

Calibrex™ *digital*
your best choice, precisely

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:

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

The Calibrex™ models
520 521

 **SOCOREX**
SWISS

Calibrex™ digital

your best choice, precisely



► 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.



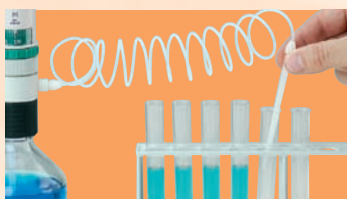
► Optimised working position

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 and an additional fine-tuning ring.

521



2 – 20 mL
10 – 50 mL
10 – 100 mL

Performance

Volume mL	Division mL	Inaccuracy (E %)*		Imprecision (CV%)	
		Min. vol.	Max. vol.	Min. vol.	Max. vol.
Calibrex™ 520					
0.25 – 2	0.05	< ± 3.0 %	< ± 0.6 %	< 0.5 %	< 0.1 %
1 – 5	0.1	< ± 2.0 %	< ± 0.6 %	< 0.5 %	< 0.1 %
1 – 10	0.25	< ± 1.5 %	< ± 0.6 %	< 0.5 %	< 0.1 %
Calibrex™ 521					
2 – 20	0.1	< ± 1.5 %	< ± 0.6 %	< 0.5 %	< 0.1 %
10 – 50	1	< ± 1.5 %	< ± 0.6 %	< 0.5 %	< 0.1 %
10 – 100	1	< ± 1.5 %	< ± 0.6 %	< 0.5 %	< 0.1 %

*Fixed volume models: performance 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, QC certificate, operating instructions, 3 adapters (see right column on p.3) and feed tube 300 mm (375 mm with 521.100).

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

Dispenser and feed tube not included, to be ordered separately

Extension and replacement PTFE tubings

Description	Length	Int. Ø	Cat. No.
Extension 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, 520, 2, 5 and 10 mL	specify	5 mm	511.709
Feed tubing by the meter, uncut, 521, 20 mL	specify	7.5 mm	521.705
Feed tubing by the meter, uncut, 521, 50 and 100 mL	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	Shape	Volume mL	Neck, ext. Ø	Cat. No.	Material	Shape	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	314.2500H	Clear Pyrex glass, ○ with connection neck	○	500	32 mm	314.0500P
Amber glass, with handle	○	2500	45 mm	314.2500H			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

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

Q.M. SYSTEM
ISO 9001/13485
CERTIFIED



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