

Dispensette®

Dispensette® III, and Dispensette® Organic, bottletop dispensers improve accuracy, safety, and reagent conservation in a broad range of applications. They mount directly on most solvent and reagent bottles for faster, more convenient dispensing. Instruments are autoclavable at 121°C (250°F) for use with sterile reagents.

- **Dispense Most Lab Reagents:** Choose the Dispensette® III for acids, bases, saline solutions, as well as many organic solvents; the Dispensette® Organic for organic solvents, combinatorial chemistry solvents, concentrated acids such as HCl and HNO₃, trifluoroacetic acid (TFA), tetrahydrofuran (THF), and peroxides. See Selection Chart on page 38 for help selecting the best dispenser.
- **Deliver Accurate, Precise Volumes:** Dispensers are accurate to 0.5% (1% for 0.5mL models), with coefficients of variation of 0.1% (0.2% for 0.5mL). Digital models feature accurate and reproducible volume settings via a mechanical digital display. Easy Calibration™ technology simplifies ISO/GLP compliance.
- **Increase Laboratory Safety:** Dispensers mount on reagent bottles to reduce poured reagent transfers. They include a number of safety features to reduce the risk of injury from inadvertent dispensing and splashes. SafetyPrime™ valve system enhances reagent conservation and safety. Many accessories are available for remote, serial and drum dispensing.
- **Resist Wear and Damage:** Unique design ensures smooth operation and eliminates wearing parts. Dispensers disassemble easily to simplify cleaning and maintenance.
- **HF and Trace Analysis Dispensing:** For dispensing of high purity acids and solvents, or hydrofluoric acid, choose the Dispensette® TA. For details, see page 37



The Standard in Bottletop
Dispensing For Over 40 Years.



Dispensette® bottle-top dispensers

Dispensette® Organic

(Analog-adjustable model)

Discharge Tube Safety Screw Cap

One-twist cap helps protect against reagent contact and is easy to attach and remove, even while wearing gloves.

SafetyPrime™ Recirculation Valve

Optional SafetyPrime™ valve reduces splashes during instrument priming and reduces reagent waste. Control lever clearly indicates valve position.

Fits Most Reagent Bottles

The 45mm standard thread, plus included adapters, ensure compatibility with most common reagent bottles. Telescoping filling tube adjusts easily to different size bottles – without measuring or cutting.

Easy Calibration™

Digital adjustable models are equipped with Easy Calibration™ technology to simplify ISO/GLP compliance.

Rotating Valve Block

The valve block can be rotated 360° to allow the bottle label to face the user during dispensing.

Safety Discharge System

Integrated safety discharge system reduces the risk of inadvertent dispensings and splashes.



Dispensette® TA
See page 37

Dispensette® Organic See page 40

Dispensette® III (Digital Easy Calibration™ model)

Dispensette® bottle-top dispensers

Dispensette® Volume Adjustment

Product Features:

Both the Dispensette® III and Dispensette® Organic are constructed using the “floating piston” principle.

Each piston is matched individually with precise tolerances to the cylinder of the instrument. A thin film of the dispensed liquid of just a few μm thick acts as a non-wearing seal that reduces friction, so dispensing is easy and convenient.

- The 45mm standard thread, plus included adapters, fit most common lab bottles.
- The valve block can be rotated 360° so that the bottle label always faces the user for safety.
- A telescoping filling tube adjusts to different bottle sizes.
- The instrument is easy to disassemble for cleaning.
- Valves are replaceable for simple, economical service.
- Dispensette® III and Dispensette® Organic are 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.
- An extensive line of accessories facilitates specialized dispensing tasks like sterile applications or dispensing from large containers.



Digital Easy Calibration™ models

- Digital Easy Calibration™ models enable accurate and reproducible volume setting with an easy-to-read display and a convenient adjustment knob. Simply turn the knob. The mechanical adjustment mechanism displays the volume in digits.
- Features unique Easy Calibration™ technology (see page 56) for calibration adjustment in seconds without tools.
- Excellent for labs with multiple users, and in circumstances requiring frequent volume changes to precise volumes.



Analog-adjustable models

- Analog slide enables rapid volume adjustments
- Calibration adjustments are simplified with included tool



Fixed-volume models

- Fixed-volume for standardized applications
- Calibration adjustments are simplified with included tool

Dispensette® bottle top dispensers

Applications



One-handed operation

“Floating piston” design eliminates the seals that often wear and fail on other dispensers. This allows the Dispensette® piston to move very smoothly, permitting safe, simple, one-handed dispensing, even with a nearly-empty reagent bottle.



Dispensing sterile fluids

Dispensette® bottle top dispensers (except Dispensette® TA) are autoclavable at 121°C (250°F) and can be fitted with an optional microfilter to prevent contamination of bottle contents. Sterile technique must be followed.



Serial dispensing

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



Dispensing sensitive reagents

Optional drying tube screws into the accessory part of the Dispensette® to protect sensitive reagents from humidity or CO₂. (Absorbing agent not included.)

Dispensing from bulk containers minimizes risk of contaminating high-purity reagents

Simply connect the Dispensette® III or Dispensette® Organic to the optional Remote Dispensing System for accurate dispensing from drums and other bulk containers up to 10m (30 feet) away. Maximum delivery height is 1.2 meters. A quick-release connector with integrated valves simplifies changing the bulk container. The drum adapter air inlet filter minimizes risk of contaminating high-purity reagents.

NOTE: *Not for use with SafetyPrime™ recirculation valve, pressurized vessels, peroxides (which will react with the platinum-iridium spring), HF or other liquids which attack borosilicate glass, alumina ceramic, PFA, ETFE, FEP or PTFE. Observe all safety instructions, operating exclusions, and limitations of the operating manuals of the Dispensette® bottle top dispensers.*



Dispensette® TA Trace Analysis

For dispensing high-purity chemicals

The Dispensette® TA provides outstanding performance for precise-volume dispensing of high-purity media for trace analysis. The Dispensette® TA is also suitable for dispensing HF (platinum iridium model.)

The components of the fluid path have been selected to only contain the highest purity materials, such as fluoroplastics and sapphire. Depending on application, either platinum-iridium or tantalum valve springs can be chosen. The volume range is from 1 to 10mL.

- Especially well suited for dispensing acids, bases and hydrogen peroxide (TA models only).
- Trace metal content of dispensed liquid is generally in the low ppb range, or, depending on application, even in the low ppt range.

Dispensing of high-purity chemicals in trace analysis

- Plastics in contact with media consist of high-purity materials such as PTFE, ETFE, FEP, and PFA. The purest sapphire is used for replaceable valves. Depending on the application, platinum-iridium or tantalum are available as spring materials.
- A field-tested cleaning process before use in trace analysis is described in the operating manual.
- Easy to disassemble for replacement of the dispensing cartridge.

Recommended Application Range

Dispensing Medium	Valve spring: Pt-Ir	Valve spring: Ta
Acetic acid	+	+
Ammonia solution	+	+
Bromine	+	+
Hydrochloric acid	+	+
Hydrofluoric acid	+	-
Hydrogen peroxide	-	+
Nitric acid	+	+
Perchloric acid	+	+
Sodium hydroxide, 30%	+	-
Sulfuric acid	+	+
Water	+	+

+ suitable – not suitable

* Hydrofluoric acid reacts slightly with sapphire resulting in mildly elevated aluminum values. To reduce these values we recommend discarding 3-5 dispensings of 2 ml each before performing the analysis.

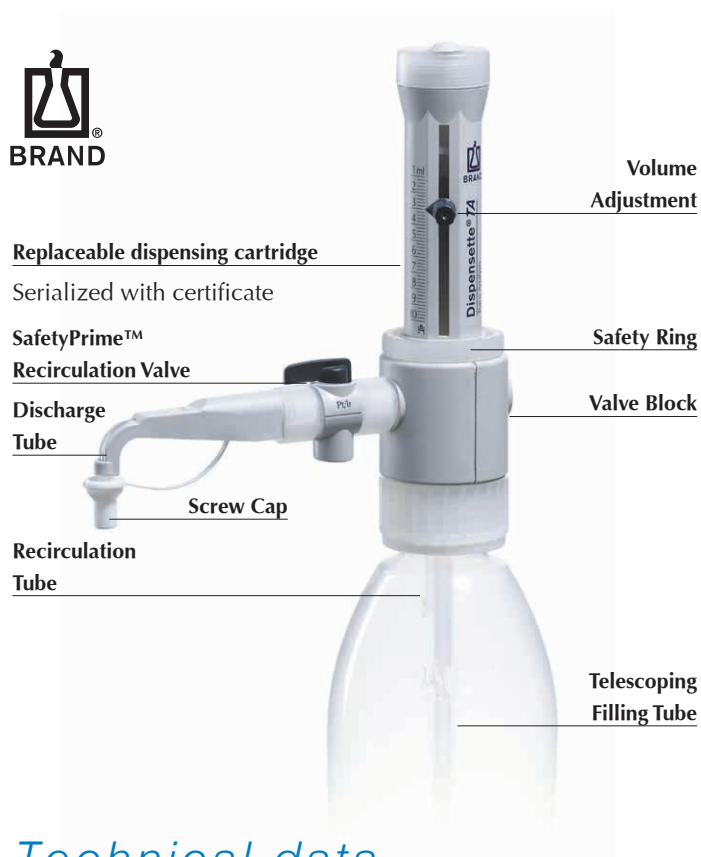
The above recommendations reflect testing completed prior to publication. Always follow instructions in the operating manual of the instrument as well as the reagent manufacturer's specifications. Should you require information on chemicals not listed, please feel free to contact BrandTech®.
Status as of: 0713/2

Performing Trace Analysis?

See the VITLAB® PFA trace analysis labware on page 110.



BRAND



Technical data

The high-purity materials release virtually no metal ions after appropriate cleaning. This makes the Dispensette® TA bottle-top dispenser a superior choice for trace analysis.

Replaceable Dispensing Cartridge

If the piston seal is worn after a long period of use, the entire dispensing cartridge can easily be replaced without tools by the user. The cartridge is fully adjusted at the factory and delivered with a performance certificate. No calibration is required after replacement.

Serial Dispensing

For easy serial dispensing, an optional flexible discharge tube with textured safety handle (not approved for HF) permits fast and precise dispensing, even into narrow test tubes. Full functionality of the SafetyPrime™ recirculation valve and the safety discharge system is maintained after installation.

Areas of application / Suggested dispenser (as of July 2013)

■ Dispensette® III (Disp. III) ■ Dispensette® Organic (Disp. Organic)

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

* use ETFE/PTFE bottle adapter

** use PTFE seal

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 BrandTech Scientific. Status as of: 07/13/12

Dispensette® TA Pt-Ir

For dispensing HF, we recommend the use of the Dispensette® TA bottle-top dispenser with platinum-iridium valve spring (Cat. No. 4741041, page 37).

Dispensette® bottle top dispensers technical data

Operating limitations (all instruments)

Liquids which form deposits may make the piston difficult to move or may cause jamming (e.g., crystallizing solutions or concentrated alkaline solutions).

When dispensing inflammable media, make sure to avoid the buildup of static charge, e.g., do not dispense into plastic vessels; do not wipe instruments with a dry cloth.

The Dispensette® is designed for general laboratory applications and complies with the relevant standards, e.g., DIN EN ISO 8655. Compatibility of the instrument for a specific application (e.g., trace material analysis, food sector, etc.) must be checked by the user. Approvals for specific applications, e.g., for production and administration of food, pharmaceuticals and cosmetics are not available.

Items supplied

Each Dispensette® III, Dispensette® Organic, Dispensette® TA includes:

- Certificate of performance
- Discharge tube
- Valve Mounting/Calibration tool
- Adapters and filling tube
- Operating manual
- One-year warranty

Supplied Adapters and Filling Tubes

Nominal Volume, mL	Adapter for bottle thread, mm	Filling tube length, mm
For Dispensette® III and Dispensette® Organic (PP)		
0.5	24, 28, 33, 38	125-240
1, 2, 5, 10	28, 33, 38	125-240
25, 50, 100	33, 38	170-330
For Dispensette® TA		
10	28, 33, S 40	125-240

Limitations of use (all instruments)

This instrument is designed for dispensing liquids, observing the following physical limits:

- use between +15°C and +40°C (59°F and 104°F) of instrument and reagent
- vapor pressure up to max. 600mbar. Aspirate slowly above 300mbar, in order to prevent the liquid from boiling
- kinematic viscosity up to 500mm²/s (dynamic viscosity [mPas] = kinematic viscosity [mm²/s] x density [g/cm³])
- density: Dispensette® III/Dispensette® Organic: up to 2.2g/cm³ and Dispensette® TA up to 3.8g/cm³

Operating Exclusions – Dispensette® III

Never use the Dispensette® III with:

- liquids attacking Al₂O₃-ceramic, ETFE, FEP, PFA and PTFE (e.g., dissolved sodium azide*)
- liquids attacking borosilicate glass (e.g., hydrofluoric acid)
- liquids which are decomposed catalytically by platinum-iridium (e.g., H₂O₂)
- hydrochloric acid > 20% and nitric acid > 30%
- tetrahydrofuran
- trifluoroacetic acid
- explosive liquids (e.g., carbon disulfide)
- suspensions (e.g., of charcoal) as solid particles may clog or damage the instrument
- liquids attacking PP (screw cap)

Operating Exclusions – Dispensette® Organic

Never use the Dispensette® Organic with:

- liquids attacking Al₂O₃-ceramic, tantalum, ETFE, FEP, PFA and PTFE (e.g., dissolved sodium azide*)
- liquids attacking borosilicate glass (e.g., hydrofluoric acid)
- bases and saline solutions
- explosive liquids (e.g., carbon disulfide)
- suspensions (e.g., of charcoal) as solid particles may clog or damage the instrument
- liquids attacking PP (screw cap)

Operating limits and exclusions – Dispensette® TA

Never use the Dispensette® TA with:

- liquids attacking Al₂O₃, sapphire or fluoroplastics like ETFE, FEP, PFA and PTFE (e.g., dissolved sodium azide*)
- liquids which are decomposed catalytically by platinum-iridium (e.g., H₂O₂) or tantalum, depending on the construction of the instrument
- organic solvents
- trifluoroacetic acid
- explosive liquids (e.g., carbon disulfide)
- suspensions (e.g., of charcoal) as solid particles may clog or damage the instrument
- The Dispensette®TA must not be autoclaved

*Dissolved sodium azide permitted up to a concentration of max 0.1%

Dispensette® bottle-top dispensers

ORDERING INFORMATION

Dispensette® III						Without SafetyPrime™ valve		With SafetyPrime™ valve	
Volume, mL	Increments, mL	A* < ±		CV* ≤		Cat. No.	2014		
		%	µL	%	µL		List Price	List Price	

Dispensette® III, Digital Easy Calibration™									
0.2-2	0.01	0.5	10	0.1	2	4701320	\$472.00	4701321	\$514.00
0.5-5	0.02	0.5	25	0.1	5	4701330	472.00	4701331	514.00
1-10	0.05	0.5	50	0.1	10	4701340	472.00	4701341	514.00
2.5-25	0.1	0.5	125	0.1	25	4701350	646.00	4701351	682.00
5-50	0.2	0.5	250	0.1	50	4701360	657.00	4701361	693.00

Dispensette® III, Analog-adjustable									
0.05-0.5	0.01	1.0	5	0.2	1	4701100	419.00	4701101	441.00
0.2-2	0.05	0.5	10	0.1	2	4701120	419.00	4701121	441.00
0.5-5	0.1	0.5	25	0.1	5	4701130	419.00	4701131	441.00
1-10	0.2	0.5	50	0.1	10	4701140	419.00	4701141	441.00
2.5-25	0.5	0.5	125	0.1	25	4701150	588.00	4701151	615.00
5-50	1.0	0.5	250	0.1	50	4701160	605.00	4701161	629.00
10-100	1.0	0.5	500	0.1	100	4701170	935.00	4701171	966.00

Dispensette® III, Fixed-volume									
1		0.5	5	0.1	1	4701210	419.00	4701211	441.00
2		0.5	10	0.1	2	4701220	419.00	4701221	441.00
5		0.5	25	0.1	5	4701230	419.00	4701231	441.00
10		0.5	50	0.1	10	4701240	419.00	4701241	441.00

Dispensette® Organic						Without SafetyPrime™ valve		With SafetyPrime™ valve	
Volume, mL	Increments, mL	A* < ±		CV* ≤		Cat. No.	2014		
		%	µL	%	µL		List Price	List Price	

Dispensette® Organic, Digital Easy Calibration™									
0.5-5	0.02	0.5	25	0.1	5	4731330	\$514.00	4731331	\$542.00
1-10	0.05	0.5	50	0.1	10	4731340	514.00	4731341	542.00
2.5-25	0.1	0.5	125	0.1	25	4731350	690.00	4731351	710.00
5-50	0.2	0.5	250	0.1	50	4731360	714.00	4731361	742.00

Dispensette® Organic, Analog-adjustable									
0.5-5	0.1	0.5	25	0.1	5	4731130	462.00	4731131	472.00
1-10	0.2	0.5	50	0.1	10	4731140	462.00	4731141	472.00
2.5-25	0.5	0.5	125	0.1	25	4731150	647.00	4731151	657.00
5-50	1.0	0.5	250	0.1	50	4731160	657.00	4731161	668.00
10-100	1.0	0.5	500	0.1	100	4731170	1,015.00	4731171	1,035.00

Dispensette® TA							With SafetyPrime™ valve		
Volume, mL	Valve Spring	Subdivision, mL	A* < ± %		CV* ≤ %		Cat. No.	2014	
			%	µL	%	µL		List Price	List Price

Dispensette® TA, Analog-adjustable									
1-10	Platinum-iridium	0.2	0.5	50	0.1	10	4741041	\$1,090.00	
1-10	Tantalum	0.2	0.5	50	0.1	10	4741241	1,090.00	

* The value of accuracy and coefficient of variation are final test values referring to the delivered nominal volume, instrument and distilled water at equilibrium with ambient temperature (20°C/68°F) and with smooth operation.

A*=Accuracy, CV*=Coefficient of Variation



Dispensette® III Digital Easy Calibration™



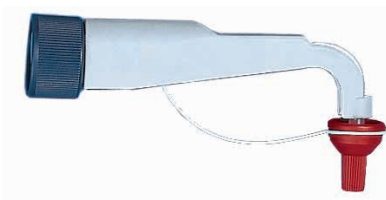
Dispensette® Organic Digital Easy Calibration™



Dispensette® TA with Safety Prime™ Valve

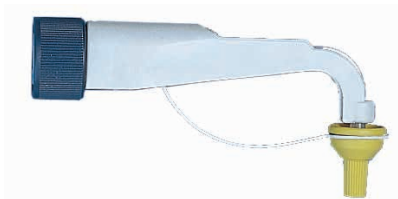
Dispensette® bottle-top dispensers

Dispensette® Accessories



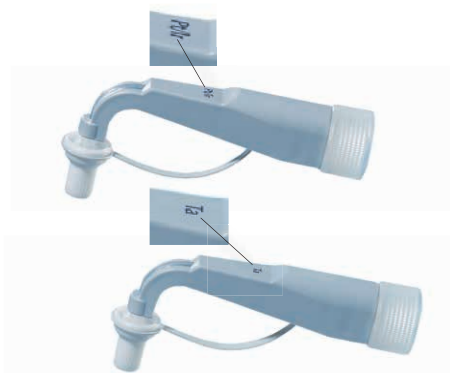
For Disp. III ♦ cap

Discharge tube with integrated valve	Shape	Length, mm	Cat. No.	2014 List Price/each
For Nominal Volume, mL				
0.5, 1, 2, 5, 10	fine tip	90	707915	\$58.00
5, 10	standard	90	707916	54.00
25, 50, 100	standard	120	707917	54.00
25, 50, 100	fine tip	120	707918	54.00



For Disp. Organic ♦ cap

Discharge tube with integrated valve	Shape	Length, mm	Cat. No.	2014 List Price/each
For Nominal Volume, mL				
0.5, 1, 2, 5, 10	fine tip	90	707935	\$58.00
5, 10	standard	90	707936	55.00
25, 50, 100	standard	120	707937	64.00
25, 50, 100	fine tip	120	707938	64.00



For Disp. TA ♦ cap

Discharge tube with integrated valve	Shape	Length, mm	Cat. No. Pt - Ir	Cat. No. Ta.	2014 List Price/each
For Nominal Volume, mL					
5, 1, 2, 5, 10	fine tip	90	707955		\$78.00
5, 1, 2, 5, 10	fine tip	90		707956	\$78.00



Flexible discharge tube

Flexible discharge tube (for Dispensette® III, Dispensette® Organic)

	Cat. No.	2014 List Price/each
PTFE, coiled, length 800mm (= 31.5") with safety handle		
<i>Not suitable for use with peroxides due to platinum-iridium valve spring.</i>		
For Nominal Volume, mL		
1, 2, 5, 10	707925	\$105.00
25, 50, 100	707926	115.00

Flexible discharge tubes for Dispensette® TA NOT FOR USE WITH HF

Platinum-Iridium	707945	237.00
Tantalum	707946	237.00

Dispensette® bottle top accessories



SafetyPrime™ valves



Dispensing Cartridge



Recirculation tube

SafetyPrime™ valves (supplied with seal & recirculation tube)

	Valve Lever	Cat. No.	2014 List Price/each
For Dispensette® III, 0.5mL	Red	706081	\$85.00
For Dispensette® III, 1-100mL	Red	706080	85.00
For Dispensette® Organic	Yellow	706090	85.00
Recirculation tube only	—	8317	8.20

Replacement Parts Dispensette® TA (supplied with seal & recirculation tube)

SafetyPrime™ valves			
Valve spring, Platinum-iridium		706086	\$101.00
Valve spring, Tantalum		706087	101.00
Dispensing Cartridge with Safety Ring			
Nominal volume 10mL, calibrated, includes quality certificate		707542	490.00



Valve spring, Platinum-iridium and Tantalum

Filling valve with sealing washer

	Cat. No.	2014 List Price
For Dispensette® III and Organic, nominal volume, mL		
0.5, 1, 2, 5, 10, each	6697	\$41.00
25, 50, 100, each	6698	46.00
For Dispensette® TA, each	6622	81.00

Filling valve with olive-shaped nozzle (for frequent autoclaving), Dispensette® III and Organic

For Nominal Volume, mL		
0.5, 1, 2, 5, 10, each	6637	\$44.00
25, 50, 100, each	6638	50.00

Seals

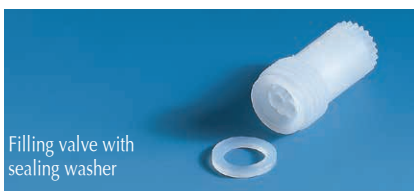
PTFE. With sealing washer.		
Pack of 5 seals each for discharge, SafetyPrime™ and filling valves.	6696	\$19.20

Drying tube

Without drying agent, each	707930	\$39.00
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Micro filter connector assembly with Luer-slip connection

To fit 0.2µm filter for sterile dispensing. Autoclavable (photo page 36).	704495	\$16.80
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Filling valve with sealing washer



Seals



Drying tube

Dispensette® bottletop accessories



Telescoping filling tubes



Amber Bottle



Telescoping filling tubes FEP

For Nominal Volume, mL	Length, mm (inches)	Cat. No.	2014 List Price/each
0.5, 1, 2, 5, 10	70 - 140 (2.6" - 5.5")	704202	\$14.60
0.5, 1, 2, 5, 10	125 - 240 (4.9" - 9.5")	704203	16.40
0.5, 1, 2, 5, 10	250 - 480 (9.8" - 18.9")	704201	19.40
0.5, 1, 2, 5, 10	195-350mm (7.7"-13.8")	704208	31.00
25, 50, 100	170 - 330 (6.7" - 13.0")	704204	20.40
25, 50, 100	250 - 480 (9.8" - 18.9")	704205	22.40

Amber Bottle - Ethylene-acrylate Coated

	Cat. No.	2014 List Price/each
Threaded Bottle, PP screw cap, LDPE pouring ring, 250mL, 33mm	704004	\$19.40
Threaded Bottle, PP screw cap, LDPE pouring ring, 500mL, 33mm	704006	26.60
Threaded Bottle, PP screw cap, LDPE pouring ring, 1000mL, 45mm	704008	33.80
Bottle Stand, PP, 225mm x 160mm x 325mm	704275	220.00

Bottle thread adapters

Bottle thread adapters	PP Cat. No.	2014 List Price/each	ETFE Cat. No.	2014 List Price/each
24mm	704325	17.80	704375	\$18.00
28mm/S28mm	704328	17.80	704378	21.40
33mm	704396	17.80	704398	24.60
38mm	704397	17.80	704399	24.60
S40mm	704343	17.80	704391	36.00
Fits STJ19/32	704419	23.40	—	—
Fits STJ24/40	704424	23.40	—	—
Fits STJ29/42	704429	27.60	—	—

Remote Dispensing (for Dispensette® III, Dispensette® Organic)

	Cat. No.	2014 List Price/each
NOWPak® Remote Dispensing System for Dispensette® (not suitable for use with peroxides)	704284	251.00

Accessories

Filling tube, FEP, 10m, outer 7.6mm	704267	211.00
Filling tube, FEP, 1m, outer 6.9mm	704269	19.40
Thread adapter, Steel, outer thread 2", inner thread 3/4"	704270	101.00
Thread adapter, PTFE, inner thread 3/4" (33mm), for direct mounting of Dispensette® on drum	704281	69.00
Thread adapter, PTFE, inner thread 3/4" (33mm), to connect remote dispensing system with drums with GL outer thread	704282	64.00
Support rod connector, for wall mounting unit	704268	60.00
Table/shelf clamp, for wall mounting unit	704272	28.60



Remote Dispensing System for Dispensette®

seripettor®

The seripettor® bottle-top dispenser is an economical wiping seal dispenser suitable for many commonly used reagents in biological, clinical, medical, and chemical laboratories. It precisely dispenses a wide variety of liquids. Optional accessories, such as the flexible discharge tube, are available to increase productivity and convenience.

- **Dispenses Most Non-Aggressive Liquids:** The seripettor® is a low-cost, reliable tool for dispensing measured volumes of weak acids, alkaline solutions, polar solvents, isotonic solutions, methanol, and acetylacetone. See selection guide on page 47.
- **Simplifies Dispensing:** Notched volume selector allows for quick and exact volume adjustment. Spring-driven refill function enables one-handed operation.
- **Convenient Cleaning and Maintenance:** Innovative design permits simple disassembly and rapid replacement of wearing parts, extending instrument life.
- **Fits Most Reagent Containers:** The 45mm standard thread plus the included adapters with 33mm and 40mm thread fits most common lab bottles.
- **Dispenses Sterile Media:** Accessories are available for sterile dispensing



A Rugged,
Economical Tool for
Routine Dispensing.



seripettor® bottletop dispenser

Technical data

Operating limits and exclusions

Never use this instrument with:

- liquids attacking FEP, PP, PE or EPDM
- non-polar solvents like hydrocarbons and halogenated hydrocarbons
- concentrated or oxidizing acids
- explosive liquids (e.g., carbon disulfide)

This instrument is designed for dispensing liquids, observing the following limits:

- vapor pressure up to 500mbar
- density up to 2.2g/cm³
- temperature of use between 15° and 40°C (59° and 104°F of instrument and reagent) (agar cultures up to 60°C)
- viscosity
 2mL instrument: 300mm²/s
 10mL instrument: 150mm²/s
 25mL instrument: 75mm²/s
 (dynamic viscosity [mPas] = kinematic viscosity [mm²/s] x density [g/cm³])

Sterile dispensing

Optional accessories are available to make dispensing of agar and other sterile liquids quick and easy with the seripettor®. These include:

- Sterile dispensing cartridges
- Valve block cap
- Special filling tube for autoclaving
- 0.2µm membrane filter



Sterile dispensing cartridge installation.



[1] Dispensing cartridge, non-sterile



[2] Dispensing cartridge, sterile



[3] Flexible discharge tube



[4] Valve block cap



[5] 0.2µm Membrane filter



[6] Discharge Tube

Items supplied

Each seripettor® bottletop dispenser includes:

- Spare dispensing cartridge
- Discharge tube
- Telescoping filling tube
- Operating manual
- Two PP adapters, 45/S40mm and 45/33mm. See page 43 for other adapters
- One-year warranty

ORDERING INFORMATION

volume, mL	Subdivision, mL	A* < ± %	CV* ≤ %	Cat. No.	2014 List Price
seripettor®					
0.2-2	0.04	1.2	0.2	4720120	\$132.00
1-10	0.2	1.2	0.2	4720140	132.00
2.5-25	0.5	1.2	0.2	4720150	167.00

NEW!

* The value of accuracy and coefficient of variation are final test values referring to the delivered nominal volume, instrument and distilled water at equilibrium with ambient temperature (20°C/68°F) and with smooth operation.

A*=Accuracy, CV*=Coefficient of Variation

Description	Photo	Pack of	Cat. No.	2014 List Price
Replacement Parts				
Dispensing cartridge, for 2mL seripettor®, non-sterile	1	3	704500	\$45.00
Dispensing cartridge, for 10mL seripettor®, non-sterile	1	3	704502	45.00
Dispensing cartridge, for 25mL seripettor®, non-sterile	1	3	704504	63.00
Dispensing cartridge, for 2mL seripettor®, sterile	2	7	704507	118.00
Dispensing cartridge, for 10mL seripettor®, sterile	2	7	704506	118.00
Dispensing cartridge, for 25mL seripettor®, sterile	2	5	704508	125.00
Flexible discharge tubing for 25mL seripettor® PTFE, 800mm	3	1	704523	114.00
Flexible discharge tubing for 2mL & 10mL seripettor® PTFE, 800mm	3	1	704522	92.00
Discharge tube for 2mL seripettor®	6	1	704518	28.00
Discharge tube for 10mL and 25mL seripettor®	6	1	704520	28.00
Valve block cap for 2mL & 10mL seripettor®, PP	4	1	704552	25.60
Valve block cap for 25mL seripettor®, PP	4	1	704554	25.60
Filling tube for sterile applications, 250mm		1	704536	8.00
Filling tube for sterile applications, 500mm		1	704538	11.20
Membrane filter, 0.2µm, non-sterile	5	10	26535	84.00

Bottles & Adapters

See detailed listing on page 43

seripettor[®] pro

The seripettor[®] pro is a bottletop dispenser designed to handle a wider range of liquids than the regular seripettor[®] for customers who do not require all of the features of the Dispensette[®]. Like the regular seripettor[®], it features an easily-replaceable wiping seal dispensing cartridge, making it especially suitable for liquids that tend to form crystals.

- **Wide Chemical Range:** Valves and seals on the seripettor[®] pro allow a broader range of liquids to be dispensed than the regular seripettor[®].
- **Protects Light-sensitive Reagents:** Pump assembly with Hastalloy stainless steel spring. An opaque upper sleeve helps protect liquid from UV-light during dispensing operations, while permitting observation of cylinder to confirm purging of bubbles.
- **Replaceable Dispensing Cartridge:** Quick-change cartridge makes service a breeze and keeps life-time service costs low. If wiping seals wear out, or are damaged by crystallizing reagents, just change the inexpensive cartridge, and you're back in business!
- **Telescoping Filling Tube:** Adjusts to fit many bottles without cutting.
- **Discharge tube with a threaded Safety Screw Cap:** Attaches and removes with a quick twist
- **Spring-loaded Piston:** Permits one-handed, semi-automatic operation.
- **Threaded Safety Cap:** Attaches and removes with a quick twist.

An Economical, Versatile Wiping-Seal Dispenser.



ORDERING INFORMATION

Volume, mL	Subdivision, mL	A* \pm %	CV* \leq %	Cat. No.	2014 List Price
NEW! 0.2-2	0.04	1.2	0.2	4720420	\$332.00
1-10	0.2	1.2	0.2	4720440	332.00
2.5-25	0.5	1.2	0.2	4720450	474.00

A*=Accuracy, CV*=Coefficient of Variation

* The value of accuracy and coefficient of variation are final test values referring to the delivered nominal volume, instrument and distilled water at equilibrium with ambient temperature (20°C/68°F) and with smooth operation.



[1] Dispensing cartridge, non-sterile



[2] Flexible discharge tube



[3] Telescoping filling tubes, FEP

Description	Photo	Pack of	Cat. No.	2014 List Price
Dispensing cartridge				
Dispensing cartridge, for 2mL seripettor [®] pro, non-sterile	1	3	704500	\$45.00
Dispensing cartridge, for 10mL seripettor [®] pro, non-sterile	1	3	704502	45.00
Dispensing cartridge, for 25mL seripettor [®] pro, non-sterile	1	3	704504	63.00
Flexible discharge tube for 2mL & 10mL seripettor [®] pro	2	1	704522	92.00
Flexible discharge tube for 25mL seripettor [®] pro	2	1	704523	114.00
Discharge tube for 2mL seripettor [®] pro		1	707915	58.00
Discharge tube for 10mL seripettor [®] pro		1	707916	54.00
Discharge tube for 25mL seripettor [®] pro		1	707918	54.00

Bottle Thread Adapters

See detailed thread adapter listing on page 43.

Telescoping filling tubes

For Nominal Volume, mL	Length, mm (inches)	Photo	Pack of	Cat. No.	2014 List Price
2, 10	70 - 140 (2.6 - 5.5)	3	1	704202	\$14.60
2, 10	125 - 240 (4.9 - 9.5)	3	1	704203	16.40
2, 10	250 - 480 (9.8 - 18.9)	3	1	704201	19.40
2, 10	195 - 350 (7.7 - 13.8)	3	1	704208	31.00
25	170 - 330 (6.7 - 13.0)	3	1	704204	20.40
25	250 - 480 (9.8 - 18.9)	3	1	704205	22.40

seripettor® pro bottle top dispenser

Operating limits and exclusions

Never use this instrument with:

- liquids attacking PP, PE, Al₂O₃ - ceramic, ETFE, FEP, PFA and PTFE (e.g., dissolved sodium azide*)
- liquids attacking borosilicate glass (e.g., hydrofluoric acid)
- liquids which are decomposed catalytically by platinum-iridium (e.g., H₂O₂)
- non-polar solvents like hydrocarbons and halogenated hydrocarbons
- concentrated or oxidizing acids (excluding HCl)
- explosive liquids (e.g., carbon disulfide)
- suspensions (e.g., of charcoal) as solid particles may clog or damage the instrument

This instrument is designed for dispensing liquids, observing the following limits:

- vapor pressure up to 500mbar
- density up to 2.2g/cm³
- temperature 15° to 40°C (59° to 104°F)
- viscosity
2mL instrument: 1300mm²/s
10mL instrument: 150mm²/s
25mL instrument: 75mm²/s
(dynamic viscosity [mPas] = kinematic viscosity [mm²/s] x density [g/cm³])

*Dissolved sodium azide permitted up to a max. of 0.1%

Items supplied

Each seripettor® pro bottle top dispenser includes:

- Spare dispensing cartridge
- Discharge tube
- Telescoping filling tube
- Two PP adapters, 45/S40mm and 45/33mm. See page 43 for other adapters
- Operating manual
- One-year warranty



Areas of application / Chemical selection list (as of January 2014)

■ seripettor® dispenser ■ seripettor® pro dispenser

Reagent	seripettor®	seripettor pro®	Reagent	seripettor®	seripettor pro®
Acetaldehyde		+	Glycol (Ethylene glycol)	+	+
Acetic acid, 5%	+	+	Glycolic acid, 50%	+	+
Acetic acid, 96%		+	Hexanoic acid	+	+
Acetic acid (glacial), 100%		+	Hexanol		+
Acetone		+	Hydriodic acid	+	+
Acetonitrile		+	Hydrobromic acid		+
Acetophenone	+		Hydrochloric acid, 37%		+
Acetylacetone	+	+	Hydrogen peroxide, 35%	+	
Acrylic acid		+	Isoamyl alcohol		+
Acrylonitrile		+	Isobutanol	+	+
Adipic acid	+	+	Isopropanol (2-Propanol)	+	+
Agar (60°C)	+	+	Lactic acid	+	+
Allyl alcohol	+	+	Methanol	+	+
Aluminium chloride	+	+	Methyl benzoate		+
Amino acids	+	+	methyl ethyl ketone		+
Ammonia 30%	+	+	Methyl propyl ketone		+
Ammonium chloride	+	+	Mineral oil (Engine oil)		+
Ammonium fluoride	+	+	Monochloroacetic acid		+
Ammonium sulfate	+	+	Nitric acid, 10%		+
Amyl alcohol (Pentanol)	+	+	Oxalic acid	+	+
n-Amyl acetate		+	Perchloric acid		+
Aniline		+	Phenol		+
Barium chloride	+	+	Phosphoric acid, 85%		+
Benzaldehyde		+	Piperidine		+
Benzyl alcohol		+	Potassium chloride	+	+
Benzylamine		+	Potassium dichromate	+	+
Benzylchloride		+	Potassium hydroxide	+	+
Boric acid, 10%	+	+	Potassium hydroxide in ethanol	+	+
Butanediol	+	+	Potassium permanganate	+	+
1-Butanol		+	Propionic acid	+	+
Butylamine		+	Propylene glycol (Propanediol)	+	+
n-Butyl acetate		+	Pyridine		+
Calcium carbonate	+	+	Pyruvic acid	+	+
Calcium chloride	+	+	Salicylaldehyde		+
Calcium hydroxide	+	+	Salicylic acid	+	+
Calcium hypochlorite		+	Silver acetate	+	+
Chloroacetaldehyde, 45%		+	Silver nitrate	+	+
Chloroacetic acid		+	Sodium acetate	+	+
Chromic acid, 50%		+	Sodium chloride	+	+
Copper sulfate	+	+	Sodium dichromate	+	+
Cumene (Isopropyl benzene)		+	Sodium fluoride	+	+
Diethylene glycol	+	+	Sodium hydroxide, 30%	+	+
Dimethyl sulfoxide (DMSO)		+	Sodium hypochlorite (active Chlorine approx. 10%)		+
Dimethylaniline		+	Sulfuric acid, 10%	+	+
Ethanol	+	+	Tartaric acid		+
Formaldehyde, 40%	+	+	Urea	+	+
Formamide	+	+	Zinc chloride, 10%	+	+
Formic acid, 100%		+	zinc sulfate, 10%	+	+
Glycerol	+	+			

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 BrandTech. Status as of: 0114/9.

NOTE: The seripettor® & seripettor® pro bottle top dispensers cannot be used with hydrofluoric acid (HF). See page 37 of the BrandTech 2014/2015 catalog for description of the Dispensette® TA Pt-Ir dispenser which is the only BRAND dispenser designed for use with HF.

For the most current version of this chart, visit our website www.brandtech.com.

piccolo™

NEW!



The piccolo™ is a compact wiping seal dispenser for dispensing small measured quantities of liquids in all areas of biochemical and medical research.

Made from high quality materials, its small size and semi-automatic operation make it a natural for standardized procedures and kits where small volumes of reagents need to be dispensed. The spring loaded piston design enables one-handed operation.

The piccolo™ comes in two versions: The piccolo™ 1 is a fixed volume instrument, while piccolo™ 2 model has two preset volumes.

Never use the piccolo™ with aggressive media. The piccolo™ is especially designed for applications in connection with aqueous and highly diluted agents.

All piccolo™ instruments are supplied with a GL 28 thread, valve mounting tool, 150mm filling tube and operating manual.

ORDERING INFORMATION

Instrument type	Volume setting(s), µL	A* ≤±%	CV* ≤%	Cat. No.	2014 List Price
piccolo™ 1	100	3.0	0.4	V1610501	\$399.00
piccolo™ 1	200	2.5	0.4	V1610502	399.00
piccolo™ 1	250	2.0	0.4	V1610503	399.00
piccolo™ 1	500	1.5	0.3	V1610504	399.00
piccolo™ 1	1000	1.0	0.2	V1610506	399.00
piccolo™ 2	100 / 250	2.0	0.4	V1611503	450.00
piccolo™ 2	500 / 1000	1.0	0.2	V1611506	450.00
piccolo™ 2	1000 / 2000	1.0	0.2	V1611508	450.00

A*=Accuracy, CV*=coefficient of variation according to DIN EN ISO 8655-5
Other volumes are available upon request.

An adapter is available to mount the piccolo™ to GL 32/33mm threaded bottles. Inquire about other thread adapters for the piccolo™.

ORDERING INFORMATION

Description	Dispenser Thread	Bottle thread	Cat. No.	2014 List Price
piccolo™ thread adapter	GL28	GL32	V1670145	\$23.40

