

Dispensette® TA · Trace Analysis  
for dispensing high-purity chemicals.



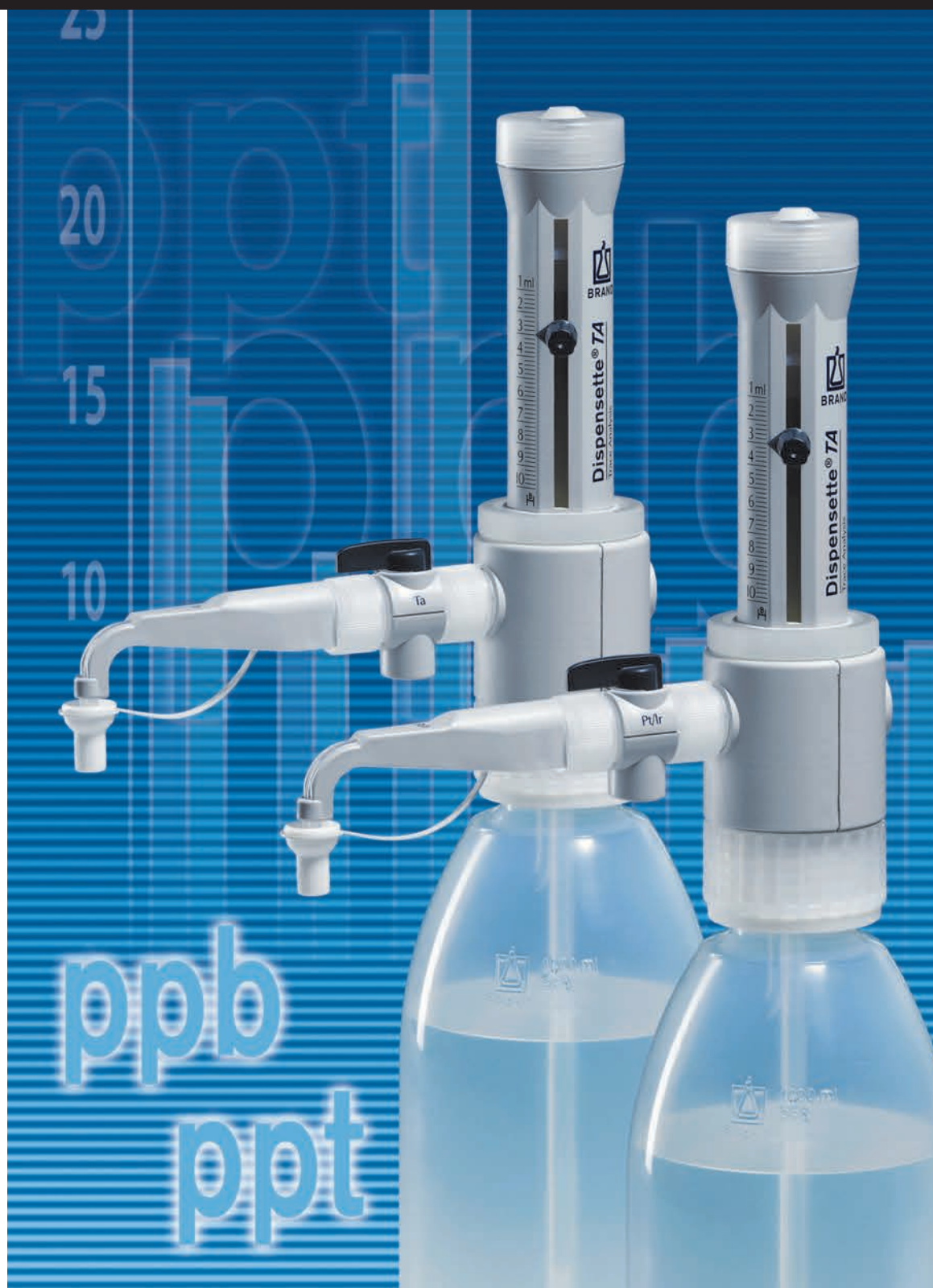
# Dispensette® TA

F I R S T C L A S S · B R A N D

The Dispensette® TA provides outstanding performance for precise-volume dispensing of high-purity media for trace analysis.

The components of the fluid path are constructed of the highest purity materials, such as PFA, PTFE and sapphire. Depending on application, either platinum-iridium or tantalum valve springs can be chosen. The volume range is from 1 to 10 ml.

- Especially well suited for dispensing acids, bases and hydrogen peroxide. Also suitable for hydrofluoric acid.
- Trace metal content of dispensed liquid is generally in the low ppb range, or, depending on application, even in the ppt range.
- Suitable for dispensing hydrofluoric acid with Pt/Ir valve spring.



# Dispensing of high-purity chemicals in trace analysis



## Product features

- 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.
- If contamination of the bottle contents must be avoided, we recommend using the device without the SafetyPrime™ recirculation valve.
- The 45 mm standard thread plus the 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.
- Telescoping filling tube adjusts to different bottle sizes
- Easy disassembly 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       | +                     | +                |
| Phosphoric acid       | +                     | +                |
| Sodium hydroxide, 30% | +                     | -                |
| Sulfuric acid         | +                     | +                |
| Water                 | +                     | +                |

+ suitable, - not suitable

### \* Note:

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 BRAND. Status as of: 0314/2

## Error limit

| Nominal volume | A* ≤ ± |    | CV* ≤ |    |
|----------------|--------|----|-------|----|
|                | %      | µl | %     | µl |
| 10             | 0.5    | 50 | 0.1   | 10 |

\* A = Accuracy, CV = Coefficient of Variation

Error limits according DIN EN ISO 8655-5 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). Testing takes place according DIN EN ISO 8655-6 with a completely filled instrument and with uniform and smooth dispensing. Conformity certified according to DIN 12 600.

## Handling



### Replaceable dispensing cartridge

If the piston seal is worn after an extended 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.

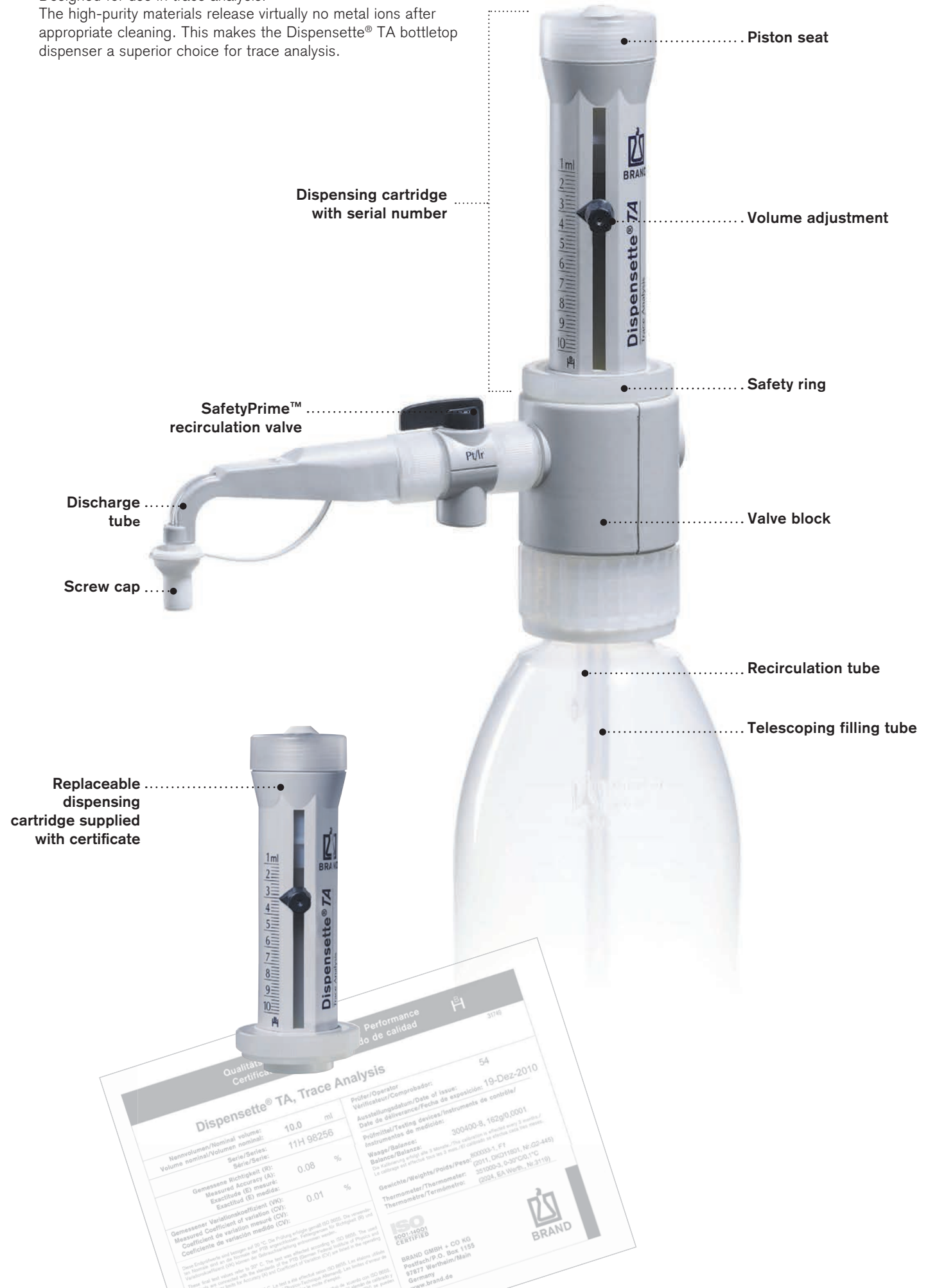


### Serial dispensing

For easy serial dispensing, an optional flexible discharge tube with textured safety handle (must not be used 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.

# A closer look

Designed for use in trace analysis. 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.



# Ordering Information

## Dispensette® TA, Analog-adjustable

Items supplied:

Bottle-top dispenser Dispensette® TA, conformity certified, performance certificate, telescoping filling tube, SafetyPrime™ recirculation valve and recirculation tube (optional), mounting tool, bottle adapters GL 28/S 28 (ETFE), GL 32 (ETFE) and S 40 (PTFE) and operating manual.

| Capacity ml | Valve spring     | without SafetyPrime™<br>recirculation valve<br>Cat. No. | with SafetyPrime™<br>recirculation valve<br>Cat. No. |
|-------------|------------------|---|--|
| 10          | Platinum-iridium | 4740 040  | 4740 041   |
| 10          | Tantalum         | 4740 240  | 4740 241   |



## Accessories · Spare parts

### SafetyPrime™ recirculation valves

Pack of 1.

#### Valve spring, Platinum-iridium

Cat. No. 7060 86

#### Valve spring, Tantalum

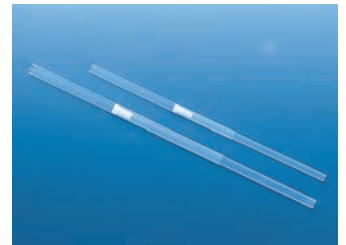
Cat. No. 7060 87



### Telescoping filling tubes

FEP. Adjusts to various bottle heights. Pack of 1.

| Length mm | Cat. No. |
|-----------|----------|
| 70-140    | 7042 02  |
| 125-240   | 7042 03  |
| 195-350   | 7042 08  |
| 250-480   | 7042 01  |



### Discharge tubes with integrated valve

Tube closure cap, PTFE,  
Pack of 1.

| Nominal volume ml | Valve spring     | Length mm | Cat. No. |
|-------------------|------------------|-----------|----------|
| 10                | Platinum-iridium | 90        | 7079 55  |
| 10                | Tantalum         | 90        | 7079 56  |



### Dispensing cartridge with safety ring

Nominal volume 10 ml, cali-  
brated, incl. quality certificate.  
Pack of 1.

Cat. No. 7075 42



### Filling valve with sealing washer

Pack of 1.

Cat. No. 6622



### Bottle Stand

PP. Support rod 300 mm,  
Base plate 220 x 160 mm,  
Weight 1.130 g  
Pack of 1.

Cat. No. 7042 75



Additional accessories for the Dispensette® TA can be found in the operating manual, or at [www.brand.de](http://www.brand.de).

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