



Dispensette® S

Safe and efficient dispensing directly from the bottle

BRAND. For lab. For life.®

- + Minimum operating forces, maximum comfort.
- + Trusted in challenging continuous operation and with aggressive media.
- + Wide range of applications for organic solvents, acids, alkalis and saline solutions



BOTTLE-TOP DISPENSER



Get to know the Dispensette® S

Whether you are dispensing solvents, acids, alkalis or saline solutions – the Dispensette® S bottle-top dispenser makes it easy, safe and efficient.

With both the Dispensette® S and Dispensette® S Organic, you will always have the right dispenser at hand for a wide range of media. For efficient volume adjustment, you can choose between digital and analog adjustment, or fixed volume. Do you dispense long series, sterile applications or moisture-sensitive media? With numerous accessory options, the Dispensette® S also offers efficient solutions for special applications. With the Dispensette® S, you can dispense with ease in every application. Thanks to the unique operation principle and “Made in Germany” quality, the operating forces are low.

Only the highest quality materials are used for parts that come into contact with media. Pistons made of borosilicate glass

and valve springs made of platinum-iridium or tantalum are tested and proven for use with aggressive media and demanding continuous-use applications.

Intelligent solutions ensure safety in the laboratory; for example, the discharge valve with safety ball, which closes when dispensing tubes are disconnected, or the hinged screw cap which stays out of the way when dispensing. Thanks to the Easy Calibration technology, adjustment can be completed in seconds as part of test equipment monitoring in accordance with ISO 9001 and GLP guidelines.

On the following pages, find out how the Dispensette® S makes dispensing easy, safe and efficient, and which Dispensette® S is right for your application.

Dispensette® S

Digital, Analog-adjustable,
or Fixed-volume

Volume size ranges
from 0.1 ml to 100 ml



Dispensette® S Organic

Digital, Analog-adjustable,
or Fixed-volume

Volume size ranges
from 0.5 ml to 100 ml



- + Autoclavable at 121 °C
- + DE-M marking
- + Easy to dismantle for cleaning
- + Designed without seals

A Closer Look: The benefits of Dispensette® S

The bottle-top dispenser Dispensette® S has all the features that make dispensing easy, safe and efficient. Innovative ideas – trusted technology.



Positive volume setting using interior scalloped track



Valve system designed without seals



Simple-to-mount discharge tube



Accessories for serial dispensing tube

Easy Calibration

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



Dispensette® S Organic, Digital

Discharge tube

without recirculation valve

Large viewport

Large sight opening enables inspection of media

360° rotating valve block

with GL 45 thread

Discharge valve with safety ball

closes when discharge tube is not mounted preventing inadvertent dispensing

Telescoping filling tube

USER TIP
on page 11



Fast calibration



Dispensing sterile fluids



Dispensing sensitive reagents

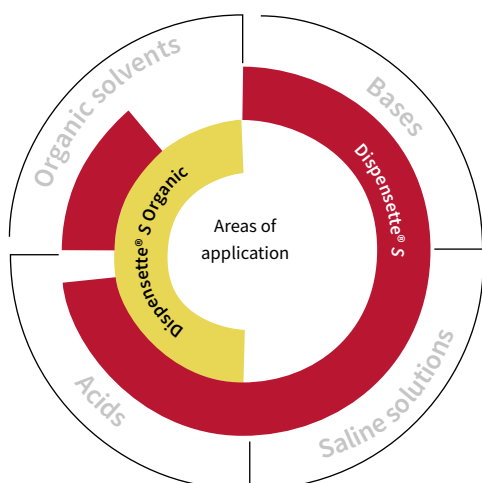


Remote Dispensing System for Drum Dispensing

The right choice for a wide variety of applications



| | Dispensette® S | Dispensette® S Organic |
|---------------------------------|---|---|
| Range of applications | aggressive reagents: 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. | organic solvents: such as chlorinated and fluorinated hydrocarbons like trichlorotrifluoroethane and dichloromethane, or acids like concentrated HCl and HNO_3 (except for HF), as well as for trifluoroacetic acid (TFA), tetrahydrofuran (THF), and peroxides. |
| 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 |
| Vapor pressure | max. 600 mbar | max. 600 mbar |
| Viscosity | 500 mm ² /s | 500 mm ² /s |
| Temperature | max. 40 °C | max. 40 °C |
| Density | 2.2 g/cm ³ | 2.2 g/cm ³ |



i
For dispensing HF, we recommend the use of the Dispensette® S Trace Analysis bottle-top dispenser with platinum-iridium valve spring. Please find further product information on www.brand.de

Dispenser Selection Chart

| Reagent | Dispensette® S | | Reagent | Dispensette® S | | Reagent | Dispensette® S | |
|---|----------------|---------|--|----------------|---------|---|----------------|---------|
| | + | Organic | | + | Organic | | + | 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% | + | + | 1,2-Diethylbenzene | + | + | Phenylethanol | + | + |
| Ammonia, 20-30% | | + | Diethylene glycol | + | + | Phenylhydrazine | + | + |
| Ammonium chloride | + | | Dimethyl sulfoxide (DMSO) | + | + | Phosphoric acid, ≤ 85% | + | + |
| Ammonium fluoride | + | | Dimethylaniline | + | | Phosphoric acid, 85% + Sulfuric acid, 98%, 1:1 | + | + |
| Ammonium sulfate | + | | Dimethylformamide (DMF) | + | + | Piperidine | + | + |
| n-Amyl acetate | + | + | 1,4-Dioxane | | + | Potassium chloride | + | |
| Amyl alcohol (Pentanol) | + | + | Diphenyl ether | + | + | Potassium dichromate | + | |
| Amyl chloride (Chloropentane) | | + | Essential oil | | + | Potassium hydroxide | + | |
| Aniline | + | + | Ethanol | + | + | Potassium permanganate | + | |
| Barium chloride | + | | Ethanolamine | + | + | Propionic acid | + | + |
| Benzaldehyde | + | + | Ethyl acetate | + | + | Propylene glycol (Propanediol) | + | + |
| Benzene (Benzol) | + | + | Ethylbenzene | | + | Pyridine | + | + |
| Benzene (Petroleum benzin), bp 70-180 °C | | + | Ethylene chloride | | + | Pyruvic acid | + | + |
| Benzoyl chloride | + | + | Fluoroacetic acid | | + | Salicylaldehyde | + | + |
| Benzyl alcohol | + | + | Formaldehyde, ≤ 40% | + | | Scintillation fluid | + | + |
| Benzylamine | + | + | Formamide | + | + | Silver acetate | + | |
| Benzylchloride | + | + | Formic acid, ≤ 100% | | + | Silver nitrate | + | |
| Boric acid, ≤ 10% | + | + | Glycerol | + | + | Sodium acetate | + | |
| Bromobenzene | + | + | Glycol (Ethylene glycol) | + | + | Sodium chloride | + | |
| Bromonaphthalene | + | + | Glycolic acid, ≤ 50% | + | | Sodium dichromate | + | |
| Butanediol | + | + | Heating oil (Diesel oil), bp 250-350 °C | | + | Sodium fluoride | + | |
| 1-Butanol | + | + | Heptane | | + | Sodium hydroxide, ≤ 30% | + | |
| n-Butyl acetate | + | + | Hexane | | + | Sodium hypochlorite | + | |
| Butyl methyl ether | + | + | Hexanoic acid | + | + | Sulfuric acid, ≤ 98% | + | + |
| Butylamine | + | + | Hexanol | + | + | Tartaric acid | + | |
| Butyric acid | + | + | Hydriodic acid, ≤ 57% ** | + | + | Tetrachloroethylene | | + |
| Calcium carbonate | + | | Hydrobromic acid | | + | Tetrahydrofuran (THF) */ ** | | + |
| Calcium chloride | + | | Hydrochloric acid, ≤ 20% | + | + | Tetramethylammonium hydroxide | + | |
| Calcium hydroxide | + | | Hydrochloric acid, 20-37% ** | | + | Toluene | | + |
| Calcium hypochlorite | + | | Hydrogen peroxide, ≤ 35% | | + | Trichloroacetic acid | | + |
| Carbon tetrachloride | | + | Isoamyl alcohol | + | + | Trichlorobenzene | | + |
| Chloro naphthalene | + | + | Isobutanol | + | + | Trichloroethane | | + |
| Chloroacetaldehyde, ≤ 45% | + | + | Isocetane | | + | Trichloroethylene | | + |
| Chloroacetic acid | + | + | Isopropanol (2-Propanol) | + | + | Trichlorotrifluoro ethane | | + |
| Chloroacetone | + | + | Isopropyl ether | + | + | Triethanolamine | + | + |
| Chlorobenzene | + | + | Lactic acid | + | | Triethylene glycol | + | + |
| Chlorobutane | + | + | Methanol | + | + | Trifluoro ethane | | + |
| Chloroform | | + | Methoxybenzene | + | + | Trifluoroacetic acid (TFA) | | + |
| Chlorosulfonic acid | + | + | Methyl benzoate | + | + | Turpentine | | + |
| Chromic acid, ≤ 50% | + | + | Methyl butyl ether | + | + | Urea | + | |
| Chromosulfuric acid | + | | Methyl ethyl ketone | + | + | Xylene | | + |
| Copper sulfate | + | | Methyl formate | + | + | Zinc chloride, ≤ 10% | + | |
| Cresol | | + | Methyl propyl ketone | + | + | Zinc sulfate, ≤ 10% | + | |
| Cumene (Isopropyl benzene) | + | + | | | | | | |

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: 05/20/13

* use ETFE/PTFE bottle adapter

** use PTFE seal for valve block

The right Dispensette® for your applications

Items supplied:

Dispensette® S / Dispensette® S Organic bottle-top dispenser, for threaded bottles GL 45, 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, Digital

| Capacity ml | Subdivision ml | A* ≤ ± % | | CV* ≤ % | | without recirculation valve Cat. No. | with recirculation valve Cat. No. |
|-------------|----------------|----------|-----|---------|----|--------------------------------------|-----------------------------------|
| 0.1 - 1 | 0.005 | 0.5 | 5 | 0.1 | 2 | 4600310 | 4600311 |
| 0.2 - 2 | 0.01 | 0.5 | 10 | 0.1 | 2 | 4600320 | 4600321 |
| 0.5 - 5 | 0.02 | 0.5 | 25 | 0.1 | 5 | 4600330 | 4600331 |
| 1 - 10 | 0.05 | 0.5 | 50 | 0.1 | 10 | 4600340 | 4600341 |
| 2.5 - 25 | 0.1 | 0.5 | 125 | 0.1 | 25 | 4600350 | 4600351 |
| 5 - 50 | 0.2 | 0.5 | 250 | 0.1 | 50 | 4600360 | 4600361 |



Dispensette® S, Analog-adjustable

| Capacity ml | Subdivision ml | A* ≤ ± % | | CV* ≤ % | | without recirculation valve Cat. No. | with recirculation valve Cat. No. |
|-------------|----------------|----------|-----|---------|-----|--------------------------------------|-----------------------------------|
| 0.1 - 1 | 0.02 | 0.5 | 5 | 0.1 | 2 | 4600100 | 4600101 |
| 0.2 - 2 | 0.05 | 0.5 | 10 | 0.1 | 2 | 4600120 | 4600121 |
| 0.5 - 5 | 0.1 | 0.5 | 25 | 0.1 | 5 | 4600130 | 4600131 |
| 1 - 10 | 0.2 | 0.5 | 50 | 0.1 | 10 | 4600140 | 4600141 |
| 2.5 - 25 | 0.5 | 0.5 | 125 | 0.1 | 25 | 4600150 | 4600151 |
| 5 - 50 | 1.0 | 0.5 | 250 | 0.1 | 50 | 4600160 | 4600161 |
| 10 - 100 | 1.0 | 0.5 | 500 | 0.1 | 100 | 4600170 | 4600171 |



Dispensette® S, Fixed-volume

| Capacity ml | A* ≤ ± % | | CV* ≤ % | | without recirculation valve Cat. No. | with recirculation valve Cat. No. |
|--|----------|----|---------|----|--------------------------------------|-----------------------------------|
| 1 | 0.5 | 5 | 0.1 | 2 | 4600210 | 4600211 |
| 2 | 0.5 | 10 | 0.1 | 2 | 4600220 | 4600221 |
| 5 | 0.5 | 25 | 0.1 | 5 | 4600230 | 4600231 |
| 10 | 0.5 | 50 | 0.1 | 10 | 4600240 | 4600241 |
| Special fixed volumes: 0.5-100 ml (please state when ordering) | | | | | 4600290 | 4600291 |



Dispensette® S Organic, Digital

| Capacity ml | Subdivision ml | $A^* \leq \pm$ % μ l | | $CV^* \leq$ % μ l | | without recirculation valve Cat. No. | with recirculation valve Cat. No. |
|----------------|-------------------|-----------------------------|-----|--------------------------|----|--|---|
| 0.5 - 5 | 0.02 | 0.5 | 25 | 0.1 | 5 | 4630330 | 4630331 |
| 1 - 10 | 0.05 | 0.5 | 50 | 0.1 | 10 | 4630340 | 4630341 |
| 2.5 - 25 | 0.1 | 0.5 | 125 | 0.1 | 25 | 4630350 | 4630351 |
| 5 - 50 | 0.2 | 0.5 | 250 | 0.1 | 50 | 4630360 | 4630361 |



Dispensette® S Organic, Analog-adjustable

| Capacity ml | Subdivision ml | $A^* \leq \pm$ % μ l | | $CV^* \leq$ % μ l | | without recirculation valve Cat. No. | with recirculation valve Cat. No. |
|----------------|-------------------|-----------------------------|-----|--------------------------|-----|--|---|
| 0.5 - 5 | 0.1 | 0.5 | 25 | 0.1 | 5 | 4630130 | 4630131 |
| 1 - 10 | 0.2 | 0.5 | 50 | 0.1 | 10 | 4630140 | 4630141 |
| 2.5 - 25 | 0.5 | 0.5 | 125 | 0.1 | 25 | 4630150 | 4630151 |
| 5 - 50 | 1.0 | 0.5 | 250 | 0.1 | 50 | 4630160 | 4630161 |
| 10 - 100 | 1.0 | 0.5 | 500 | 0.1 | 100 | 4630170 | 4630171 |



Dispensette® S Organic, Fixed-volume

| Capacity ml | $A^* \leq \pm$ % μ l | | $CV^* \leq$ % μ l | | without recirculation valve Cat. No. | with recirculation valve Cat. No. |
|--|-----------------------------|----|--------------------------|----|--|---|
| 5 | 0.5 | 25 | 0.1 | 5 | 4630230 | 4630231 |
| 10 | 0.5 | 50 | 0.1 | 10 | 4630240 | 4630241 |
| Special fixed volumes: 2-100 ml (please state when ordering) | | | | | 4630290 | 4630291 |

* 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



All product information
can be found at shop.brand.de

Note:

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

Accessories



Bottle stand

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

| Pack of | Cat. No. |
|---------|----------|
| 1 | 704275 |



**Drying tube incl.
PTFE-sealing ring**
Without drying agent.

| Pack of | Cat. No. |
|---------|----------|
| 1 | 707930 |



Sealing ring for valve block
PTFE. For highly volatile
media.

| Pack of | Cat. No. |
|---------|----------|
| 1 | 704486 |



Remote Dispensing System for Drum Dispensing

Dispensing system for
Dispensette®, standard
equipment*

| Pack of | Cat. No. |
|---------|----------|
| 1 | 704261 |

* (Dispensette® not included)

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 | 708002 | 708102 |
| | 5, 10 | standard | 108 | 708005 | 708104 |
| | 25, 50, 100 | fine tip | 135 | 708006 | 708106 |
| Dispensette® S Organic | 25, 50, 100 | standard | 135 | 708008 | 708109 |
| | 1, 2, 5, 10 | fine tip | 108 | 708012 | 708112 |
| Dispensette® S Organic | 5, 10 | standard | 108 | 708014 | 708114 |
| | 25, 50, 100 | fine tip | 135 | 708016 | 708116 |
| | 25, 50, 100 | standard | 135 | 708019 | 708119 |

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 | | Cat. No. |
|-------------------|----------------|------------|----------|
| | Outer Ø mm | Inner Ø mm | |
| 1, 2, 5, 10 | 3 | 2 | 708132 |
| 25, 50, 100 | 4.5 | 3 | 708134 |

** not suitable for HF

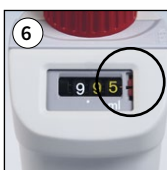
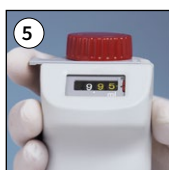
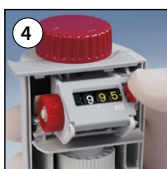
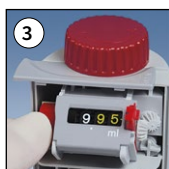
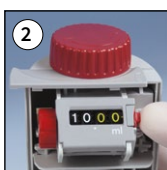


Additional accessories
can be found at shop.brand.de

Easy Calibration technology: adjustment without tools

Monitoring of measuring instruments in accordance with ISO 9001 and GLP guidelines requires regular verification (roughly every 3–12 months) and possibly adjustment of the measuring instruments. If adjustment is necessary, it can be done quickly and easily using Easy Calibration technology.

Easy Calibration Dispensette® S Digital



1.
Open housing by sliding the latch to the left and removing the front (Fig. 1).

2.
Pull out the safety lock. The adjustment cover will then come off (Fig. 2). Discard the adjustment cover.

3.
Pull the red knob to disengage the gears. Set the display to actual delivered volume (e.g., 9.90 ml) (Fig. 3).

4.
First press in the red knob and then the safety lock again (Fig. 4).

5.
Replace housing and slide the latch to the right (Fig. 5). A volume check is recommended after every adjustment.



Checking the volume

a) Preparation of the instrument

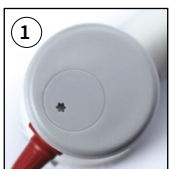
Clean the instrument, fill it with distilled H₂O and then prime it carefully.

b) Check the volume

- 10 dispensing operations with distilled H₂O in 3 Volume ranges (100 %, 50 %, 10 %) are recommended.
- For filling, pull up the piston gently to the upper stop of the volume set.
- For discharge, depress piston slowly and steadily without force to the lower stop.
- Wipe off the tip of discharge tube.
- Weigh the dispensed quantity on an analytical balance. (Please follow the operating manual of the balance manufacturer.)
- Calculate the dispensed volume. The Z factor takes account of the temperature and air buoyancy. The complete testing procedure (SOP) can be downloaded at www.brand.de.



Easy Calibration Dispensette® S Analog-adjustable



1.
Insert the pin of the mounting tool into the cover plate, and break it off with a rotating motion (Fig. 2). Discard the adjustment cover.

2.
Insert the pin of the mounting tool into the adjustment screw (Fig. 3) and rotate to the left in order to increase the dispensing volume, or rotate to the right to decrease the dispensing volume (e.g. for an actual value of 9.97 ml, rotate approx. 1/2 turn to the left).

BRAND®, Dispensette®, BRAND. For lab. For life.® as well as the figurative marks depicted here and the BRAND figurative mark are registered trademarks or trademarks of BRAND GMBH + CO KG, Germany. All other trademarks mentioned or depicted here are the property of the respective owners.

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.

California Residents: For more information concerning California Proposition 65, please refer to www.brand.de/calprop65

Subject to technical modification without notice. Errors excepted.



Find accessories and replacement parts, user manuals, test instructions (SOP) and product videos at shop.brand.de



Further information on products and applications can be found on our YouTube channel: [mylabBRAND](#)

BRAND GMBH + CO KG

P.O. Box 1155 | 97861 Wertheim | Germany

T +49 9342 808 0 | F +49 9342 808 98000 | info@brand.de | www.brand.de

BRAND. For lab. For life.®

