

Dispensette® – the right bottle-top dispenser  
for your application.



# Dispensette®

F I R S T C L A S S · B R A N D

The original Dispensette® with its broad range of application has proven reliable for accurate dispensing even of aggressive reagents.

- ▶ **Dispensette® III:**  
for many acids, bases, saline solutions as well as many organic solvents.
- ▶ **Dispensette® Organic:**  
optimized for dispensing organic solvents and acids.
- ▶ **Dispensette® TA:**  
for dispensing acids, bases and hydrogen peroxide and with platinum-iridium valve spring suitable for HF.



## ▶▶▶ Choose your dispenser

The Dispensette® with its broad range of application has proven reliable for accurate dispensing even of aggressive reagents.

### Dispensing with a gentle touch

We bring 40 years of experience and the most modern manufacturing technology to the development and production of bottle-top dispensers. Pistons and cylinders are accurately machined and hand matched to provide a low-wear seal, optimum sliding properties and virtually effortless, one-handed dispensing.



### Product features

- The 45 mm standard thread plus the included adapters fit common lab bottles.
- 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
- Easy to dismantle for cleaning
- Replaceable filling valves for simple, economical service
- Autoclavable at 121 °C (except for Dispensette® TA)
- 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.

An extensive line of accessories makes possible special dispensing tasks like sterile applications or dispensing from large containers.

### Handling



#### Serial dispensing

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



#### Dispensing sterile fluids

The Dispensette® is completely autoclavable at 121 °C (except for Dispensette® TA). Optional microfilters protect the bottle contents from contamination.

### Volume adjustment



#### ■ Digital · Easy Calibration

- Digital display: especially easy to read, and dispensing volume can be set accurately and reproducibly (mechanical counter).
- Easy Calibration: Innovative technique for adjustment in seconds without tools.



#### ■ Analog-adjustable

- Fast volume adjustment with analog slide
- Simple calibration adjustment with supplied tool.



#### ■ Fixed-volume

- Fixed-volume for standard applications
- Simple calibration adjustment with supplied tool.



#### Dispensing sensitive reagents

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



## ▶▶▶ Materials in contact with media

- Dispensette® III: borosilicate glass, Al<sub>2</sub>O<sub>3</sub>-ceramic, platinum-iridium, ETFE, FEP, PFA and PP (discharge tube safety screw cap)
- Dispensette® Organic: borosilicate glass, Al<sub>2</sub>O<sub>3</sub>-ceramic, tantalum, ETFE, FEP, PFA and PP (discharge tube safety screw cap)
- Dispensette® TA: ETFE, FEP, PFA and PTFE. The purest sapphire is used for the valves. Depending on the design, platinum-iridium or tantalum are available as spring materials.

## ▶▶▶ Operating limits

- Dispensette® III: vapor pressure max. 500 mbar  
viscosity max. 500 mm<sup>2</sup>/s  
temperature max. 40 °C  
density max. 2.2 g/cm<sup>3</sup>
- Dispensette® Organic: vapor pressure max. 500 mbar  
viscosity max. 500 mm<sup>2</sup>/s  
temperature max. 40 °C  
density max. 2.2 g/cm<sup>3</sup>
- Dispensette® TA: vapor pressure max. 500 mbar  
viscosity max. 500 mm<sup>2</sup>/s  
temperature max. 40 °C  
density max. 3.8 g/cm<sup>3</sup>

Additional information on the Dispensette® (operating manual, SOP, etc.) can be found at [www.brand.de](http://www.brand.de)



### ▶ Dispensette® III

Dispensette® III (color-code red): Its **broad range of application** permits bottle dispensing of aggressive reagents, including concentrated acids such as H<sub>3</sub>PO<sub>4</sub>, H<sub>2</sub>SO<sub>4</sub>, bases like NaOH, KOH, saline solutions, as well as many organic solvents. For such reagents as concentrated HCl and HNO<sub>3</sub>, for trifluoroacetic acid (TFA), tetrahydrofuran (THF), dichloromethane and peroxides, we recommend the Dispensette® Organic.

#### 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

## Dispensette® Organic

The Dispensette® Organic (yellow color-code) is ideal for dispensing of **organic solvents** including chlorinated and fluorinated hydrocarbons (e.g., trichlorotrifluoroethane and dichloromethane), **concentrated acids (e.g., HCl and HNO<sub>3</sub>)**, trifluoroacetic acid (TFA), tetrahydrofuran (THF) and peroxides. For bases and saline solutions we recommend the Dispensette® III.

### Dispensette® Organic, Digital · Easy Calibration

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

Capacity ml	Subdivision ml	A* ≤ ±		CV* ≤		without SafetyPrime™ recirculation valve Cat. No.	with SafetyPrime™ recirculation valve Cat. No.
		%	µl	%	µl		
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, Fixed-volume

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



## Dispensette® TA

Dispensette® TA is a special instrument for dispensing high-purity acids, alkalis, and hydrogen peroxide for trace analysis. This instrument is also suitable for dispensing hydrofluoric acid (HF) with Pt/Ir valva spring. Further information can be found at [www.brand.de](http://www.brand.de), or you can request our detailed brochure.

### Dispensette® TA\*\*, Analog-adjustable

Capacity ml	Valve spring	Subdivision ml	A* ≤ ±		CV* ≤		without SafetyPrime™ recirculation valve Cat. No.	with SafetyPrime™ recirculation valve Cat. No.
			%	µl	%	µl		
1 - 10	Platinum-Iridium	0.2	0.5	50	0.1	10	4740 040	4740 041
1 - 10	Tantalum	0.2	0.5	50	0.1	10	4740 240	4740 241

\* All dispensers 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

\*\* Not autoclavable. Not suitable for organic solvents.





# Dispenser selection chart

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

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

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

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 0314/12

## Areas of application

Bases	Saline solutions	Acids	Organic solvents		Hydrofluoric acid (HF)
			polar	non-polar	
Dispensette® III					
			Dispensette® Organic		
					Dispensette® TA

### SafetyPrime™ recirculation valves

Reduces solvent waste during priming. Pack of 1.



Description	Cat. No.
<input checked="" type="checkbox"/> for Dispensette® III 0.5 ml	<b>7060 81</b>
<input checked="" type="checkbox"/> for Dispensette® III 1-100 ml	<b>7060 80</b>
<input checked="" type="checkbox"/> for Dispensette® Organic	<b>7060 90</b>
<input type="checkbox"/> for Dispensette® TA, Platinum-iridium	<b>7060 86</b>
<input type="checkbox"/> for Dispensette® TA, Tantalum	<b>7060 87</b>

### 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	<b>6697</b>
for Dispensette® III, Dispensette® Organic	25, 50, 100	<b>6698</b>
for Dispensette® TA	10	<b>6622</b>

### Flexible discharge tubing

PTFE, coiled, length 800 mm, with handle. Not suitable for HF! Pack of 1.



Description	Nominal volume ml	Cat. No.
for Dispensette® III and Organic	1, 2, 5, 10	<b>7079 25</b>
for Dispensette® III and Organic	25, 50, 100	<b>7079 26</b>
for Dispensette® TA, Platinum-iridium	10	<b>7079 45</b>
for Dispensette® TA, Tantalum	10	<b>7079 46</b>

### Discharge tubes with integrated valve

Pack of 1.



Description	Nominal volume ml	Shape	Length mm	Cat. No.
<input checked="" type="checkbox"/> for Dispensette® III	0.5, 1, 2, 5, 10	fine tip	90	<b>7079 15</b>
	5, 10	standard	90	<b>7079 16</b>
	25, 50, 100	standard	120	<b>7079 17</b>
	25, 50, 100	fine tip	120	<b>7079 18</b>
<input checked="" type="checkbox"/> for Dispensette® Organic	0.5, 1, 2, 5, 10	fine tip	90	<b>7079 35</b>
	5, 10	standard	90	<b>7079 36</b>
	25, 50, 100	standard	120	<b>7079 37</b>
	25, 50, 100	fine tip	120	<b>7079 38</b>
<input type="checkbox"/> für Dispensette® TA	10	Platinum-iridium	90	<b>7079 55</b>
<input type="checkbox"/> für Dispensette® TA	10	Tantalum	90	<b>7079 56</b>

### Dispensing cartridge with safety ring

Nominal volume 10 ml, calibrated, incl. quality certificate. Pack of 1.



Cat. No. **7075 42**

### Bottle Stand

PP. Support rod 325 mm, Base plate 220 x 160 mm, Weight 1.130 g. Pack of 1.



Cat. No. **7042 75**

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

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Our technical literature is intended to inform and advise our customers. However, the validity of general empirical values, and of results obtained under test conditions, for specific applications depends on many factors beyond our control. Please appreciate, therefore, that no claims can be derived from our advice. The user is responsible for checking the appropriateness of the product for any particular application.

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