

# TITRETTE® BOTTLETOP BURETTE

The World's Only Bottletop Burette With Class A Precision

The BRAND® Titrette® bottletop burette makes routine titrations faster, easier and more accurate. The Titrette® avoids the risk of spills from poured transfers to glass or plastic burettes, eliminates meniscus reading errors and offers accuracy that satisfies the tolerances for Class A glass burettes. The instrument is well suited for general chemistry, water treatment applications, food/beverage analysis, industrial titrations, and environmental work in the lab or field.

- **High Accuracy:** Precise titrations within the error limits of Class A glass burettes.
- **Smooth Operation:** Mechanism fills and titrates smoothly and easily, for exceptionally sensitive drop-wise titrations.
- **Compact Design:** The Titrette® operates in a fixed position on top of titrant bottles. The low-profile design is more stable and fits readily under shelves and cabinets.
- **Easy Handling:** The Titrette® switches automatically between filling and titrating modes. The titrating tube adjusts vertically and horizontally to match receiving vessels, and operation is cordless, using economical commercial batteries that are protected from corrosive vapors.
- **Simple Maintenance:** The Titrette® can be disassembled for cleaning, ensuring long, reliable service even with crystallizing titrants. Easy Calibration™ technology simplifies ISO/GLP compliance.
- **Special Options:** Amber windows (included) protect light-sensitive reagents. Optional drying tube protects moisture-sensitive titrants.
- **PC Interface:** Models available with direct data transmission to PC.

Visit [www.brandtech.com](http://www.brandtech.com) for more details.



## Class A precision

The Titrette® bottletop burette has an innovative measuring system which matches the Class A accuracy of glass burettes and, if needed, can display 3 decimal places for volumes below 20 mL. This is an important feature for users who need to work within the Class A error limits of glass burettes according to DIN EN ISO 385 or within the volumetric tolerances per ASTM E287.



Product appearance, catalog numbers, prices, specifications, and technical information are subject to change without notice.

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## Chemical Applicability

The Titrette® is suitable for use with the following titrating agents up to a concentration of 1 mol/L

|  |  |  |
|--|--|--|
| Acetic acid                            | Oxalic acid solution                   | Sodium hydroxide solution                |
| Alcoholic potassium hydroxide solution | Perchloric acid                        | Sodium nitrite solution                  |
| Ammonium iron (II) sulfate solution    | Perchloric acid in glacial acetic acid | Sodium thiosulfate solution              |
| Ammonium thiocyanate solution          | Potassium bromate solution             | Sulfuric acid                            |
| Barium chloride solution               | Potassium bromide bromate solution     | Tetra-n-butylammonium hydroxide solution |
| Bromide bromate solution               | Potassium dichromate solution          | Triethanolamine in acetone*              |
| Cerium (IV) sulfate solution           | Potassium hydroxide solution           | Zinc sulfate solution                    |
| EDTA solution                          | Potassium iodate solution              |  |
| Hydrochloric acid                      | Potassium permanganate solution*       |  |
| Hydrochloric acid in acetone           | Potassium thiocyanate solution         |  |
| Iodide iodate solution*                | Silver nitrate solution*               |  |
| Iodine solution*                       | Sodium arsenite solution               |  |
| Iron (II) sulfate solution             | Sodium carbonate solution              |  |
| Nitric acid                            | Sodium chloride solution               |  |

This partial list reflects testing completed prior to publication of this flyer. For information on reagents not listed, please contact us.

\* Use lightshield inspection window

## Comparison of error limits

| Volume mL | Partial volume mL | Titrette® bottletop burette |    |         |    | Bottletop burettes according to DIN EN ISO 8655-3 |     |         |    | Glass burettes Class A according to DIN EN ISO 385 and ASTM E287 |
|-----------|-------------------|-----------------------------|----|---------|----|---|-----|---------|----|--|
|           |                   | A* < + %                    | μL | CV* < % | μL | A* < + %  | μL  | CV* < % | μL | EL** (DIN EN ISO) Volumetric Tolerance (ASTM) +μL                |
| 10        | 10                | 0.10                        | 10 | 0.05    | 5  | 0.3   | 30  | 0.1     | 10 | 20   |
|           | 5                 | 0.20                        | 10 | 0.10    | 5  | 0.6   | 30  | 0.2     | 10 | 20   |
|           | 1                 | 1.00                        | 10 | 0.50    | 5  | 3   | 30  | 1       | 10 | 20   |
| 25        | 25                | 0.07                        | 18 | 0.025   | 6  | 0.2   | 50  | 0.1     | 25 | 30   |
|           | 12.5              | 0.14                        | 18 | 0.05    | 6  | 0.4   | 50  | 0.2     | 25 | 30   |
|           | 2.5               | 0.70                        | 18 | 0.25    | 6  | 2   | 50  | 1       | 25 | 30   |
| 50        | 50                | 0.06                        | 30 | 0.02    | 10 | 0.2   | 100 | 0.1     | 50 | 50   |
|           | 25                | 0.12                        | 30 | 0.04    | 10 | 0.4   | 100 | 0.2     | 50 | 50   |
|           | 5                 | 0.60                        | 30 | 0.20    | 10 | 2   | 100 | 1       | 50 | 50   |

\* Error limits related to the nominal capacity (= maximum volume) indicated on the instrument, obtained when instrument and distilled water are equilibrated at ambient temperature (20° C/68° F) and with smooth operation.

\*\* Error limit: EL = A + 2 CV

A\*=Accuracy, CV\*=Coefficient of Variation The maximum resolution of the display: The titration volume is displayed in steps of 1 μL for instruments with 10 mL and 25 mL size and in steps of 2 μL for 50mL size instruments. For titration volumes above 20mL the display will automatically switch to steps of 10 μL.

## PC interface (optional)

Models available with direct data transmission to a PC.



### Titrette® bottletop burette

| Description | Standard Cat. No.       | Standard 2021 List Price | Interface Cat. No.      | Interface 2021 List Price |
|-------------|-------------------------|--------------------------|-------------------------|---------------------------|
| 10 mL       | <a href="#">4760141</a> | \$1,858.80               | <a href="#">4760241</a> | \$2,333.00                |
| 25 mL       | <a href="#">4760151</a> | 1,858.80                 | <a href="#">4760251</a> | 2,333.00                  |
| 50 mL       | <a href="#">4760161</a> | 1,858.80                 | <a href="#">4760261</a> | 2,333.00                  |

Interface models include: connector cable (Sub-D plug connector, 9-pin), one CD (driver software and open RS232 communication protocol). The CD also includes an example application in XLS-file format, as well as a special operating manual.

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