

# Dispensette® S

Bottle-top Dispenser



Minimum operating forces,  
maximum ease of volume setting.

Proven durability for tough  
operating and media conditions.

Number one in  
bottle-top dispensing.



**BRAND. For lab. For life.**



# Dispensette® S

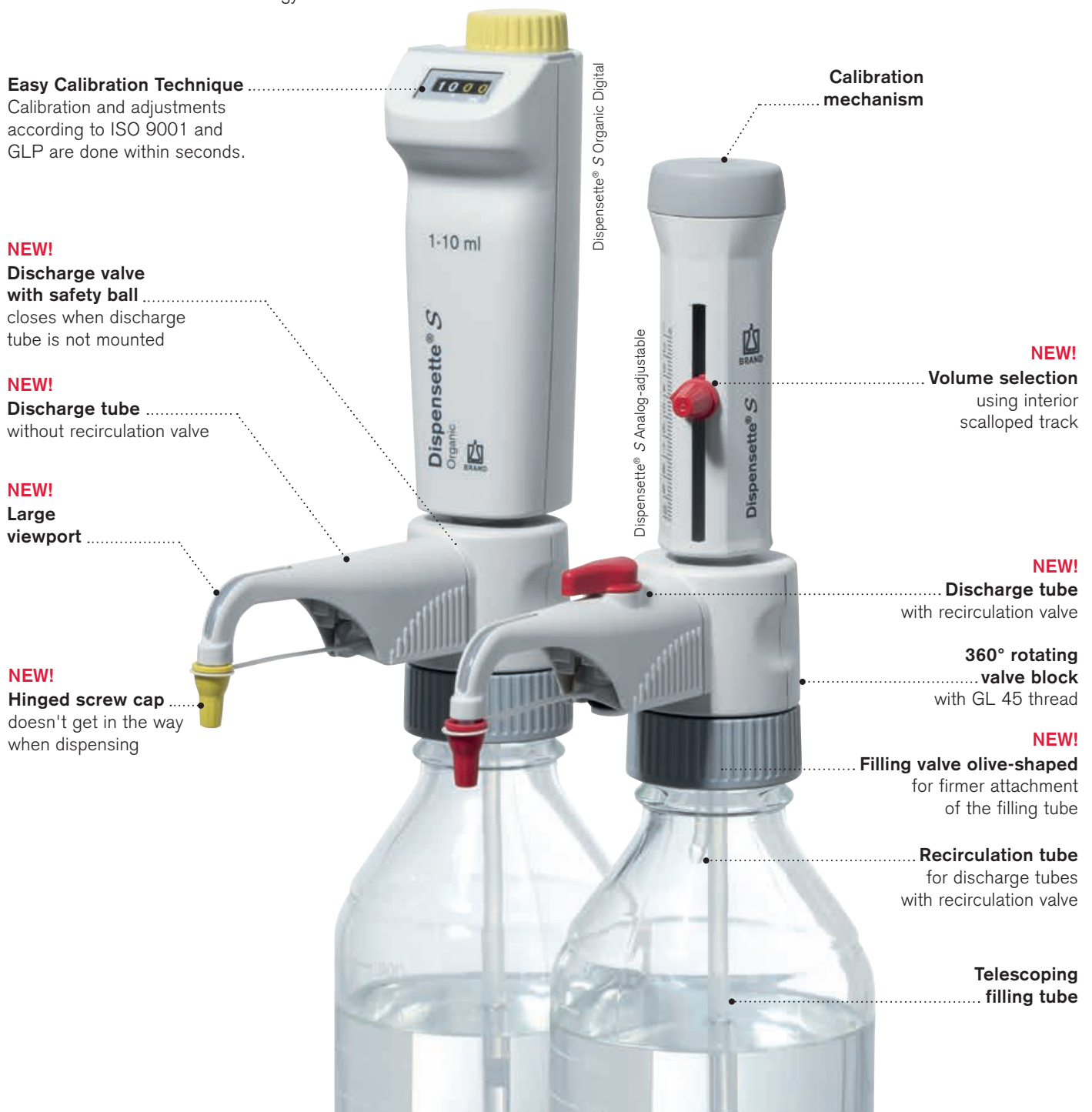
Innovative ideas with trusted technology – the new bottle-top dispenser Dispensette® S.

- New discharge tube with or without recirculation valve
- New valve system, no sealing rings necessary
- Faster priming due to improved flow technology
- Less force needed during dispensing especially for instruments with large volumes
- Volume selection with interior scalloped track for analog devices, enhances setting reproducibility
- New 1 ml size digital and analog

## A Closer Look...

The bottle-top dispenser Dispensette® S has all the features that make dispensing safer and convenient.

Innovative ideas – trusted technology.



### Easy Calibration Technique

Calibration and adjustments according to ISO 9001 and GLP are done within seconds.

### NEW!

#### Discharge valve with safety ball

closes when discharge tube is not mounted

### NEW!

#### Discharge tube without recirculation valve

### NEW!

#### Large viewport

### NEW!

#### Hinged screw cap

doesn't get in the way when dispensing

### Calibration mechanism

### NEW!

#### Volume selection

using interior scalloped track

### NEW!

#### Discharge tube with recirculation valve

#### 360° rotating

valve block with GL 45 thread

### NEW!

#### Filling valve olive-shaped

for firmer attachment of the filling tube

#### Recirculation tube

for discharge tubes with recirculation valve

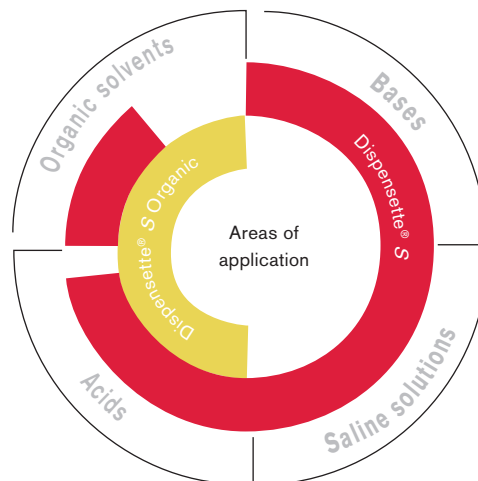
#### Telescoping

filling tube



# The right choice

for a wide variety of applications



## ● Dispensette® S

Dispensette® S supports a very wide range of applications for the dispensing of aggressive reagents – directly from the supply bottle:

such as concentrated bases and acids like  $H_3PO_4$ ,  $H_2SO_4$  (with certain exceptions such as HCl,  $HNO_3$ , HF, etc.), saline solutions, and a variety of organic solvents.

## ● Dispensette® S Organic

Dispensette® S Organic is ideal for dispensing organic solvents: such as chlorinated and fluorinated hydrocarbons like trichloroethane and dichloromethane, or acids like concentrated HCl and  $HNO_3$  (except for HF), as well as for trifluoroacetic acid (TFA), tetrahydrofuran (THF), and peroxides.



For dispensing hydrofluoric acid (HF), we recommend the use of the **Dispensette® S Trace Analysis** bottle-top dispenser with platinum-iridium valve spring!

Please find further product information at [www.brand.de](http://www.brand.de)

## Materials in contact with media

● Borosilicate glass,  $Al_2O_3$ -ceramic, platinum-iridium, ETFE, FEP, PFA, PTFE and PP

● Borosilicate glass,  $Al_2O_3$ -ceramic, tantalum, ETFE, FEP, PFA, PTFE and PP

## Operating limits

● Vapor pressure max. 600 mbar  
viscosity max. 500 mm<sup>2</sup>/s  
temperature max. 40 °C  
density max. 2.2 g/cm<sup>3</sup>

● Vapor pressure max. 600 mbar  
viscosity max. 500 mm<sup>2</sup>/s  
temperature max. 40 °C  
density max. 2.2 g/cm<sup>3</sup>



# Easy Handling

## Easier dispensing and faster priming

In the "floating piston" design, the pistons and cylinders are fitted individually in such a way that the gap between them is just a few micrometers wide. This gap is filled by the fluid being dispensed, forming a zero-wear sealing system with outstanding sliding properties. Optimized flow channels make dispensing and priming even easier – especially in instruments with large volumes.



### **NEW!** Simple to mount

The new discharge tube is easy to fasten and is available with or without a recirculation valve.



### **NEW!** Positive volume setting

In analog dispensers, volume setting is quick, secure and repeatable due to the interior scalloped track.



### **NEW!** Out of the way

So it doesn't impede you while dispensing, the screw cap pivots entirely away from the working area.

# Trusted technology



## NEW!

### Designed without seals


All valves work without any additional sealing rings. That makes cleaning and preparation for autoclaving easier.



### Fast calibration

With Easy Calibration technique, you can calibrate quickly and easily in the laboratory in just a few steps. BRAND also offers a factory calibration service.

- Autoclavable at 121 °C
- Easy to calibrate and adjust in order to comply with ISO 9001 and GLP guidelines. A positive indicator automatically indicates adjustment from factory settings.
- Easy to dismantle for cleaning
- Replaceable filling and discharge valve with safety ball
- The valve block can be rotated 360° so that the bottle label always faces the user for safety
- Telescoping filling tube adjusts to different bottle sizes
- The 45 mm standard thread plus the included adapters fit common lab bottles
- An extensive line of accessories makes possible special dispensing tasks like sterile applications or dispensing from large containers
- DE-M marking\*

\* legally replaces  since January 1, 2015

### Serial dispensing

The flexible discharge tube facilitates serial dispensing. It permits fast and precise dispensing even into narrow test tubes.



### Dispensing sterile fluids

Dispensette® S Organic and Dispensette® S are completely autoclavable at 121 °C. A connectable microfilter filters the air entering the bottle.



### Dispensing sensitive reagents

The drying tube protects sensitive reagents against humidity or CO<sub>2</sub>.



# Dispenser Selection Chart


Reagent	Dispensette® S	
	Dispensette® S	Organic
Acetaldehyde	+	+
Acetic acid (glacial), 100%	+	+
Acetic acid, ≤ 96%	+	+
Acetic anhydride	+	+
Acetone	+	+
Acetonitrile	+	+
Acetophenone	+	+
Acetyl chloride	+	+
Acetylacetone	+	+
Acrylic acid	+	+
Acrylonitrile	+	+
Adipic acid	+	+
Allyl alcohol	+	+
Aluminium chloride	+	+
Amino acids	+	+
Ammonia, ≤ 20%	+	+
Ammonia, 20-30%	+	+
Ammonium chloride	+	+
Ammonium fluoride	+	+
Ammonium sulfate	+	+
n-Amyl acetate	+	+
Amyl alcohol (Pentanol)	+	+
Amyl chloride (Chloropentane)	+	+
Aniline	+	+
Barium chloride	+	+
Benzaldehyde	+	+
Benzene (Benzol)	+	+
Benzine (Petroleum benzin), bp 70-180 °C	+	+
Benzoyl chloride	+	+
Benzyl alcohol	+	+
Benzylamine	+	+
Benzylchloride	+	+
Boric acid, ≤ 10%	+	+
Bromobenzene	+	+
Bromonaphthalene	+	+
Butanediol	+	+
1-Butanol	+	+
n-Butyl acetate	+	+
Butyl methyl ether	+	+
Butylamine	+	+
Butyric acid	+	+
Calcium carbonate	+	+
Calcium chloride	+	+
Calcium hydroxide	+	+
Calcium hypochlorite	+	+
Carbon tetrachloride	+	+
Chloro naphthalene	+	+
Chloroacetaldehyde, ≤ 45%	+	+
Chloroacetic acid	+	+
Chloroacetone	+	+
Chlorobenzene	+	+
Chlorobutane	+	+
Chloroform	+	+
Chlorosulfonic acid	+	+
Chromic acid, ≤ 50%	+	+
Chromosulfuric acid	+	+
Copper sulfate	+	+
Cresol	+	+
Cumene (Isopropyl benzene)	+	+

Reagent	Dispensette® S	
	Dispensette® S	Organic
Cyclohexane	+	+
Cyclohexanone	+	+
Cyclopentane	+	+
Decane	+	+
1-Decanol	+	+
Dibenzyl ether	+	+
Dichloroacetic acid	+	+
Dichlorobenzene	+	+
Dichloroethane	+	+
Dichloroethylene	+	+
Dichloromethane	+	+
Diesel oil (Heating oil), bp 250-350 °C	+	+
Diethanolamine	+	+
Diethyl ether	+	+
Diethylamine	+	+
1,2 Diethylbenzene	+	+
Diethylene glycol	+	+
Dimethyl sulfoxide (DMSO)	+	+
Dimethylaniline	+	+
Dimethylformamide (DMF)	+	+
1,4 Dioxane	+	+
Diphenyl ether	+	+
Essential oil	+	+
Ethanol	+	+
Ethanolamine	+	+
Ethyl acetate	+	+
Ethylbenzene	+	+
Ethylene chloride	+	+
Fluoroacetic acid	+	+
Formaldehyde, ≤ 40%	+	+
Formamide	+	+
Formic acid, ≤ 100%	+	+
Glycerol	+	+
Glycol (Ethylene glycol)	+	+
Glycolic acid, ≤ 50%	+	+
Heating oil (Diesel oil), bp 250-350 °C	+	+
Heptane	+	+
Hexane	+	+
Hexanoic acid	+	+
Hexanol	+	+
Hydriodic acid, ≤ 57% **	+	+
Hydrobromic acid	+	+
Hydrochloric acid, ≤ 20%	+	+
Hydrochloric acid, 20-37% **	+	+
Hydrogen peroxide, ≤ 35%	+	+
Isoamyl alcohol	+	+
Isobutanol	+	+
Isooctane	+	+
Isopropanol (2-Propanol)	+	+
Isopropyl ether	+	+
Lactic acid	+	+
Methanol	+	+
Methoxybenzene	+	+
Methyl benzoate	+	+
Methyl butyl ether	+	+
Methyl ethyl ketone	+	+
Methyl formate	+	+
Methyl propyl ketone	+	+

Reagent	Dispensette® S	
	Dispensette® S	Organic
Methylene chloride	+	+
Mineral oil (Engine oil)	+	+
Monochloroacetic acid	+	+
Nitric acid, ≤ 30%	+	+
Nitric acid, 30-70% */ **	+	+
Nitrobenzene	+	+
Oleic acid	+	+
Oxalic acid	+	+
n-Pentane	+	+
Peracetic acid	+	+
Perchloric acid	+	+
Perchloroethylene	+	+
Petroleum, bp 180-220 °C	+	+
Petroleum ether, bp 40-70 °C	+	+
Phenol	+	+
Phenylethanol	+	+
Phenylhydrazine	+	+
Phosphoric acid, ≤ 85%	+	+
Phosphoric acid, 85% + Sulfuric acid, 98%, 1:1	+	+
Piperidine	+	+
Potassium chloride	+	+
Potassium dichromate	+	+
Potassium hydroxide	+	+
Potassium permanganate	+	+
Propionic acid	+	+
Propylene glycol (Propanediol)	+	+
Pyridine	+	+
Pyruvic acid	+	+
Salicylaldehyde	+	+
Scintillation fluid	+	+
Silver acetate	+	+
Silver nitrate	+	+
Sodium acetate	+	+
Sodium chloride	+	+
Sodium dichromate	+	+
Sodium fluoride	+	+
Sodium hydroxide, ≤ 30%	+	+
Sodium hypochlorite	+	+
Sulfuric acid, ≤ 98%	+	+
Tartaric acid	+	+
Tetrachloroethylene	+	+
Tetrahydrofuran (THF) */ **	+	+
Tetramethylammonium hydroxide	+	+
Toluene	+	+
Trichloroacetic acid	+	+
Trichlorobenzene	+	+
Trichloroethane	+	+
Trichloroethylene	+	+
Trichlorotrifluoro ethane	+	+
Triethanolamine	+	+
Triethylene glycol	+	+
Trifluoro ethane	+	+
Trifluoroacetic acid (TFA)	+	+
Turpentine	+	+
Urea	+	+
Xylene	+	+
Zinc chloride, ≤ 10%	+	+
Zinc sulfate, ≤ 10%	+	+

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: 1116/13

\* use ETFE/PTFE bottle adapter  
 \*\* use PTFE seal for valve block

**Note!**  For dispensing HF, we recommend the use of the Dispensette® S Trace Analysis bottle-top dispenser with platinum-iridium valve spring.



# Ordering Information

## Items supplied:

Dispensette® S / Dispensette® S Organic bottle-top dispenser, DE-M marking, performance certificate, telescoping filling tube, recirculation tube (optional), mounting tool and adapters of polypropylene:

Nominal volume ml	Adapter for bottle thread	Filling tube length
1, 2, 5, 10	GL 24-25, GL 28/S 28, GL 32-33, GL 38, S 40	125-240 mm
25, 50, 100	GL 32-33, GL 38, S 40	170-330 mm

## Dispensette® S

Capacity ml	Subdivision ml	A* ≤ ±		CV* ≤		without recirculation valve Cat. No.	with recirculation valve Cat. No.
		%	µl	%	µl		

### ■ Dispensette® S, Digital

0.1 - 1	0.005	0.6	6	0.2	2	4600 310	4600 311
0.2 - 2	0.01	0.5	10	0.1	2	4600 320	4600 321
0.5 - 5	0.02	0.5	25	0.1	5	4600 330	4600 331
1 - 10	0.05	0.5	50	0.1	10	4600 340	4600 341
2.5 - 25	0.1	0.5	125	0.1	25	4600 350	4600 351
5 - 50	0.2	0.5	250	0.1	50	4600 360	4600 361

### ■ Dispensette® S, Analog-adjustable

0.1 - 1	0.02	0.6	6	0.2	2	4600 100	4600 101
0.2 - 2	0.05	0.5	10	0.1	2	4600 120	4600 121
0.5 - 5	0.1	0.5	25	0.1	5	4600 130	4600 131
1 - 10	0.2	0.5	50	0.1	10	4600 140	4600 141
2.5 - 25	0.5	0.5	125	0.1	25	4600 150	4600 151
5 - 50	1.0	0.5	250	0.1	50	4600 160	4600 161
10 - 100	1.0	0.5	500	0.1	100	4600 170	4600 171

### ■ Dispensette® S, Fixed-volume

1		0.6	6	0.2	2	4600 210	4600 211
2		0.5	10	0.1	2	4600 220	4600 221
5		0.5	25	0.1	5	4600 230	4600 231
10		0.5	50	0.1	10	4600 240	4600 241

Special fixed volumes: 0.5-100 ml (please state when ordering)

4600 290

4600 291



## Dispensette® S Organic

Capacity ml	Subdivision ml	A* ≤ ±		CV* ≤		without recirculation valve Cat. No.	with recirculation valve Cat. No.
		%	µl	%	µl		

### ■ Dispensette® S Organic, Digital

0.5 - 5	0.02	0.5	25	0.1	5	4630 330	4630 331
1 - 10	0.05	0.5	50	0.1	10	4630 340	4630 341
2.5 - 25	0.1	0.5	125	0.1	25	4630 350	4630 351
5 - 50	0.2	0.5	250	0.1	50	4630 360	4630 361

### ■ Dispensette® S Organic, Analog-adjustable

0.5 - 5	0.1	0.5	25	0.1	5	4630 130	4630 131
1 - 10	0.2	0.5	50	0.1	10	4630 140	4630 141
2.5 - 25	0.5	0.5	125	0.1	25	4630 150	4630 151
5 - 50	1.0	0.5	250	0.1	50	4630 160	4630 161
10 - 100	1.0	0.5	500	0.1	100	4630 170	4630 171

### ■ Dispensette® S Organic, Fixed-volume

5		0.5	25	0.1	5	4630 230	4630 231
10		0.5	50	0.1	10	4630 240	4630 241


Special fixed volumes: 2-100 ml (please state when ordering)

4630 290

4630 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. DE-M marking. A = Accuracy, CV = Coefficient of variation

**Note!**  For trace analysis and dispensing HF, we recommend the use of the Dispensette® S Trace Analysis bottle-top dispenser.

# Accessories · Spare Parts



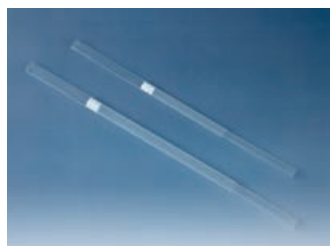
## Discharge tubes

With and without recirculation valve. Screw cap PP.  
Pack of 1.

Description	Nominal volume ml	Shape	Length mm	without recirculation valve Cat. No.	with recirculation valve Cat. No.
Dispensette® S	1, 2, 5, 10	fine tip	108	7080 02	7081 02
	5, 10	standard	108	7080 05	7081 04
	25, 50, 100	fine tip	135	7080 06	7081 06
	25, 50, 100	standard	135	7080 08	7081 09
Dispensette® S Organic	5, 10	standard	108	7080 14	7081 14
	25, 50, 100	fine tip	135	7080 16	7081 16
	25, 50, 100	standard	135	7080 19	7081 19

## Telescoping filling tubes

For Dispensette® S and Dispensette® S Organic.  
FEP. Adjusts to various bottle heights.  
Pack of 1.



Nominal volume ml	Outer Ø mm	Length mm	Cat. No.
1, 2, 5, 10	6	70-140	7082 10
		125-240	7082 12
		195-350	7082 14
		250-480	7082 16
25, 50, 100	7.6	170-330	7082 18
		250-480	7082 20

## Flexible discharge tube with recirculation valve\*

For Dispensette® S and Dispensette® S Organic.  
PTFE, coiled, length approx. 800 mm, with safety handle.  
Pack of 1.



Nominal volume ml	Discharge tube Outer Ø mm	Inner Ø mm	Cat. No.
2, 5, 10	3	2	7081 32
25, 50, 100	4.5	3	7081 34

\* not suitable for HF

## Bottle stand

PP. Full plastic construction.  
Support rod 325 mm,  
base plate 220 x 160 mm,  
weight 1130 g.  
Pack of 1.



Cat. No. 7042 75

## Sealing ring for valve block

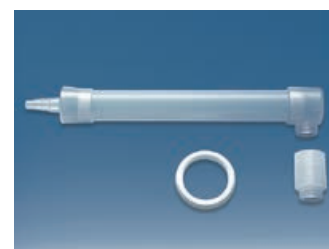
PTFE. For highly volatile media.  
Pack of 1.



Cat. No. 7044 86

## Drying tube incl. PTFE-sealing ring

Without drying agent.  
Pack of 1.



Cat. No. 7079 30

Additional accessories can be found at [www.brand.de](http://www.brand.de)

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