

Calibrex™ *digital*
your universal preference

bottle-top dispensers



Designed for performance handling of liquids from a large variety of bottles and flasks, the Calibrex™ instruments combine the latest in dosing technology, high-tech materials and ergonomic design. As a result, users benefit from ease of operation, superior safety and low maintenance.

The Calibrex™ line features:

- Superior chemical resistance
- Long-lasting performance stability
- Comfortable and convenient to use
- Solid, yet simple construction
- Instant volume setting
- In-lab calibration
- Autoclavable at 121°C fully assembled

The Calibrex™ models
520 521

 **SOCOREX**
SWISS

Calibrex™ digital

your universal preference



► Friendly digital volume setting

Adjustment is fast and precise even with a gloved hand. An efficient click-stop mechanism prevents unwanted alteration. Large display is easy to read; the window adjusts to desired side of instrument body.

A true digital system contributes to the long-term calibration stability. Each step on the cylindrical cam is pre-calibrated and corresponds to one division on the volume adjustment scale.



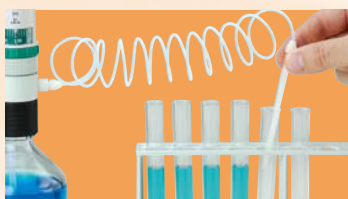
► Optimised working position

The instrument rotates 360° for adequate positioning on top of the bottle.



► Air filter

Air inlet can be enlarged to receive a membrane filter, if airborne contamination is a concern.



► Extension tubing

Autoclavable PTFE delivery Jet-Pen and extension tubing help dispense into vessels with maximum comfort within a 60 cm distance. This accessory fits Calibrex™ dispensers up to 20 mL.

Calibrex™ 520 up to 10 mL

Three colour-coded models with adjustable volumes are ranging 0.25 to 2 mL, 1 to 5 mL and 1 to 10 mL. Fixed versions also available in any volume. The Calibrex™ combine a clever, yet simple construction and a universal chemical compatibility. Among other features, they are particularly appreciated for their smooth, effortless activation and their sturdiness.



520

0.25 - 2 mL
1 - 5 mL
1 - 10 mL

Absolute stability

Stand holds dispenser up to 50 mL. Most useful with small-size bottles.



Bulk container aspiration

Work station facilitates liquid intake from drum or other remote container (<10 m distance, <2 m elevation).





Calibrex™ 521 up to 100 mL

Three 521 sizes expand the Calibrex™ line with larger dispensing volumes ranging from 2 to 20 mL, 10 to 50 mL and 10 to 100 mL. Similar to the 520 model in many respects such as construction quality, sturdiness, chemical resistance, smooth plunger travel, in-lab calibration, autoclaving, the 521 range has a distinct black design. Also fitted with the Solid Calibration adjustment system, the Calibrex™ 521 has an additional fine-tuning ring.

521



2 - 20 mL
10 - 50 mL
10 - 100 mL

Performance

| Volume mL | Inaccuracy (E %)* | | Imprecision (CV%) | |
|----------------------|-------------------|-----------|-------------------|-----------|
| | Min. vol. | Max. vol. | Min. vol. | Max. vol. |
| Calibrex™ 520 | | | | |
| 0.25 - 2 | < ± 3.0 % | < ± 0.6 % | < 0.5 % | < 0.1 % |
| 1 - 5 | < ± 2.0 % | < ± 0.6 % | < 0.5 % | < 0.1 % |
| 1 - 10 | < ± 1.5 % | < ± 0.6 % | < 0.5 % | < 0.1 % |
| Calibrex™ 521 | | | | |
| 2 - 20 | < ± 1.5 % | < ± 0.6 % | < 0.5 % | < 0.1 % |
| 10 - 50 | < ± 1.5 % | < ± 0.6 % | < 0.5 % | < 0.1 % |
| 10 - 10 | < ± 1.5 % | < ± 0.6 % | < 0.5 % | < 0.1 % |

*Fixed volume models: performance may vary according to desired volume



► In-lab calibration

The Calibrex™ dispensers are factory calibrated. Both 520 and 521 models can be easily recalibrated by means of a dedicated adjustment screw.



► Easy maintenance

Disassembling/reassembling is facilitated by the limited number of well-connected parts - no tool needed. Key elements such as valves, plunger, barrel and delivery jet can be removed in seconds for cleaning. All Calibrex™ dispensers are autoclavable fully assembled at 121°C.



► Superior material selection

Special attention is paid to component materials, providing for long instrument life. Parts coming in contact with the liquid flow are chemically inert.

| Parts | 520 model | 521 model |
|-----------------------|------------------------|--------------------|
| Feed tube | PTFE | |
| Intake valve | Ceramic | Borosilicate glass |
| Valve balls | Pyrex glass | Ceramic, ruby |
| Valve spring | Platinum-iridium | |
| Barrel | Borosilicate glass | |
| Barrel plate | PTFE | |
| Plunger | Glass with PFA coating | |
| Outlet valve | Ceramic | |
| Body | ETFE | |
| Delivery jet assembly | PTFE/ETFE | |



► Bottle-neck adapters

Both 520 and 521 models have a 32 mm base thread. They come with three bottle-neck adapters in 28, 40 and 45 mm diameters (520) or 38, 40, 45 mm diameters (521), bringing to four the number of suited bottle diameters. See p.4 for bottles and accessories.

bottle-top dispensers

Ordering information – Instruments

Standard supply includes instrument, 3 adapters (see right column on p.3), feed tube 300 mm (375 mm with 521.100), QC certificate and operating instructions.

| Volume mL | Increment mL | Cat. No. Adj. volume | Cat. No. Fixed volume* | Volume mL | Increment mL | Cat. No. Adj. volume | Cat. No. Fixed volume* |
|----------------------|--------------|----------------------|------------------------|----------------------|--------------|----------------------|------------------------|
| Calibrex™ 520 | | | | Calibrex™ 521 | | | |
| 0.25 – 2 | 0.05 | 520.002 | 520.F02 | 2 – 20 | 0.1 | 521.020 | 521.F020 |
| 1 – 5 | 0.1 | 520.005 | 520.F05 | 10 – 50 | 1.0 | 521.050 | 521.F050 |
| 1 – 10 | 0.25 | 520.010 | 520.F10 | 10 – 100 | 1.0 | 521.100 | 521.F100 |

*Specify desired fixed volume within instrument range when ordering

Ordering information – Accessories

Work station

| Description | Cat. No. |
|--|-----------|
| Stand for dispenser up to 50 mL | 320.SB050 |
| Stand for remote liquid intake, dispenser up to 50 mL* | 320.BC050 |
| Stand for remote liquid intake, dispenser 100 mL* | 320.BC100 |

*Feed tube not included, to be ordered separately

PTFE tubings

| Description | Length | Int. Ø | Cat. No. |
|--|---------|--------|----------|
| Extention tubing for dispenser up to 20 mL | 600 mm | 2.2 mm | 1.524 |
| Replacement feed tubing, 520 all sizes | 300 mm | 5 mm | 511.707 |
| Replacement feed tubing 521, 20 mL | 300 mm | 7.5 mm | 521.621 |
| Replacement feed tubing 521, 50 mL | 300 mm | 10 mm | 521.622 |
| Replacement feed tubing 521, 100 mL | 375 mm | 10 mm | 521.623 |
| Feed tubing by the meter, uncut | specify | 5 mm | 511.709 |
| Feed tubing by the meter, uncut | specify | 7.5 mm | 521.705 |
| Feed tubing by the meter, uncut | specify | 10 mm | 521.706 |

Adapters – Replacement and additional adapters of various kind

| Type | Ext. Ø of bottle neck | Cat. No. |
|----------------|---------------------------------------|----------|
| Threaded, PP | 22, 25, 28, 30, 34, 36, 38, 40, 45 mm | GLP + Ø |
| Threaded, PTFE | 36, 38, 40, 45 mm | GLT + Ø |
| Tapered, PP | 18.8, 24, 29.2, 45 mm | NSP + Ø |
| Tapered, PTFE | 18.8, 24, 29.2 mm | NST + Ø |

Bottles – Large selection of bottles supplied with screw cap

| Material | Volume mL | Neck, ext. Ø | Cat. No. | Material | Volume mL | Neck, ext. Ø | Cat. No. |
|--------------------------|-----------|--------------|------------|---|-----------|--------------|-----------|
| Amber glass | 100 | 32 mm | 314.0100 | Clear borosilicate glass | 250 | 45 mm | 314.0250C |
| | 250 | 32 mm | 314.0250 | | 500 | 45 mm | 314.0500C |
| | 500 | 32 mm | 314.0500 | | 1000 | 45 mm | 314.1000C |
| | 1000 | 45 mm | 314.1000 | | 2000 | 45 mm | 314.2000C |
| | 2500 | 45 mm | 314.2500 | | 500 | 32 mm | 314.0500P |
| Amber glass, with handle | 2500 | 45 mm | 314.2500H | Clear Pyrex glass, with connection neck | 250 | 25 mm | 315.0250 |
| PE coated amber glass | 500 | 32 mm | 314.0500PE | | 500 | 25 mm | 315.0500 |
| | 1000 | 45 mm | 314.1000PE | | 1000 | 32 mm | 315.1000 |
| | 2500 | 45 mm | 314.2500PE | | 2500 | 45 mm | 315.2500 |
| | 2500 | 45 mm | 314.2500PE | | | | |

Your local distributor



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Safety first

A protection sleeve prevents barrel breakage and eliminates any risk of spilling. Cap-on delivery jet prevents liquid loss. Both models have been approved for safety (GS tested) by the German TÜV organisation.



QC and warranty

Each Calibrex™ dispenser bears its own serial number and passes a strict quality control attested by an individual certificate.

Performance values obtained by a smooth and constant plunger movement, with Aqua bidest. at constant temperature ($\pm 0.5^\circ\text{C}$) comprised between 20 and 25°C, according to EN ISO 8655/DIN 12650.

One-year warranty

G.M. SYSTEM
ISO 9001/13485
CERTIFIED



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