

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 acids, bases, saline solutions as well as many organic solvents.

**Dispensette® Organic:**

optimized for dispensing organic solvents and acids.

**Dispensette® HF:**

for dispensing hydrofluoric acid (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
- 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. 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>.





## ▶ Dispensette® III

Dispensette® III (color-code red): Its **broad range of application** permits bottle dispensing of aggressive reagents, including concentrated acids such as  $H_3PO_4$ ,  $H_2SO_4$ , bases like NaOH, KOH, saline solutions, as well as many organic solvents.

For such reagents as concentrated HCl and  $HNO_3$ , for trifluoroacetic acid (TFA), tetrahydrofuran (THF), dichloromethane and peroxides, we recommend the Dispensette® Organic.

### Dispensette® III, Digital · Easy Calibration

Capacity ml	Subdivision ml	A* ≤ ±		CV* ≤		without SafetyPrime™ recirculation valve Cat. No.	with SafetyPrime™ recirculation valve Cat. No.
		%	µl	%	µl		
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* ≤ ±		CV* ≤		without SafetyPrime™ recirculation valve Cat. No.	with SafetyPrime™ recirculation valve Cat. No.
		%	µl	%	µl		
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* ≤ ±		CV* ≤		without SafetyPrime™ recirculation valve Cat. No.	with SafetyPrime™ recirculation valve Cat. No.
	%	µl	%	µl		
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: 0.25-100 ml (please state when ordering)					4700 290	4700 291



## ▶ Dispensette® HF

The Dispensette® HF (green color-code) is specially designed to dispense **hydrofluoric acid (HF)**.

### Dispensette® HF, Analog-adjustable

Capacity ml	Subdivision ml	A* ≤ ±		CV* ≤		without SafetyPrime™ recirculation valve Cat. No.	with SafetyPrime™ recirculation valve Cat. No.
		%	µl	%	µl		
1 - 10	0.2	0.5	50	0.1	10	4700 040	4700 041

\* 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. A = Accuracy, CV = Coefficient of variation

## 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



## 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® HF: Al<sub>2</sub>O<sub>3</sub>-ceramic, platinum-iridium, ETFE, FEP, PFA and PP (discharge tube safety screw cap)

## 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® HF: 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)

# Dispenser selection chart

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

**Hydrofluoric acid (HF): Only the Dispensette® HF is specifically designed to dispense hydrofluoric acid (maximum permitted concentration 52%).**

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 Sep06

## Areas of application

Bases	Saline solutions	Acids	Organic solvents		Hydrofluoric acid (HF)
			polar	non-polar	
<b>Dispensette® III</b>					
		<b>Dispensette® Organic</b>			
					<b>Dispensette® HF</b>

**SafetyPrime™  
recirculation valves**

Reduces solvent waste during priming. Pack of 1.



Description	Cat. No.
■ for Dispensette® III 0.5 ml	7060 81
■ for Dispensette® III 1-100 ml	7060 80
■ for Dispensette® Organic	7060 90
■ for Dispensette® HF	7060 85

**Discharge tube with  
Luer-Lock attachment  
for micro filter**

FEP/PP.  
Pack of 1.



**Cat. No.** 7079 28\*

\* not suitable for HF and Peroxide

**Micro filter connector  
with Luer-cone**

PP. Air vent cap and seal.  
Pack of 1 each.



**Cat. No.** 7044 95

**Flexible discharge tubing**

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



Nominal volume ml	Discharge tubing outer-Ø mm	Cat. No.
1, 2, 5, 10	3	7079 25*
25, 50, 100	4.5	7079 26*

\* not suitable for HF and Peroxide

**Discharge tubes  
with integrated valve**

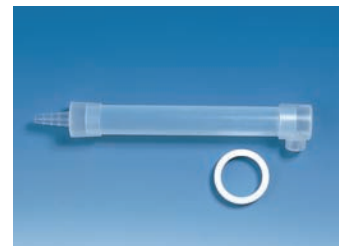
Pack of 1.



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
	25, 50, 100	fine tip	120	7079 18
■ for Dispensette® Organic	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
■ for Dispensette® HF	10	standard	90	7079 19

**Drying tube**

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



**Cat. No.** 7079 30

**Remote dispensing system**

For Dispensette® III and  
Dispensette® Organic.  
Dispense accurate volumes  
directly from unpressurized  
drums and bulk refills. The  
container can be stored up  
to 10 meters (30 feet) from  
the dispensing station. The  
max. delivery height is approx.  
1.2 m. Pack of 1 (without  
Dispensette®).



**Cat. No.** 7042 61

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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.

Subject to technical modification without notice. Errors excepted.

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