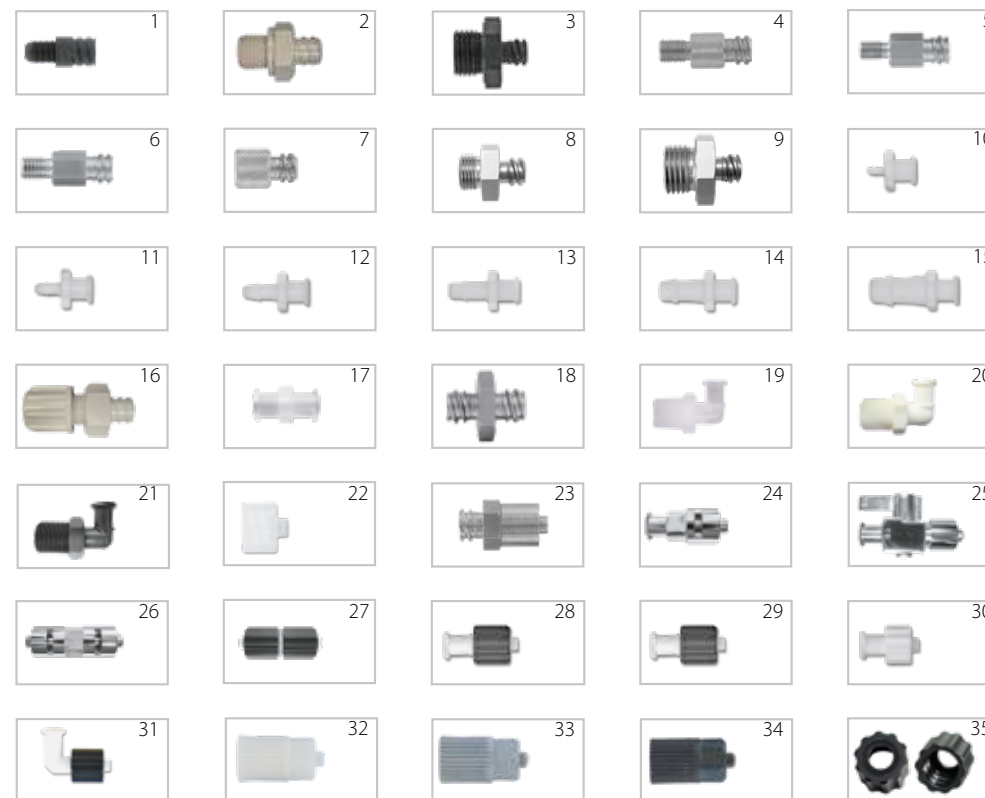
Item no.	Description	Connection	Img.
Luer-Lock-09	Nylon	Thread 1/4-32	1
990063-1/8PP	PP	Thread 1/8"	2
990063-1/4POM	POM	Thread 1/4"	3
Luer-Lock-31	Metal	Thread 1/4-32	4
990063-M5	Stainless steel	Thread M5	5
990063-M6	Stainless steel	Thread M6	6
990063-M6-l	Stainless steel	M6 inner thread	7
990063-1/8	Stainless steel	Thread 1/8"	8
990063-1/4	Stainless steel	Thread 1/4"	9
990091-20	Nylon white	Hose inner-Ø 2,0 mm	10
990091-30	Nylon white	Hose inner-Ø 3,0 mm	11
990091-40	Nylon white	Hose inner-Ø 4,0 mm	12
990091-50	Nylon white	Hose inner-Ø 5,0 mm	13
990091-60	Nylon white	Hose inner-Ø 6,0 mm	14
990091-80	Nylon white	Hose inner-Ø 8,0 mm	15
990077	PP	Hose inner-Ø 4,0 mm	16
Luer-Lock-28	PP	Cartridge - cartridge female	17
Luer-Lock-28SS	Stainless steel	Cartridge - cartridge female	18
Luer-Lock-47	PP clear	Angle 90° 1/8"	19
Luer-Lock-52	PP white	Angle 90° 1/8"	20
Luer-Lock-75	PP black	Angle 90° 1/8"	21
560710	PP clear	Cap	22

SPARE PARTS & SPECIAL PARTS

990043-SS	Stainless steel	f/m	23
990043	Metal	m/f, nickel-plated, chrome plated	24
990101	Metal	m/f, stopcock, 2/2 ways	25
990074	Metal	m/m adaptor double	26
990074-K	PP	m/m, adjustable	27
Luer-Lock-77	Nylon white	m/w, length 20,4 mm	28
Luer-Lock-77D	Nylon white	m/w, turnable, length 20,8 mm	29
Luer-Lock-77K	Nylon white	m/w, length 17,3 mm	30
Luer-Lock-78	Nylon	m/w, angle 90°, color ivory	31
Luer-Lock-44	Nylon	Ring, black, without connection	35

LUER-LOCK ADAPTER male for mixing tubes

LA-05-00	PP, white	on mixing tube 5	32
LA-06-08	PP, grey	on mixing tube 6+8	33
LA-10-00	PP, black	on mixing tube 10	34



Stainless steel corresponds to the material number 1.4305

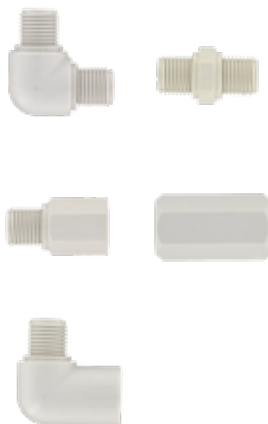
Metal corresponds to nickel-plated brass

FITTINGS FOR MATERIAL TUBE / EURO CARTRIDGE

FITTING:

Material PP, QTY = 1 pcs.

Item no.	Description
F-14A14A-90-PP	1/4" AG on 1/4" AG 90°
F-14A14A-PP	1/4" AG on 1/4" AG
F-14A14I-90-PP	1/4" AG on 1/4" IG 90°
F-14A14I-PP	1/4" AG on 1/4" IG
F-14A18I-90-PP	1/4" AG on 1/8" IG 90°
F-14I14I-PP	1/4" IG on 1/4" IG
F-18A14A-90-PP	1/8" AG on 1/4" AG 90°
F-18A14A-PP	1/8" AG on 1/4" AG
F-18A18A-PP	1/8" AG on 1/8" AG
F-18A18I-90-PP	1/8" AG on 1/8" IG 90°
F-18A18I-PP	1/8" AG on 1/8" IG
F-18I14A-PP	1/8" IG on 1/4" AG
F-18I18I-PP	1/8" IG on 1/8" IG



FITTING FOR MATERIAL TUBE:

Gradually bore, material PP, QTY = 1 pcs.

Item no.	Material hose A-Ø / I-Ø mm	Size
F-4x2-1/8	4/2	1/8"
F-6x4-1/4	6/4	1/4"
F-6x4-1/8	6/4	1/8"
F-6x4-3/8	6/4	3/8"
F-8x6-1/4	8/6	1/4"
F-8x6-1/8	8/6	1/8"
F-8x6-3/8	8/6	3/8"

Winkel 90°

F-6x4-1/8-90	6/4	1/8"
F-6x4-1/4-90	6/4	1/4"
F-8x6-1/8-90	8/6	1/8"
F-8x6-1/4-90	8/6	1/4"
F-8x6-3/8-90	8/6	3/8"

For riser pipes in material containers with a through-hole

F-4x2-1/8-D	4/2	1/8"
F-6x4-1/4-D	6/4	1/4"
F-6x4-1/8-D	6/4	1/8"
F-6x4-3/8-D	6/4	3/8"
F-6x4-M18-D	6/4	M18x1,5
F-8x6-1/4-D	8/6	1/4"
F-8x6-M18-D	8/6	M18x1,5



FITTING FOR 310 ML CARTRIDGE EURO:

QTY = 1 pcs.

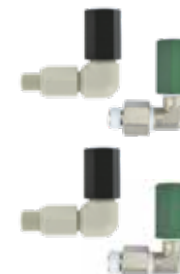
Item no.	Description	Img.
990204	1/4" inner thread to cartridge EURO thread, ALU	1
990204-1515	1/4" inner thread to M15x1,5 - ALU	2
990204-K	1/4" inner thread to cartridge EURO thread, POM	3
990204-P2-SS	1/4" cartridge EURO adapter "mushroom" (stainless steel) to cartridge EURO thread (for holder 560927V)	4
990204-E	1/4" cartridge EURO adapter "mushroom" (stainless steel) to M15x1,5 (for holder 560927V)	5



FITTING FOR 310 ML CARTRIDGE EURO (ON VALVE):

with outer thread, to cut open, 90°, QTY = 1 pcs.

Item no.	Description
990204-1/8K	1/8" Plastic on cartridge EURO thread
990204-1/8M	1/8" Metal on cartridge EURO thread
990204-1/4K	1/4" Plastic on cartridge EURO thread
990204-1/4M	1/4" Metal on cartridge EURO thread



FITTINGS FOR CARTRIDGE TO VALVE / TUBES

FITTING FOR 310 ML CARTRIDGE EURO SLEEVE ON VALVE (SERIES 990269):

Metal, QTY = 1 pcs.

Item no.	Description
990208-1/8XL	90° Angle for valves with 1/8" material input, (45 mm)
990208-1/8L	90° Angle for valves with 1/8" material input (36 mm)
990208-1/4XL	90° Angle for valves with 1/4" material input (43 mm)
990208-1/4L	90° Angle for valves with 1/4" material input (27 mm)



FITTING FOR CARTRIDGE LUER-LOCK ON VALVE:

90° Fitting-combination, QTY = 1 pcs.

Item no.	Description
990209-1/8M	90° Angle, for valves with 1/8" material input metal, length short
990209-1/8M-PP	90° Angle, for valves with 1/8" material input PP, length short
990209-1/8L	90° Angle, for valves with 1/8" material input Metall, length default
990209-1/4L	90° Angle, for valves with 1/4" material input Metall, length default
990209-1/4L-PP	90° Angle, for valves with 1/4" material input PP, length default



ADAPTER TUBE FOR CARTRIDGE ADAPTER HEADS:

Polyvinyl, QTY = 1 m

Item no.	Color	A-Ø / I-Ø in mm
560780-2	clear	4 x 2
560780-3	clear	6 x 3
560780	clear	1/4" x 1/8"



INTERNAL TUBE FOR DISPENSING DEVICES:

PU, QTY = 1 m

Item no.	Color	A-Ø / I-Ø in mm
C-0010-2	blue-transparent	4 x 2
C-0010-4	blue-transparent	6 x 4
561400	blue	1/4" x 1/8"



PTFE-TUBE FOR MATERIAL LINES:

QTY = 1 m

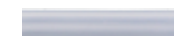
Item no.	Color	A-Ø / I-Ø in mm
T-5x4	white	5 x 4
T-6x4	white	6 x 4
T-8x6	white	8 x 6



PE-TUBE FOR MATERIAL LINES:

QTY = 1 m

Item no.	A-Ø / I-Ø in mm
PE-4x2-clear	4 x 2
PE-4x2-black	4 x 2
PE-6x4-clear	6 x 4
PE-6x4 black	6 x 4
PE-8x6-clear	8 x 6
PE-8x6-black	8 x 6



STANDS FOR VALVES AND CARTRIDGES

 Dispensing stand
for u-bracket


990130B Dispense stand and attachment for u-bracket 910079-200. (u-shaped bar Z79-2)

 Dispensing stand
for cartridge 3-55 cc


without cartridge

990130C Dispense stand and attachment for small cartridges 3-55 cc.

 Dispensing stand
for dispensing pen


without pen

990130K Dispense stand and attachment for dispensing pen. (pen 990990-15 (PPD130A))

 Dispensing stand
cartridge sleeve SEMCO® 75-360 cc


without retainer

990130D Dispense stand and attachment for cartridge sleeve SEMCO® 75 - 360 cc

 Dispensing stand
for cartridge EURO sleeve 990250


without retainer

990130E Dispense stand for EURO cartridge sleeve 990250-B, 310 cc metal

 Dispensing stand
for pinch tube valve DV-5120


without valve

990130J Dispense stand and attachment for pinch tube valve DV-5120

 Dispensing stand
for diaphragm valve DV-5625


without valve

990130G Dispense stand and attachment for diaphragm valve DV-5625

 Dispensing stand
for needle valve DV-5425


without valve

990130H Dispense stand and attachment for needle valve DV-5425

Dispensing stand for high pressure valve 790HP and cartridge sleeve 990269-B



without valve

990130F Dispense stand and attmt. for high pressure valve 790HP etc. cartridge sleeve 990299-B

 Dispensing stand
for eco-Pen 300 / 450


without valve

 Dispense stand & attmt. for eco-PEN300 / -450
990130M
990130N for eco-PEN600 / -700

MOUNTING FOR DISPENSING VALVES

U-BRACKET WITH POSITIONING STONE, FOR ALL BENCHTOP ROBOT:

Item no.	Description	Pcs.	Img.
990232	U-bracket, 100 mm	1	
990232-L	U-bracket, long, 150 mm	1	A
910079-200	Bar for u-bracket	1	B
	Allen screw M4x8	5	



MOUNTING BRACKET FOR HIGH PRESSURE VALVES:

Suitable for: High Pressure Spool Valve DV-5370 series

Item no.	Description	Pcs.	Img.
560927V	Mounting bracket complete		right
consisting of			
910079-200	Bar for u-bracket	1	A
910445	Clamping ring	1	B
	Screw, stainless steel, M3x8	4	no Img.
	Screw, stainless steel, M5x30	1	C



MOUNTING BRACKET FOR VALVES:

Suitable for valves: DV-5325 / SS
DV-5425 / SS
SV-1217

Item no.	Description	Pcs.	Img.
990241	Mounting bracket complete		
consisting of			
910079-200	Bar for u-bracket	1	B
910091	Clamping ring	1	1
	Screw, stainless steel, M3x8	3	



MOUNTING BRACKET FOR DIAPHRAGM- AND SPRAY VALVES:

Suitable for: Diaphragm valve DV-5625 Series
Spray valves SV-1000SS
SV-2000 Series

Item no.	Description	Pcs.	Img.
990215	Mounting bracket complete		right
consisting of			
910079-200	Bar for u-bracket	1	A
910104	Clamping ring	1	B
	Screw, stainless steel, M3x8	3	C

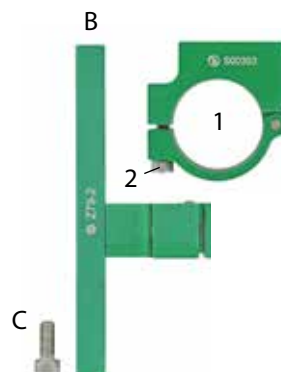


MOUNTING FOR DISPENSING VALVES

MOUNTING BRACKET FOR ECO-PEN300 / -330 / -450:

Suitable for: eco-PEN300
eco-PEN330
eco-PEN450

Nr.	Item no.	Description	Pcs.
	990241-ECO450A	Mounting bracket complete	1
B	910079-200	Bar for u-bracket	1
1	900300	Clamping ring	1
C		Screw, stainless steel, M3x12	4
2		Screw, stainless steel, M5x20	1



MOUNTING BRACKET FOR ECO-DUO SERIES:

Suitable for: eco-DUO300
eco-DUO450
eco-DUO600

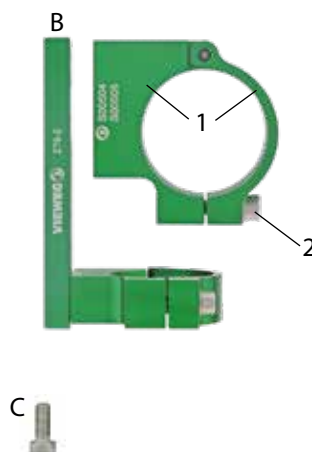
Nr.	Item no.	Description	Pcs.
1	910748	Bar for u-bracket	1



MOUNTING BRACKET FOR ECO-PEN600 / -700:

Suitable for: eco-PEN600
eco-PEN700

Nr.	Item no.	Description	Pcs.
	990241-ECO600	Mounting bracket complete	1
B	910079-200	Bar for u-bracket	1
1	900503	Clamping ring	1
C		Screw, stainless steel, M3x12	4
2		Screw, stainless steel, M5x20	1



MOUNTING BRACKET FOR PINCH TUBE VALVE:

Suitable for: PINCH TUBE VALVE DV-5120

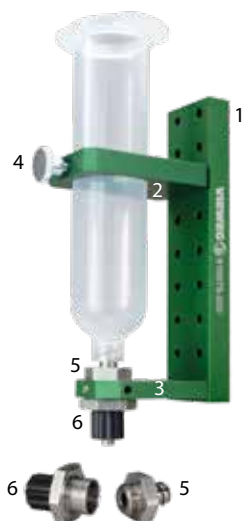
Nr.	Item no.	Description	Pcs.
	560781A-V	Mounting bracket for DV-5120	1



MOUNTING FOR BARRELS AND PENS

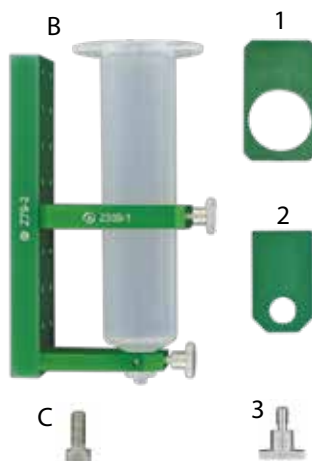
MOUNTING BRACKET FOR CARTRIDGES WITH TIP ADAPTER, 30/55 CC:

Nr.	Item no.	Description	Pcs.
	560920V-N	Mounting bracket for cartridges with tip adapter, 30/55 cc, complete	1
1	910079-200	Bar for u-bracket	1
2	910339-100	Mounting bracket, top	1
3	910339-200	Mounting bracket, bottom	1
4		Screw, knurled M3x6	1
		Screw, stainless steel, M3x8	4
5	990063-G18-03	Luer-Lock female, G1/8"	1
6	560952SS-02	Luer-Lock male, G1/8" innen	1



MOUNTING BRACKET FOR CARTRIDGES, 30/55 CC:

Nr.	Item no.	Description	Pcs.
	560920V	Mounting bracket for cartridges, 30/55 cc, complete	
B	910079-200	Bar for u-bracket	1
1	910339-100	Mounting bracket, top	1
2	910339-200	Mounting bracket, bottom	1
3		Screw, knurled M3x6	2
C		Screw, stainless steel, M3x8	4



REDUCING BUSH FOR DIFFERENT CARTRIDGE SIZES:

Nr.	Item no.	Description
1	561183V	Reducing bush 3 cc
2	561184V	Reducing bush 5 cc
3	560943V	Reducing bush 10 cc
2	561025-15	Reducing bush for PPD Series internal diameter 15 mm



MOUNTING BRACKET FOR SPREADING STYLUS (SERIES PPD):

For Peristaltic pump Series PPD

Nr.	Item no.	Description	Pcs.
	990241-15	Mounting bracket for spreading stylus (PPD series), complete	
B	910079-200	Bar for u-bracket	1
1	910091	Clamping ring f. Spreading stylus	1
2	560990-15	Spreading stylus	1
3	561025-15	Reducing bush, 15 mm	1
C		Screw, stainless steel, M3x8	3

Dispensing nozzles for Spreading stylus 560990-15

Item no.	Hose transp. / hose black	Nozzles
561003	560984A / 560984BA	1,5 mm
561004	560985A / 560985BA	1,9 mm
561005	560995A / 560995BA	2,4 mm
561006	560996A / 560996BA	2,9 mm
561000	560997A / 560997BA	0,7 mm
561001	560998A / 560998BA	0,9 mm
561002	560999A / 560999BA	1,0 mm



MOUNTING FOR LARGE CARTRIDGES

MOUNTING BRACKET FOR CARTRIDGE SLEEVE, EURO:

Cartridge holder for cartridges EURO.
An extra clamping ring is required
for the fill-level monitor.

Nr.	Item no.	Description	Pcs.
	560925V	Mountig bracket for cartridge sleeve, EURO, 310ml, complete	1
Consisting of			
B	910079-200	Bar for u-bracket	1
1	910174	Clamping ring	1
C		Screw, stainless steel, M3x8	4
		Screw, stainless steel, M5x35	1



MOUNTING BRACKET FOR CARTRIDGE SLEEVE, SEMCO, 600 CC:

Cartridge holder for cartridge sleeve, SEMCO, 600 cc.

Nr.	Item no.	Description	Pcs.
	560925V-600	Mountig bracket for cartridge sleeve, SEMCO, 600 cc, cpl.	1
Consisting of			
B	910079-200	Bar for u-bracket	1
C	910233	Clamping ring	1
		Screw, stainless steel, M3x8	4
D		Screw, stainless steel, M5x35	1



MOUNTING BRACKET FOR CARTRIDGE SLEEVE, SEMCO:

Cartridge holder for cartridge sleeve, SEMCO, 75 cc - 360 cc.
An extra clamping ring is required
for the fill-level monitor.

Nr.	Item no.	Description	Pcs.
	560926V	Mountig bracket for cartridge sleeve, EURO, 75 cc - 360 cc, complete	1
Consisting of			
B	910079-200	Bar for u-bracket	1
1	910143	Clamping ring	1
C		Screw, stainless steel, M3x8	4
		Screw, stainless steel, M5x35	1



MOUNTING BRACKET FOR CARTRIDGE SLEEVE, 900 CC:

Cartridge holder for cartridge sleeve, SEMCO, 900 cc.

Nr.	Item no.	Description	Pcs.
	560925V-900	Mountig bracket for cartridge sleeve, SEMCO, 900 cc, cpl.	1
Consisting of			
B	910079-200	Bar for u-bracket	1
C	910233	Clamping ring	2
		Screw, stainless steel, M3x8	8
D		Screw, stainless steel, M5x35	2
E		Reduzierring	2



ADAPTER PLATES - SUPPORTING CROSS

ADAPTER PLATES:

For mounting T-sliding bars

Nr.	Item no.	Description	L (mm)
1	560970V-L	Adapter plate long, for VR-Robot	215
2	560970-A	Adapter plate short, for VR-Robot	141
3	560970-C	Adapter plate, for robot 9000 series	150



CROSS SLIDES FOR XYZ-DISPENSING ROBOTS:

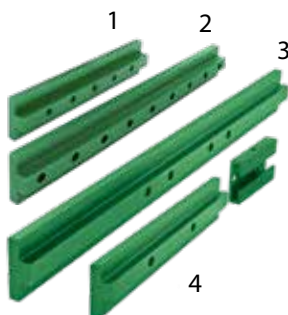
for all common XYZ-dispensing robots

Item no.	Description
990211	Cross slide for robot VR3000 series, (JR2000) (3-axis)
990211-4	Cross slide for robot VR3000 (JR2000) series, (4-axis)
990211-9000	Cross slide for robot F9000N series, (3-axis)
990211-9004	Cross slide for robot F9004N series, (4-axis)



T-SLIDING BARS FOR BENCHTOP- AND GANTRY ROBOTS:

Nr.	Item no.	Description
1	560939V-150	T-sliding bar, 150 mm
2	560939V	T-sliding bar, 220 mm
3	560941V	T-sliding bar, 305 mm
4	560947-V	U-bracket, without M6x5
o. A.	560922	screw for sliding bars, M6x5



TIP-CENTERING WITH ADJUSTMENT FOR U-BRACKET:

Distance to the bar ca. 40 - 50 mm

Nr.	Item no.	Description	Pcs.
	990134	Tip-centering without insert	1
1	990137-050	Insert for tip-centering, 0,5 mm	1
2	990137-180	Insert for tip-centering, 1,8 mm	1
	990137-310	Insert for tip-centering, 3,1 mm	1
	990137-XXX	Insert for tip-centering, XXX (The size of the hole must be given in mm. -150 = 1,50 mm	1



LOW-LEVEL-INDICATORS

LOW-LEVEL-INDICATOR FOR CARTRIDGE, EURO:

Magnetic, for 310 ml cartridge sleeve with telescopic pistons (990272)

Item no.	Description	Pcs.	
990257-M	Low-level-indicator, cpl.		
Consisting of			
	Sensor, M8 connection	1	1
	Metal band	2	1
	Cable 2 m, (no Image)		1



LOW-LEVEL-INDICATOR FOR CARTRIDGE, EURO:

For 310 ml cartridge sleeve EURO, capacitive

Item no.	Description	Img.	Pcs.
990257	Low-level-indicator, cpl.		1
Consisting of			
	Sensor M12x1	1	1
910174	Clamping ring	2	1
	Screw, stainless steel, 5x30	3	1
	Cable 2 m		1



LOW-LEVEL-INDICATOR FOR CARTRIDGE, EURO:

For 310 ml cartridge EURO, optical, up to 7 bar

Item no.	Description	Pcs.
990257-O	Low-level-indicator, cpl.	
Consisting of		
	Sensor M18x1	1
	Cable 2 m	1



LOW-LEVEL-INDICATOR FOR CARTRIDGE, SEMCO:

For cartridge SEMCO® sleeve, capacitive, (75 - 360 cc)

Item no.	Description	Img.	Pcs.
990240	Low-level-indicator, cpl.		1
Consisting of			
	Sensor M12x1	1	1
910143	Clamping ring	2	1
	Screw, stainless steel, M5x30	3	1
	Cable 2 m		1



LOW-LEVEL-INDICATORS & HEATER FOR MIXING TUBES

LOW-LEVEL-INDICATOR FOR (SMALL-) CARTRIDGES:

For cartridges 10 cc, 30 cc, 55 cc, capacity,
incl. connecting cable

Item no.	Description
990252	Low-level-indicator, cpl.
Suitable accessories	
560920V-N	Mounting bracket for cartridges with tip adapter, 30/55 cc
560920V	Mountig bracket for cartridge, 30/55 cc



HEATER FOR MIXING TUBES:

Heater for static mixing tube with protection sleeve,
24 V DC, 80 W

AVAILABLE MODELS:

Item no.	Description
990046-6-32	Heater for mixing tube 6-32
990046-6-48	Heater for mixing tube 6-48
990046-8-32	Heater for mixing tube 8-32
990046-9-30	Heater for mixing tube 9-30
990046-13-32	Heater for mixing tube 13-32



BARREL, TIP AND VALVE HEATING

HEATER FOR CARTRIDGES:

Heating cartridges for small cartridges, 3 - 55 cc

AVAILABLE MODELS:

Item no.	Description
990247A-3	3 cc heating cartridge, 24 V DC, 50 W
990247A-5	5 cc heating cartridge, 24 V DC, 50 W
990247A-10	10 cc heating cartridge, 24 V DC, 50 W
990247A-30	30 cc heating cartridge, 24 V DC, 50 W
990247A-55	55 cc heating cartridge, 24 V DC, 50 W



HEATER FOR DISPENSING TIPS:

Dispensing tip heater
24 V DC, 6 W

PART LIST:

Nr.	Item no.	Description
1	990238	Heater
2	990238-K	Cap for tip heater



HEATER FOR DISPENSING VALVES:

Heater for valves: SV-1000SS
DV-5325 VP300
DV-5425 /SS
DV-5520 /SS

AVAILABLE MODELS:

Item no.	Description
990259	Heater for DV-5325, DV-5425 /SS DV-5520 /SS, SV-1000 (24 V DC, 20 W)
990259-29	Heater for VP300 (24 V DC, 20 W)
990259-HP790	Heater for VP300 (24 V DC, 20 W)



without valve and u-bracket

HEATER FOR CARTRIDGE SLEEVES:

Heater for cartridges 230 V AC, 140 W
cartridge, EURO, 310 ml
cartridge, SEMCO®, 75 - 900 ml

PART LIST:

Item no.	Description
990247-310	Heater for 310 ml cartridge sleeve EURO
990247-310B	Heater for 310 ml cartridge sleeve EURO for cartridge sleeve 990269-B, ALU, 2 parts
990247-360	Heater for 180-360 ml cartridge, SEMCO
990247-600	Heater for 600 ml cartridge, SEMCO
990247-900	Heater for 900 ml cartridge, SEMCO



without cartridge sleeve

HEATING CONTROLLERS



HEATER REGULATION 24 V (990235A-24V):

After switching on, the two temperatures "setpoint" (green) and "actual" (red) are displayed. However, only if the sensor or the heater are plugged in.

Set the selector switch to "ON" and the power will be passed on to the heater. When the yellow light comes on the temperature is reached

TECHNICAL DATA:

Dimensions (H x W x D)	235 x 225 x 75 mm
Weight	approx. 1,0 kg
Power supply	230 V AC 50 Hz
Internal voltage	24 V DC
OMRON temperature controller	20 - 80° C

HEATER REGULATION 230 V (990235A):

The control consists of a control unit for 230V heating jackets. Suitable for material containers of the MDG series, mixing unit VOLUMENMIX and material containers for large cartridges. After switching on, the temperature "setpoint" (green) and "actual" (red)

are displayed. However, only if the sensor or the heater is plugged in. Set the selector switches to "ON" and the power will be passed on to the heaters. When the yellow light comes on, the temperature is reached.

TECHNICAL DATA:

Dimensions (H x W x D)	235 x 225 x 75 mm
Weight	approx. 1,0 kg
Power supply	230 V AC 50 Hz
Internal voltage	230 V DC
OMRON temperature controller	20 - 80° C

VIEWEG
Doser- und Mischtechnik



Dosiersysteme

VIEWEG





GERMANY:

VIEWEG GmbH
Dosier- und Mischtechnik
Gewerbepark 13
85402 Kranzberg
Tel.: +49 8166 6784-0
Fax: +49 8166 6784-20
info@dosieren.de
www.dosieren.de



AUSTRIA:

4694 Ohlsdorf/Gmunden
Mobil: +43 664 3446077
Fax: +43 7612 76893
info@dosieren.at
www.dosieren.at



CZECH REPUBLIC:

602 00 Brno
Mobil: +420 775 675001
info@vieweg.cz
www.vieweg.cz



ROMANIA:

540012 Târgu-Mureș
Mobil: +40 771 710028
info@vieweg.ro
www.vieweg.ro

