

Dispensette® III
Dispensette® Organic
Dispensette® TA NEW!

The Dispensette® bottle-top dispenser has proven itself the world over with its wide range of practical applications. It has been continuously improved over decades to meet the increasing demands of the laboratory.



Dispensette®
Bottle-top Dispenser



Models The wide range of Dispensette® bottle-top dispensers provides premium dispensing options for the complete spectrum of liquid reagents:

Dispensette® III
(red color-code)

- Digital · Easy Calibration type
- Analog-adjustable type
- Fixed-volume type



For dispensing aggressive reagents

including concentrated acids such as H₃PO₄, H₂SO₄, bases like NaOH, KOH, saline solutions, as well as many organic solvents.

■ **Parts in contact with medium**

borosilicate glass, ceramic, platinum-iridium, ETFE, FEP, PFA, PTFE and PP (discharge tube safety screw cap)

■ **Operating limits**

vapor pressure max. 600 mbar
viscosity max. 500 mm²/s
temperature max. 40 °C
density max. 2.2 g/cm³

Dispensette® Organic
(yellow color-code)

- Digital · Easy Calibration type
- Analog-adjustable type
- Fixed-volume type



For dispensing organic solvents

including chlorinated and fluorinated hydrocarbons (e.g., trichlorotrifluoro-ethane and dichloromethane), concentrated acids such as HCl and HNO₃, trifluoroacetic acid (TFA), tetra-hydrofuran (THF) and peroxides.

■ **Parts in contact with medium**

borosilicate glass, ceramic, tantalum, ETFE, FEP, PFA, PTFE and PP (discharge tube safety screw cap)

■ **Operating limits**

vapor pressure max. 600 mbar
viscosity max. 500 mm²/s
temperature max. 40 °C
density max. 2.2 g/cm³

Areas of application

(For assistance in selecting a system, please see the guide on page 23)

Bases	Saline solutions	Acids	Organic solvents	
			polar	non-polar
Dispensette® III				
		Dispensette® Organic		

Note! For dispensing HF, we recommend the use of the Dispensette® TA bottle-top dispenser with platinum-iridium valve spring (Cat. No. 4740 041, page 32).

A Closer Look...

The Digital · Easy Calibration type has a digital display and all the features that make dispensing safer and convenient.

Mechanical/digital display

The mechanical volume setting is easy to read and ensures accurate and reproducible volume control.



Easy Calibration Technique

Calibration and adjustments according to ISO 9001 and GLP are done within seconds. Alteration of factory setting is automatically indicated by a red recalibration flag. For more information please see page 324.

SafetyPrime™ recirculation valve

The SafetyPrime™ recirculation valve (optional) reduces risk of splashes caused by air bubbles during instrument priming and permits recirculation during priming to avoid reagent waste. Valve control knob clearly indicates valve position.

Safety discharge system

The integrated safety discharge system reduces the risk of inadvertent dispensing and splashes if discharge tube is improperly installed or missing.

Easy to use

The minimal force needed to operate the floating piston makes serial dispensing convenient and effortless.

Rotating valve block

To allow the bottle label to face the user, the valve block can be rotated 360°. The 45 mm standard thread plus the included adapters fit common lab bottles.

Telescoping filling tube

Adjusts easily to different size bottles – without measuring or cutting.

Discharge tube safety screw cap

Screw cap protects against reagent contact and is easy to attach and remove, even while wearing gloves.



Use and Handling



One-handed operation

Each piston is matched individually with precise tolerances to its cylinder. A thin liquid film acts as a non-wearing seal that reduces friction, so dispensing is easy and convenient.



Dispensing sterile fluids

The instrument can be autoclaved at 121 °C and may be fitted with an optional micro-filter to prevent contamination of the bottle contents. Sterile technique must be followed.



Serial dispensing

To facilitate serial dispensing, the optional flexible discharge tube with safety handle permits fast and precise dispensing even into narrow test tubes. The functions of the safety discharge system and SafetyPrime™ recirculation valve are fully maintained with the flexible discharge tube.

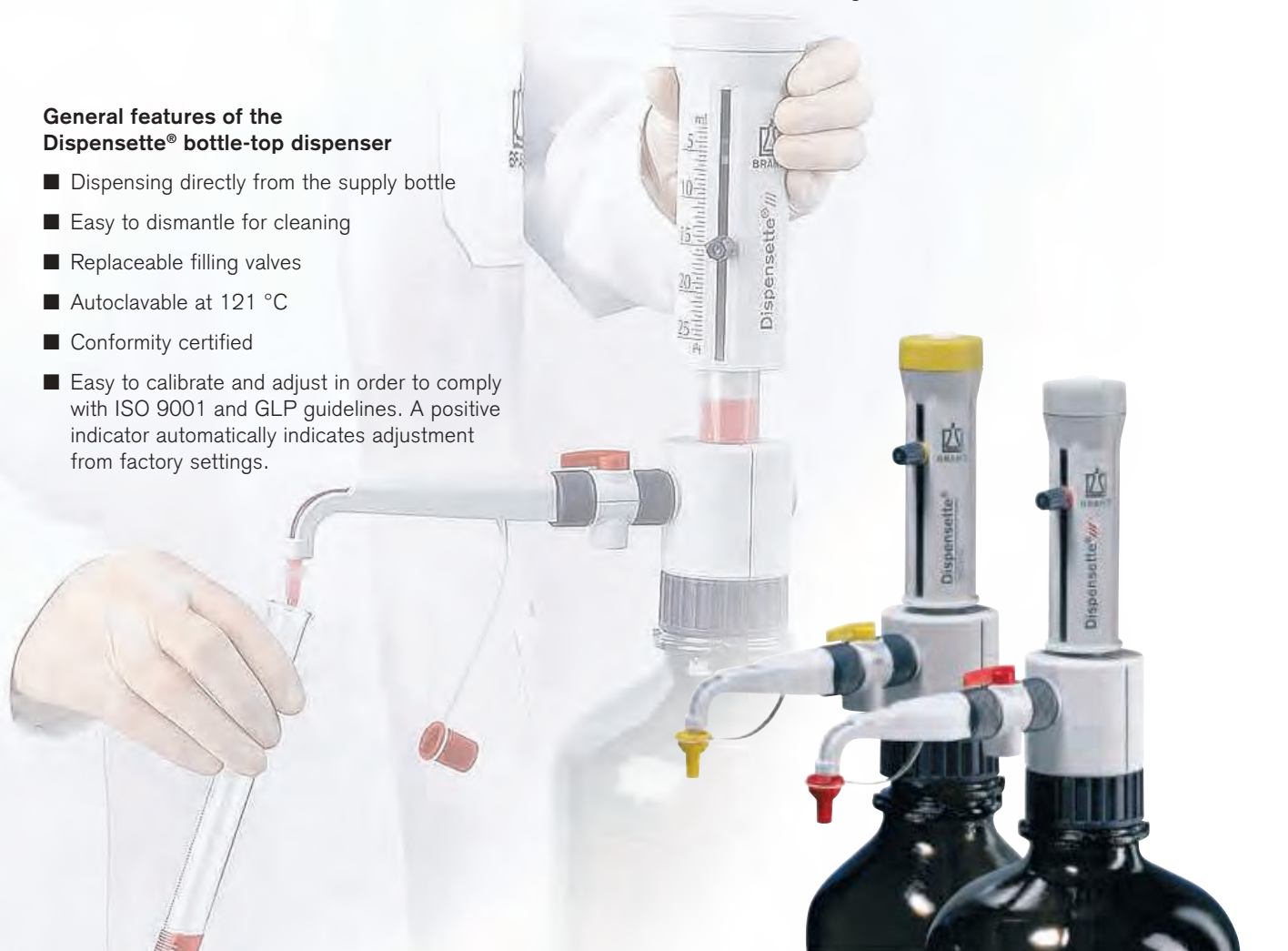


Dispensing sensitive reagents

The optional drying tube screws into the ventilation aperture at the rear of the instrument. Filled with a suitable absorbing agent, it can protect sensitive reagents against humidity or CO₂.

General features of the Dispensette® bottle-top dispenser

- Dispensing directly from the supply bottle
- Easy to dismantle for cleaning
- Replaceable filling valves
- Autoclavable at 121 °C
- Conformity certified
- Easy to calibrate and adjust in order to comply with ISO 9001 and GLP guidelines. A positive indicator automatically indicates adjustment from factory settings.




Dispenser Selection Chart

Reagent	Disp. III	Disp. Organic	Reagent	Disp. III	Disp. Organic	Reagent	Disp. III	Disp. Organic
Acetaldehyde	+	+	Cyclohexane		+	Methylene chloride		+
Acetic acid (glacial), 100%	+	+	Cyclohexanone	+	+	Mineral oil (Engine oil)	+	+
Acetic acid, 96%	+	+	Cyclopentane		+	Monochloroacetic acid	+	+
Acetic anhydride		+	Decane	+	+	Nitric acid, 30%	+	+
Acetone	+	+	1-Decanol	+	+	Nitric acid, 30-70% *		+
Acetonitrile	+	+	Dibenzyl ether	+	+	Nitrobenzene	+	+
Acetophenone		+	Dichloroacetic acid		+	Oleic acid	+	+
Acetyl chloride		+	Dichlorobenzene	+	+	Oxalic acid	+	
Acetylacetone	+	+	Dichloroethane		+	n-Pentane		+
Acrylic acid	+	+	Dichloroethylene		+	Peracetic acid		+
Acrylonitrile	+	+	Dichloromethane		+	Perchloric acid	+	+
Adipic acid	+		Diesel oil (Heating oil), bp 250-350 °C		+	Perchloroethylene		+
Allyl alcohol	+	+	Diethanolamine	+	+	Petroleum, bp 180-220 °C		+
Aluminium chloride	+		Diethyl ether		+	Petroleum ether, bp 40-70 °C		+
Amino acids	+		Diethylamine	+	+	Phenol	+	+
Ammonia, 20%	+	+	Diethylene glycol	+	+	Phenylethanol	+	+
Ammonia, 20-30%		+	1,2 Diethylbenzene	+	+	Phenylhydrazine	+	+
Ammonium chloride	+		Diethylene glycol	+	+	Phosphoric acid, 85%	+	+
Ammonium fluoride	+		Dimethyl sulfoxide (DMSO)	+	+	Phosphoric acid, 85% + Sulfuric acid, 98%, 1:1	+	+
Ammonium sulfate	+		Dimethylaniline	+		Piperidine	+	+
n-Amyl acetate	+	+	Dimethylformamide (DMF)	+	+	Potassium chloride	+	
Amyl alcohol (Pentanol)	+	+	1,4 Dioxane		+	Potassium dichromate	+	
Amyl chloride (Chloropentane)		+	Diphenyl ether	+	+	Potassium hydroxide	+	
Aniline	+	+	Essential oil		+	Potassium permanganate	+	
Barium chloride	+		Ethanol	+	+	Propionic acid	+	+
Benzaldehyde	+	+	Ethanolamine	+	+	Propylene glycol (Propanediol)	+	+
Benzene (Benzol)	+	+	Ethyl acetate	+	+	Pyridine	+	+
Benzine (Petroleum benzin), bp 70-180 °C		+	Ethylbenzene		+	Pyruvic acid	+	+
Benzoyl chloride	+	+	Ethylene chloride		+	Salicylaldehyde	+	+
Benzyl alcohol	+	+	Fluoroacetic acid		+	Scintillation fluid	+	+
Benzylamine	+	+	Formaldehyde, 40%	+		Silver acetate	+	
Benzylchloride	+	+	Formamide	+	+	Silver nitrate	+	
Boric acid, 10%	+	+	Formic acid, 100%		+	Sodium acetate	+	
Bromobenzene	+	+	Glycerol	+	+	Sodium chloride	+	
Bromonaphthalene	+	+	Glycol (Ethylene glycol)	+	+	Sodium dichromate	+	
Butanediol	+	+	Glycolic acid, 50%	+		Sodium fluoride	+	
1-Butanol	+	+	Heating oil (Diesel oil), bp 250-350 °C		+	Sodium hydroxide, 30%	+	
n-Butyl acetate	+	+	Heptane		+	Sodium hypochlorite	+	
Butyl methyl ether	+	+	Hexane		+	Sulfuric acid, 98%	+	+
Butylamine	+	+	Hexanoic acid	+	+	Tartaric acid	+	
Butyric acid	+	+	Hexanol	+	+	Tetrachloroethylene		+
Calcium carbonate	+		Hydriodic acid	+	+	Tetrahydrofuran (THF) **/**		+
Calcium chloride	+		Hydrobromic acid		+	Tetramethylammonium hydroxide	+	
Calcium hydroxide	+		Hydrochloric acid, 20%	+	+	Toluene		+
Calcium hypochlorite	+		Hydrochloric acid, 20-37 %		+	Trichloroacetic acid		+
Carbon tetrachloride		+	Hydrogen peroxide, 35%		+	Trichlorobenzene		+
Chloro naphthalene	+	+	Isoamyl alcohol	+	+	Trichloroethane		+
Chloroacetaldehyde, 45%	+	+	Isobutanol	+	+	Trichloroethylene		+
Chloroacetic acid	+	+	Isocetane		+	Trichlorotrifluoro ethane		+
Chloroacetone	+	+	Isopropanol (2-Propanol)	+	+	Triethanolamine	+	+
Chlorobenzene	+	+	Isopropyl ether	+	+	Triethylene glycol	+	+
Chlorobutane	+	+	Lactic acid	+		Trifluoro ethane		+
Chloroform		+	Methanol	+	+	Trifluoroacetic acid (TFA)		+
Chlorosulfonic acid		+	Methoxybenzene	+	+	Turpentine		+
Chromic acid, 50%	+	+	Methyl benzoate	+	+	Urea	+	
Chromosulfuric acid	+		Methyl butyl ether	+	+	Xylene		+
Copper sulfate	+		Methyl ethyl ketone	+	+	Zinc chloride, 10%	+	
Cresol		+	Methyl formate	+	+	Zinc sulfate, 10%	+	
Cumene (Isopropyl benzene)	+	+	Methyl propyl ketone	+	+			

The above recommendations reflect testing completed prior to publication. Always follow instructions in the operating manual of the instrument as well as the reagent manufacturer's specifications. In addition to these chemicals, a variety of organic and inorganic saline solutions (e.g., biological buffers), biological detergents and media for cell culture can be dispensed. Should you require information on chemicals not listed, please feel free to contact BRAND. Status as of: 0713/12

* use ETFE/PTFE bottle adapter

** use PTFE seal

Note!  For dispensing HF, we recommend the use of the Dispensette® TA bottle-top dispenser with platinum-iridium valve spring (Cat. No. 4740 041, page 32).

Ordering Data

Items supplied:

Each Dispensette® bottle-top dispenser is conformity certified and supplied with performance certificate, discharge tube, telescoping filling tube, SafetyPrime™ recirculation valve (optional), mounting tool and adapters of polypropylene:

Dispensette® nominal volume, ml	Adapter for bottle thread	Filling tube length, mm
0.5	GL 25, GL 28, GL 32	125-240
1, 2, 5, 10	GL 25, GL 28, GL 32, GL 38, S 40	125-240
25, 50, 100	GL 32, GL 38, S 40	170-330

Dispensette® III, Digital · Easy Calibration

Capacity ml	Subdivision ml	A* ≤ ± %	μl	CV* ≤ %	μl	without SafetyPrime™ recirculation valve Cat. No.	with SafetyPrime™ recirculation valve Cat. No.
0.2 - 2	0.01	0.5	10	0.1	2	4700 320	4700 321
0.5 - 5	0.02	0.5	25	0.1	5	4700 330	4700 331
1 - 10	0.05	0.5	50	0.1	10	4700 340	4700 341
2.5 - 25	0.1	0.5	125	0.1	25	4700 350	4700 351
5 - 50	0.2	0.5	250	0.1	50	4700 360	4700 361



Dispensette® III, Analog-adjustable

Capacity ml	Subdivision ml	A* ≤ ± %	μl	CV* ≤ %	μl	without SafetyPrime™ recirculation valve Cat. No.	with SafetyPrime™ recirculation valve Cat. No.
0.05 - 0.5	0.01	1.0	5	0.2	1	4700 100	4700 101
0.2 - 2	0.05	0.5	10	0.1	2	4700 120	4700 121
0.5 - 5	0.1	0.5	25	0.1	5	4700 130	4700 131
1 - 10	0.2	0.5	50	0.1	10	4700 140	4700 141
2.5 - 25	0.5	0.5	125	0.1	25	4700 150	4700 151
5 - 50	1.0	0.5	250	0.1	50	4700 160	4700 161
10 - 100	1.0	0.5	500	0.1	100	4700 170	4700 171



Dispensette® III, Fixed-volume

Capacity ml	A* ≤ ± %	μl	CV* ≤ %	μl	without SafetyPrime™ recirculation valve Cat. No.	with SafetyPrime™ recirculation valve Cat. No.
1	0.5	5	0.1	1	4700 210	4700 211
2	0.5	10	0.1	2	4700 220	4700 221
5	0.5	25	0.1	5	4700 230	4700 231
10	0.5	50	0.1	10	4700 240	4700 241
Special fixed volumes: 0.5-100 ml (please state when ordering)					4700 290	4700 291



* Calibrated to deliver (TD, Ex). Error limits according to the nominal capacity (= maximum volume) indicated on the instrument, obtained with instrument and distilled water at equilibrium with ambient temperature at 20 °C, and with smooth, steady operation. The error limits are well within the limits of DIN EN ISO 8655-5. Conformity certified to DIN 12600. A = Accuracy, CV = Coefficient of variation

Dispensette® Organic, Digital · Easy Calibration

Capacity ml	Subdivision ml	A* ≤ ±		CV* ≤		without SafetyPrime™	with SafetyPrime™
		%	µl	%	µl	recirculation valve Cat. No.	recirculation valve Cat. No.
0.5 - 5	0.02	0.5	25	0.1	5	4730 330	4730 331
1 - 10	0.05	0.5	50	0.1	10	4730 340	4730 341
2.5 - 25	0.1	0.5	125	0.1	25	4730 350	4730 351
5 - 50	0.2	0.5	250	0.1	50	4730 360	4730 361


Dispensette® Organic, Analog

Capacity ml	Subdivision ml	A* ≤ ±		CV* ≤		without SafetyPrime™	with SafetyPrime™
		%	µl	%	µl	recirculation valve Cat. No.	recirculation valve Cat. No.
0.5 - 5	0.1	0.5	25	0.1	5	4730 130	4730 131
1 - 10	0.2	0.5	50	0.1	10	4730 140	4730 141
2.5 - 25	0.5	0.5	125	0.1	25	4730 150	4730 151
5 - 50	1.0	0.5	250	0.1	50	4730 160	4730 161
10 - 100	1.0	0.5	500	0.1	100	4730 170	4730 171

Dispensette® Organic, Fix

Capacity ml	A* ≤ ±		CV* ≤		without SafetyPrime™	with SafetyPrime™
	%	µl	%	µl	recirculation valve Cat. No.	recirculation valve Cat. No.
5	0.5	25	0.1	5	4730 230	4730 231
10	0.5	50	0.1	10	4730 240	4730 241
Special fixed volumes: 2-100 ml (please state when ordering)					4730 290	4730 291

* Calibrated to deliver (TD, Ex). Error limits according to the nominal capacity (= maximum volume) indicated on the instrument, obtained with instrument and distilled water at equilibrium with ambient temperature at 20 °C, and with smooth, steady operation. The error limits are well within the limits of DIN EN ISO 8655-5. Conformity certified to DIN 12600. A = Accuracy, CV = Coefficient of variation

Note!  When ordering instruments with DAkkS calibration certificates, the prefix 'DAkkS' must be added to the order number, e.g., DAkkS 4700 321.

BRAND also offers calibration service at the factory lab. For more information, please see page 326.



Accessories and Spare Parts

(Other spare parts and accessories can be found in the operating manual.)

Discharge tubes with integrated valve

Pack of 1.



Description	Nominal volume ml	Shape	Length mm	Cat. No.
■ for Dispensette® III	0.5, 1, 2, 5, 10	fine tip	90	7079 15
	5, 10	standard	90	7079 16
	25, 50, 100	standard	120	7079 17
■ for Dispensette® Organic	25, 50, 100	fine tip	120	7079 18
	0.5, 1, 2, 5, 10	fine tip	90	7079 35
	5, 10	standard	90	7079 36
	25, 50, 100	standard	120	7079 37
	25, 50, 100	fine tip	120	7079 38

Bottle adapters

For Dispensette®, Titrette®, seripettor® and QuikSip™.

PP or ETFE. Adapters of ETFE offer higher chemical resistance. Pack of 1.



Outer thread	for bottle thread/ ground joint	Material	Cat. No.
GL 32	GL 25	PP	7043 25
GL 32	GL 28 / S 28	PP	7043 28
GL 32	GL 30	PP	7043 30
GL 32	GL 45	PP	7043 45
GL 45	GL 32	PP	7043 96
GL 45	GL 35	PP	7044 31
GL 45	GL 38	PP	7043 97
GL 45	S* 40	PP	7043 43
GL 45	S* 54	PP	7044 30
GL 45	S* 60	PP	7043 48
GL 32	GL 25	ETFE	7043 75
GL 32	GL 28 / S 28	ETFE	7043 78
GL 32	GL 30	ETFE	7043 80
GL 32	GL 45	ETFE	7043 95
GL 45	GL 32	ETFE	7043 98
GL 45	GL 38	ETFE	7043 99
GL 45	S* 40	PTFE	7043 91
GL 32	NS 19/26	PP	7044 19
GL 32	NS 24/29	PP	7044 24
GL 32	NS 29/32	PP	7044 29

* buttress thread

SafetyPrime™ recirculation valves

Pack of 1.



Description	Cat. No.
■ for Dispensette® III 1-100 ml	7060 80
■ for Dispensette® III 0.5 ml	7060 81
■ for Dispensette® Organic	7060 90

Discharge tube with Luer-Lock attachment for micro filter

FEP/PP.
Pack of 1.



Cat. No. **7079 28***

* not suitable for HF and Peroxide

Bottle Stand

PP. Full plastic material – suitable for use in aggressive environment (e.g., acid fumes in the hood). Support rod 325 mm, base plate 220 x 160 mm, weight 1130 g. Pack of 1.

Cat. No. **7042 75**



Threaded bottles, coated and uncoated, see page 299.

Telescoping filling tubes

FEP. Adjusts to various bottle heights.
Pack of 1.



Nominal volume ml	Outer Ø mm	Length mm	Cat. No.
0.5, 1, 2, 5, 10	6	70-140	7042 02
		125-240	7042 03
		195-350	7042 08
		250-480	7042 01
25, 50, 100	7.6	170-330	7042 04
		250-480	7042 05

Flexible discharge tubing

PTFE, coiled, length 800 mm, with safety handle.
Pack of 1.



Nominal volume ml	Discharge tube		Cat. No.
	Outer Ø mm	Inner Ø mm	
1, 2, 5, 10	3	2	7079 25*
25, 50, 100	4.5	3	7079 26*

* not suitable for HF and Peroxide

Filling valve with sealing washer

Pack of 1.



Description	Nominal volume ml	Cat. No.
for Dispensette® III, Dispensette® Organic	0.5, 1, 2, 5, 10	6697
for Dispensette® III, Dispensette® Organic	25, 50, 100	6698

Filling valve with olive-shaped nozzle made of PEEK

For frequent autoclaving with the filling tube mounted, this filling valve with tube nozzle is recommended. PEEK has limited chemical resistance!
Pack of 1.



Description	Nominal volume ml	Cat. No.
for Dispensette® III, Dispensette® Organic	0.5, 1, 2, 5, 10	6637
for Dispensette® III, Dispensette® Organic	25, 50, 100	6638

Seals

PTFE. Spare seals for discharge tube, SafetyPrime™ and filling valve.
Pack of 5 each type.

Cat. No. **6696**



Seal for valve block

PTFE. For highly volatile reagents.
Pack of 1.

Cat. No. **7044 86**



Air vent cap for micro filter with Luer-cone

PP. Air vent cap and PTFE-sealing ring.
Pack of 1 each.

Cat. No. **7044 95**



Drying tube

Drying tube and seal, without drying agent. Pack of 1.

Cat. No. **7079 30**



Remote Dispensing System for Drum Dispensing

for Dispensette® III and Dispensette® Organic

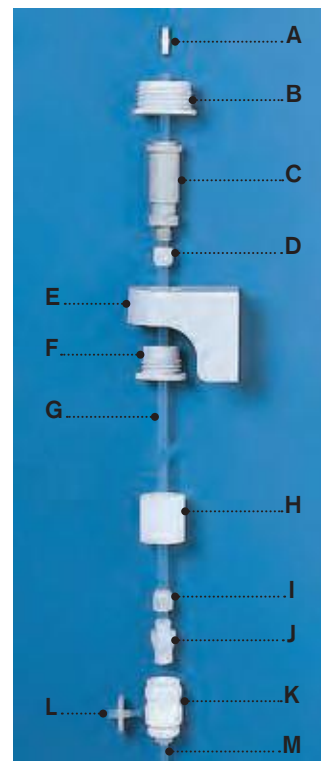
- Dispense accurate volumes directly from drums and bulk refills
- The Dispensette® can be mounted on a wall, a ring stand or on lab furniture
- A filter in the drum adapter minimizes risk of contaminating high-purity reagents
- A quick-release connector with integrated valves allows quick changing of the bulk container
- The remote dispensing system allows storage of the drum up to 10 meters (30 feet) away from the Dispensette®. The max. delivery height is approximately 1.2 m.

Standard supply:

without Dispensette®, for drums with 3/4" inner thread, consisting of:

- A) Plug-in adapter, PTFE (only for Dispensettes ≤ 10 ml)
- B) Thread adapter, PP (GL 45/32)
- C) Strain relief, PP
- D) Locking screw, ETFE
- E) Wall mounting unit, PP
- F) Thread adapter, PP (GL 32/28)
- G) Filling tube, FEP, 3 m, outer Ø 7.6 mm
- H) Mounting screw, PTFE
- I) Locking screw, ETFE
- J) Coupling, ETFE, with ball valve
- K) Drum adapter, PTFE, for drums with inner-thread of 3/4", with ball valve (incl. closure cap)
- L) Membrane filter, 3 µm, non-sterile
- M) Filling tube, 0.47 m, outer Ø 6.9 mm

Note!  Observe all Safety Instructions, Operating Exclusions and Limitations of the Dispensette® III and the Dispensette® Organic.



Cat. No. 7042 61

* not suitable for HF and Peroxide

Operating Exclusions

Never use the remote dispensing system:

1. with SafetyPrime™ recirculation valve. It has to be removed before use!
2. for pressurized vessels
3. for liquids attacking borosilicate glass, Al₂O₃-ceramic, PFA, ETFE, FEP or PTFE
4. for Peroxide (due to catalytic reaction)
5. for carbon disulfide (CS₂), due to risk of explosion!

Accessories

Description	Dimensions	Cat. No.
Filling tube, FEP	10 m, outer Ø 7.6 mm	7042 67
Filling tube, FEP	1 m, outer Ø 6.9 mm	7042 69
Filling tube, FEP	1.5 m, outer Ø 6.0 mm	7042 09
Filling tube, FEP	1.5 m, outer Ø 7.6 mm	7042 10
Thread adapter, steel	outer thread 2", inner thread 3/4"	7042 70
Thread adapter, PTFE, for direct mounting of Dispensette® on drum	outer thread 3/4", outer thread GL 32	7042 81
Thread adapter, PTFE, to connect remote dispensing system with drums with GL outer thread	inner thread 3/4", inner thread GL 32	7042 82
Support rod connector for wall mounting unit		7042 68
Shelf clamp for wall mounting unit		7042 72



Support rod connector



Shelf clamp