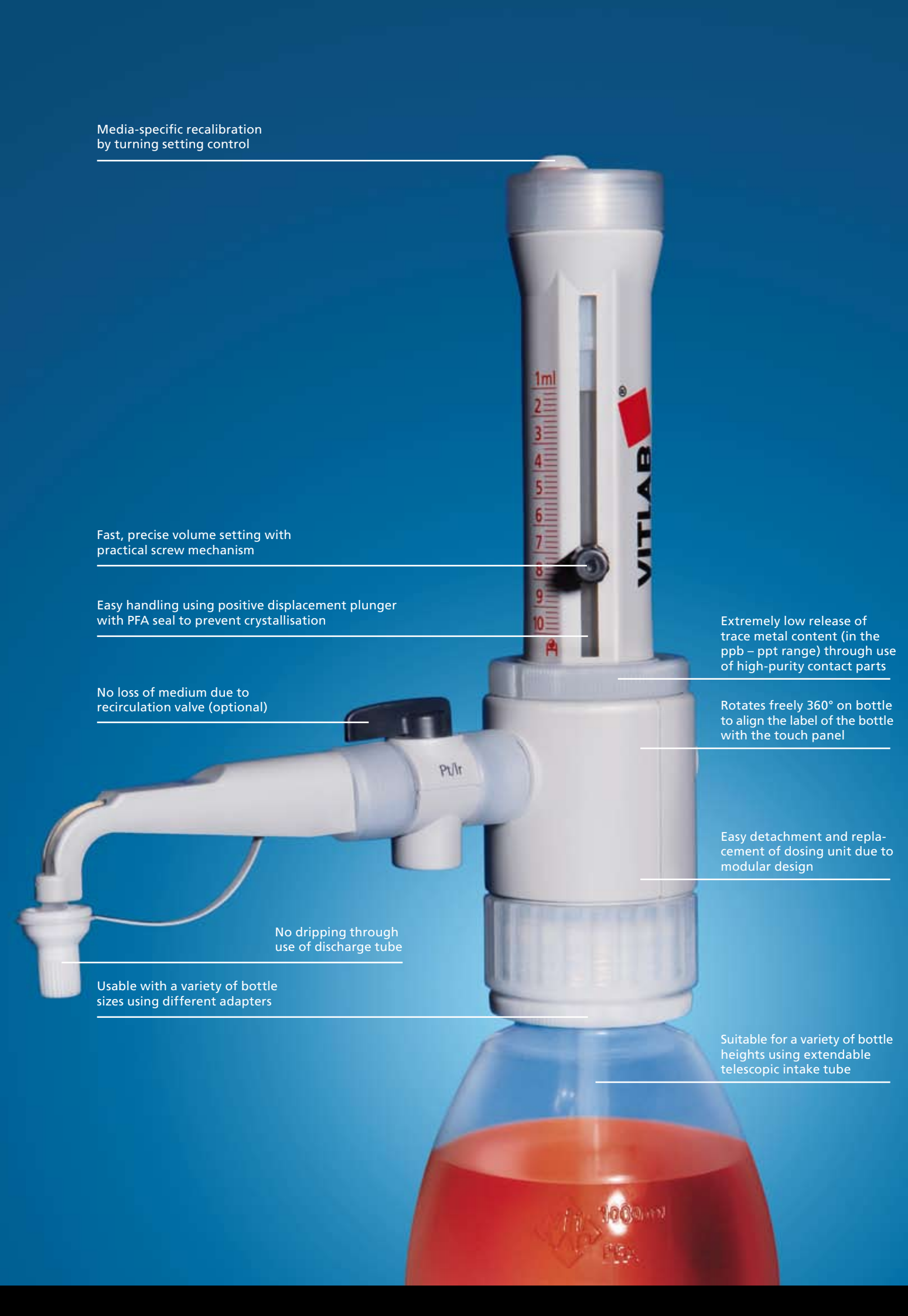
Perfect Liquid Handling

DESIGNED FOR TRACE ANALYSIS - HIGHEST PRECISION AND PURITY

NEW!

VITLAB®
Competence in Labware


Media-specific recalibration
by turning setting control
Fast, precise volume setting with
practical screw mechanism
Easy handling using positive displacement plunger
with PFA seal to prevent crystallisation
No loss of medium due to
recirculation valve (optional)
No dripping through
use of discharge tube
Usable with a variety of bottle
sizes using different adapters
Extremely low release of
trace metal content (in the
ppb – ppt range) through use
of high-purity contact parts
Rotates freely 360° on bottle
to align the label of the bottle
with the touch panel
Easy detachment and repla-
cement of dosing unit due to
modular design
Suitable for a variety of bottle
heights using extendable
telescopic intake tube
VITLAB
Pt/Ir

Precise dosing with total reliability

Bottle-top dispenser VITLAB® TA

The new bottle-top dispenser VITLAB® TA was specially developed for use in trace analysis. The new dispenser optimises sample preparation and processing and helps make lab procedures simpler through its ease of handling.

As the results of trace analysis must not be allowed to suffer the effects of contaminated media, particularly pure and extremely chemically resistant materials such as PFA, PTFE and sapphire were used to make the relevant parts. The release of trace metal content is generally in the low ppb range, or, depending on application, even in the ppt range.

Where required, the complete dosing unit can be replaced by the user without the need for tools. The replaceable dosing unit is delivered pre-calibrated and with a quality certificate. Therefore no calibration is necessary after replacement.

Longer series of dosing actions can be made easier by using the flexible dosing tube (optional; not permitted for HF) with safety grip. It can be used to fill narrow reaction vessels quickly and precisely. The full functionality of the recirculation valve and the safety discharge system will be retained.

You can select to use platinum-iridium or tantalum for your removable valve springs, depending on your application. The platinum-iridium spring is best suited for use with hydrofluoric acid and caustic soda, while tantalum is used when dosing hydrogen peroxide (see table).

Dispenser VITLAB® TA

Made in Germany

With variable volume and media-specific recalibration.
Certified as conforming to DIN 12600.

Included: VITLAB® TA bottle-top dispenser, Certificate of Quality, telescopic intake tube, assembly key, GL 28/S 28 (ETFE), GL 32 (ETFE) and S 40 (PTFE) bottle adapters and user instructions. Optionally with recirculation valve.

Error tolerance conforming to DIN EN ISO 8655-5:

Nominal volume:	10 ml
Accuracy*:	≤ ± 0.5 % / 50 µl
Coefficient of variation*:	≤ 0.1 % / 10 µl

Dispenser VITLAB® TA

Art. No.	Volume ml	Valve spring	Recirculation	Graduation ml	A* ≤ ± %	A* ≤ ± µl	CV* ≤ %	CV* ≤ µl	PU
1607515	10	Platinum-iridium	No	0.2	0.5	50	0.1	10	1
1607525	10	Platinum-iridium	Yes	0.2	0.5	50	0.1	10	1
1607535	10	Tantalum	No	0.2	0.5	50	0.1	10	1
1607545	10	Tantalum	Yes	0.2	0.5	50	0.1	10	1

* Error tolerance conforming to DIN EN ISO 8655-5, related to the nominal (maximum) volume marked on the device where the device, environment and distilled H_2O are at the same temperature (20 °C). Checks are done in accordance with DIN EN ISO 8655-6 with the device filled to capacity and with uniform and jolt-free dosing. Certified as conforming to DIN 12 600.

Recommended application

Dosing medium	Pt-Ir valve spring	Ta valve spring
Ammonia solution	+	+
Bromine	+	+
Acetic acid	+	+
Hydrofluoric acid*	+	-
Sodium hydroxide, 30%	+	-
Perchloric acid	+	+
Nitric acid	+	+
Hydrochloric acid	+	+
Sulphuric acid	+	+
Water	+	+
Hydrogen peroxide	-	+

+ suitable, - not suitable

* Note: Hydrofluoric acid reacts slightly with sapphire. Therefore a minor increase of the aluminium level may occur.

Accessories for Dispenser VITLAB® TA

Made in Germany

Recirculation valve

Exchangeable, depending on usage, platinum-iridium or tantalum valves can be selected.

Art. No.	Valve spring	PU
1671050	Platinum-iridium	1
1671055	Tantalum	1

Dosing unit

Calibrated, includes safety ring, with quality certificate. Nominal volume 10 ml.

Art. No.	PU
1670700	1

Plastic stand

For secure positioning, made of 100% polypropylene (with no metal) for contamination-free results. Dimensions: Base plate 220 x 160 mm, Stand rod 300 mm, Weight: 1.130 g.

Art. No.	PU
1671116	1

The ideal accessory for VITLAB® TA: PFA sample containers

VITLAB's PFA products are characterised by their smooth, liquid repellent surfaces. This special feature makes them easier to clean and ensures almost no interaction with the sample. This is how PFA's excellent properties facilitate the reliability of analytical results in trace analysis.

You can find our wide range of PFA sample recipients in our online catalogue at **www.vitlab.de.**

More information about VITLAB®?

We will be happy to send you more information about

- VITLAB® laboratory products for volume measurement
- VITLAB® laboratory products for saving and storing
- VITLAB® catalogue with complete product range

or

- the options for customized imprints on VITLAB® laboratory products.

Distributor:

VITLAB GmbH • Linus-Pauling-Str. 1 • 63762 Grossostheim • Germany
tel: +49 (0) 6026 9 77 99-0 • fax: +49 (0) 6026 9 77 99-30 • e-mail: info@vitlab.de • www.vitlab.de

3061, printed in Germany, 0312, R+S ICONOMIC