



The background of the entire page is a photograph of a body of water, likely a pond or lake, with the reflections of trees and branches. The water is a deep blue, and the reflections are in various shades of green and brown. The branches are thin and dark, creating a complex pattern of lines across the water's surface.

Volumetric Instruments

Precision analysis requires measuring instruments with consistently high precision. Every BLAUBRAND® volumetric instrument is individually calibrated. Statistical process control ensures with a certainty of at least 99.6 % ($AQL \leq 0.4$) compliance with predefined specifications. BLAUBRAND® – quality from the very start.



Volumetric Instruments

Precision

The intended application determines which measuring instrument should be used. Precision analysis requires measuring instruments with consistently high precision. Even the most sophisticated automated systems will only deliver reliable results if the volumetric instruments used in preparing the samples meet the required precision.

BLAUBRAND® volumetric instruments represent the highest degree of technical perfection. They are made of glasses which are highly resistant to nearly all chemical substances – a prerequisite for durable precision.

Calibration

Every glass volumetric measuring instrument is individually calibrated. Computer-controlled systems ensure maximum precision in a fully automated production line.

'Statistical Process Control' (SPC) guarantees production of volumetric instruments with the smallest deviation from nominal capacity (accuracy) and narrow scatter of individual values (coefficient of variation).

Types of calibration

'TC, In': The contained quantity of liquid corresponds exactly to the capacity indicated on the instrument (e.g., graduated cylinders and volumetric flasks).

'TD, Ex': The delivered quantity of liquid corresponds exactly to the capacity indicated on the instrument (e.g., pipettes and burettes).

Silk-screening

Silk-screen printing follows calibration. BRAND uses flexible screen stencils for all graduated pipettes, burettes, graduated cylinders, and mixing cylinders. Thus, the volume markings on the stencil exactly match the calibration marks, at all capacities. Even intermediate volumes on BRAND volumetric instruments are extremely precise. For silk-screen printing BRAND uses special inks designed for volumetric instruments.

Class A/AS

Volumetric instruments of class A/AS are within the error limits defined by DIN and ISO and carry the DE-M marking.



Graduation:
ring marks at major graduations

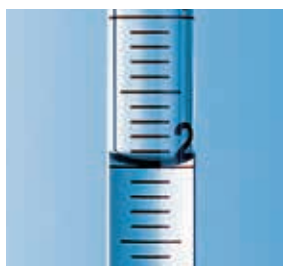


Marks and inscriptions in high contrast blue enamel. It represents the optimum combination of resistance and readability.

Marks and inscriptions in ETERNA amber stain. It diffuses into the glass surface and can only be removed by abrasion. It is used for volumetric instruments which are subjected to particularly aggressive cleaning methods.

Class B

Volumetric instruments of class B are within twice the error limits for class A/AS as defined by DIN and ISO.



Graduation:
short graduation marks



Marks and inscriptions in high contrast white enamel.

ETERNA marks and inscriptions in amber stain are particularly resistant to aggressive cleaning methods.

Firing

High quality inks combined with carefully controlled annealing processes provide durable graduations. The most modern manufacturing technology is used for controlled heating and cooling. The maximum temperature is between 400 and 550 °C, depending on the type of glass.

Quality assurance, AQL ≤ 0,4

The QM system is DIN EN ISO 9001 certified, and includes ongoing testing during the manufacturing process with final random sample testing in compliance with DIN ISO 3951 at final inspection. The accepted quality level (AQL) is less than or equal to 0.4 (see page 318 for further information.)

Heating of volumetric instruments

All reusable BLAUBRAND® and SILBERBRAND volumetric instruments can be heated up to 250 °C in a dry box or sterilizer without having to worry about a change in volume. Use only gradual heating and cooling because abrupt temperature changes cause thermal stress and may result in glass breakage.

BLAUBRAND® Volumetric instruments with certificate


DE-M

All BLAUBRAND® volumetric instruments kept and used for measurements in legally regulated applications are marked DE-M. The manufacturer BRAND uses this mark to certify the conformity of the instruments with the German Measurement and Calibration Regulation (replaces the previous Calibration Regulation)*.

* as of January 1, 2015

BRAND will change the mark on volumetric instruments to "DE-M" starting January 1, 2015.



One batch certificate per packing unit!

All reusable BLAUBRAND® volumetric instruments are individually calibrated and are supplied with one batch certificate per packing unit. This facilitates the initial performance verification – also with the monitoring of measuring equipment – as the data can directly be transferred from the certificate. Batch and individual certificates can also be downloaded at www.brand.de.

Certificates

Batch certificate

The batch number, and mean value plus standard deviation for the batch, along with the date of issue are documented on the certificate. The measuring instrument bears the batch number that is burnt in using easy-to-read digital numbers:

15.02

(Batch number:
year of manufacture/batch)

Individual certificate

The batch number, the individual serial number, the measured volume, measurement uncertainty, and the date of issue are documented on the certificate. The measuring instrument bears the batch and serial numbers that are burnt in using easy-to-read digital numbers:

15.02 0756

(Individual serial number: year
of manufacture/batch/con-
secutive instrument number)

USP certificate

Selected BLAUBRAND® volumetric instruments can be delivered with volume error limits in compliance with United States Pharmacopeia (USP) with batch certificate and on request, with individual certificate.

The measuring instrument shows the requested error limit and the USP sign.

DAkkS calibration certificate

This certificate is issued by the DAkkS calibration laboratory at BRAND. Due to the extensive international cooperation of the DAkkS (formerly DKD) German accreditation body (EA Agreement, ILAC-MRA), the DAkkS calibration certificate is internationally recognized. Both the instrument and the certificate show an individual serial number and the laboratory's registration number as well as the year and month of issue.

Ordering note

If you require all of your BLAUBRAND® volumetric instruments to come from one batch for statistical testing equipment monitoring, please so indicate by placing a 2 in front of the BRAND catalog number. With dealer-specific catalog numbers please add the phrase "from one batch". Requests for individual, USP and DAkkS certificates should be handled in the same manner.

How it's done! Ordering example:

Volumetric instrument/ Certificate	BRAND Cat. No.
100 ml Volumetric flask with batch certificate	372 49
100 ml Volumetric flask, total order from one batch (to the extent possible)	2 372 49
100 ml Volumetric flask with individual certificate	9 372 49
100 ml Volumetric flask with USP individual certificate	USP 369 49
100 ml Volumetric flask with DAkkS calibration certificate	DAkkS 372 49

Single Volume Pipettes

Inscriptions on a BLAUBRAND® bulb pipette

Manufacturer

BRAND trademark for the highest quality grade volumetric instruments

Nominal volume

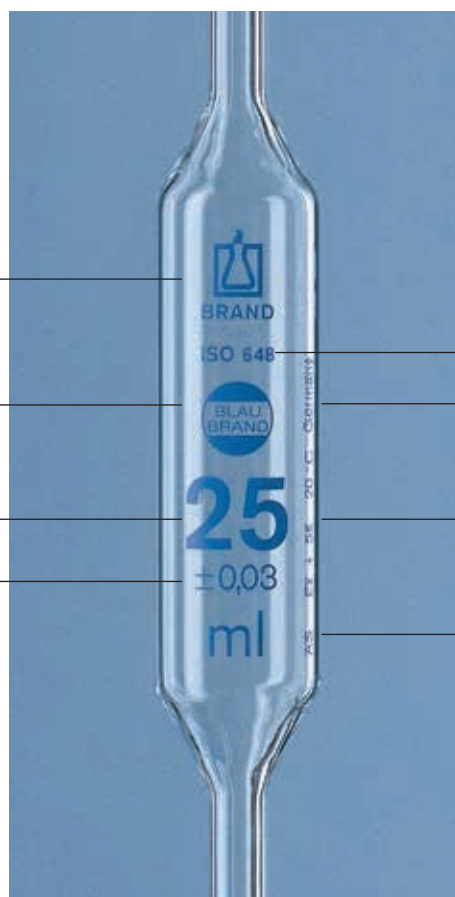
Error limit

ISO association mark

Country of origin

Reference temp. (20 °C), waiting time (5 seconds), calibration (TD, Ex = to deliver)

Class 'A', the highest quality grade, 'S' for swift delivery



DIN EN ISO 648

In the DIN EN ISO 648, the waiting time for single volume pipettes of class AS was reduced from 15 to 5 seconds.



Specifications, available sizes

Bulb pipettes with one or two marks, calibrated to deliver (TD, Ex).

Capacity ml	Color-Code (ISO 1769)	Pattern	Length mm (± 10 mm)	BLAUBRAND® waiting time 5 s	SILBERBRAND no waiting time
				Error limit ± ml	Error limit ± ml
0.5	2 x black	straight	300	0.005	0.007
1	blue	straight	300	0.008	0.010
2	orange	bulb	330	0.010	0.015
2.5	–	bulb	330	0.010	–
3	black	bulb	330	0.010	0.015
4	2 x red	bulb	400	0.015	–
5	white	bulb	400	0.015	0.025
6	2 x orange	bulb	400	0.015	–
7	2 x green	bulb	400	0.015	–
8	blue	bulb	440	0.02	–
9	black	bulb	440	0.02	–
10	red	bulb	440	0.02	0.03
15	green	bulb	510	0.03	0.04
20	yellow	bulb	510	0.03	0.04
25	blue	bulb	520	0.03	0.04
30	black	bulb	520	0.03	–
40	white	bulb	540	0.05	–
50	red	bulb	540	0.05	0.07
100	yellow	bulb	585 (± 15 mm)	0.08	0.12

Single volume pipettes are also known as bulb pipettes.

BRAND bulb pipettes provide the highest accuracy. Strict statistical quality controls assure maintenance of these high standards.

All BLAUBRAND® bulb pipettes are supplied with a batch number and an accompanying batch certificate in the original packaging. On request, they are also available with an individual certificate, USP individual certificate or DAkkS calibration certificate (ordering information, page 173).

Bulb pipettes, 1 mark

**BLAUBRAND®, class AS,
DE-M marking**


AR-GLAS®, DIN EN ISO 648.
Calibrated to deliver (TD, Ex).
Incl. one batch certificate.
0.5 to 2 ml: pack of 12;
2.5 to 100 ml: pack of 6.

NEW!

Bulb pipettes, 1 mark, USP

**BLAUBRAND®, class AS,
DE-M marking**

AR-GLAS®, DIN EN ISO 648.
Calibrated to deliver (TD, Ex).
Incl. one USP batch certificate.
0.5 to 2 ml: pack of 12;
2.5 to 100 ml: pack of 6.

Note!  On request, also available with USP individual certificate.

Capacity ml	Error limit ± ml	Cat. No.
0.5	0.005	297 01
1	0.008	297 02
2	0.010	297 03
2.5	0.010	297 04
3	0.010	297 05
4	0.015	297 06
5	0.015	297 07
6	0.015	297 08
7	0.015	297 09
8	0.02	297 10
9	0.02	297 11
10	0.02	297 12
15	0.03	297 13
20	0.03	297 14
25	0.03	297 15
30	0.03	297 16
40	0.05	297 17
50	0.05	297 18
100	0.08	297 19

Capacity ml	Error limit ± ml	Cat. No.
0.5*	0.005 USP	306 01
1	0.006 USP	306 02
2	0.006 USP	306 03
3	0.01 USP	306 05
4	0.01 USP	306 06
5	0.01 USP	306 07
6	0.01 USP	306 08
7	0.01 USP	306 09
8	0.02 USP	306 10
9	0.02 USP	306 11
10	0.02 USP	306 12
15	0.03 USP	306 13
20	0.03 USP	306 14
25	0.03 USP	306 15
30	0.03 USP	306 16
40	0.05 USP	306 17
50	0.05 USP	306 18
100	0.08 USP	306 19

* Error limit USP ± 0.006 ml



Bulb pipettes, 1 mark

**BLAUBRAND® ETERNA, class AS,
DE-M marking**

AR-GLAS®, DIN EN ISO 648.
Calibrated to deliver (TD, Ex).
Incl. one batch certificate.
1 and 2 ml: pack of 12;
5 to 25 ml: pack of 6.

Capacity ml	Error limit ± ml	Cat. No.
1	0.008	305 02
2	0.010	305 03
5	0.015	305 07
10	0.02	305 12
20	0.03	305 14
25	0.03	305 15
50	0.05	305 18



Capacity ml	Error limit ± ml	Cat. No.
0.5	0.005	297 21
1	0.008	297 22
2	0.010	297 23
3	0.010	297 25
5	0.015	297 27
10	0.02	297 32
15	0.03	297 33
20	0.03	297 34
25	0.03	297 35
50	0.05	297 38

Bulb pipettes, 2 marks

**BLAUBRAND®, class AS,
DE-M marking**

AR-GLAS®. DIN EN ISO 648.
Calibrated to deliver (TD, Ex).
Incl. one batch certificate.
0.5 to 2 ml: pack of 12;
3 to 50 ml: pack of 6.

Capacity ml	Error limit ± ml	Cat. No.
0.5	0.007	295 01
1	0.010	295 02
2	0.015	295 03
3	0.015	295 05
5	0.025	295 07
10	0.03	295 12
15	0.04	295 13
20	0.04	295 14
25	0.04	295 15
50	0.07	295 18
100	0.12	295 19

Bulb pipettes, 1 mark

SILBERBRAND ETERNA, class B

AR-GLAS®. DIN EN ISO 648.
Calibrated to deliver (TD, Ex).
0.5 to 2 ml: pack of 12;
3 to 100 ml: pack of 6.

Bulb pipettes, made of plastic, 1 mark

PP, high clarity. Calibrated to deliver (TD, Ex). Resistant to breakage. Exposure to temperatures up to 60 °C will not cause permanent exceeding of error limits!
Cleaning temperature below 60 °C is recommended to preserve marks and inscriptions.
1 and 2 ml: pack of 12; 5 to 50 ml: pack of 6.

Capacity ml	Pattern	Error limit ± ml	Length mm ± 10 mm	Cat. No.
1	straight	0.02	300	300 02
2	straight	0.02	300	300 03
5	bulb	0.03	300	300 07
10	bulb	0.04	440	300 12
25	bulb	0.06	450	300 15
50	bulb	0.1	460	300 18

Graduated Pipettes

In the DIN EN ISO 835 standard, the waiting time for graduated pipettes was reduced from 15 to 5 seconds and the type 2, total delivery, nominal volume at top, was included.

We recommend the graduated pipette type 2 as with these pipettes the meniscus needs to be set only once to achieve exact pipetting.

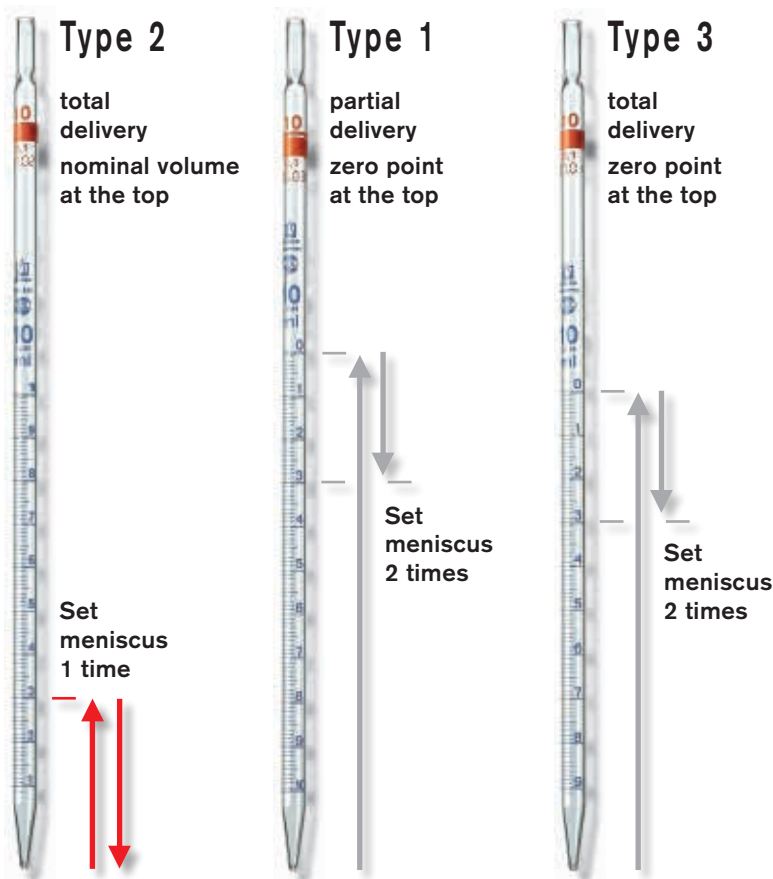
In contrast, with types 1 and 3, there is a risk of over-dispensing while setting the meniscus for partial volumes the second time. In such a case, the sample would have to be prepared again.

Precision pipette tip

Optimized flow geometry in the tip ensures reliable liquid dispensing from bulb and graduated pipettes. The mechanical resilience of the tip and its fire-polished edges ensure a long service life.



BLAUBRAND® Graduated Pipettes, Class AS



Technical data, available sizes

Graduated pipettes are calibrated to contain (TC, In) respectively to deliver (TD, Ex).

BLAUBRAND® waiting time 5 s						SILBERBRAND no waiting time	
Capacity ml	Subdiv. ml	Color-Code (ISO 1769)	Length mm (± 10 mm)	Calibr.	Error limit ± ml	Calibr.	Error limit ± ml
0.1	0.001	2 x green	360	In	0.001	–	–
0.2	0.002	2 x white	360	In	0.002	–	–
0.5	0.01	2 x yellow	360	Ex	0.006	Ex	0.008
1	0.01	yellow	360	Ex	0.007	Ex	0.010
1	0.1	red	360	Ex	0.007	Ex	0.010
2	0.01	2 x white	360	Ex	0.010	Ex	0.015
2	0.02	black	360	Ex	0.010	Ex	0.015
2	0.1	green	360	Ex	0.010	Ex	0.015
5	0.05	red	360	Ex	0.030	Ex	0.05
5	0.1	blue	360	Ex	0.030	Ex	0.05
10	0.1	orange	360	Ex	0.05	Ex	0.08
20	0.1	2 x yellow	360	Ex	0.1	Ex	0.15
25	0.1	white	450	Ex	0.1	Ex	0.15
50	0.5	–	450	Ex	0.2	–	–

DIN EN ISO 835

In the DIN EN ISO 835, the waiting time for graduated pipettes of class AS was reduced from 15 to 5 seconds.

All BLAUBRAND® graduated pipettes are supplied with a batch number and an accompanying batch certificate in the original packaging.

On request, they are also available with an individual certificate, USP individual certificate or DAkkS calibration certificate (ordering information, page 173).



Graduated pipettes, Type 2, total delivery

BLAUBRAND®, class AS, nominal volume at the top, DE-M marking

AR-GLAS®. DIN EN ISO 835. Calibrated to deliver (TD, Ex). Incl. one batch certificate.
Pack of 12 (20, 25, 50 ml: pack of 6).

Capacity ml	Subdivision ml	Error limit \pm ml	Cotton plug upper end	Cat. No.
0.5	0.01	0.006	no	278 16
1	0.01	0.007	no	278 17
1	0.01	0.007	yes	278 27
1	0.1	0.007	no	278 18
2**	0.01	0.010	no	278 29
2	0.02	0.010	no	278 19
2	0.02	0.010	yes	278 28
2	0.1	0.010	no	278 20
5	0.05	0.030	yes	278 21
5	0.1	0.030	yes	278 22
10	0.1	0.05	yes	278 23
20	0.1	0.1	yes	278 24
25	0.1	0.1	yes	278 25
50*	0.5	0.2	yes	278 26

* in addition to the ISO range ** in addition to the ISO range, no DE-M marking




Graduated pipettes, Type 2, total delivery, USP **NEW!**

BLAUBRAND®, class AS, nominal volume at the top, DE-M marking

AR-GLAS®. DIN EN ISO 835. Calibrated to deliver (TD, Ex). Incl. USP batch certificate.
Pack of 12.

Capacity ml	Subdivision ml	Error limit \pm ml	Cotton plug upper end	Cat. No.
1*	0.01	0.007 USP	yes	275 06
2	0.02	0.01 USP	yes	275 09
5	0.05	0.02 USP	yes	275 11
10	0.1	0.03 USP	yes	275 13

* Error limit USP \pm 0.01 ml

Note!  On request, also available with USP individual certificate.



Graduated pipettes, Type 2, total delivery

BLAUBRAND® ETERNA, class AS, nominal volume at the top, DE-M marking

AR-GLAS®. DIN EN ISO 835. Calibrated to deliver (TD, Ex). Incl. one batch certificate.
Pack of 12 (20, 25, 50 ml: pack of 6).

Capacity ml	Subdivision ml	Error limit \pm ml	Cotton plug upper end	Cat. No.
0.5	0.01	0.006	no	278 36
1	0.01	0.007	no	278 37
1	0.01	0.007	yes	278 47
2	0.02	0.010	no	278 39
2	0.02	0.010	yes	278 48
5	0.05	0.030	yes	278 41
5	0.1	0.030	yes	278 42
10	0.1	0.05	yes	278 43
20	0.1	0.1	yes	278 44
25	0.1	0.1	yes	278 45

Graduated pipettes, Type 2, total delivery

NEW!
SILBERBRAND ETERNA, class B, nominal volume at the top

AR-GLAS®. DIN EN ISO 835. Calibrated to deliver (TD, Ex).

Pack of 12 (20, 25 ml: pack of 6).

Capacity ml	Subdivision ml	Error limit ± ml	Cotton plug upper end	Cat. No.
0.5	0.01	0.008	no	270 01
1	0.01	0.010	no	270 02
1	0.01	0.010	yes	270 03
1	0.1	0.010	no	270 04
2*	0.01	0.015	no	270 05
2	0.02	0.015	no	270 06
2	0.02	0.015	yes	270 07
2	0.1	0.015	no	270 08
5	0.05	0.05	yes	270 09
5	0.1	0.05	yes	270 10
10	0.1	0.08	yes	270 11
20	0.1	0.15	yes	270 12
25	0.1	0.15	yes	270 13

* in addition to the ISO range



Graduated pipettes, Type 1, partial delivery

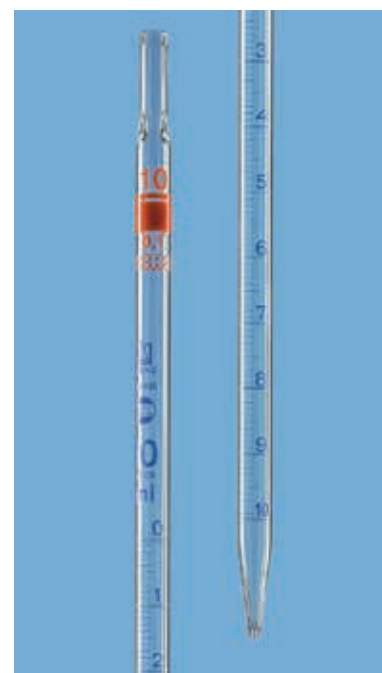
BLAUBRAND®, class AS, zero point at the top, DE-M marking

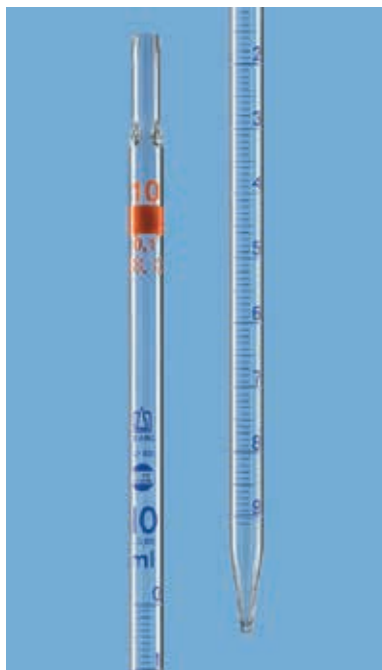
AR-GLAS®. DIN EN ISO 835. Calibrated to deliver (TD, Ex).

Incl. one batch certificate. Pack of 12 (25 ml: Pack of 6).

Capacity ml	Subdivision ml	Error limit ± ml	Cotton plug upper end	Cat. No.
0.5	0.01	0.006	no	277 21
1	0.01	0.007	no	277 22
2*	0.01	0.010	no	277 24
2	0.02	0.010	no	277 25
5	0.05	0.030	yes	277 27
10	0.1	0.05	yes	277 29
25	0.1	0.1	yes	277 31

* in addition to the ISO range, no DE-M marking





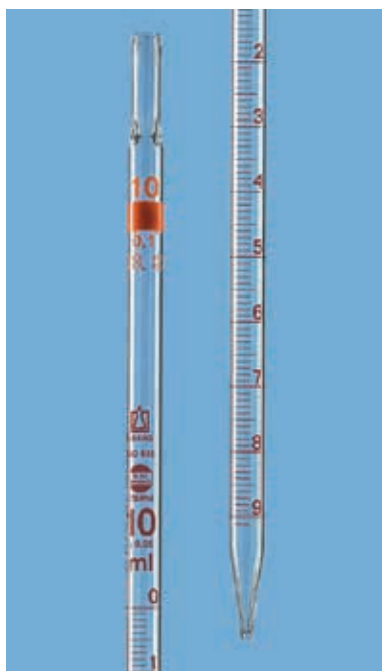
Graduated pipettes, Type 3, total delivery

BLAUBRAND®, class AS, zero point at the top, DE-M marking

AR-GLAS®. DIN EN ISO 835. Calibrated to deliver (TD, Ex). Incl. one batch certificate.
0.5 to 10 ml: Pack of 12; 20 to 50 ml: Pack of 6.

Capacity ml	Subdivision ml	Error limit ± ml	Cotton plug upper end	Cat. No.
0.5	0.01	0.006	no	277 05
1	0.01	0.007	no	277 06
1	0.01	0.007	yes	273 06
1	0.1	0.007	no	277 07
2**	0.01	0.010	no	277 08
2	0.02	0.010	no	277 09
2	0.02	0.010	yes	273 09
2	0.1	0.010	no	277 10
5	0.05	0.030	yes	277 11
5	0.1	0.030	yes	277 12
10	0.1	0.05	yes	277 13
20	0.1	0.1	yes	277 14
25	0.1	0.1	yes	277 15
50*	0.5	0.2	yes	277 16

* in addition to the ISO range ** in addition to the ISO range, no DE-M marking



Graduated pipettes, Type 3, total delivery

BLAUBRAND® ETERNA, class AS, zero point at the top, DE-M marking

AR-GLAS®. DIN EN ISO 835. Calibrated to deliver (TD, Ex). Incl. one batch certificate.
0.5 to 10 ml: Pack of 12; 20 and 25 ml: Pack of 6.

Capacity ml	Subdivision ml	Error limit ± ml	Cotton plug upper end	Cat. No.
0.5	0.01	0.006	no	284 05
1	0.01	0.007	no	284 06
1	0.01	0.007	yes	273 16
2	0.02	0.010	no	284 09
2	0.02	0.010	yes	273 19
5	0.05	0.030	yes	284 11
5	0.1	0.030	yes	284 12
10	0.1	0.05	yes	284 13
20	0.1	0.1	yes	284 14
25	0.1	0.1	yes	284 15

The use of cotton plugs

Cotton plugs may prolong delivery time and may therefore influence the accuracy of measurement. In tests using BRAND pipettes that have had cotton plugs inserted by a cotton plugging machine, the results were within the indicated error limits.

Cotton cord

100% cotton wool, degreased, approx.
13 g/10 m. Pack of 1 kg.

Cat. No.	282 05
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Graduated pipettes, Type 3, total delivery

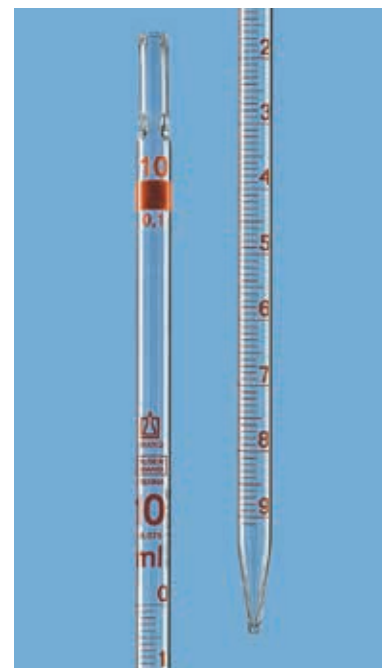
SILBERBRAND ETERNA, class B, zero point at the top

AR-GLAS®. DIN EN ISO 835. Calibrated to deliver (TD, Ex).

0.5 to 10 ml: Pack of 12; 20 and 25 ml: Pack of 6.

Capacity ml	Subdivision ml	Error limit \pm ml	Cotton plug upper end	Cat. No.
0.5	0.01	0.008	no	270 69
1	0.01	0.010	no	270 70
1	0.01	0.010	yes	272 06
1	0.1	0.010	no	270 71
2*	0.01	0.015	no	270 72
2	0.02	0.015	yes	272 09
2	0.02	0.015	no	270 73
2	0.1	0.015	no	270 74
5	0.05	0.05	yes	270 75
5	0.1	0.05	yes	270 76
10	0.1	0.08	yes	270 77
20	0.1	0.15	yes	270 78
25	0.1	0.15	yes	270 79

* in addition to the ISO range



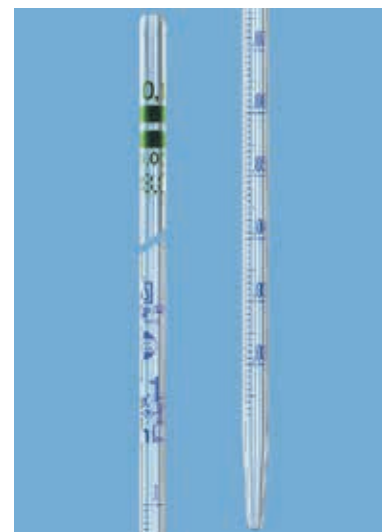
Graduated pipettes, calibrated to contain

BLAUBRAND®, class A, DE-M marking

AR-GLAS®. Error limits and subdivisions according to DIN 12689. Length 360 mm.

Calibrated to contain (TC, In). Incl. one batch certificate. Pack of 12.

Capacity ml	Subdivision ml	Error limit \pm ml	Cotton plug upper end	Cat. No.
0.1	0.001	0.001	no	277 02
0.2	0.002	0.002	no	277 04



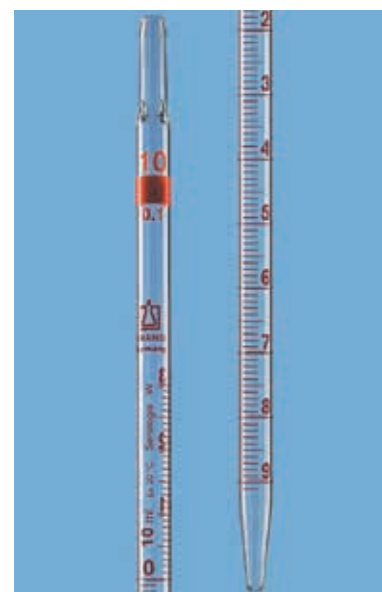
Graduated pipettes, serological

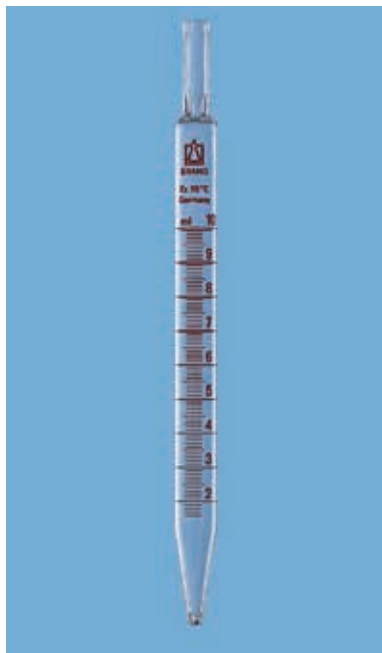
Large tip diameter, total delivery

AR-GLAS®. Calibrated to deliver (TD, Ex). Graduations and inscriptions in ETERNA amber stain. Short graduation marks. Length 360 mm (25 ml: 450 mm). Cotton plug upper end.

1 to 10 ml: Pack of 12; 25 ml: Pack of 6.

Capacity ml	Tip Ø approx. mm	Subdivision ml	Error limit \pm ml	Negative range ml	Cat. No.
1	2	0.01	0.02	-0.2	271 07
2	2	0.02	0.04	-0.4	271 09
5	3	0.1	0.1	-2	271 12
10	3	0.1	0.2	-3	271 13
25	3	0.1	0.4	-5	271 15





Graduated pipettes, tissue culture

Short type, total delivery

AR-GLAS®. Calibrated to deliver (TD, Ex). Graduations and inscriptions in ETERNA amber stain. Ring marks at major graduations. Length 230 mm.

1 to 10 ml: Pack of 12; 25 ml: Pack of 6.

Capacity ml	Subdivision ml	Error limit \pm ml	Cotton plug upper end	Cat. No.
1	0.1	0.02	yes	271 60
2	0.1	0.04	yes	271 64
5	0.1	0.1	yes	271 66
10	0.1	0.2	yes	271 67
25	0.2	0.4	yes	271 79

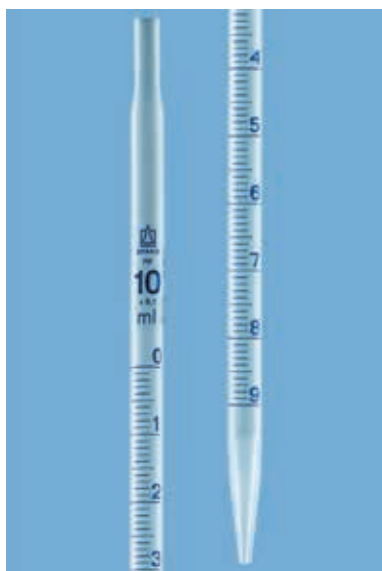


Graduated pipettes, piston type

SILBERBRAND, total delivery

AR-GLAS®. Calibrated to deliver (TD, Ex). Integrated piston pipetting aid with retaining spring. Pack of 1.

Capacity ml	Subdivision ml	Error limit \pm ml	Cat. No.
1	0.01	0.01	311 06
2	0.02	0.02	311 09
5	0.05	0.05	311 11
10	0.1	0.1	311 13
25	0.1	0.2	311 15



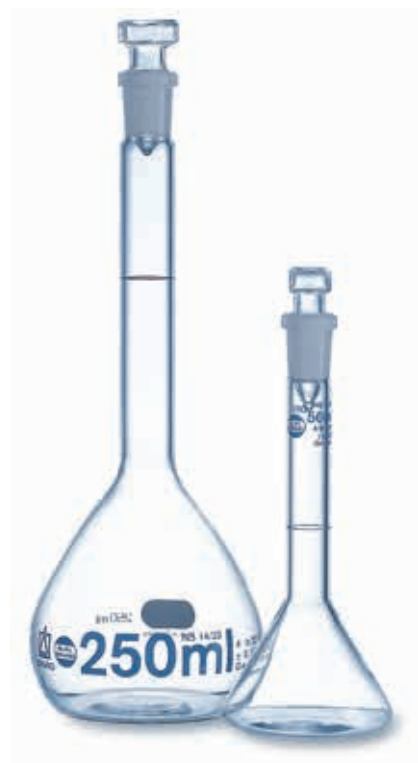
Graduated pipettes, made of plastic


PP, high clarity. Calibrated to deliver (TD, Ex). Resistant to breakage. Suction tube outer Ø max. 8 mm. Exposure to temperatures up to 60 °C will not cause permanent exceeding of error limits! Cleaning temperature below 60 °C is recommended to preserve marks and inscriptions. Pack of 12.

Capacity ml	Subdivision ml	Error limit \pm ml	Length mm \pm 10 mm	Cat. No.
1	0.1	0.02	300	276 07
2	0.1	0.02	300	276 10
5	0.1	0.05	330	276 12
10*	0.1	0.1	330	276 13
10	0.1	0.1	320	276 14

* Suction tube outer Ø 10 mm

Volumetric Flasks



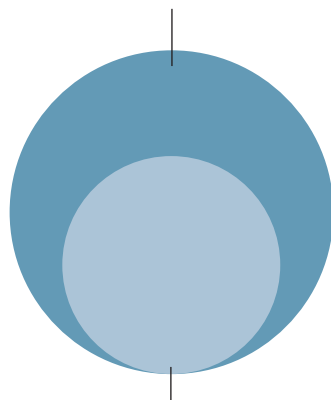
Note!  The abbreviation Boro 3.3 represents the internationally designated borosilicate glass type 3.3.

Trapezoidal volumetric flasks

Small capacity standard volumetric flasks can tip over more easily due to their higher center of gravity.

Trapezoidal measuring flasks have a much larger base area which greatly improves stability!

Twice (!) the base area compared to standard volumetric flasks of the same capacity



Volumetric flask, standard type

BRAND volumetric flasks provide the highest accuracy. Strict statistical quality controls ensure maintenance of these high standards. Volumetric flasks are indispensable for preparing dilutions and standard solutions. Standard volumetric flasks are supplied with a square-grip PP stopper with a dripping tip. These stoppers reduce the danger of breakage if a flask tips over, and help to prevent it from rolling off the workbench.

All BLAUBRAND® volumetric flasks are supplied with a batch number and an accompanying batch certificate in the original packaging.

On request, they are also available with an individual certificate, USP individual certificate or DAkkS calibration certificate (ordering information, page 173).

BLAUBRAND® Volumetric Flasks – Durable Quality

Specifications, available sizes

Volumetric flasks are always calibrated to contain (TC, In).

Volumetric flasks, trapezoidal

BLAUBRAND®

Capacity ml	Neck inner Ø mm	Neck size	Error limit ± ml
1	7 ± 1	7/16	0.025
2	7 ± 1	7/16	0.025
5	7 ± 1	7/16	0.025
10 W	9 ± 1	10/19	0.04
20	9 ± 1	10/19	0.04
25	9 ± 1	10/19	0.04
50	11 ± 1	12/21	0.06

W = Wide neck

Volumetric flasks, standard type

BLAUBRAND®

SILBERBRAND

Capacity ml	Neck inner Ø mm	Neck size	Error limit ± ml	Error limit ± ml
5 W	9 ± 1	10/19	0.04	–
10 W	9 ± 1	10/19	0.04	0.06
20	9 ± 1	10/19	0.04	0.06
20 W	11 ± 1	12/21	0.06	–
25	9 ± 1	10/19	0.04	0.06
25 W	11 ± 1	12/21	0.06	–
50	11 ± 1	12/21	0.06	0.09
50 W	13 ± 1	14/23	0.10	–
100	13 ± 1	12/21	0.10	0.15
100	13 ± 1	14/23	0.10	–
200	15.5 ± 1.5	14/23	0.15	0.25
250	15.5 ± 1.5	14/23	0.15	0.25
500	19 ± 2	19/26	0.25	0.40
1000	23 ± 2	24/29	0.40	0.60
1000 W	27.5 ± 2.5	29/32	0.60	–
2000	27.5 ± 2.5	29/32	0.60	0.90
5000	38 ± 3	34/35	1.2	1.8
10 000	48 ± 4	45/40	2.0	–

W = Wide neck



Volumetric flasks, trapezoidal

BLAUBRAND®, class A, DE-M marking

Boro 3.3. DIN EN ISO 1042. Calibrated to contain (TC, In). Incl. one batch certificate. Pack of 2.

Capacity ml	Error limit ± ml	Neck size	with PP stopper Cat. No.	with glass stopper Cat. No.
1	0.025	7/16	364 01	364 12
2	0.025	7/16	364 02	364 13
5	0.025	7/16	364 03	364 14
10 W	0.04	10/19	364 04	364 15
20	0.04	10/19	364 06	364 17
25	0.04	10/19	364 07	364 18
50	0.06	12/21	364 08	364 19

W = Wide neck

Volumetric flasks

BLAUBRAND®, class A, DE-M marking

Boro 3.3. DIN EN ISO 1042. Calibrated to contain (TC, In). Incl. one batch certificate. 5 to 500 ml: Pack of 2; 1000 to 10000 ml: Pack of 1.



Capacity ml	Error limit ± ml	Neck size	with PP stopper Cat. No.	with glass stopper Cat. No.
5 W	0.04	10/19	372 38	372 56
10 W	0.04	10/19	372 43	372 67
20	0.04	10/19	372 46	372 57
20 W	0.06	12/21	372 45	372 68
25	0.04	10/19	372 47	372 58
25 W	0.06	12/21	372 93	372 94
50	0.06	12/21	372 48	372 59
50 W	0.10	14/23	372 90	372 88
100	0.10	12/21	372 49	372 60
100	0.10	14/23	372 91	372 89
200	0.15	14/23	372 50	372 61
250	0.15	14/23	372 51	372 62
500	0.25	19/26	372 52	372 63
1000	0.4	24/29	372 53	372 64
1000 W	0.6	29/32	372 34	–
2000	0.6	29/32	372 54	372 65
5000	1.2	34/35	372 55	372 66
10000*	2.0	45/40	372 36	–

W = Wide neck * in addition to the ISO range


Volumetric flasks, USP

BLAUBRAND®, class A, DE-M marking

Boro 3.3. DIN EN ISO 1042. Calibrated to contain (TC, In). Incl. one USP batch certificate. Pack of 2; 1000 ml: pack of 1.

Capacity ml	Error limit ± ml	Neck inner Ø mm	Neck size	with PP stopper Cat. No.	with glass stopper Cat. No.
5*	0.02 USP	7 ± 1	10/19	369 38	369 68
10*	0.02 USP	7 ± 1	10/19	369 43	369 73
20*	0.02 USP	7 ± 1	10/19	369 45	369 75
25	0.03 USP	9 ± 1	10/19	369 47	369 77
50	0.05 USP	11 ± 1	12/21	369 48	369 78
100	0.08 USP	13 ± 1	14/23	369 49	369 79
200	0.10 USP	15.5 ± 1.5	14/23	369 50	369 80
250	0.12 USP	15.5 ± 1.5	14/23	369 51	369 81
500	0.20 USP	19 ± 2	19/26	369 52	369 82
1000	0.30 USP	23 ± 2	24/29	369 53	369 83
2000	0.50 USP	27.5 ± 2.5	29/32	369 54	369 84

* Neck/ground socket connection enlarged

Note!  On request, also available with USP individual certificate.



Volumetric flasks

BLAUBRAND® ETERNA, class A, DE-M marking

Boro 3.3. DIN EN ISO 1042. Calibrated to contain (TC, In). Incl. one batch certificate. 5 to 500 ml: Pack of 2; 1000 and 2000 ml: Pack of 1.

Capacity ml	Error limit ± ml	Neck size	with PP stopper Cat. No.
5 W	0.04	10/19	368 38
10 W	0.04	10/19	368 43
20	0.04	10/19	368 45
20 W	0.06	12/21	368 46
25	0.04	10/19	368 41
25 W	0.06	12/21	368 42
50	0.06	12/21	368 47
50 W	0.10	14/23	368 48
100	0.10	14/23	368 49
200	0.15	14/23	368 50
250	0.15	14/23	368 51
500	0.25	19/26	368 52
1000	0.4	24/29	368 53
2000	0.6	29/32	368 54

W = Wide neck





Volumetric flasks, PUR Plastic coated

BLAUBRAND® PURprotect, class A, DE-M marking

Boro 3.3, DIN EN ISO 1042. Calibrated to contain (TC, In). Incl. one batch certificate.
50 to 500 ml: Pack of 2; 1000 ml: Pack of 1.

Capacity ml	Error limit ± ml	Neck size	with PP stopper Cat. No.
50 W	0.10	14/23	365 48
100	0.10	14/23	365 49
200	0.15	14/23	365 50
250	0.15	14/23	365 51
500	0.25	19/26	365 52
1000	0.4	24/29	365 53

W = Wide neck



Synthetic coating for better protection

The PUR coating envelops the volumetric flasks like a protection skin. In the event of breakage, the safety coating helps contain the glass fragments. Compared to uncoated glass flasks the electrostatic charge is not increased. The light blue coating facilitates optical distinction. The maximum operating temperature at dry heat is 135 °C (exposure time < 30 min). Frequent autoclaving at 121 °C reduces splintering protection. Cleaning up to max. 95 °C.



Volumetric flasks with 3 marks, DAkkS calibrated

BLAUBRAND®, class A, DE-M marking

Boro 3.3, DIN EN ISO 1042. Calibrated to contain (TC, In). Incl. DAkkS certificate. The volumetric flask with 3 marks is used to check the functioning of a dispenser. The mark in the middle shows the nominal volume, the upper and lower marks show the error limits as specified in the table below. If the error limit is exceeded even with repeated measurements, the dispenser is defective. The DAkkS calibrated volumetric flask does not replace the gravimetric test of the monitoring of measuring instruments according to ISO 8655. Pack of 1.

Capacity ml	upper/lower mark ± ml	Neck inner Ø mm	Neck size	with PP stopper Cat. No.
10	0.070	7 ± 1	10/19*	382 04
25	0.175	9 ± 1	10/19	382 06
50	0.35	11 ± 1	12/21	382 08
100	0.70	13 ± 1	14/23	382 10

* enlarged ground joint

Further sizes on request.

Volumetric flasks, amber glass

BLAUBRAND®, class A, DE-M marking

Boro 3.3. DIN EN ISO 1042. Calibrated to contain (TC, In).
Interchangeable PP or amber glass stopper. Incl. one batch certificate.
5 to 500 ml: Pack of 2; 1000 ml: Pack of 1.

Capacity ml	Error limit ± ml	Neck size	with PP stopper Cat. No.	with glass stopper Cat. No.
5 W	0.04	10/19	374 01	374 38
10 W	0.04	10/19	374 02	374 43
20	0.04	10/19	374 03	374 46
25	0.04	10/19	374 04	374 47
50	0.06	12/21	374 05	374 48
50 W	0.10	14/23	374 06	374 45
100	0.10	14/23	374 07	374 49
200	0.15	14/23	374 08	374 50
250	0.15	14/23	374 09	374 51
500	0.25	19/26	374 10	374 52
1000	0.4	24/29	374 11	374 53

W = Wide neck



Volumetric flasks, amber glass, USP

NEW!

BLAUBRAND®, class A, DE-M marking

Boro 3.3. DIN EN ISO 1042. Calibrated to contain (TC, In). Incl. USP batch certificate.
Pack of 2; 1000 ml: pack of 1.

Capacity ml	Error limit ± ml	Neck inner Ø mm	Neck size	with PP stopper Cat. No.	with glass stopper Cat. No.
5*	0.02 USP	7 ± 1	NS 10/19	374 81	374 61
10*	0.02 USP	7 ± 1	NS 10/19	374 82	374 62
20*	0.02 USP	7 ± 1	NS 10/19	374 83	374 63
25	0.03 USP	9 ± 1	NS 10/19	374 84	374 64
50	0.05 USP	11 ± 1	NS 12/21	374 85	374 65
100	0.08 USP	13 ± 1	NS 14/23	374 87	374 67
200	0.10 USP	15.5 ± 1.5	NS 14/23	374 88	374 68
250	0.12 USP	15.5 ± 1.5	NS 14/23	374 89	374 69
500	0.20 USP	19 ± 2	NS 19/26	374 90	374 70
1000	0.30 USP	23 ± 2	NS 24/29	374 91	374 71

* enlarged ground joint

Note! On request, also available with
USP individual certificate.



Volumetric flasks, beaded rim

BLAUBRAND®, class A, DE-M marking

Boro 3.3. DIN EN ISO 1042. Calibrated to contain (TC, In). Incl. one batch certificate.
10 to 500 ml: Pack of 2; 1000 ml: Pack of 1.

Capacity ml	Error limit ± ml	Cat. No.
10 W	0.04	370 45
20	0.04	370 46
25	0.04	370 47
50	0.06	370 48
100	0.10	370 49
200	0.15	370 50
250	0.15	370 51
500	0.25	370 52
1000	0.4	370 53

W = Wide neck





Volumetric flasks

SILBERBRAND, class B

Boro 3.3. DIN EN ISO 1042. Calibrated to contain (TC, In).
10 to 500 ml: pack of 2; 1000 to 5000 ml: pack of 1.

Capacity ml	Error limit ± ml	Neck size	with PP stopper Cat. No.
10 W	0.06	10/19	367 43
20	0.06	10/19	367 46
25	0.06	10/19	367 47
50	0.09	12/21	367 48
100	0.15	12/21	367 49
200	0.25	14/23	367 50
250	0.25	14/23	367 51
500	0.4	19/26	367 52
1000	0.6	24/29	367 53
2000	0.9	29/32	367 54
5000	1.8	34/35	367 55

W = Wide neck



Volumetric flasks for sugar analysis

SILBERBRAND

Boro 3.3. Error limits according to class B. Calibrated to contain (TC, In).
For Kohlrausch sugar analysis. Pack of 2.

Capacity ml	Error limit ± ml	Cat. No.
100	0.20	4020 38
200	0.30	4020 46



Volumetric flask for oil content determination

SILBERBRAND

Boro 3.3. DIN 51368. Interchangeable hollow glass stopper size 19/26. Calibrated to contain (TC, In). For determination of oil content in aqueous oil emulsions (e.g., drilling oil).
Pack of 1.

Capacity	Subdivision ml	Error limit ± ml	Cat. No.
Sample volume 100 ml	–	0.2	3655 38
Volume range 0 - 5 ml	0.1	0.1	
Volume range > 5 - 30 ml	0.5	0.5	

Volumetric flasks with screw cap, PFA

Error limits according to class A, DIN EN ISO 1042. Calibrated to contain (TC, In). Incl. one batch certificate. Autoclavable, easy to clean. PFA screw cap with molded sealing ring. Exposure to temperatures up to 121 °C (autoclaving) will not cause permanently exceeded error limits! Cleaning up to max. 60 °C is recommended to preserve marks and inscriptions. Pack of 1.

Capacity ml	Error limit ± ml	Height* mm	Thread	Cat. No.
10 W	0.04	90	GL 18	362 08
25	0.04	108	GL 18	362 20
50	0.06	143	GL 18	362 28
100	0.10	166	GL 18	362 38
250	0.15	222	GL 25	362 48
500	0.25	262	GL 25	362 54

W = Wide neck * without screw cap

Thread	Cat. No.
GL 18	1292 50
GL 25	1292 52

Replacement screw caps for volumetric flasks PFA

PFA. Pack of 1.



Volumetric flasks, PMP, transparent

With PP stopper. Error limits (EL) according to class A respectively B, DIN EN ISO 1042. Class A incl. one batch certificate. Calibrated to contain (TC, In). Exposure to temperatures up to 121 °C (autoclaving) will not cause permanently exceeded error limits! Cleaning up to max. 60 °C is recommended to preserve marks and inscriptions. Pack of 1.

Capacity ml	EL 'A' ± ml	EL 'B' ± ml	Height* mm	Neck size	Cat. No. EL 'A'	Cat. No. EL 'B'
10 W	0.04	0.08	90	10/19	361 70	361 08
25	0.04	0.08	108	10/19	361 72	361 20
50	0.06	0.12	146	12/21	361 74	361 28
100	0.10	0.20	173	14/23	361 76	361 38
250	0.15	0.30	225	19/26	361 78	361 48
500	0.25	0.5	258	19/26	361 80	361 54
1000	0.4	0.8	298	24/29	361 82	361 62

W = Wide neck * without stopper



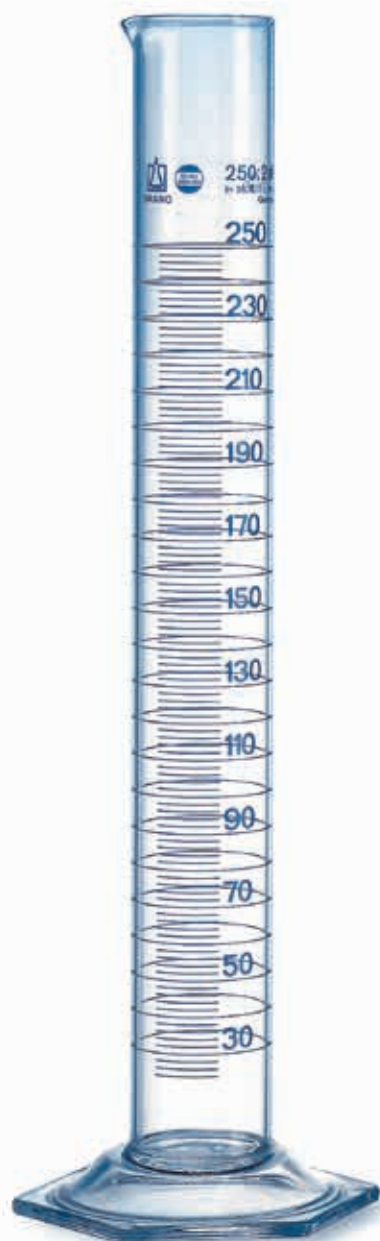
Volumetric flasks, PP, high clarity

With PP stopper. Error limits according to class B, DIN EN ISO 1042. Calibrated to contain (TC, In). Exposure to temperatures up to 60 °C will not cause permanently exceeded error limits! Cleaning up to max. 60 °C is recommended to preserve marks and inscriptions. Pack of 1.

Capacity ml	Error limit ± ml	Height* mm	Neck size	Cat. No.
10 W	0.08	90	10/19	360 08
25	0.08	108	10/19	360 20
50	0.12	146	12/21	360 28
100	0.20	173	14/23	360 38
250	0.30	225	19/26	360 48
500	0.5	258	19/26	360 54
1000	0.8	298	24/29	360 62


W = Wide neck * without stopper





Graduated Cylinders

All BLAUBRAND® graduated cylinders are supplied with a batch number and an accompanying batch certificate in the original packaging. On request, they are also available with an individual certificate, USP individual certificate or DAkkS calibration certificate (ordering information, page 173).

Note!  The abbreviation Boro 3.3 represents the internationally designated borosilicate glass type 3.3.

Graduation and Reading



SILBERBRAND. Short graduation marks.
Reading at lowest point of meniscus.

Graduated and mixing cylinders are always calibrated to contain (TC, In).

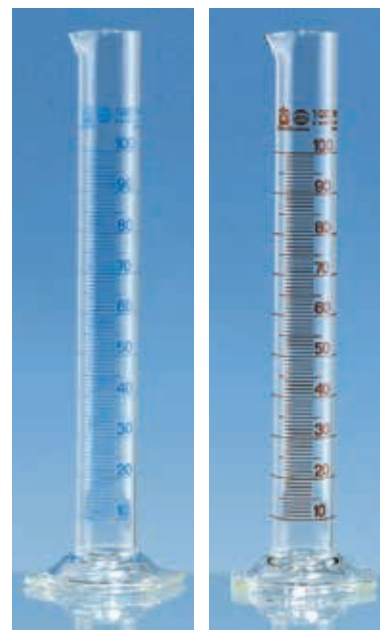
Graduated and mixing cylinders are always calibrated to contain (TC, In).		BLAUBRAND® tall form	SILBERBRAND tall form	SILBERBRAND low form
Capacity ml	Subdivision ml	Error limit ± ml	Error limit ± ml	Error limit ± ml
5	0.1	0.05	0.08	–
10	0.2	0.10	0.15	0.3
25	0.5	0.25	0.4	0.5
50	1	0.5	0.8	1
100	1	0.5	0.8	1
250	2	1.0	1.5	2
500	5	2.5	4	5
1000	10	5	8	10
2000	20	10	15	20

Graduated cylinders, tall form

BLAUBRAND® or BLAUBRAND® ETERNA, class A, DE-M marking, ring marks at major graduations

Boro 3.3. DIN EN ISO 4788. Calibrated to contain (TC, In). Incl. one batch certificate.
With spout and hexagonal base. 5 to 500 ml: pack of 2; 1000 and 2000 ml: pack of 1.

Capacity ml	Subdivision ml	Error limit \pm ml	Height mm	BLAUBRAND® Cat. No.	BLAUBRAND® ETERNA Cat. No.
5	0.1	0.05	115	321 05	327 05
10	0.2	0.10	140	321 08	327 08
25	0.5	0.25	170	321 20	327 20
50	1	0.5	200	321 28	327 28
100	1	0.5	260	321 38	327 38
250	2	1.0	335	321 48	327 48
500	5	2.5	365	321 54	327 54
1000	10	5	465	321 62	327 62
2000	20	10	505	321 64	327 64




Graduated cylinders, tall form, USP **NEW!**

BLAUBRAND®, class A, DE-M marking, ring marks at major graduations

Boro 3.3. DIN EN ISO 4788. Calibrated to contain (TC, In). Incl. USP batch certificate.
With spout and hexagonal base. 5 to 500 ml: pack of 2; 1000 ml: pack of 1.

Capacity ml	Subdivision ml	Error limit \pm ml	Height mm	BLAUBRAND® Cat. No.
5	0.1	0.05 USP	115	328 05
10	0.2	0.10 USP	140	328 08
25	0.5	0.17 USP	170	328 20
50	1	0.25 USP	200	328 28
100	1	0.5 USP	260	328 38
250	2	1.0 USP	335	328 48
500	5	2.0 USP	365	328 54
1000	10	3.0 USP	465	328 62
2000	20	6.0 USP	505	328 64



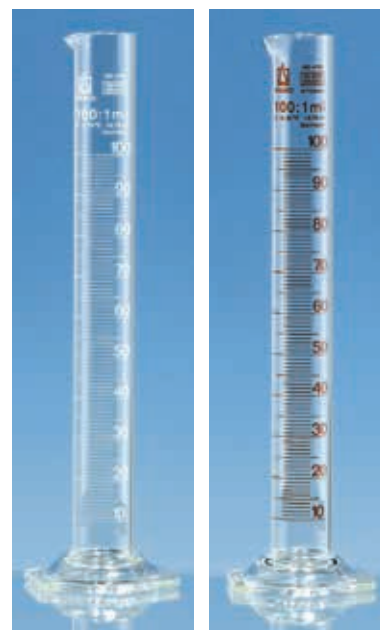
Note!  On request, also available with USP individual certificate.

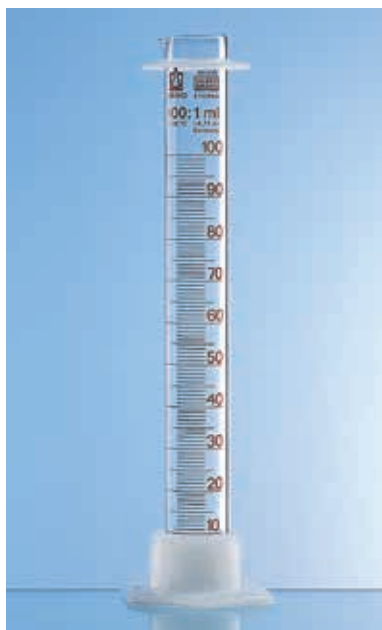
Graduated cylinders, tall form

SILBERBRAND or SILBERBRAND ETERNA, class B, short graduation marks

Boro 3.3. DIN EN ISO 4788. Calibrated to contain (TC, In).
With spout and hexagonal base. 5 to 500 ml: pack of 2; 1000 and 2000 ml: pack of 1.

Capacity ml	Subdivision ml	Error limit \pm ml	Height mm	SILBERBRAND Cat. No.	SILBERBRAND ETERNA Cat. No.
5	0.1	0.08	115	—	319 05
10	0.2	0.15	140	317 08	319 08
25	0.5	0.4	170	317 20	319 20
50	1	0.8	200	317 28	319 28
100	1	0.8	260	317 38	319 38
250	2	1.5	335	317 48	319 48
500	5	4	365	317 54	319 54
1000	10	8	465	317 62	319 62
2000	20	15	505	317 64	319 64





Graduated cylinders, tall form

SILBERBRAND ETERNA, class B, short graduation marks

Boro 3.3. DIN EN ISO 4788. Calibrated to contain (TC, In).

With spout. With detachable hexagonal base and protective collar of PP (not autoclavable).

10 to 500 ml: pack of 2; 1000 ml: pack of 1.

Capacity ml	Subdivision ml	Error limit ± ml	Height mm	Cat. No.
10	0.2	0.15	135	319 09
25	0.5	0.4	170	319 21
50	1	0.8	190	319 29
100	1	0.8	260	319 39
250	2	1.5	335	319 49
500	5	4	370	319 55
1000	10	8	450	319 63



Graduated cylinders, low form

SILBERBRAND ETERNA, class B, short graduation marks

Boro 3.3. DIN EN ISO 4788. Calibrated to contain (TC, In).

With spout and hexagonal base.

Pack of 2; 1000 ml and 2000 ml: pack of 1.

Capacity ml	Subdivision ml	Error limit ± ml	Height mm	Cat. No.
10	1	0.3	90	420 08
25	1	0.5	115	420 20
50	2	1	145	420 28
100	2	1	165	420 38
250	5	2	195	420 48
500	10	5	250	420 54
1000	20	10	285	420 62
2000	50	20	340	420 64

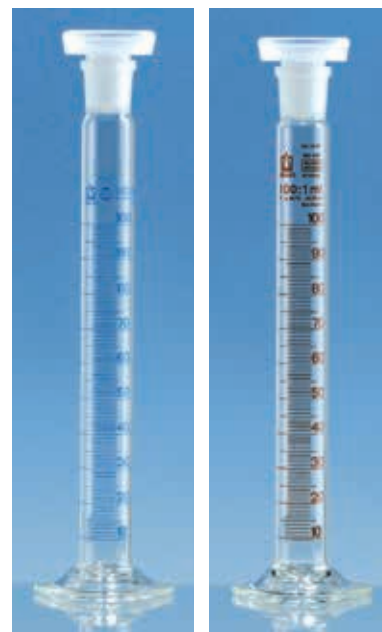
Mixing cylinders

BLAUBRAND®, class A, DE-M marking, or SILBERBRAND ETERNA, class B

Boro 3.3. DIN EN ISO 4788. Calibrated to contain (TC, In). BLAUBRAND® mixing cylinders incl. one batch certificate. With PP stopper and hexagonal base.
10 to 500 ml: Pack of 2; 1000 ml: Pack of 1.

Capacity ml	Subdivision ml	Neck size	Height mm	BLAUBRAND® Cat. No.	SILBERBRAND ETERNA Cat. No.
10	0.2	10/19	160	324 08	339 08
25	0.5	14/23	190	324 20	339 20
50	1	19/26	220	324 28	339 28
100	1	24/29	285	324 38	339 38
250	2	29/32	350	324 48	339 48
500*	5	34/35	395	324 54	339 54
1000*	10	45/40	500	324 62	339 62

* with octagonal stopper, PE



Dispensers, tilt measure

Bottletop dispensing head

Dispensing head Boro 3.3. Calibrated to deliver (TD, Ex). Inscriptions in green enamel.
The automatic dispenser is particularly well-suited for dispensing suspensions.
Complete with reservoir bottle, borosilicate glass 4.1, capacity 1000 ml, neck size 29/32.
Pack of 1.

Capacity ml	Error limit ± ml	Height incl. bottle mm	Dispensing head Cat. No.	Head with bottle Cat. No.
5	1.0	270	430 55	430 05
10	1.0	270	430 58	430 08
20	2.0	280	430 66	430 16
25	2.5	280	430 70	430 20
50	5	280	430 78	430 28
100	10	290	430 88	430 38



Accessories for dispensers, tilt measure

Joint clip

Stainless-steel. Neck size 29/32.
Pack of 1.

Cat. No.	556 18
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Ground joint sleeve

PTFE. Neck size 29/32.
Pack of 10.

Cat. No.	514 22
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Reservoir bottle

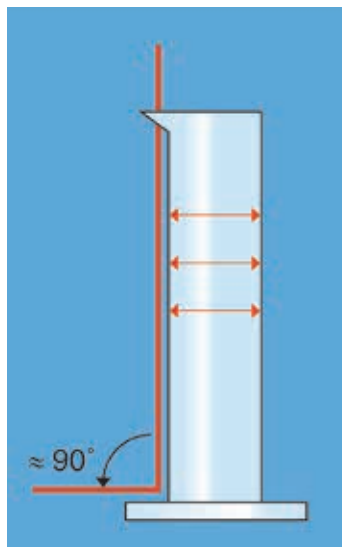
Borosilicate glass 4.1.
Capacity 1000 ml. Neck size 29/32.
Pack of 1.

Description	Cat. No.
Borosilicate glass 4.1	1269 63

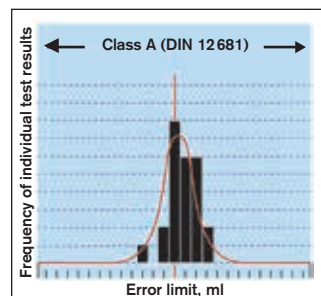
Plastic Graduated Cylinders

Graduated cylinders from BRAND are made of high-quality plastics which provide excellent chemical resistance. The nearly perfect cylindrical design allows equal graduation marks.

- Strengthened rim increases overall dimensional stability
- Functional spout minimizes spills
- Hexagonal base with knobs for increased stability
- Easy-to-read graduations
- Extremely durable



Graduated cylinders, class A



Class A graduated cylinders are characterized by their very low measure value scatter, as shown in the example above.

Class A error limits are maintained after 20 washing and 10 sterilization cycles at 121 °C. (DIN 12681 requires only 10 washing and 3 sterilization cycles.)



Graduated cylinders, class A, PMP

DE-M marking, tall form, with blue printed scale

PMP, transparent. DIN 12681 and ISO 6706. Calibrated to contain (TC, In). Incl. one batch certificate. A particularly high-quality printing ink is used in the plastic graduated cylinders. Exposure to temperatures up to 121 °C (autoclaving) will not cause permanently exceeded error limits! Cleaning temperature below 60 °C is recommended to preserve marks and inscriptions. 10 to 500 ml: pack of 2; 1000 and 2000 ml: pack of 1.

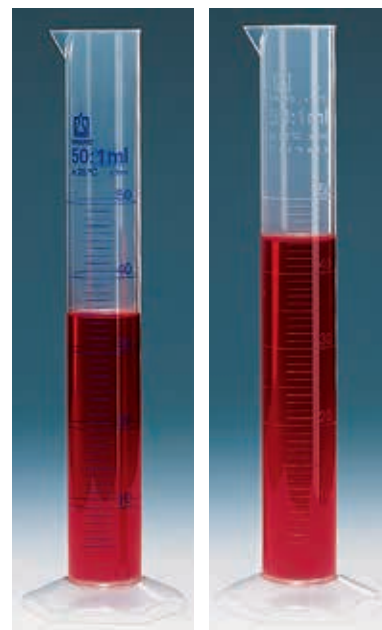
Capacity ml	Subdivision ml	Error limit A ± ml	Height mm	Cat. No.
10	0.2	0.10	145	351 08
25	0.5	0.25	170	351 20
50	1	0.5	200	351 28
100	1	0.5	250	351 38
250	2	1.0	315	351 48
500	5	2.5	360	351 54
1000	10	5	440	351 62
2000	20	10	535	351 64

Graduated cylinders, PP

tall form, class B, with blue printed scale or embossed scale

PP, high clarity. DIN 12 681 and ISO 6706. Calibrated to contain (TC, In). Exposure to temperatures up to 80 °C will not cause permanently exceeded error limits! Cleaning temperature below 60 °C is recommended to preserve marks and inscriptions.

Capacity ml	Subdivision ml	Error limit ± ml	Height mm	Pack of	blue scale Cat. No.	embossed scale Cat. No.
10	0.2	0.20	145	10	348 08	350 08
25	0.5	0.5	170	10	348 20	350 20
50	1	1.0	200	10	348 28	350 28
100	1	1.0	250	10	348 38	350 38
250	2	2.0	315	5	348 48	350 48
500	5	5	360	5	348 54	350 54
1000	10	10	440	5	348 62	350 62
2000	20	20	535	1	348 64	350 64

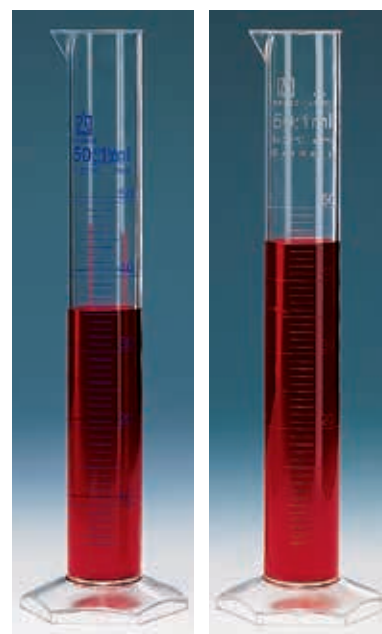


Graduated cylinders, PMP

tall form, class B, with blue printed scale or embossed scale

PMP, transparent. DIN 12 681 and ISO 6706. Calibrated to contain (TC, In). Exposure to temperatures up to 121 °C (autoclaving) will not cause permanently exceeded error limits! Cleaning temperature below 60 °C is recommended to preserve marks and inscriptions. For autoclaving, we recommend the design with embossed scale.

Capacity ml	Subdivision ml	Error limit ± ml	Height mm	Pack of	blue scale Cat. No.	embossed scale Cat. No.
10	0.2	0.20	145	10	347 08	349 08
25	0.5	0.5	170	10	347 20	349 20
50	1	1.0	200	10	347 28	349 28
100	1	1.0	250	10	347 38	349 38
250	2	2.0	315	5	347 48	349 48
500	5	5	360	5	347 54	349 54
1000	10	10	440	5	347 62	349 62
2000	20	20	535	1	347 64	349 64

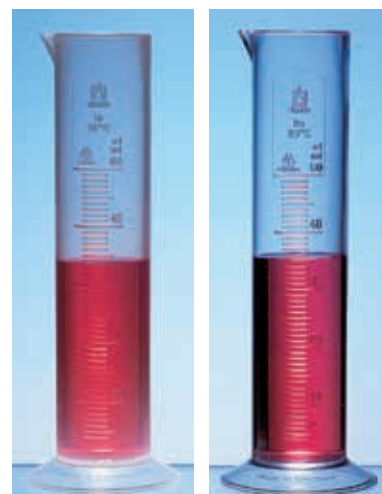


Graduated cylinders, PP and SAN

low form, with embossed scale

PP, high clarity. SAN, transparent. Calibrated to contain (TC, In). Exposure to temperatures up to 80 °C will not cause permanently exceeded error limits!

Capacity ml	Subdivision ml	Error limit ± ml	Pack of	PP Cat. No.	SAN Cat. No.
25	0.5	0.5	10	416 20	415 20
50	1.0	1.0	10	416 28	415 28
100	2.0	2.0	10	416 38	415 38
250	5.0	5	5	416 48	415 48
500	10.0	10	5	416 54	415 54
1000	20.0	20	5	416 62	415 62



Burettes and Automatic Burettes

Graduation and reading



BLAUBRAND® Schellbach Stripe

Ring marks at major graduations. Reading at point of contact of the two tips.



SILBERBRAND Schellbach Stripe

Short marks at major graduations. Reading at point of contact of the two tips.



SILBERBRAND

Short marks at major graduations. Reading at lowest point of meniscus.



Specifications


Burettes and automatic burettes are always calibrated to deliver (TD, Ex).

Waiting times:

BLAUBRAND® – waiting time 30 sec. SILBERBRAND – no waiting time

Note: A waiting time is usually not necessary if a titration is performed (see DIN EN ISO 385).

All BLAUBRAND® burettes and automatic burettes are supplied with a batch number and an accompanying batch certificate in the original packaging. On request, they are also available with an individual certificate, USP individual certificate or DAkkS calibration certificate (ordering information, page 173).

Note!  The abbreviation Boro 3.3 represents the internationally designated borosilicate glass type 3.3.

The needle-valve stopcock

PTFE valve spindle

Operates smoothly yet is tight, even without lubrication, so there is no grease residue on the burette. The valve spindle is replaceable.

Tight seal without force

A gentle turn is all it takes to close the burette valve.



Precision burette tip

Precise drop by drop control. Drop size remains constant – from the first to the last drop. The liquid stream breaks off precisely and does not creep along the outside edge.


Burettes, lateral stopcock

BLAUBRAND®, class AS, DE-M marking

Boro 3.3. DIN EN ISO 385. Calibrated to deliver (TD, Ex). Schellbach stripe.
Incl. one batch certificate. Length approx. 800 mm. Pack of 2.

Capacity ml	Subdivision ml	Error limit ± ml	Stopcock with	Cat. No.
10	0.02	0.02	PTFE spindle	138 44
25	0.05	0.03	PTFE spindle	138 47
50	0.1	0.05	PTFE spindle	138 48
10	0.02	0.02	Glass key	138 84
25	0.05	0.03	Glass key	138 87
50	0.1	0.05	Glass key	138 88



Note!  On request, BLAUBRAND® class AS burettes are also available with USP individual certificate.

Burettes, straight stopcock

BLAUBRAND®, class AS, DE-M marking

Boro 3.3. DIN EN ISO 385. Calibrated to deliver (TD, Ex). Schellbach stripe.
Incl. one batch certificate. Length approx. 800 mm. Pack of 2.

Capacity ml	Subdivision ml	Error limit ± ml	Stopcock with	Cat. No.
10	0.02	0.02	PTFE spindle	124 84
25	0.05	0.03	PTFE spindle	124 87
50	0.1	0.05	PTFE spindle	124 88
10	0.02	0.02	Glass key	124 64
25	0.05	0.03	Glass key	124 67
50	0.1	0.05	Glass key	124 68






Micro burettes, Bang pattern, straight stopcock

BLAUBRAND®, class AS, DE-M marking

Boro 3.3. DIN EN ISO 385. Calibrated to deliver (TD, Ex). Schellbach stripe. Incl. one batch certificate. Available with needle valve stopcock with PTFE spindle (PTFE key in intermediate stopcock) or STJ glass stopcock (glass key in intermediate stopcock). Pack of 2.

Capacity ml	Subdivision ml	Error limit \pm ml	Length mm	Stopcock with	Cat. No.
2	0.01	0.01	600	PTFE spindle	242 65
5	0.01	0.01	820	PTFE spindle	242 67
10	0.02	0.02	820	PTFE spindle	242 69
2	0.01	0.01	600	Glass key	242 55
5	0.01	0.01	820	Glass key	242 57
10	0.02	0.02	820	Glass key	242 59

Note!  On request, BLAUBRAND® class AS burettes are also available with USP individual certificate.



Micro burettes, Bang pattern, lateral stopcock

BLAUBRAND®, class AS, DE-M marking

Boro 3.3. DIN EN ISO 385. Calibrated to deliver (TD, Ex). Schellbach stripe. Incl. one batch certificate. Available with needle valve stopcock with PTFE spindle (PTFE key in intermediate stopcock) or STJ glass stopcock (glass key in intermediate stopcock). With base. Pack of 2.

Capacity ml	Subdivision ml	Error limit \pm ml	Length mm	Stopcock with	Cat. No.
2	0.01	0.01	660	PTFE spindle	245 95
5	0.01	0.01	900	PTFE spindle	245 97
10	0.02	0.02	900	PTFE spindle	245 99
2	0.01	0.01	660	Glass key	245 45
5	0.01	0.01	900	Glass key	245 47
10	0.02	0.02	900	Glass key	245 49

Burettes, lateral stopcock

SILBERBRAND, class B

Boro 3.3. DIN EN ISO 385. Calibrated to deliver (TD, Ex). Schellbach stripe. Length approx. 800 mm. Pack of 2.

Capacity ml	Subdivision ml	Error limit \pm ml	Stopcock with	Cat. No.
10	0.02	0.03	PTFE spindle	135 63
25	0.05	0.05	PTFE spindle	135 66
50	0.1	0.08	PTFE spindle	135 68
25	0.05	0.05	Glass key	135 06
50	0.1	0.08	Glass key	135 08



Burettes, straight stopcock

SILBERBRAND, class B

Boro 3.3. DIN EN ISO 385. Calibrated to deliver (TD, Ex). Schellbach stripe. Length approx. 800 mm. Pack of 2.

Capacity ml	Subdivision ml	Error limit \pm ml	Stopcock with	Cat. No.
10	0.02	0.03	PTFE spindle	120 93
25	0.05	0.05	PTFE spindle	120 96
50	0.1	0.08	PTFE spindle	120 98





Burettes, straight stopcock

SILBERBRAND

Boro 3.3.

10 ml and 25 ml: Error limit according to class B, DIN EN ISO 385.

50 ml: DIN EN ISO 385, class B.

Calibrated to deliver (TD, Ex). Schellbach stripe. Pack of 2.

Capacity ml	Subdivision ml	Error limit ± ml	Length mm	Stopcock with	Cat. No.
10*	0.05	0.05	470	Glass key	120 13
25*	0.1	0.08	520	Glass key	120 16
50	0.1	0.08	790	Glass key	120 18

* reduced distance between subdivision marks



Burettes, amber glass, straight stopcock

SILBERBRAND

Borosilicate glass 5.4.

25 ml: Error limit according to class B, DIN EN ISO 385.

50 ml: DIN EN ISO 385, class B.

Calibrated to deliver (TD, Ex). Pack of 2.

Capacity ml	Subdivision ml	Error limit ± ml	Length mm	Stopcock with	Cat. No.
25*	0.1	0.08	550	PTFE key	135 36
50	0.1	0.10	800	PTFE key	135 38
25*	0.1	0.08	550	Glass key	135 32
50	0.1	0.10	800	Glass key	135 34

* reduced distance between subdivision marks

The Modular Burette Concept!

The Compact Burette from BRAND.


- with PTFE stopcock
- fast to dismantle and easy to clean
- simple repair – all individual components replaceable!

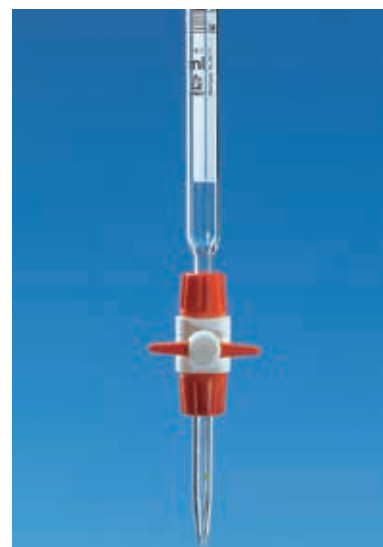
Compact Burettes

BLAUBRAND®, class AS, DE-M marking

Boro 3.3, removable PTFE stopcock. DIN EN ISO 385. Calibrated to deliver (TD, Ex).
Items supplied: Burette tube with Schellbach stripe; Stopcock with precision tip.
Incl. one batch certificate. Pack of 1.

Capacity ml	Subdivision ml	Error limit ± ml	Length mm	Cat. No.
10	0.02	0.02	795	139 13
25	0.05	0.03	800	139 16
50	0.1	0.05	800	139 18

Note!  On request, BLAUBRAND® class AS burettes are also available with USP individual certificate.



Compact Burettes

SILBERBRAND

AR-GLAS®, removable PTFE stopcock. Error limits according to class B, DIN EN ISO 385.
Calibrated to deliver (TD, Ex). Items supplied: Burette tube with Schellbach stripe;
Stopcock with precision tip. Pack of 1.

Capacity ml	Subdivision ml	Error limit ± ml	Length mm	Cat. No.
10*	0.05	0.05	445	139 03
25*	0.1	0.08	510	139 06
50*	0.1	0.10	710	139 08

* reduced distance between subdivision marks

Compact Burettes, amber glass

SILBERBRAND

Borosilicate glass 5.4, removable PTFE stopcock.
25 ml: Error limit according to class B, DIN EN ISO 385.
50 ml: DIN EN ISO 385, class B.
Calibrated to deliver (TD, Ex).
Items supplied: Burette tube with white graduation; Stopcock with precision tip. Pack of 1.

Capacity ml	Subdivision ml	Error limit ± ml	Length mm	Cat. No.
25*	0.1	0.08	520	139 26
50	0.1	0.10	790	139 28

* reduced distance between subdivision marks



Spare burette tubes

for the Compact burette

BLAUBRAND®, incl. batch certificate, Pack of 1.

Desription	Capacity ml	Length mm	Cat. No.
BLAUBRAND®, Boro 3.3	10	700	139 43
BLAUBRAND®, Boro 3.3	25	705	139 46
BLAUBRAND®, Boro 3.3	50	705	139 48
SILBERBRAND, AR-GLAS®	10*	350	139 33
SILBERBRAND, AR-GLAS®	25*	410	139 36
SILBERBRAND, AR-GLAS®	50*	610	139 38
SILBERBRAND, amber glass	25*	425	139 56
SILBERBRAND, amber glass	50	695	139 58

* reduced distance between subdivision marks

Spare burette stopcock

for all Compact burettes and Compact automatic burettes

PTFE. With screw couplings and seals, without burette tip.
Pack of 1.

Cat. No.	118 05
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Spare burette tips

for Compact burettes and Compact automatic burettes

Pack of 1.

For burettes	Desription	Cat. No.
clear glass 10 ml	clear glass, Boro 3.3	115 10
clear glass 25 ml	clear glass, Boro 3.3	115 11
clear glass 50 ml	clear glass, Boro 3.3	115 12
amber glass 25 and 50 ml	amber glass, Boro 5.4	115 15

Compact burettes, 'Economy'

SILBERBRAND

AR-GLAS®, removable PTFE stopcock with PP tip. Error limits according to class B, DIN EN ISO 385. Calibrated to deliver (TD, Ex). Items supplied: burette tube, stopcock with PP tip.

Pack of 2.

Capacity ml	Subdivision ml	Error limit ± ml	Length mm	Cat. No.
25*	0.1	0.08	510	100 12
50*	0.1	0.10	710	100 14

* reduced distance between subdivision marks



Burette tubes

SILBERBRAND

AR-GLAS®. Error limits according to class B, DIN EN ISO 385. Calibrated to deliver (TD, Ex). Discharge tube with outer Ø 8 mm. For use with PTFE stopcock (Cat. No. 118 00).

Pack of 2.

Capacity ml	Subdivision ml	Error limit ± ml	Length mm	Cat. No.
25*	0.1	0.08	400	100 02
50*	0.1	0.10	620	100 04

* reduced distance between subdivision marks



PTFE stopcock

for burette tubes

With PP tip. Complete with mounting tool. Pack of 1.

Cat. No.	118 00
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Spare burette tip

for PTFE stopcock

PP, with screw cap. Pack of 1.

Cat. No.	116 00
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Materials:

Filling tube: PVC
 Discharge tube: silicone
 Reservoir bottle: PE-LD
 Base: PE-HD
 Fitting, grey: Polyamide
 Micrometer screw: brass/PP

- Squeezing bottle allows rapid filling
- Automatic zeroing
- Micrometer screw allows fine titration
- Rough titration by releasing the micrometer screw and using the press button

Note!  Burettes not in use for longer periods should be drained and tubing pressure released by opening the stopcock.

Automatic burettes, Dr. Schilling pattern

SILBERBRAND

Burette: AR-GLAS®. Error limits according to class B, DIN EN ISO 385. Calibrated to deliver (TD, Ex). Schellbach stripe. Automatic zeroing. Pack of 1.

Capacity ml	Subdivision ml	Error limit ± ml	With bottle ml	Total height mm	Cat. No.
10*	0.05	0.05	500	530	237 53
15*	0.1	0.08	500	510	237 55
25*	0.1	0.08	1000	620	237 56
50*	0.1	0.10	1000	830	237 58
25*, amber glass	0.1	0.08	1000, amber	650	237 66
50, amber glass	0.1	0.10	1000, amber	900	237 68

* reduced distance between subdivision marks

Spare parts for automatic burettes, Dr. Schilling pattern

Spare burettes

Pack of 1.

Capacity ml	Length mm	Cat. No.
10*	340	237 13
15*	320	237 15
25*	390	237 16
50*	600	237 18
25*, amber glass	420	237 23
50, amber glass	670	237 24

* reduced distance between subdivision marks

Bases

Pack of 1.

For bottle ml	Ø bottle mm	Cat. No.
500	75	237 25
1000	94	237 28

Reservoir bottles

PE-LD. Narrow-mouth bottle with tube bushing. Pack of 1.

Capacity ml	Ø mm	Height mm	Thread GL	Cat. No.
500	75	180	25	1290 55
1000	94	212	28	1290 60
1000, amber	94	212	28	1302 60

Fittings

Micrometer screw with push-button, incl. support clamp. Pack of 1.

For capacity ml	for reservoir bottle ml	Cat. No.
10	500	237 45
15	500	237 46
25 - 50	1000	237 48

Glass discharge tip

AR-GLAS®. With silicone tubing. Pack of 10.

Clear glass

Cat. No.	
	115 00

Amber glass

Cat. No.	
	115 05

Automatic burettes, Pellet pattern, with intermediate stopcock

BLAUBRAND®, class AS, DE-M marking


Boro 3.3. DIN EN ISO 385. Calibrated to deliver (TD, Ex). Schellbach stripe. Incl. one batch certificate. Available with needle valve stopcock with PTFE spindle (PTFE key in intermediate stopcock) or STJ glass stopcock (glass key in intermediate stopcock). Automatic zeroing. Intermediate stopcock 4 NS/19 for recirculating residual liquid. Total height approx. 1 m incl. 2000 ml bottle (soda-lime glass). Pack of 1.

Needle-valve stopcock (PTFE key in intermediate stopcock)

Capacity ml	Subdivision ml	Error limit \pm ml	Description	Cat. No.
10	0.02	0.02	with bottle	227 64
25	0.05	0.03	with bottle	227 67
50	0.1	0.05	with bottle	227 68
10	0.02	0.02	without bottle	227 61
25	0.05	0.03	without bottle	227 62
50	0.1	0.05	without bottle	227 63

Glass stopcock (glass key in intermediate stopcock)

Capacity ml	Subdivision ml	Error limit \pm ml	Description	Cat. No.
10	0.02	0.02	with bottle	227 34
25	0.05	0.03	with bottle	227 37
50	0.1	0.05	with bottle	227 38
10	0.02	0.02	without bottle	227 31
25	0.05	0.03	without bottle	227 32
50	0.1	0.05	without bottle	227 33

Note!  On request, BLAUBRAND® class AS burettes are also available with USP individual certificate.

Automatic burettes, Pellet pattern, without intermediate stopcock

BLAUBRAND®, class AS, DE-M marking

Boro 3.3. DIN EN ISO 385. Calibrated to deliver (TD, Ex). Schellbach stripe. Incl. one batch certificate. With needle-valve stopcock with PTFE spindle. Automatic zeroing. Total height approx. 1 m incl. 2000 ml bottle (soda-lime glass). Pack of 1.

Capacity ml	Subdivision ml	Error limit \pm ml	Description	Cat. No.
10	0.02	0.02	with bottle	225 24
25	0.05	0.03	with bottle	225 28
50	0.1	0.05	with bottle	225 30
10	0.02	0.02	without bottle	225 21
25	0.05	0.03	without bottle	225 22
50	0.1	0.05	without bottle	225 23





Automatic burettes, Pellet pattern, without intermediate stopcock

SILBERBRAND, class B

Boro 3.3. DIN EN ISO 385. Calibrated to deliver (TD, Ex). Schellbach stripe. With needle-valve stopcock with PTFE spindle. Automatic zeroing. Total height approx. 1 m incl. 2000 ml bottle (soda-lime glass). Pack of 1.

Capacity ml	Subdivision ml	Error limit \pm ml	Description	Cat. No.
10	0.02	0.03	with bottle	219 14
25	0.05	0.05	with bottle	219 17
50	0.1	0.08	with bottle	219 18
10	0.02	0.03	without bottle	219 11
25	0.05	0.05	without bottle	219 12
50	0.1	0.08	without bottle	219 13

Automatic burettes, Pellet pattern, with intermediate stopcock

SILBERBRAND, amber glass

Borosilicate glass 5.4.

25 ml: Error limits according to class B, DIN EN ISO 385.

50 ml: DIN EN ISO 385, class B.

Calibrated to deliver (TD, Ex). Available with titration stopcock with PTFE key (PTFE key in intermediate stopcock) or STJ glass stopcock (glass key in intermediate stopcock).

Automatic zeroing. Intermediate stopcock 4 NS/19 for recirculating residual liquid.

Total height 25 ml approx. 0.7 m, total height 50 ml approx. 1 m incl. 2000 ml bottle (soda-lime glass). Pack of 1.



Titration and intermediate stopcock with PTFE key

Capacity ml	Subdivision ml	Error limit \pm ml	Description	Cat. No.
25*	0.1	0.08	with bottle	223 32
50	0.1	0.10	with bottle	223 34
25*	0.1	0.08	without bottle	223 36
50	0.1	0.10	without bottle	223 38

* reduced distance between subdivision marks

Titration and intermediate stopcock with glass key

Capacity ml	Subdivision ml	Error limit \pm ml	Description	Cat. No.
25*	0.1	0.08	with bottle	223 22
50	0.1	0.10	with bottle	223 24
25*	0.1	0.08	without bottle	223 26
50	0.1	0.10	without bottle	223 28

* reduced distance between subdivision marks

Automatic burettes, Pellet pattern, without intermediate stopcock

SILBERBRAND, amber glass

Borosilicate glass 5.4.

25 ml: Error limits according to class B, DIN EN ISO 385.

50 ml: DIN EN ISO 385, class B.

Calibrated to deliver (TD, Ex). Available with titration stopcock with PTFE key or glass key.

Total height 25 ml approx. 0.7 m, total height 50 ml approx. 1 m incl. 2000 ml bottle (soda-lime glass). Pack of 1.

Titration stopcock with PTFE key

Capacity ml	Subdivision ml	Error limit \pm ml	Description	Cat. No.
25*	0.1	0.08	with bottle	223 12
50	0.1	0.10	with bottle	223 14
25*	0.1	0.08	without bottle	223 16
50	0.1	0.10	without bottle	223 18

* reduced distance between subdivision marks

Titration stopcock with glass key

Capacity ml	Subdivision ml	Error limit \pm ml	Description	Cat. No.
25*	0.1	0.08	with bottle	223 02
50	0.1	0.10	with bottle	223 04
25*	0.1	0.08	without bottle	223 06
50	0.1	0.10	without bottle	223 08

* reduced distance between subdivision marks



Spare key for intermediate stopcock 4 NS/19

for automatic burette, pellet pattern

PTFE or borosilicate glass 5.4, with retention device.

Pack of 1.

Description	Clear glass Cat. No.	Amber glass Cat. No.
PTFE key	812 65	812 65
Glass key	812 55	812 56

Please order supports, burette clamps and rubber bellows separately (pages 212-213).



The Modular Automatic Burette Concept

Compact Automatic Burettes from BRAND.

- fast to dismantle and easy to clean
- easy to repair – all individual components replaceable!

Compact automatic burettes

BLAUBRAND®, class AS, DE-M marking

Boro 3.3, detachable PTFE stopcock. DIN EN ISO 385. Calibrated to deliver (TD, Ex). Incl. one batch certificate.

Items supplied:

Burette tube with Schellbach stripe and automatic zeroing, stopcock with precision tip, filling tube (PVC, transparent), pumphead and 2000 ml bottle (soda-lime glass). Pack of 1.

Please order supports, burette clamps and rubber bellows separately (pages 212-213).

Capacity ml	Subdivision ml	Error limit ± ml	Length mm	Cat. No.
10	0.02	0.02	775	239 19
25	0.05	0.03	785	239 20
50	0.1	0.05	790	239 21

Note! On request, BLAUBRAND® class AS burettes are also available with USP individual certificate.



Compact automatic burettes

SILBERBRAND

AR-GLAS®, detachable PTFE stopcock. Error limits according to class B, DIN EN ISO 385. Calibrated to deliver (TD, Ex).

Items supplied:

Burette tube with Schellbach stripe and automatic zeroing, stopcock with precision tip, filling tube (PVC, transparent), pumphead and 2000 ml bottle (soda-lime glass). Pack of 1.

Please order supports, burette clamps and rubber bellows separately (pages 212-213).

Capacity ml	Subdivision ml	Error limit ± ml	Length mm	Cat. No.
10*	0.05	0.05	455	239 09
25*	0.1	0.08	520	239 10
50*	0.1	0.10	730	239 11

* reduced distance between subdivision marks

Please order supports, burette clamps and rubber bellows separately (pages 212-213).

Compact automatic burettes, amber glass

SILBERBRAND

Borosilicate glass 5.4, detachable PTFE stopcock. Calibrated to deliver (TD, Ex).

25 ml: Error limit according to class B, DIN EN ISO 385.

50 ml: DIN EN ISO 385, class B.

Items supplied:

Burette tube with white graduation and automatic zeroing, stopcock with precision tip, filling tube (PVC, transparent), pumphead and 2000 ml bottle (soda-lime glass). Pack of 1.

Please order supports, burette clamps and rubber bellows separately (pages 212-213).

Capacity ml	Subdivision ml	Error limit ± ml	Length mm	Cat. No.
25*	0.1	0.08	495	239 29
50	0.1	0.10	780	239 30

* reduced distance between subdivision marks



Compact automatic burettes


BLAUBRAND®, class AS, DE-M marking

Boro 3.3, detachable PTFE stopcock. DIN EN ISO 385. Calibrated to deliver (TD, Ex). Incl. one batch certificate.

Items supplied: Burette tube with Schellbach stripe and automatic zeroing, stopcock with precision tip, filling tube (PVC, transparent) and 1000 ml PE-bottle with base. Pack of 1.

Please order supports, burette clamps and rubber bellows separately (pages 212-213).

Capacity ml	Subdivision ml	Error limit ± ml	Length mm	Cat. No.
10	0.02	0.02	775	238 19
25	0.05	0.03	785	238 20
50	0.1	0.05	790	238 21

Note!  On request, BLAUBRAND® class AS burettes are also available with USP individual certificate.



Automatic Burettes

Please order supports and burette clamps separately (pages 212-213).



Compact automatic burettes

SILBERBRAND

AR-GLAS®, detachable PTFE stopcock. Error limits according to class B, DIN EN ISO 385. Calibrated to deliver (TD, Ex).

Items supplied:

Burette tube with Schellbach stripe and automatic zeroing, stopcock with precision tip, filling tube (PVC, transparent) and 1000 ml PE-bottle with base. Pack of 1.

Please order supports and burette clamps separately (pages 212-213).

Capacity ml	Subdivision ml	Error limit ± ml	Length mm	Cat. No.
10*	0.05	0.05	455	238 09
25*	0.1	0.08	520	238 10
50*	0.1	0.10	730	238 11

* reduced distance between subdivision marks



Compact automatic burettes, amber glass

SILBERBRAND

Borosilicate glass 5.4, detachable PTFE stopcock. Calibrated to deliver (TD, Ex).

25 ml: Error limit according to class B, DIN EN ISO 385.

50 ml: DIN EN ISO 385, class B.

Items supplied:

Burette tube with white graduation and automatic zeroing, stopcock with precision tip, filling tube (PVC, transparent) and brown 1000 ml PE-bottle with base. Pack of 1.

Please order supports and burette clamps separately (pages 212-213).

Capacity ml	Subdivision ml	Error limit ± ml	Length mm	Cat. No.
25*	0.1	0.08	495	238 29
50	0.1	0.10	780	238 30

* reduced distance between subdivision marks

Spare burette tubes

for Compact automatic burettes with automatic zeroing

BLAUBRAND®, incl. batch certificate. Pack of 1.

Description	Capacity ml	Length mm	Cat. No.
BLAUBRAND®, Boro 3.3	10	680	238 43
BLAUBRAND®, Boro 3.3	25	690	238 46
BLAUBRAND®, Boro 3.3	50	695	238 48
SILBERBRAND, AR-GLAS®	10*	360	238 33
SILBERBRAND, AR-GLAS®	25*	425	238 36
SILBERBRAND, AR-GLAS®	50*	635	238 38
SILBERBRAND, amber glass	25*	400	238 66
SILBERBRAND, amber glass	50	685	238 68

* reduced distance between subdivision marks

(Burette clamps, see page 212-213)

Spare burette stopcock

for all Compact burettes and Compact automatic burettes

PTFE. With screw couplings and seals, without burette tip.
Pack of 1.

Cat. No.	118 05
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Spare burette tips

for all Compact burettes and Compact automatic burettes

Pack of 1.

For burettes	Description	Cat. No.
clear glass 10 ml	clear glass, Boro 3.3	115 10
clear glass 25 ml	clear glass, Boro 3.3	115 11
clear glass 50 ml	clear glass, Boro 3.3	115 12
amber glass 25 and 50 ml	amber glass, Boro 5.4	115 15

Bases

Pack of 1.

Spare filling tube

PVC, transparent.
Inner-Ø 5 mm, Outer-Ø 7 mm, length 1 m.
Pack of 1.

Cat. No.	115 25
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For bottle ml	Ø bottle mm	Cat. No.
500	75	237 25
1000	94	237 28

Reservoir bottles

PE-LD. Narrow-mouth bottle with tube bushing. Pack of 1.

Capacity ml	Ø mm	Height mm	Thread GL	Cat. No.
500	75	180	25	1290 55
1000	94	212	28	1290 60
1000, amber	94	212	28	1302 60





Spare reservoir bottles for automatic burettes

Available in clear or amber glass

Boro 3.3 or soda-lime glass. Capacity 2000 ml. Pack of 1.

Material	Ø mm	Height mm	Neck size	Description	Cat. No.
Boro 3.3	160	200	29/32	Clear glass	233 10
Boro 3.3	160	200	29/32	Amber glass	233 20
Soda-lime glass	160	200	29/32	Clear glass	1269 65
Soda-lime glass	160	200	29/32	Amber glass	1270 65



Pumphead

for glass reservoir bottle,
compact automatic burette

Boro 3.3. NS 29/32. Fitting length
185 mm. Nozzle outer diameter 7 mm.
Pack of 1.

Description	Cat. No.
Clear glass	238 75
Amber glass	238 76



Rubber bellows

for automatic burettes

Orange colored, single-bulb rubber
bellows. With valve and tubing. Pack of 1.

Cat. No.	234 00
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Burette clamps

Zinc alloy, nickel-plated.
PVC-coated clamps.
Pack of 1.

Description	Cat. No.
for 1 burette	165 15
for 2 burettes	165 20



Joint Clip

Stainless-steel Neck size 29/32.
Pack of 1.

Cat. No.	556 18
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Burette clamp

Alluminium die cast. Two burettes up to 50 ml can be mounted in seconds. With plastic-coated roller grips. Comfortable height adjustment. Graduations remain visible.

Very sturdy design, easy to operate. Integral support connector. Ideal for use with burette support (Cat. No. 238 82). Pack of 1.

Cat. No.	5780 00
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Burette clamps

PP, white. To be mounted on support rods of 8 to 14 mm Ø. Easily affixes the burette by clamping with a non-corroding spring. Pack of 1.

Description	Cat. No.
for 1 burette	165 05
for 2 burettes	165 10



Burette support

Baseplate: PP with rubber feet minimize sliding and protect bench-top.
Support rod: Stainless steel.
Includes baseplate 210 x 155 mm (L x W).
Support rod 550 x 12 mm (L x diameter)
Pack of 1.

Cat. No.	238 82
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Burette covers

PP. Ribbed inside to prevent suction attachment during titration. Pack of 10.

Inner Ø mm	Height mm	Cat. No.
20	30	164 00





Spare burette stopcocks

Needle-valve stopcocks

BISTABIL, Boro 3.3/PTFE

Valve housing with precision Boro 3.3 burette tip.
Interchangeable PTFE valve spindle, PP cap and retention device.
Valve opening 0-2.5 mm. Pack of 1.

For burette capacity ml	Lateral needle-valve stopcock Cat. No.	Straight needle-valve stopcock Cat. No.
2 - 10	821 20	822 20
25	821 21	822 21
50	821 22	822 22
Spare spindle with retention for ml		
2 - 50	821 70	821 70

Glass stopcocks

BISTABIL, Boro 3.3

Stopcock housing with precision Boro 3.3 burette tip.
Interchangeable borosilicate glass stopcock key with retention device.
Stopcock size 3NS/12. Pack of 1.

For burette capacity ml	Boro 3.3 Lateral stopcock Cat. No.	Boro 3.3 Straight stopcock Cat. No.
2 - 10	818 05	818 15
25	818 07	818 17
50	818 09	818 19
Spare key with retention for ml		
2 - 10	811 40	810 53
25	811 41	810 53
50	811 42	810 53

Glass stopcocks, amber glass

BISTABIL, Borosilicate glass 5.4

Stopcock housing with burette tip.
Interchangeable PTFE or borosilicate glass key with retention device.
Stopcock size 3NS/12. Pack of 1.

For burette capacity ml	Lateral stopcock PTFE key Cat. No.	Lateral stopcock Glass key Cat. No.	Straight stopcock PTFE key Cat. No.	Straight stopcock Glass key Cat. No.
25	819 27	819 07	819 37	819 17
50	819 27	819 09	819 39	819 19
Spare key with retention for ml				
25	811 67	811 46	812 48	812 47
50	811 67	811 47	812 48	812 47



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