

8. Liquid Handling

GENERAL CATALOGUE EDITION 20

Pipettes/Reagent Reservoirs-Dispensing/Hand dispensers



1 Pipette reservoirs, PP

These reagent reservoirs were designed especially for use with automated 8. Liquid Handling platforms. They can also be used with manual systems. Different partitions, bottom styles and profiles provide broad application flexibility.

BRAND

- ANSI/SLAS standard format Compatible with nearly all 8. Liquid Handling robots and other automated dispensing systems
- 5 different types for use with multichannel pipettes and automatic systems
- Excellent stability and chemical resistance made from high-quality polypropylene
- Free from RNases and DNases, autoclavable (121 °C, 20 min)

Description	Working volume column each ml	Bottom shape	PK	Cat. No.
1-column	220	pyramid, 96-well	10	6.266 275
12-column, low profile	6	pyramid	10	6.266 276
4-column	60	pyramid	10	6.266 277
6-column	40	pyramid	10	6.266 278
1-column, low profile	50	flat	10	6.266 279



2 Manual Serial Dispenser LLG-uniDISPENS

The **ergonomically designed** manual dispenser LLG-uniDISPENS enables single handed volume selection, loading and dispensing. Due to its light weight it is ideally suited for serial dosing. You can flexibly select your desired dosing volume from **120 dosing programs** for 12 tip sizes and with 10 stroke adjustments. You can view all settings and volumes at a single glance through the viewing window of the manual dispenser. The dispenser is **compatible with Ritips® from Ritter, PD-Tips® from Brand, Combitips® and Combitips advanced® from Eppendorf™**. Thanks to a purely mechanical, maintenance-free construction, the manual dispenser is a practical and convenient device for daily laboratory use. 3 years warranty.

Scope of delivery: Adapter for 25 ml tips included

Description	PK	Cat. No.
LLG-uniDISPENS	1	9.284 238
Spare adapter for 25 ml Tips	1	6.266 071
Spare adapter for 50 ml Tips	1	6.266 072



3 Manual step dispenser, ripette®

Ritter ripette® is a very comfortable device for hand dispensing of long series. A special technical mechanism guarantees the precision of all selected dosage volumes: 1 to 5000 µl.

Ritter

Product advantages:

- Chart with dosage setting volumes incorporated into each dispenser.
- Lightweight (approx. 100 g)
- Easy-to-use adjustment dial for the selection of dosage volume and the number of steps
- No mechanical parts that wear out, no maintenance

Dispenser tips ritips® 25 ml and 50 ml cannot be used without adapter (Adapter included in delivery).

Description	PK	Cat. No.
ripette® with 25/50 ml adapter	1	9.284 190
Spare adapter for 25 ml	1	6.266 071
Spare adapter for 50 ml	1	6.266 072



8. Liquid Handling Dispensing/Hand dispensers

Dispenser tips, ritips®

- Three sizes, standard and bioclean® (sterile). Ritter
- Maximum of safety and repeatability as all tips are individually and mechanically tested.
- Guaranteed purity under the logo bioclean® is tested and confirmed by independent testing laboratories. Ritter bioclean® stands for sterile, pyrogen free, tDNA-, RNase- and ATP-free.
- A quality certificate per lot can be obtained upon request.

Suitable for use together with Ritter ripette®, Multipette® 4780, HandyStep®, Minilab 100/101, Stepmate, EasyStep, Distriman® and HandyStep® electronic.

Please note: Dispenser tips ritips® 25 ml and 50 ml cannot be used without adapter. If necessary, please order Cat.-No. 6.266 071 or 6.266 072 separately.

Type	PK	Cat. No.
0.05 ml / standard	100	6.265 688 1
1.25 ml / standard	100	6.265 689 2
12.5 ml / standard	100	9.284 225 3
0.05 ml / sterile	25	6.265 690
1.25 ml / sterile	100	6.265 691
12.5 ml / sterile	100	6.288 768
Adapter for 25 ml	1	6.266 071
Adapter for 50 ml	1	6.266 072

1



6.265 688

2



6.265 689

3



9.284 225

4 Manual repetitive pipette HandyStep® S

HandyStep® S - the repetitive pipette for any occasion!

BRAND

Ideal for routine or research applications in diagnostics, molecular biology, environmental analysis, and many more. HandyStep® S and PD-tips work on the direct displacement principle. This offers the highest-precision dispensing of liquid media with high viscosity, high density, or high vapor pressure. Direct displacement permits contamination-free operation, since no aerosols are formed.

More data and facts:

- increased chemical resistance through innovative plastic materials
- easy tip mounting - PD-tip is now simply inserted from below
- dispensed volume range from 2 µl to 5 ml
- up to 49 dispensing steps
- weighs only 108 g
- suitable for use with BRAND PD-tips, Encode™ tips, Repet tips, Combitips®, Combitips® plus and other compatible dispenser tips
- CE- IVD -compliant

Items supplied

HandyStep® S, DE-M marking, with serial number, performance certificate, operating manual, shelf/rack mount, 3 PD-Tips: 0.1 ml, 1 ml and 10 ml.



Type	PK	Cat. No.
HandyStep® S incl. rack holder	1	9.280 944
Rack holder for HandyStep® S	1	9.280 945

8. Liquid Handling Dispensing/Hand dispensers



1 Repetitive pipette HandyStep® electronic

Microprocessor-controlled manual repetitive pipette for fatigue-free use, serial dispensing in a wide range of applications. Ergonomic shape permits comfortable use and provides uniform precision, independent of user influence.-automatic size recognition of new BRAND PD tips with piston coding (patented).

- can be used with most other commercial dispenser tips
- variable volume setting between 1 µl and 50 ml
- LCD readout of volume, number of dispensing steps and aspirating/dispensing speed
- functions: dispensing, auto dispensing, pipetting with continuously variable volume
- innovative recharging dock concept reduces downtimes
- user-friendly, intuitive menu system
- auto dispensing with learning feature (average speed of first three dispensings memorized, then used for subsequent procedures during session, patented)
- NiMH battery pack can be recharged when fitted or separately.

BRAND

HandyStep® electronic with RS-232 interface: Especially suited for integration in automated systems.

Scope of supply:

HandyStep® electronic, DE-M marking, performance certificate, NiMH battery pack, charging dock and AC adapter.
1 PD-Tip sizes 0.5 ml, 1.25 ml, 2.5 ml and 12.5 ml each.
HandyStep® electronic with RS-232 interface, additionally with 2 m interface cable, software (for applications with Windows operating system starting WINDOWS 95) and Library HSeBRAND.DLL.

Type	PK	Cat. No.
HandyStep® electronic, EU adapter, 230 V/50 Hz	1	9.284 040
HandyStep® electronic, UK adapter, 230 V/50 Hz	1	4.000 165
HandyStep® electronic with RS 232 interface, EU adapter, 230 V/50 Hz	1	6.280 983

Other adapters (UK/USA/Japan or Australia) are available on request.

Pipettors, positive displacement, stepper type, HandyStep® electronic, from BRAND

PD-Tip	Capacity	Subdivision	Accuracy ($\leq \pm R\%$)				Precision ($\leq CV\%$)				
			Nom. capacity	50 %	10 %	1 %	Nom. capacity	50 %	10 %	1 %	
0.1 ml	1 µl - 100 µl	1 µl - 100 µl	0.1 µl	1	1	1.6	8	0.5	1	2	12
0.5 ml	5 µl - 500 µl	5 µl - 100 µl	0.1 µl	0.9	0.9	1	5	0.3	0.6	1	5
		100 µl - 500 µl	1 µl								
1 ml	10 µl - 1 ml	10 µl - 1 ml	1 µl	0.6	0.9	1	5	0.3	0.5	0.8	4
1.25 ml	12.5 µl - 1.25 ml	12.5 µl - 100 µl	0.5 µl	0.6	0.6	0.9	5	0.2	0.5	0.7	4
		100 µl - 1000 µl	1 µl								
2.5 ml	25 µl - 2.5 ml	1 ml - 1000 µl	1 µl	0.5	0.6	0.7	3.5	0.15	0.3	0.6	3
		1 ml - 2.5 ml	10 µl								
5 ml	50 µl - 5 ml	50 µl - 1000 µl	1 µl	0.5	0.5	0.7	3.5	0.15	0.4	0.7	3
		1 ml - 5 ml	10 µl								
10 ml	100 µl - 10 ml	100 µl - 10 ml	10 µl	0.4	0.5	0.7	3.5	0.15	0.5	0.8	4
12.5 ml	125 µl - 12.5 ml	125 µl - 1000 µl	5 µl	0.5	0.5	0.8	3.5	0.15	0.6	1.4	6.5
		1 ml - 10 ml	10 µl								
25 ml	250 µl - 25 ml	10 ml - 12.5 ml	100 µl	0.5	0.5	0.6	3	0.15	0.3	1.0	6
		250 µl - 10 ml	10 µl								
50 ml	500 µl - 50 ml	10 ml - 25 ml	100 µl	0.5	0.5	0.5	3	0.15	0.4	1.2	9
		500 µl - 10 ml	10 µl								
		10 ml - 50 ml	100 µl								

The nominal volume is the maximum volume printed on the PD-Tip.
Tolerances according to ISO 8655.



2 Accessories for pipettors, positive displacement, stepper type, HandyStep® electronic

BRAND

Type	PK	Cat. No.
European plug, 230 V 50 Hz power supply only*	1	9.284 041
Charging dock only, without power supply	1	9.284 042
NiMH battery pack, spare	1	9.284 043

* Other power supplies on request.

8. Liquid Handling Dispensing/Hand dispensers

1 Precision Dispenser Tips for Stepper Pipettors

The BRAND PD-Tips from BRAND with patented size encoding are the ideal system component for the HandyStep® electronic (with automatic tip size recognition), HandyStep® S and HandyStep® from Brand. They can be used also with compatible, third-party dispensing systems. The automatic size detection option is available with HandyStep® electronic, Gilson® Repetman®, and Rainin AutoRep™ E. In addition, PD-Tips can be used with HandyStep®, HandyStep® S, Rainin AutoRep™ M, Eppendorf® Multipette® 4780 and EDOS® 5221 among others. PD-Tips are DE-M marked, ISO 8655 compliant and come with a batch certificate. PD-Tips are available in 10 different sizes from 0.1 ml to 50 ml. They are available non-sterile, sterile/endotoxin-free (individually wrapped), as well as in Bio-Cert® quality. Bio-Cert® products are free from DNA, RNase and ATP. Quality control is conducted at an independent, accredited test laboratory. A batch-related certificate will be provided. For 25 and 50 ml tips, an adapter is required and is included.

BRAND

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Type	Capacity ml	PK	Cat. No.
non-sterile	0.10	100	9.280 923
non-sterile	0.50	100	9.280 928
non-sterile	1.00	100	4.007 854
non-sterile	1.25	100	9.280 930
non-sterile	2.50	100	9.280 932
non-sterile	5.00	100	9.280 934
non-sterile	10.00	100	4.007 855
non-sterile	12.50	100	9.280 936
non-sterile	25.00	50	9.280 938
non-sterile	50.00	25	9.280 940
sterile, endotoxin free	0.10	100	9.280 924
sterile, endotoxin free	0.50	100	9.280 929
sterile, endotoxin free	1.00	100	4.007 856
sterile, endotoxin free	1.25	100	9.280 931
sterile, endotoxin free	2.50	100	9.280 933
sterile, endotoxin free	5.00	100	9.280 935
sterile, endotoxin free	10.00	100	4.007 857
sterile, endotoxin free	12.50	100	9.280 937
sterile, endotoxin free	25.00	25	9.280 939
sterile, endotoxin free	50.00	25	9.280 941
sterile, Bio-Cert®	0.10	100	6.229 625
sterile, Bio-Cert®	0.50	100	7.615 367
sterile, Bio-Cert®	1.00	100	4.007 858
sterile, Bio-Cert®	1.25	100	6.207 277
sterile, Bio-Cert®	2.50	100	9.409 653
sterile, Bio-Cert®	5.00	100	6.206 732
sterile, Bio-Cert®	10.00	100	4.007 859
sterile, Bio-Cert®	12.50	100	6.206 733
sterile, Bio-Cert®	25.00	25	9.409 656
sterile, Bio-Cert®	50.00	25	6.224 557

2 Adapters for PD tips

Adapters for 25 ml and 50 ml PD tips.

BRAND

2



Type	PK	Cat. No.
Adapter, non-sterile	10	9.280 942
Adapter, sterile*	5	9.280 943

* Individually packed.



8. Liquid Handling Dispensing/Hand dispensers

GENERAL CATALOGUE EDITION 20

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1 Pipettors, positive displacement, variable, repeating, Stepper™ 411

Highly comfortable pipette, intended for reliable repeat dispensing from 10 to 5000 µl. Unique trigger action mechanism eliminates thumb fatigue. Selected materials ensure reliability in use, day after day. Compact shape greatly limits internal instrument contamination. Wide selection between 53 different volumes; up to 73 doses per filling. Two-year warranty.

Socorex

Product advantages

- 4-finger activation
- setting knobs bear clear indication of volumes and number of aliquots
- three positive displacement syringes, colour coded
- self-locking mechanism
- clear setting indication

Description	PK	Cat. No.
Stepper™ 411 supplied with colour-coded adjustment knobs, adapter, samples of Ecostep syringes	1	9.411 561
Spare PVC workstation	1	9.411 567
Spare adapters for 37.5 ml (red) Ecostep syringe tips	5	9.411 568

2



2 Syringe tips, Ecostep

Individually wrapped sterile, or loose-packed non-sterile.

Socorex

Bioproof: Sterilized syringes are DNase-, RNase- and pyrogen-free certified.

Type	Capacity µl	Capacity	PK	Cat. No.
Non-sterile	10 - 100	0.75	100	9.411 509
Non-sterile	50 - 500	3.75	100	9.411 511
Non-sterile	500 - 5000	37.5	100	9.411 513
Sterile	10 - 100	0.75	50	9.411 578
Sterile	50 - 500	3.75	50	9.411 579
Sterile	500 - 5000	37.5	50	9.411 580

3



3 Dispensers Multipette® M4

On the Multipette®/Combitip system, volumes are dispensed using the positive displacement principle. The liquid is directly dispensed without an air cushion, ensuring the correct volume is always dispensed regardless of the density and viscosity of the liquid.

Eppendorf AG

In addition to serial dispensing, the Multipette is also the perfect instrument that is able to go beyond the limitations of a standard pipette.

Features Multipette®

- Light and ergonomic
- Stress-free work via integrated step counter: dispensing procedures can be continued error-free after an interruption or distraction
- Central Combitip ejector: fully emptied Combitip can be easily ejected with one hand using the operating lever
- Step counter: Displays the number of executed dispensing steps
- Only suitable with Eppendorf Combitips advanced
- Combitip sensor: Automatic Combitip recognition and volume display

Applications

- Repetitive Dispensing of volumes in long series such as plate filling or when aliquoting
- Contamination-free dispensing of toxic, radioactive and or other hazardous liquids
- Precise and accurate dispensing of viscous solutions (e.g. glycerol) or liquids with high vapor pressure (e.g. ethanol)

Type	PK	Cat. No.
Multipette® M4 incl. holder	1	9.283 604
Multipette® M4 Starter Kit, incl. Combitip Rack and Combitip Assortmentpack 1 µl - 10 ml	1	9.283 681

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E & OE.

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8. Liquid Handling Dispensing/Hand dispensers

Dispensers Multipette® E3 and Multipette® E3x

NEW

1

Eppendorf AG

The new generation of Multipette®, E3 and E3x, exhibit an enlarged color-display and have an intuitive and user-friendly software. No multiple assignment of keys. The Multipette® E3x has a new aspirate and dispensing feature which allows uptake and volume calculation of an unknown volume with immediate dispense in desired partial volumes. In addition to this, up to 225 different parameter settings can be stored saving programming time for routine applications. A new sleep mode saves energy when the Multipette® E3x is not used.

Applications

- Dispensing volumes in long series
- Electronic dispensing with memory functions
- Contamination-free dispensing using positive displacement principle
- Ideal for viscous solutions (e.g. glycerol, oil) or liquids with high vapour pressure (e.g. acetone, ethanol)

Product features, Multipette® E3 and E3x

- Dispensing and pipetting according to positive displacement principle
- Automatic dispensing
- Eight different speed levels for different applications
- One-button tip ejector
- Li-Ion battery
- Selection wheel
- Automatic Combitip® plus tip recognition
- Volume range from 1µl to 50ml
- Charging possible whilst in use
- incl. charging adapter (100-240V), Multipette® E3/E3x Bundle, additionally with charge stand

Additional Multipette® E3x features:

- Aspirate (pipetting of supernatants)
- Titrate
- Sequential dispensing
- Combined aspiration and dispensing mode



9.283 688

E3 Basic and E3x Basic: only available in exchange for a defective electronic hand dispenser.

Type	PK	Cat. No.
Multipette® E3*	1	9.283 687
Multipette® E3x*	1	9.283 688 1
Multipette® E3 Bundle*	1	9.283 691
Multipette® E3x Bundle*	1	9.283 692
Charge stand for Multipette®	1	9.283 618

*incl. 2 Combitips advanced® assortment packs



8. Liquid Handling Dispensing/Hand dispensers

1



1 Pipette tips, Eppendorf Combitips advanced®

Eppendorf AG

The Eppendorf Combitips have been completely redesigned and optimised so that they are capable of meeting the increased requirements of a modern laboratory to a greater extent than ever before. The result is the Combitips advanced®. As they offer a wide variety of advantages in comparison with the Combitips plus, we talk about the 360° Evolution. The Combitips advanced replace the Combitips plus.

The Combitips advanced also function according to the positive displacement principle. Thus they always dispense the correct desired volume independently of the density of the liquid and its flow characteristics (e.g. increased vapour pressure or increased viscosity). Working with radioactive, aggressive or toxic materials also becomes safer due to the hermetically sealed piston preventing aerosol contamination. After dispensing with the Multipipette, just eject the Combitips advanced and dispose of.

Whether Multipipette 4780, Multipipette plus, Multipipette stream or Xstream - the Combitips advanced are optimized for all Multipipette models to create the perfect connection!

Type	Capacity ml	Colour code	PK	Cat. No.
Combitips advanced®	0.1	white	100	9.283 135
Combitips advanced®	0.2	light blue	100	9.283 136
Combitips advanced®	0.5	purple	100	9.283 137
Combitips advanced®	1.0	yellow	100	9.283 138
Combitips advanced®	2.5	green	100	9.283 139
Combitips advanced®	5.0	blue	100	9.283 140
Combitips advanced®	10.0	orange	100	9.283 141
Combitips advanced®	25.0	red	100	9.283 142
Combitips advanced®	50.0	light grey	100	9.283 143
Combitips advanced®, PCR clean	0.1	white	100	9.283 144
Combitips advanced®, PCR clean	0.2	light blue	100	9.283 145
Combitips advanced®, PCR clean	0.5	purple	100	9.283 146
Combitips advanced®, PCR clean	1.0	yellow	100	9.283 147
Combitips advanced®, PCR clean	2.5	green	100	9.283 148
Combitips advanced®, PCR clean	5.0	blue	100	9.283 149
Combitips advanced®, PCR clean	10.0	orange	100	9.283 150
Combitips advanced®, PCR clean	25.0	red	100	9.283 151
Combitips advanced®, PCR clean	50.0	light grey	100	9.283 152
Combitips advanced® Biopur®	0.1	white	100	9.283 153
Combitips advanced® Biopur®	0.2	light blue	100	9.283 154
Combitips advanced® Biopur®	0.5	purple	100	9.283 155
Combitips advanced® Biopur®	1.0	yellow	100	9.283 156
Combitips advanced® Biopur®	2.5	green	100	9.283 157
Combitips advanced® Biopur®	5.0	blue	100	9.283 158
Combitips advanced® Biopur®	10.0	orange	100	9.283 159
Combitips advanced® Biopur®	25.0	red	100	9.283 160
Combitips advanced® Biopur®	50.0	light grey	100	9.283 161
Combitips advanced® Assortment pack (1 pc. of each size plus each 1 pc. 25 ml and 50 ml adapter)			1	9.283 167

2



2 Accessories for Pipette tips, Eppendorf Combitips advanced®

Eppendorf AG

Type	Capacity ml	Colour code	PK	Cat. No.
advanced® Adapter	25.0	red	1	9.283 162
advanced® Adapter	50.0	light grey	1	9.283 163
advanced® Adapter biopur®	25.0	red	7	9.283 164
advanced® Adapter biopur®	50.0	light grey	7	9.283 165
advanced® Rack for 8 Combitips			1	9.283 166

3



3 4 Pipette tips, Biopur® Combitips®

Eppendorf AG

For RNase-, DNA-, ATP- and pyrogen-free work.
- continuous quality control by independent laboratory
- can be supplied with a batch-related quality certificate upon request

The Eppendorf Biopur seal stands for the highest biological purity. Eppendorf Biopur disposable products are guaranteed sterile, pyrogen-free, RNase-free, DNA-free and ATP-free. They therefore meet the highest requirements in the medical, pharmaceutical and food industries, in PCR technology, molecular biology and cell technology. This new dimension of purity is made possible because of a production process that is comprehensively automated through all of the manufacturing stages up to the end product and that excludes contamination with biological substances. Biopur Combitips, individually blister packed in outer cases of 100.

4



Type	Minimum Interval (µl)	Maximum Interval (µl)	PK	Cat. No.
1.25 ml	25	125	100	9.283 502
12.5 ml	250	1250	100	9.283 505

8. Liquid Handling Dispensing/Hand dispensers

1 Self-filling laboratory syringes Dosys™

- Optimal hand balance and ergonomics
- Fast and reliable volume setting
- Excellent reproducibility
- Plunger tightness without O-ring
- High chemical resistance
- Fully autoclavable at 121 °C/250 °F
- Self-refilling automatic

Socorex



Dosys™ basic 162/172

- Fill-by-fill (automatic) through needle or cannula
- Supplied without valve system
- Luer Lock nozzle

Package includes syringe, PVC protection sleeve and operating instructions.

Dosys™ classic 163/173

- Integrated valve system
- Luer Lock nozzle

Package includes syringe, one meter silicone feed tube, sinker, PVC protection sleeve, aspiration and vent cannulas, set of spare for valve, operating instructions.

Dosys™ premium 164/174

- Detachable valve system
- Enhanced corrosion resistance
- Luer Lock nozzle

Package includes syringe, one meter silicone feed tube, sinker, PVC protection sleeve, aspiration, vent and dosing cannulas, set of spare for valve, operating instructions.

Further Self-filling syringes available on request.

Type	Volume ml	Valve	With	PK	Cat. No.
Dosys™ basic 162	0.5 - 5	without	2-ring handle	1	6.229 740
Dosys™ classic 163	0.3 - 2	integrated	2-ring handle	1	6.206 201
Dosys™ premium 164	0.3 - 2	detachable	2-ring handle	1	6.204 472
Dosys™ premium 164	1 - 10	detachable	2-ring handle	1	6.224 207
Dosys™ basic 172	0.1 - 1	without	pistol grip	1	9.411 524
Dosys™ basic 172	0.3 - 2	without	pistol grip	1	9.411 525
Dosys™ basic 172	0.5 - 5	without	pistol grip	1	9.411 526
Dosys™ basic 172	1 - 10	without	pistol grip	1	9.411 527
Dosys™ classic 173	0.025 - 0.3	integrated	pistol grip	1	6.266 515
Dosys™ classic 173	0.1 - 0.5	integrated	pistol grip	1	7.981 548
Dosys™ classic 173	0.1 - 1	integrated	pistol grip	1	6.205 165
Dosys™ classic 173	0.5 - 5	integrated	pistol grip	1	6.231 686
Dosys™ classic 173	1 - 10	integrated	pistol grip	1	6.230 535
Dosys™ classic 173	5 - 20	integrated	pistol grip	1	7.630 775
Dosys™ premium 174	0.1 - 1	detachable	pistol grip	1	9.411 520
Dosys™ premium 174	0.3 - 2	detachable	pistol grip	1	9.411 521
Dosys™ premium 174	0.5 - 5	detachable	pistol grip	1	9.411 522
Dosys™ premium 174	1 - 10	detachable	pistol grip	1	9.411 523

Gas syringes, FORTUNA®, soda lime glass

Clear glass, with calibrated cylinder.
With chemically-resistant, diffused amber stain graduations.

Poulsen & Graf

Type	Capacity ml	Grad. ml	PK	Cat. No.
Without stopcock	25	0.5	1	9.143 055
Without stopcock	50	0.5	1	9.143 056
Without stopcock	100	1.0	1	9.143 057 2
With capillary stopcock	50	0.5	1	9.143 066
With capillary stopcock	100	1.0	1	9.143 067



9.143 057

E & OE.

8. Liquid Handling Dispensing/Bottletop dispensers

GENERAL CATALOGUE EDITION 20

1



1 Bottletop dispenser LLG-uniTOPDISPENS 2

NEW

The combination of a springless PTFE valve and **PTFE piston** with chemically resistant ETP O-ring enables dispensing of both organic reagents as well as bases, thus, eliminating the need to buy different dispensers for different applications. The improved design of the uniTOPDISPENS 2 bottle top dispenser including a **re-circulation valve** allows a smooth, precise and reliable bubble free dispensing without any loss of reagent. The specially designed bottle adaptor which permits a 360° rotation of the unit, the easy volume setting as well as the flexible delivery nozzle underline the user friendliness of this bottletop dispenser. Available in six volume ranges.

- Springless PTFE valve, PTFE piston with chemically resistant ETP O-ring enables **high chemical compatibility**
- Glass cylinder from borosilicate glass 3.3
- Re-circulation valve enables easy priming and bubble free dispensing
- Smooth, reproducible and effortless dispensing
- 360° rotation possible due to specially designed bottle adapter
- Flexible and adjustable delivery nozzle provides **dispensing angle flexibility** to the user
- Specially designed volume adjustment knob for quick and easy volume setting
- **The telescopic extractable intake tube can be easily adjusted to varying bottle heights**
- Nozzle cap reduces contact with air and prevents drying and dripping if the tip cover is attached
- Five bottle adaptors included (28 mm, 32 mm, 37 mm, 40 mm and 45 mm). Standard thread: 30 mm.
- Fully autoclavable at 121 °C, 15 psi for 10 to 15 min
- Individually calibrated in accordance with ISO 8655 standards and each unit is supplied with an individual calibration certificate
- 3 years warranty

Description	Volume	Graduations	Accuracy max. vol. ($\leq \pm R\%$)	Precision max. vol. ($\leq CV\%$)	PK	Cat. No.
	ml	ml				
LLG-uniTOPDISPENS 2	0.25 - 2.5	0.05	0.6	0.2	1	6.282 275
LLG-uniTOPDISPENS 2	0.5 - 5	0.1	0.6	0.2	1	6.282 276
LLG-uniTOPDISPENS 2	1 - 10	0.2	0.6	0.2	1	6.282 277
LLG-uniTOPDISPENS 2	2.5 - 30	0.5	0.6	0.2	1	6.282 278
LLG-uniTOPDISPENS 2	5 - 60	1.0	0.6	0.2	1	6.282 279
LLG-uniTOPDISPENS 2	10 - 100	2.0	0.6	0.2	1	6.282 280

2



2 Bottletop dispenser LLG-uniTOPDISPENS 2 DUO

NEW

Moreover, the LLG-uniTOPDISPENS 2 DUO enables 4 modes of dispensing in just one Dispenser: Dilution, Rinsing, Dual 8. Liquid Handling and Re-circulation in a single unit. All these features underline the user-friendliness and versatility of this next generation bottletop dispenser. Available in six volume ranges.

- Refilling and rinsing without the need to dismount
- 4 modes of dispensing: Dilution, Rinsing, Dual 8. Liquid Handling and Re-circulation in a single unit
- Springless PTFE valve and piston, with chemically resistant ETP O-ring, enable **high chemical compatibility**
- Glass cylinder from borosilicate glass 3.3
- Smooth, reproducible and effortless dispensing
- 360° rotation possible due to specially designed bottle adapter
- Flexible and adjustable delivery nozzle provides dispensing angle flexibility to the user
- Specially designed volume adjustment knob for quick and easy volume setting
- **The telescopic extractable intake tube can be easily adjusted to varying bottle heights**
- Nozzle cap reduces contact with air and prevents drying and dripping if the tip cover is attached
- Five bottle adaptors included (28 mm, 32 mm, 37 mm, 40 mm and 45 mm); thread: 30 mm
- Fully autoclavable at 121 °C, 15 psi for 10 to 15 min
- Individually calibrated in accordance with ISO 8655 standards and each unit is supplied with an individual calibration certificate
- 3 years warranty

Description	Volume	Graduations	Accuracy max. vol. ($\leq \pm R\%$)	Precision max. vol. ($\leq CV\%$)	PK	Cat. No.
	ml	ml				
LLG-uniTOPDISPENS 2 DUO	0.25 - 2.5	0.05	0.6	0.2	1	6.282 281
LLG-uniTOPDISPENS 2 DUO	0.5 - 5	0.1	0.6	0.2	1	6.282 282
LLG-uniTOPDISPENS 2 DUO	1 - 10	0.2	0.6	0.2	1	6.282 283
LLG-uniTOPDISPENS 2 DUO	2.5 - 30	0.5	0.6	0.2	1	6.282 284
LLG-uniTOPDISPENS 2 DUO	5 - 60	1.0	0.6	0.2	1	6.282 285
LLG-uniTOPDISPENS 2 DUO	10 - 100	2.0	0.6	0.2	1	6.282 286

8. Liquid Handling Dispensing/Bottletop dispensers

Bottletop dispenser LLG-uniTOPDISPENS with glass piston and clear glass cylinder

The LLG-uniTOPDISPENS is a **reasonably priced** bottle-top dispenser with **glass piston** available in 2 volumes: 10 ml and 50 ml. Precise, reliable and robust. The high quality of the material used and the precision of the grinding ensures the perfect seal of the complete dispensing system. 3 years warranty.

- Precise and reliable volume setting
- Visible dosing procedure
- Valve block made of PP gives optimised protection of the glass made dosing cylinder
- Precise grinding of the glass piston into the glass cylinder forms a perfect seal
- Ergonomic finger guard
- Delivered with 2 PP-adapters GL 40 and 45
- With glass piston and clear glass cylinder

Description	Volume	Graduations	Accuracy max. vol. ($\leq \pm R\%$)	Precision max. vol. ($\leq CV\%$)	PK	Cat. No.
	ml	ml				
LLG-uniTOPDISPENS	2 - 10	0.2	0.6	0.2	1	9.283 806
LLG-uniTOPDISPENS	10 - 50	1.0	0.6	0.2	1	9.283 808

1



9.283 806

2 Dispensers, VITLAB® SIMPLEX²

With variable volume and calibration mechanism.

VITLAB

- quick, easy and precise volume adjustment due to interior scalloped track and practical screw mechanism
- no drips after tube has been capped
- easy calibration adjustment
- high-quality materials (PTFE, PFA, FEP, borosilicate glass, platinum-iridium) ensure high chemical resistance against most acids, solvents and bases
- a positive displacement plunger with a PFA seal minimizes the crystallization of liquids and thus the clogging of the plunger
- easy to dismantle for cleaning, no tools necessary
- completely autoclavable at 121 °C
- device can be rotated 360° on bottle
- DE-M marked
- items supplied: 3 respectively 5 threaded adapters*made of PP, 1 telescopic filling tube, 1 mounting tool, operation manual, quality certificate
- with GL 45 thread
- with screwable discharge valve

Volume	Graduations	Accuracy max. vol. ($\leq \pm R\%$)	Precision max. vol. ($\leq CV\%$)	Neck thread	PK	Cat. No.
ml	ml			GL		
0.2 ... 2.0	0.05	0.5**	0.1	45	1	6.283 967
0.5 ... 5.0	0.10	0.5**	0.1	45	1	6.283 968
1.0 ... 10.0	0.20	0.5**	0.1	45	1	6.283 969
2.5 ... 25.0	0.50	0.5**	0.1	45	1	6.283 970
5.0 ... 50.0	1.00	0.5**	0.1	45	1	6.283 971
10.0 ... 100.0	1.00	0.5**	0.1	45	1	6.283 972

* Nominal volume 1 - 10 ml: with adapters GL 25, GL 28, GL 32, GL 38, S 40 and telescopic intake tube (length 125 - 240 mm).

Nominal volume 25 - 100 ml: with adapters GL 32, GL 38, S 40 and telescopic intake tube (length 170 - 330 mm).

**Accuracy and Coefficient of variation according to DIN EN ISO 8655-5.

2



3 Dispensers, VITLAB® Simplex² Fix

Fixed volume and calibration mechanism.

VITLAB

Items supplied: 5 threaded adapters*made of PP, 1 telescopic filling tube, instruction manual, quality certificate, 1 assembly tool.

- with GL 45 thread
- screwable discharge valve

Volume ml	Neck thread GL	Adapter	PK	Cat. No.
1.0	32	GL 28, 45, S 40	1	6.283 973
5.0	32	GL 28, 45, S 40	1	6.283 974
10.0	32	GL 28, 45, S 40	1	6.283 975

* Accuracy and variability according to DIN EN ISO 8655-5

3



8. Liquid Handling Dispensing/Bottletop dispensers

GENERAL CATALOGUE EDITION 20



1 Bottle top dispenser VITLAB® genius²

NEW
VITLAB

With recirculation valve and calibration mechanism.

- Quick, easy and precise volume adjustment due to interior scalloped track and practical screw mechanism
- Innovative recirculation valve avoids reagent waste
- No drips after tube has been capped
- Easy calibration adjustment
- High-quality materials (PTFE, PFA, FEP, borosilicate glass, platinum-iridium) ensure good chemical resistance to most acids, solvents and bases
- A positive displacement plunger with PFA seal minimizes the crystallization of liquids and therefore the possibility of the plunger jamming
- Easy to dismantle for cleaning, no tools necessary
- Completely autoclavable at 121 °C
- Can be rotated 360° on bottle
- Certificate of conformity according to DIN 12600 DE-M marked
- Margin of error according to DIN EN ISO 8655-5
- With recirculation valve and calibration mechanism
- With GL 45 thread
- With screwable discharge valve

Items supplied: 3 respectively 5 threaded adapters*made of PP (see chart), 1 telescopic filling tube (200 to 350 mm), 1 mounting tool, operation manual, quality certificate stating all test values

Volume ml	Grad. ml	Accuracy max. vol. (≤ ± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
0.2 - 2	0.05	0.5**	0.1	1	6.283 976
0.5 - 5	0.10	0.5**	0.1	1	6.283 977
1 - 10	0.20	0.5**	0.1	1	6.283 978
2.5 - 25	0.50	0.5**	0.1	1	6.283 979
5 - 50	1	0.5**	0.1	1	6.283 980
10 - 100	1	0.5**	0.1	1	6.283 981

* Nominal volume 1 - 10 ml: with adapters GL 25, GL 28, GL 32, GL 38, S 40 and telescopic intake tube (length 125 - 240 mm).

Nominal volume 25 - 100 ml: with adapters GL 32, GL 38, S 40 and telescopic intake tube (length 170 - 330 mm).

**Accuracy and Coefficient of variation according to DIN EN ISO 8655-5



2 Dispensers, bottle-top, POLYFIX®

Poulsen & Graf

For dispensing of all chemicals, where polypropylene is resistant. With glass dispensing barrel. Valve block not detachable for safety reasons.

- conformity-certified
- ergonomically designed plunger handle for comfortable operation
- user-friendly, volume setting with easy movement and rotatable fine adjustment
- PP valve block (GL32) with FIX adapter which aligns the dispenser on the bottle.

Supplied with 2 x PP bottle adapters (GL40 and GL45).

Description	Volume ml	Graduations ml	Accuracy max. vol. (≤ ± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
with glass piston and clear glass cylinder*	2 - 10	0.2	0.6	0.2	1	9.283 800
with glass piston and clear glass cylinder*	10 - 50	1.0	0.6	0.2	1	9.283 810
with PTFE-coated piston and clear glass cylinder**	2 - 10	0.2	0.6	0.2	1	9.283 801
with PTFE-coated piston and clear glass cylinder**	10 - 50	1.0	0.6	0.2	1	9.283 802
with glass piston and amber dosing cylinder***	2 - 10	0.2	0.6	0.2	1	9.283 803
with glass piston and amber dosing cylinder***	10 - 50	1.0	0.6	0.2	1	9.283 804

* For dosing of aqueous media

**For dosing of weak acids and bases

***For dispensing light sensitive liquids

980

E & OE.

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8. Liquid Handling Dispensing/Bottle-top dispensers

1 Dispensers, bottle-top, FORTUNA® OPTIFIX® BASIC

For problem-free dispensing of aqueous media and acids as well as solutions subject to crystallization. With solid, PTFE-sleeved dispensing piston, highly polished, 100 % corrosion-free, plastic-coated, precision glass cylinder (visible dispensing process). Black-graduated, dispensing cylinder. PTFE valve block (no metal springs to contaminate the dispensed liquid). With colour-coded handle inscriptions. Sizes 2 ml to 100 ml autoclavable (Please read the autoclaving instructions carefully before proceeding). Sizes 200 ml to 500 ml in autoclavable version only available on request.

Poulten & Graf

Items supplied: Dispenser without reservoir bottle, PTFE suction and discharge tube and two PP bottle adapters (GL40 and GL45). Conformity-certified, with precision certificate.

Type	Volume ml	Graduations ml	Accuracy max. vol. ($\leq \pm R\%$)	Precision max. vol. ($\leq CV\%$)	PK	Cat. No.
Basic-27	0.5 - 2	0.1	0.6	0.2	1	9.287 902
Basic-33	1 - 5	0.1	0.6	0.2	1	9.287 903
Basic-38	2 - 10	0.2	0.6	0.2	1	9.287 904
Basic-44	5 - 30	0.5	0.6	0.2	1	9.287 905
Basic-48	10 - 50	1.0	0.6	0.2	1	9.287 906
Basic-51	20 - 100	2.0	0.6	0.2	1	9.287 907
Basic-53	40 - 200	5.0	0.6	0.2	1	9.287 908
Basic-56*	60 - 300	5.0	0.6	0.2	1	9.287 909
Basic-58*	100 - 500	5.0	0.6	0.2	1	9.287 951

*not included in ISO 8655/5



2 Dispensers, bottle-top, FORTUNA® OPTIFIX® SOLVENT

For organic solvents and liquid compounds that may swell PTFE. With glass dispensing barrel and precision glass piston. Barrel graduated in black. Visible dispensing. PTFE valve block (GL32). With colour-coded plunger handles. Sizes 2 ml to 100 ml autoclavable (Please read the autoclaving instructions carefully before proceeding). Sizes 200 ml to 500 ml in autoclavable version only available on request.

Poulten & Graf

Items supplied: Dispenser without reservoir bottle, PTFE suction and discharge tube and two PP bottle adapters (GL40 and GL45). Conformity-certified, with precision certificate.

Type	Volume ml	Graduations ml	Accuracy max. vol. ($\leq \pm R\%$)	Precision max. vol. ($\leq CV\%$)	PK	Cat. No.
SOLVENT-27	0.5 - 2	0.1	0.6	0.2	1	9.287 953
SOLVENT-33	1 - 5	0.1	0.6	0.2	1	9.287 954
SOLVENT-38	2 - 10	0.2	0.6	0.2	1	9.287 955
SOLVENT-44	5 - 30	0.5	0.6	0.2	1	9.287 956
SOLVENT-48	10 - 50	1.0	0.6	0.2	1	9.287 957
SOLVENT-51	20 - 100	2.0	0.6	0.2	1	9.287 958
SOLVENT-53	40 - 200	5.0	0.6	0.2	1	9.287 959
SOLVENT-56*	60 - 300	5.0	0.6	0.2	1	9.287 960
SOLVENT-58*	100 - 500	5.0	0.6	0.2	1	9.287 961

* in addition to ISO 8655



3 Dispensers, bottle-top, FORTUNA® OPTIFIX® SAFETY

For strong acids (excl. HF) and aggressive chemicals. Visible dispensing process, dispensing piston made of PTFE-sleeved, solid glass, with additional sealing lip at the end of the piston to prevent acid fumes and odours from escaping. No metal springs in the valve block (no contamination of the dispensed liquid). With colour-coded handle inscriptions.

Poulten & Graf

Items supplied: Dispenser without reservoir bottle, 1 discharge tube, incl. 2 PTFE-adapters (GL 40+45), 1 PTFE suction tube.

Type	Volume ml	Grad. ml	Accuracy max. vol. ($\leq \pm R\%$)	Precision max. vol. ($\leq CV\%$)	PK	Cat. No.
Safety-27	0.5 - 2	0.1	0.6	0.2	1	9.287 962
Safety-33	1 - 5	0.1	0.6	0.2	1	9.287 963
Safety-38	2 - 10	0.2	0.6	0.2	1	9.287 964
Safety-44	5 - 30	0.5	0.6	0.2	1	9.287 965
Safety-48	10 - 50	1.0	0.6	0.2	1	9.287 966
Safety-51	20 - 100	2.0	0.6	0.2	1	9.287 967



8. Liquid Handling Dispensing/Bottletop dispensers

GENERAL CATALOGUE EDITION 20

1



1 Dispensers, bottle-top, FORTUNA® OPTIFIX® SAFETY S

Bottle-top dispensers for dispensing strong fuming acids and very aggressive liquids, with safety stopcock and additional safety valve in the ventilation tube, with PTFE-encased dispensing piston with sealing lip, FIX adaptor made of solid PTFE, no metal springs in the valve block (no contamination), comes with 2 x PTFE GL40/GL45 adapters and PTFE inlet tube.

Poulten & Graf

Type	Volume ml	Grad. ml	Accuracy max. vol. ($\leq \pm R\%$)	Precision max. vol. ($\leq CV\%$)	PK	Cat. No.
Safety S-27	0.5 - 2	0.1	0.6	0.2	1	6.206 600
Safety S-33	1 - 5	0.1	0.6	0.2	1	6.227 942
Safety S-38	2 - 10	0.2	0.6	0.2	1	9.287 995
Safety S-44	5 - 30	0.5	0.6	0.2	1	9.287 996
Safety S-48	10 - 50	1.0	0.6	0.2	1	9.287 997
Safety S-51	20 - 100	2.0	0.6	0.2	1	9.287 998

2



2 Dispensers, bottle-top, FORTUNA UNIVERSAL® OPTIFIX® HF

With solid PTFE dispensing barrel and glass-cored, PTFE coated plunger with seal (prevents acid vapours escaping from the storage bottle). No metal springs in the valve block (no contamination).

Poulten & Graf

Items supplied: Hydrofluoric acid dispenser without reservoir bottle, with PTFE valve block (GL32), PTFE suction and discharge tubes and two PTFE bottle adapters (GL40 and GL45).

Type	Volume ml	Graduations ml	Accuracy max. vol. ($\leq \pm R\%$)	Precision max. vol. ($\leq CV\%$)	PK	Cat. No.
HF-33	1 - 5	0.1	0.6	0.2	1	9.287 970
HF-38	2 - 10	0.2	0.6	0.2	1	9.287 968
HF-44	5 - 30	0.5	0.6	0.2	1	9.287 969
HF-48	10 - 50	1.0	0.6	0.2	1	6.241 198

3



3 Bottle-top dispensers Calibrex™ organo 525/Calibrex™ solutae 530

Calibrex organo 525 models include a ground glass plunger, best suited for organics, non-crystallizing acid and base solutions. Calibrex solutae 530 dispensers have a PFA coated plunger preventing plunger and barrel from seizing together. This enables trouble free distribution of salt solutions, weak and strong acids, as well as bases.

Socorex

- 45 mm base thread
- Integrated calibration system
- Choice of adjustment button with each unit
- Autoclavable at 121 °C fully assembled
- Two-year warranty

Scope of delivery: Delivery jet and stopper, feed tube, 3 alternative adapters (25, 28, 32 mm for 1 and 2.5 ml versions; 28, 32, 40 mm for 5 and 10 ml version; 32, 38, 40 mm from 25 ml onwards), QC certificate and operating instructions

Type	Volume ml	Graduations ml	Accuracy max. vol. ($\leq \pm R\%$)	Precision max. vol. ($\leq CV\%$)	Recycle valve	PK	Cat. No.
Calibrex™ solutae 530	0.1 - 1	0.02	0.6	0.17	without	1	6.281 543
Calibrex™ solutae 530	0.25 - 2.5	0.05	0.6	0.17	without	1	6.281 544
Calibrex™ solutae 530	0.5 - 5	0.1	0.6	0.1	without	1	6.281 545
Calibrex™ solutae 530	1 - 10	0.2	0.6	0.1	without	1	6.281 546
Calibrex™ solutae 530	2.5 - 25	0.5	0.6	0.1	without	1	9.411 565
Calibrex™ solutae 530	5 - 50	1.0	0.6	0.1	without	1	9.411 566
Calibrex™ solutae 530	10 - 100	1.0	0.6	0.1	without	1	6.258 446
Calibrex™ solutae 530	0.1 - 1	0.02	0.6	0.17	with	1	6.281 547
Calibrex™ solutae 530	0.25 - 2.5	0.05	0.6	0.17	with	1	6.281 548
Calibrex™ solutae 530	0.5 - 5	0.1	0.6	0.1	with	1	6.281 549
Calibrex™ solutae 530	1 - 10	0.2	0.6	0.1	with	1	6.281 550
Calibrex™ solutae 530	2.5 - 25	0.5	0.6	0.1	with	1	6.261 221
Calibrex™ solutae 530	5 - 50	1.0	0.6	0.1	with	1	6.261 222
Calibrex™ solutae 530	10 - 100	1.0	0.6	0.1	with	1	6.261 223
Calibrex™ organo 525	0.1 - 1	0.02	0.6	0.17	without	1	6.281 538
Calibrex™ organo 525	0.25 - 2.5	0.05	0.6	0.17	without	1	6.270 246
Calibrex™ organo 525	0.5 - 5	0.1	0.6	0.1	without	1	6.270 247
Calibrex™ organo 525	1 - 10	0.2	0.6	0.1	without	1	6.270 248
Calibrex™ organo 525	2.5 - 25	0.5	0.6	0.1	without	1	9.411 562
Calibrex™ organo 525	5 - 50	1.0	0.6	0.1	without	1	9.411 563
Calibrex™ organo 525	10 - 100	1.0	0.6	0.1	without	1	9.411 564
Calibrex™ organo 525	0.1 - 1	0.02	0.6	0.17	with	1	6.281 539
Calibrex™ organo 525	0.25 - 2.5	0.05	0.6	0.17	with	1	6.281 540
Calibrex™ organo 525	0.5 - 5	0.1	0.6	0.1	with	1	6.281 541
Calibrex™ organo 525	1 - 10	0.2	0.6	0.1	with	1	6.281 542
Calibrex™ organo 525	2.5 - 25	0.5	0.6	0.1	with	1	6.261 218
Calibrex™ organo 525	5 - 50	1.0	0.6	0.1	with	1	6.261 219
Calibrex™ organo 525	10 - 100	1.0	0.6	0.1	with	1	6.261 220

8. Liquid Handling Dispensing/Bottle-top dispensers

Dispensers, bottle-top, ceramus® classic

1

With ceramic pistons. High precision, bottle-top dispensers adjustable in fixed steps for the reproducible dispensing of liquids. Declaration of conformity acc. to DIN 12600. *Hirschmann*

With patented, high-purity, alumino-ceramic pistons and highly polished, DURAN® glass cylinders, guaranteeing continual durability and precision.

- no surface abrasion
- no sticking due to plastic swelling
- no thermal expansion problems

Ratchet adjustment mechanism prevents accidental adjustment of the set volume. When not in use the pistons can be locked and the delivery tubes capped to prevent loss of reagent. The glass cylinders are encased in plastic for added safety and have a window for viewing the contents. Autoclavable up to max. 121 °C/2 bar.

- inlet and outlet valves are easily replaced
- fully supported delivery jet prevents 'side fling' of reagent
- screw-fixed, inlet suction tube
- High-grade materials (ECTFE, DURAN® glass, FEP) are used throughout.
- Discharge valves and valve seats consisting of high-purity aluminium oxide ceramic

Supplied with: complete with thread A 32 mm, 3 thread adapters (A 28, A 45, S 40), 1 screw-coupled suction tube, 1 discharge tube unit, one spanner for valve, with individual serial number and Single Calibration Report.



9.287 831

Volume ml	Graduations ml	Accuracy max. vol. (≤ ± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
0.2 - 1	0.05	0.6	0.2	1	9.287 831 1
0.4 - 2	0.05	0.6	0.2	1	9.287 832
1 - 5	0.10	0.6	0.2	1	9.287 833
2 - 10	0.25	0.6	0.2	1	9.287 834
5 - 30	0.50	0.6	0.2	1	9.287 835
10 - 60	1.00	0.6	0.2	1	9.287 836

Dispensers, bottle-top, ceramus®

2

New dispenser technology from Hirschmann laboratory apparatus, with ceramic pistons. ceramus® are a high-precision, bottle-top dispenser range for almost all liquids. *Hirschmann*

- Environmentally-friendly, reagent-saving, recirculation valves
- Tough, ceramic pistons
- Simple, self-locking volume selection
- When not in use, pistons can be locked and delivery tubes capped to prevent loss of reagent.
- Fixed interval graduations give excellent reproducibility
- 45mm screw neck and adapters supplied allow use with a variety of reservoir bottles
- Smooth-action piston minimises operator fatigue during serial dispensing
- High-grade construction materials provide long operational life
- autoclavable at 121°C

Supplied with: ceramus® complete with thread adapters A 45 mm, 3 thread adapters (A 32, S 40 Merck bottles and A 38), 1 screw-coupled suction tube, 1 discharge tube unit complete, 1 spanner for valve, with individual serial number and single calibration report.



9.287 801

Type	Volume ml	Graduations ml	Accuracy max. vol. (≤ ± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
Variable	0.2 - 1.0	0.05	0.6	0.2	1	9.287 800
Variable	0.4 - 2.0	0.05	0.6	0.2	1	9.287 801 2
Variable	1.0 - 5.0	0.1	0.6	0.2	1	9.287 802
Variable	2.0 - 10.0	0.25	0.6	0.2	1	9.287 803
Variable	5.0 - 30.0	0.5	0.6	0.2	1	9.287 804
Variable	10.0 - 60.0	1.0	0.6	0.2	1	9.287 805
Fixed	1.0	-	0.6	0.2	1	9.287 806
Fixed	2.0	-	0.6	0.2	1	9.287 807
Fixed	5.0	-	0.6	0.2	1	9.287 808
Fixed	10.0	-	0.6	0.2	1	9.287 809
Fixed	25.0	-	0.6	0.2	1	9.287 815
Fixed	50.0	-	0.6	0.2	1	9.287 816

8. Liquid Handling Dispensing/Bottletop dispensers

GENERAL CATALOGUE EDITION 20

Accessories for Hirschmann Dispenser ceramus® and opus®, Digital-Bürette solarus® and Titriergerät akku drive®

Hirschmann

Product	LLG code	suitable for opus®	ceramus®	solarus®	ceramus® classic up to 10 ml	ceramus® classic 30 + 60 ml
System platform	9.287 880	x				
Bottle support suitable for all bottles up to diam. approx. 75-120 mm	9.287 820	x	x	x		x
Data power cable 2 m	6.265 215	x				
Data power cable 5 m	6.265 216	x				
Connecting cable USB	9.287 758	x		x		
Connecting cable RS 232	9.287 756	x		x		
Foot-switch for starting the dosing operation	9.287 856	x				
Hand-key for starting the dosing operation	9.287 855	x				
Mouse for extremely sensitive titration	9.287 844	x				
Touch screen foil	6.265 217	x				
Light protection window for light sensitive media	7.940 234	x		x		
Spanner for valve	9.287 753	x	x	x	x	x
Round filter set with one-sided connection (5 pcs.)	9.283 965	x	x	x		
Discharge tube unit, flexible, spiral-shaped, FEP, 1.5 m	6.206 625	x	x	x		
Discharge tube unit, flexible, spiral-shaped, FEP, 3 m	9.287 755	x	x	x		
Discharge tube unit with Luer-Lock-connection, FEP/PFA	6.265 218					x
Discharge tube unit	7.200 408	x	x	x		
Titration discharge pointed, completely guided tube	9.287 754	opus® titration		x		
Thread adapter, from A 45 to A 32, PP	9.287 783	x	x	x		
Thread adapter, from A 45 to A 38, PP	9.287 784	x	x	x		
Thread adapter, from A 45 to S 40, PP	9.287 785	x	x	x		
Thread adapter, from A 45 to A 32, ETFE	9.287 786	x	x	x		
Thread adapter, from A 45 to A 38, ETFE	9.287 787	x	x	x		
Thread adapter, from A 45 to S 40, ETFE	9.287 788	x	x	x		
Discharge valve, glass valve seat/glass valve ball, spring from Hastelloy	6.270 983	x	x	x		x
Suction valve, glass valve seat/glass valve ball, spring from Hastelloy	6.270 984	x	x	x		x
Recirculation valve, glass valve seat/glass valve ball, spring from Hastelloy	6.270 985	x	x	x		
Suction tube FEP with screw 310 mm	9.287 851	x	x	x		x
Suction tube FEP with screw 400 mm	9.287 852	x	x	x		x
Screw coupled suction tube FEP 310 mm	6.056 430				x	
Screw coupled suction tube FEP 400 mm	6.239 205				x	
Suction tube FEP with screw 2 m	6.241 551	x	x	x		x
Suction tube FEP with screw 5 m	6.265 219	x	x	x		x
Recirculation tube, 2 m	6.241 552	x	x	x		x
Recirculation tube, 5 m	6.265 220	x	x	x		x

Price on request

1

Bottle holder for bottle-top dispenser ceramus® and digital burette solarus®

Suitable for all bottles up to diam. approx. 75 mm to 120 mm.

Hirschmann

Description	PK	Cat. No.
Bottle holder	1	9.287 820

1



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8. Liquid Handling Dispensing/Bottletop dispensers

GENERAL CATALOGUE EDITION 20



1 Bottle-top dispensers Dispensette® S

The Dispensette® S bottle-top dispenser combines the proven Dispensette® technology with new innovative features making liquid dosing easy and secure.

- New discharge tube, with and without recirculation valve
- New valve system - tight sealing without additional sealing rings
- Fast venting through improved aerodynamics
- Minimal force needed to operate - especially with high-volume devices
- Secure volume fixing with analog slide
- Rotatable screw cap closure - does not interfere with dosing
- New 1 ml dispenser - available as digital and analog version
- Autoclavable (121 °C)
- Easy to calibrate and adjust in order to comply with ISO 9001 and GLP guidelines
- Easy to disassemble for cleaning
- Removable filling and exhaust valve with safety bulb (closes when discharge tube is not mounted)
- To allow the bottle label to face the user, the valve block can be rotated by 360 °
- Telescope filling tube easily adjusts to different bottle sizes
- DE-M marking

Analog volume display, quickly adjustable dosing volume, securely fixed. Simple calibration adjustment with supplied tool.

Included items:

Bottletop dispensers Dispensette® S, DE-M marked and supplied with performance certificate, telescope filling tube, recirculation valve (optional), mounting tool and adapters made of PP.



2 Bottle-top dispenser Dispensette® Analog S

Red color code. Wide range of applications, ideal for dispensing aggressive reagents, e.g. concentrated bases and acids such as H₃PO₄, H₂SO₄ (except as HCl, HNO₃ and HF), saline solutions and a variety of organic solvents.

BRAND

Volume	Grad.	Accuracy max. vol.	Precision max. vol.	Recycle valve	PK	Cat. No.
ml	ml	(≤ ± R%)	(≤ CV%)			
0.1 - 1	0.02	0.6	0.2	without	1	9.284 380
0.1 - 1	0.02	0.6	0.2	with	1	9.284 381
0.2 - 1	0.05	0.5	0.1	without	1	9.284 459
0.2 - 1	0.05	0.5	0.1	with	1	9.284 462
0.5 - 5	0.10	0.5	0.1	without	1	9.284 384
0.5 - 5	0.10	0.5	0.1	with	1	9.284 385
1 - 10	0.20	0.5	0.1	without	1	9.284 386
1 - 10	0.20	0.5	0.1	with	1	9.284 387
2.5 - 25	0.50	0.5	0.1	without	1	9.284 388
2.5 - 25	0.50	0.5	0.1	with	1	9.284 389
5 - 50	1.00	0.5	0.1	without	1	9.284 390
5 - 50	1.00	0.5	0.1	with	1	9.284 391
10 - 100	1.00	0.5	0.1	without	1	9.284 392
10 - 100	1.00	0.5	0.1	with	1	9.284 393



3 Bottle-top dispenser Dispensette® S Fix

Red color code (applications see Dispensette® S Analog). Further fixed volumes are available on request

BRAND

Volume	Graduations	Accuracy max. vol.	Precision max. vol.	Recycle valve	PK	Cat. No.
ml	ml	(≤ ± R%)	(≤ CV%)			
1	-	0.6	0.2	without	1	9.284 394
1	-	0.6	0.2	with	1	9.284 395
2	-	0.5	0.1	without	1	9.284 396
2	-	0.5	0.1	with	1	9.284 397
5	-	0.5	0.1	without	1	9.284 398
5	-	0.5	0.1	with	1	9.284 399
10	-	0.5	0.1	without	1	9.284 402
10	-	0.5	0.1	with	1	9.284 456

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8. Liquid Handling Dispensing/Bottletop dispensers

1 Bottle-top dispenser Dispensette® Digital S

Red color code (applications see Dispensette® S Analog). Especially easy to read digital display.

BRAND

Volume	Grad.	Accuracy max. vol.	Precision max. vol.	Recycle valve	PK	Cat. No.
ml	ml	($\leq \pm R\%$)	($\leq CV\%$)			
0.1 - 1	0.005	0.6	0.2	without	1	9.284 382
0.1 - 1	0.005	0.6	0.2	with	1	9.284 383
0.2 - 2	0.01	0.5	0.1	without	1	9.284 407
0.2 - 2	0.01	0.5	0.1	with	1	9.284 408
0.5 - 5	0.02	0.5	0.1	without	1	9.284 409
0.5 - 5	0.02	0.5	0.1	with	1	9.284 412
1 - 10	0.05	0.5	0.1	without	1	9.284 413
1 - 10	0.05	0.5	0.1	with	1	9.284 416
2.5 - 25	0.10	0.5	0.1	without	1	9.284 417
2.5 - 25	0.10	0.5	0.1	with	1	9.284 419
5 - 50	0.20	0.5	0.1	without	1	9.284 422
5 - 50	0.20	0.5	0.1	with	1	9.284 423



2 Bottle-top dispenser Dispensette® Organic Analog S

Yellow color code. Ideal for dispensing organic solvents, e.g., chlorinated and fluorinated hydrocarbons such as trichlorotrifluoroethane and methylene chloride, or concentrated acids such as HCl and HNO₃ (not HF) as well as trifluoroacetic acid (TFA), tetrahydrofuran (THF) and peroxides.

BRAND

Volume	Grad.	Accuracy max. vol.	Precision max. vol.	Recycle valve	PK	Cat. No.
ml	ml	($\leq \pm R\%$)	($\leq CV\%$)			
0.5 - 5	0.1	0.5	0.1	without	1	9.284 426
0.5 - 5	0.1	0.5	0.1	with	1	9.284 427
1 - 10	0.2	0.5	0.1	without	1	9.284 428
1 - 10	0.2	0.5	0.1	with	1	9.284 429
2.5 - 25	0.5	0.5	0.1	without	1	9.284 432
2.5 - 25	0.5	0.5	0.1	with	1	9.284 433
5 - 50	1.0	0.5	0.1	without	1	9.284 436
5 - 50	1.0	0.5	0.1	with	1	9.284 437
10 - 100	1.0	0.5	0.1	without	1	9.284 438
10 - 100	1.0	0.5	0.1	with	1	9.284 439



3 Bottle-top dispenser Dispensette® Organic Fix S

Color code yellow (applications see Dispensette® S Organic Analog). Further fixed volumes are available on request.

BRAND

Volume	Grad.	Accuracy max. vol.	Precision max. vol.	Recycle valve	PK	Cat. No.
ml	ml	($\leq \pm R\%$)	($\leq CV\%$)			
5	-	0.5	0.1	without	1	9.284 442
5	-	0.5	0.1	with	1	9.284 443
10	-	0.5	0.1	without	1	9.284 446
10	-	0.5	0.1	with	1	9.284 447



4 Bottle-top dispenser Dispensette® Organic Digital S

Yellow color code (applications see Dispensette® S Organic Analog). Especially easy to read digital display

BRAND

Volume	Grad.	Accuracy max. vol.	Precision max. vol.	Recycle valve	PK	Cat. No.
ml	ml	($\leq \pm R\%$)	($\leq CV\%$)			
0.5 - 5	0.02	0.5	0.1	without	1	6.269 500
0.5 - 5	0.02	0.5	0.1	with	1	6.269 501
1 - 10	0.05	0.5	0.1	without	1	6.269 502
1 - 10	0.05	0.5	0.1	with	1	6.269 503
2.5 - 25	0.1	0.5	0.1	without	1	6.269 504
2.5 - 25	0.1	0.5	0.1	with	1	6.269 505
5 - 50	0.2	0.5	0.1	without	1	6.269 506
5 - 50	0.2	0.5	0.1	with	1	6.269 507



8. Liquid Handling Dispensing/Bottletop dispensers

GENERAL CATALOGUE EDITION 20



9.284 453

1 Bottle-top dispenser Dispensette® S Trace Analysis Analog

Dispensette® S Trace Analysis is ideal for precise volume dosing of high purity media for trace analysis. Can be used as hydrofluoric acid dispenser with Pt/Ir valve.

BRAND

Included items: Bottle-top dispenser Dispensette® S TA, DE-M marked and supplied with performance certificate, telescope filling tube, recirculation valve (optional), mounting tool and bottle adapters GL 28/S 28 (ETFE), GL 32 (ETFE) and S40 (PTFE), operating manual.

Volume ml	Grad. ml	Accuracy max. vol. ($\leq \pm R\%$)	Precision max. vol. ($\leq CV\%$)	Valve spring	Recycle valve	PK	Cat. No.
1 - 10	0.2	0.5	0.1	Pt / Ir	without	1	9.284 452
1 - 10	0.2	0.5	0.1	Pt / Ir	with	1	9.284 453 1
1 - 10	0.2	0.5	0.1	Tantalum	without	1	9.284 457
1 - 10	0.2	0.5	0.1	Tantalum	with	1	9.284 458



2 Bottle-top dispensers, seripettor®/seripettor® pro

The economy dispensers for routine dispensing.

BRAND

The seripettor® and seripettor® pro are innovative bottle-top dispensers with a special design.

A lifting spring provides automatic filling. When the piston seal is worn out, the entire dispensing unit can be exchanged by the user rapidly and easily, without tools. Eliminating expensive repairs!

- low-cost replaceable dispensing cartridge with wiping seal. One spare dispensing cartridge included.
- semi-automatic dispensing. The spring loaded piston refills the cylinder after dispensing.
- volume setting. Toothed setting track allows quick and precise adjustment of desired volume.
- disassembles without tools. All parts can be replaced quickly. The innovative design of seripettor®/seripettor® pro makes cleaning and maintenance easy
- fits most bottles

seripettor®

For dispensing alkaline, buffer and vitamin solutions, as well as culture media, e.g. agar nutrient medium, up to 60 °C.

seripettor® pro

Broader scope of application compared to the seripettor®; for dispensing many acidic, alkaline and saline solutions, and solvents.

Scope of supply: Discharge tube, filling tube, spare dispensing cartridge and adapters, PP (GL 45/32, GL 45/S40 and GL 45/38).

Type	Volume ml	Grad. ml	Accuracy max. vol. ($\leq \pm R\%$)	Precision max. vol. ($\leq CV\%$)	PK	Cat. No.
seripettor®	0.2 - 2	0.04	1.2	0.2	1	9.284 849
seripettor®	1 - 10	0.2	1.2	0.2	1	9.284 850
seripettor®	2.5 - 25	0.5	1.2	0.2	1	9.284 851
seripettor® pro	0.2 - 2	0.04	1.2	0.2	1	9.284 854
seripettor® pro	1 - 10	0.2	1.2	0.2	1	9.284 852
seripettor® pro	2.5 - 25	0.5	1.2	0.2	1	9.284 853

End test values relate to the nominal values (= max. volume) printed on the dispenser when the temperature (20 °C) of the device, environment and distilled water is uniform, and when operated smoothly.



3 Dispenser/bottle-top flasks, amber soda-lime glass

Amber soda-lime glass. With PP screw cap and LDPE pouring ring. Reservoir bottles. Space-saving, square design, except 2500 ml reservoir which is cylindrical.

BRAND

Capacity ml	Width mm	Height mm	Neck thread GL	PK	Cat. No.
100	50	125	32	1	9.284 541
250	65	160	32	1	9.284 542
500	80	195	32	1	9.284 543
1000	95	230	45	1	9.284 544
2500*	140	300	45	1	9.284 545

* cylindrical design

➔ More bottles please see page 58