Bottle-top dispensers

VITLAB® TA²

The VITLAB® TA² dispenser is the dosing device of choice to meet the demanding purity standards required in trace analysis. The high quality parts that come exclusively in contact with the medium and the specially developed and proven cleaning process to be done before use results in **a reduced release of trace metal ions to the low ppb range, or, depending on the application, even the ppt range**. The parts that are in contact with media are made of various fluoroplastics (e.g. ETFE, FEP, PFA, PTFE, PCTFE), Al_2O_3-sapphire, platinum-iridium or tantalum (depending on model).

Thanks to the excellent chemical resistance of the materials used, the new dispenser can also be deployed with **highly concentrated acids and bases**, such as perchloric, sulphuric and nitric acid. Depending on the application, there is a choice of two different valve spring systems: the VITLAB® TA² with tantalum spring is recommended for dosing of hydrogen peroxide (H_2O_2). For applications using sodium hydroxide (up to a max. concentration of 30%) or hydrogen fluoride (HF) the platinum-iridium spring is recommended. In order to minimize the loss of valuable reagents or sample solutions, VITLAB offers the dispenser with the optional recirculation valve. Also available with DAkkS calibration certificate.

Included in delivery:
VITLAB® TA² dispenser (screw thread GL 45) with adjustable variable volumes, DE-M marked, with quality certificate, telescopic filling tube, mounting tool, GL 28/S 28 (ETFE), GL 32 (ETFE), and S 40 (PTFE) bottle adapters, and instruction manual. Optionally with or without recirculation valve.

Volume ml	Valve spring	Recirculation	Graduation ml	A* ≤ ± %	CV* ≤ %	PU	Cat. No.
1.0 - 10.0	Pt-Ir	no	0.2	0.5	0.1	1	1627515
1.0 - 10.0	Pt-Ir	yes	0.2	0.5	0.1	1	1627525
1.0 - 10.0	Ta	no	0.2	0.5	0.1	1	1627535
1.0 - 10.0	Ta	yes	0.2	0.5	0.1	1	1627545

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 dispensing media for VITLAB® TA²

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%	+	-
Sulphuric acid	+	+
Water	+	+

+ suitable / - unsuitable
*) Note: Hydrofluoric acid reacts slightly with sapphire resulting in slightly increased aluminium levels. To reduce these values we recom-mend discarding 3-5 dosings of 2 ml each before performing analysis.