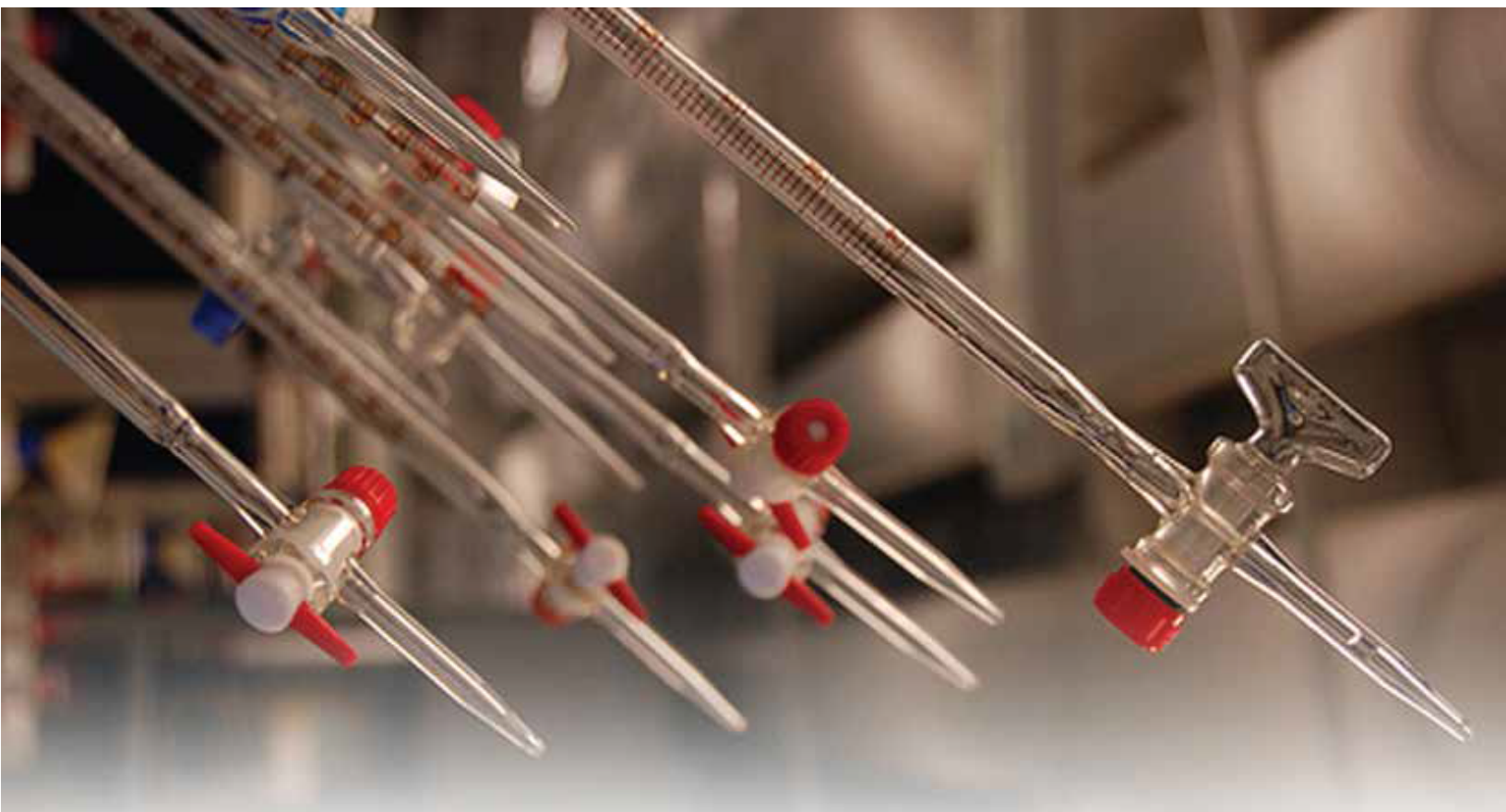


ISO-9001:2008

BURETTES CATALOG

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32 YEARS

ESTD. 1985 Serving customers worldwide

Burettes

Thermo Scientific Nalgene Durable Burettes

Individually calibrated to meet ASTM E 287 accuracy requirements

Use these clear, acrylic-body burettes with polymethylpentene tips and PTFE stopcocks over the entire pH range. Burettes are unaffected by dilute mineral acids and bases (except HF and ammonium hydroxide). The pH range of 1 to 14 is ideal and up to 5% wt/wt of acids or 30% bases can be used.

Note: Not designed for use with alcohols or organic solvents.

Catalog number	Capacity	Graduation interval	Tolerance
1443067	25 mL	0.1 mL	±0.06 mL
1794501	50 mL	0.1 mL	±0.1 mL
1443069	100 mL	0.2 mL	±0.2 mL



Pyrex® Brand 2103 Class A Burettes

Colored scale, Class A, PTFE stopcock plug

* Capacity tolerance is calibrated in accordance with ASTM E 287

The burettes are calibrated in accordance with ASTM E 542. Tips are carefully drawn from accurate bore tubing to ensure proper drainage rates. Burettes have colored markings; fine, sharp lines; and large, easy-to-read numbers. The stopcock barrel has a smooth micro-finish to ensure leak-resistant performance. Each bureette is supplied with a dust cover, and all sizes are furnished with a 2-mm bore stopcock plug.

Catalog number	Capacity	Graduation interval	Tolerance
1443053	10 mL	0.05 mL	±0.02 mL
1443054	25 mL	0.10 mL	±0.03 mL
1443055	50 mL	0.10 mL	±0.05 mL
1443056	100 mL	0.20 mL	±0.10 mL



Class B Burettes

Meet your basic measuring and dispensing requirements

Manufactured from high-quality borosilicate glass, these Class B burettes are designed for accuracy and durability. Tips have been carefully drawn for reliable drainage rate. Burettes feature noncontaminating, 2-mm straight bore, PTFE stopcock and white-colored permanent graduations.

Catalog number	Capacity	Graduation interval	Tolerance
2323316	50 mL	0.10 mL	±0.10 mL



Burettes

Kimax® Serialized and Certified Class A Burettes

Includes a Certificate of Graduation Accuracy

Designed from ASTM E287-Class A requirements, this self-zeroing burette is permanently marked with an individual serial number. Filling is completed thru the PTFE stopcock and accepts 1/4" inch ID flexible tubing for filling tube and overflow tube. Graduations are in black enamel.

Catalog number	Capacity	Graduation interval	Subdivisions	Tolerance
1443077	10 mL	0.5 to 10 mL	0.05 mL	±0.02 mL
1443078	25 mL	1.0 to 25 mL	0.1 mL	±0.03 mL
1443079	50 mL	1.5 to 50 mL	0.1 mL	±0.05 mL
1443080	100 mL	3.0 to 100 mL	0.2 mL	±0.1 mL



Automatic Self-Zeroing, Self-Supporting Burettes

Prevent contamination of media from outside elements

* Feature easy-to-read blue graduations

Flexible vinyl fill tube connects burette top with vinyl bottle stopper and extends into bottle. Operate the unique push-button stopcock using thumb pressure for drop-by-drop delivery. Small screw clamp lets you preset drop speed for repeat titration. Include LDPE bottle, base, and tube; vinyl stopper; glass burette; and PP stopcock.

Catalog number	Capacity	Graduation interval	Tolerance
1341449	10 mL	0.05 mL	500 mL
1804245	15 mL	0.1 mL	500 mL
1341451	25 mL	0.1 mL	1000 mL
1341452	50 mL	0.1 mL	1000 mL



Thermo Scientific Nalgene Automatic Self-Zeroing Burettes

No lubrication needed for PTFE plug

Break-resistant burettes have clear acrylic body, PTFE stopcock and PMP tip. Burettes are individually calibrated to meet requirements for ASTM E 287. Unaffected by most dilute acids and bases (except HF and ammonium hydroxide). Use over full pH range.

Not designed for use with alcohols or organic solvents. Include a cover, a squeeze bottle with closure, and 3 ft (1 m) of vinyl tubing.

Catalog number	Capacity	Graduation interval	Tolerance
1441758	10 mL	0.1 mL	500 mL
1441759	25 mL	0.1 mL	500 mL
1441760	50 mL	0.1 mL	1000 mL



1341966 Support stand with center rod; 30" (76 cm) L x 1/2" (1.3 cm) dia

1342461 Single burette clamp, HDPE

Burettes

Thermo Scientific Nalgene Automatic Self-Zeroing Burette Adapter Kit

Use kit to make any 25- or 50-mL burette self-zeroing. Extra closure (without tubing hole) lets you store titrants or safely move the unit. Includes 1000-mL LDPE squeeze bottle, four feet of clear flexible tubing, PP fill tube, burette adapter, and safety closure. Burette not included.

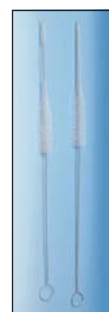
Catalog number	Description
1442619	Automatic burette adapter kit



Burette Brushes

Long, flexible handle allows you to easily clean burettes.

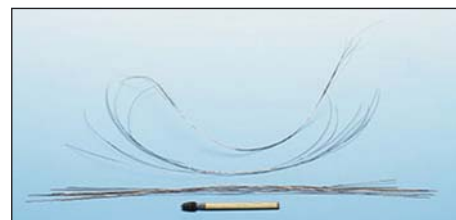
Catalog number	Handle length	Qty/pk	Brush bristles		
			Size (L x W)	Material	Color
2325451	31" (787 mm)	12	5" x 5/8" to 7/8" (127 x 15.9 x 22 mm)	Natural	Black
2294505	9" (229 mm)	12	6" x 3/8" (152 x 20 mm)	Nylon	White



Fine Wire Cleaning Kit

Use this kit to clean syringes, needles, and more. Includes ten 0.15-mm SS wires, ten 0.25-mm SS wires, ten 0.50-mm SS wires, and a pin vise to hold wire during use.

Catalog number	Description
2317268	Fine wire cleaning kit



Burette Clamps and Support Stands

Scienceware® Burette Clamps and Support Stands

HDPE clamps hold burettes without covering graduations. Clamps include 3/8" and 1/2" bushings to fit any standard support rod. Stand includes 5 1/2-lb weighted base and 30" (76.2 cm) L x 1/2" (1.3 cm) dia rod. Base and rod are PP.

Catalog number	Description
1342461	Burette clamp, single



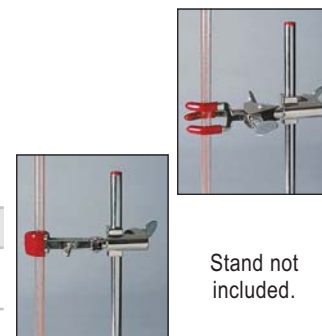
1341966 Support stand, extra rod

Burettes

Single Burette Clamps

One piece clamps hold your labware at a fixed 90° angle for precise alignment of burettes, thermometers, and reflux condensers. Clamps come standard with both slip-on vinyl and fiberglass grip sleeves. Nickel-plated zinc construction.

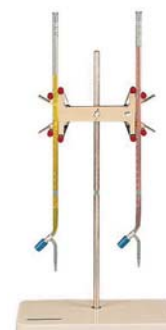
Catalog number	Jaw type	Size	Opens to dia
2343685	Two-prong	Medium	1½" (38 mm)
2275209	Three-prong	Large	2¼" (57 mm)



Research-Grade Double Burette Clamp & Stand

Hold one or two burettes from micro size to 100 mL. One-handed, scissorlike mechanism provides quick and easy adjustment. Clamp and stand are available separately or as one unit. Nickel-plated zinc construction.

Catalog number	Description
2303187	Double burette clamp
2330172	Stand
2325447	Double burette clamp and stand



Valveless Electronic Burette

Cumulative volumes up to 9999.99 µL

* Bubble-free dispensing provides superior accuracy - $\pm 0.1\%$ of rated volume. The valveless design of this burette minimizes dead volumes; prevents leaks, jams, and clogs; and simplifies cleaning. The deaerating dispensing system removes bubbles that could cause inaccuracies. The fluid pathway, made of ceramic and PTFE, can be chemically sterilized. Memory records delivered volumes and displays them on the 6-digit LCD. Additional adapters and Bottles are sold separately.

Includes: a PTFE discharge tube and a 250-mm PTFE long suction tube, a 33-mm female threaded burette housing, a 33- to 28-mm polypropylene (PP) adapter, a 33- to 45-mm PP adapter, and two AA alkaline batteries.



Specifications

Cumulative volume: up to 9999.99 µL in 10-µL increments

Reproducibility: $\pm 0.1\%$ of volume

Power: two AA alkaline batteries

Wetted materials: PTFE, and Al_2O_3 ceramic

Fitting: fits 33-mm bottle thread

Catalog number	Capacity	Accuracy
2053380	9.9 mL	$\pm 0.2\%$

1149426 Replacement batteries, AA. Pack of 4

Burettes

Digitrate® Electronic Burettes

Glass barrel lets you visually inspect reagent

- * Features anti-drip valve that can be turned off and on by user

Digital readout displays meniscusfree total volume readings. To move from one titration to the next, simply note your final reading, then press the ZERO switch to continue to the next titration. Low gearing enables dispensing in single increments of 0.01-mL with accuracy better than $\pm 0.2\%$. The readout is not affected during refilling - dispense up to 99.99 mL without interruption Comes with a lifetime battery that powers more than 60,000 titrations.

Includes: a dispense nozzle protection sleeve; lithium battery; threaded adapters for 33-, 38-, and 45-mm bottle necks; and a calibration test report.



Specifications

ISO 9001:2000
CERTIFIED SUPPLIER



Cumulative volume: up to 99.99 mL in 0.01-mL increments

Wetted materials: PTFE, and borosilicate glass

Reproducibility: $\pm 0.01\%$ of volume

Power: lifetime lithium battery with auto shut-off

Fitting: fits 30-mm bottle; also fits 33-, 38-, and 45-mm bottle necks using adapters (included)

Catalog number	Capacity	Accuracy
1442267	30 mL	$\pm 0.2\%$
1442238	50 mL	

Brand Digital Buret™ III Electronic Burettes

Easily calibrate to comply with GLP and ISO regulations

- * SafetyPrime™ valve allows priming without wasting titrant
- * Mounts directly on bottle to reduce liquid transfer

Eliminate meniscus-reading errors with this electronic burette. View dispensed results on the LCD readout, with a resolution of 0.01 mL. The digital display easily resets to zero. Valve block rotates 360° so you can always view bottle label. Suitable for aqueous or nonaqueous solutions up to 2N.

Includes: 33-mm, 38-mm, and STJ 29/32 polypropylene (PP) bottle adapters; fine-tip titrating tube, a 195- to 350-mm telescoping filling tube, lithium battery, and a performance certificate.



Specifications

ISO 9001:2000
CERTIFIED SUPPLIER



Cumulative volume: up to 99.99 mL in 0.01-mL increments

Fitting: fits 45-mm bottle thread

Reproducibility: $\pm 0.1\%$

Power: lithium battery (included) powers more than 60,000 titrations

Wetted materials: borosilicate glass, PP, PTFE, ETFE, FEP, PFA, platinum- iridium, and ceramic

Catalog number	Capacity	Accuracy
2288915	25 mL	$\pm 0.2\%$ ($\pm 50 \mu\text{L}$)
2305626	50 mL	$\pm 0.2\%$ ($\pm 100 \mu\text{L}$)

Burettes

Hirschmann® Solarus® Electronic Burettes

Operates on solar power—no more charging or changing batteries

- * High accuracy
- * Rotates 360°
- * RS-232 interface
- * Mounts directly on bottle to reduce liquid transfer

These digital burettes are designed for titrating in water treatment plants, material testing facilities, and analytical laboratories. Integral solar panels eliminate the need for charging or changing batteries and allow for enhanced portability even in limited-lighting conditions. Easy-to-use recirculating system quickly primes the burette, reducing loss of valuable reagents. Features include a large LCD, user-friendly keypad, Quick-Cal individual calibration, and indicator arrows to provide filling and titration direction. The hand wheels are equipped with a soft-touch surface and smooth operating gear ensuring precise delivery of your solution. The RS-232 interface allows you to download data to your computer; order interface cable separately. Valves are easily dismantled and exchangeable with provided wrench. Autoclavable to 250°F (121°C).

Note: Not for use with hydrofluoric acid.

Includes: recirculating tube, suction tube, thread adapters, and individual test certificate.

Specifications



Cumulative volume: 99.99 mL in 10- μ L increments

Reproducibility: $\leq 0.2\%$ of volume

Power: solar panels

Wetted materials: inert ECTFE and FEP; PTFE compound piston; calibrated Duran® (borosilicate 3.3) cylinder; borosilicate glass valve ball and seat; Hastelloy® valve springs

Fitting: A45, A32, A38, and S40



Catalog number	Capacity	Accuracy
1903571	50 mL	± 0.20 mL

Hirschmann® akku-drive® Electronic Burettes

Provides simple, quick, and precise titrating

- * More precise than manual burettes
- * Provides drops as small as 10 μ L
- * Control with button, foot pedal, or mouse

Increase your accuracy and reproduce your results consistently with the akku-drive titration system. The system is comprised of a burette/titration controller and a motorized bottle-top unit. System is more precise than manual devices and can be integrated into automated processes.

Burette/titration controller provides easy Quick-Cal calibration and separate speed selections for intake and titrating. Functions include three-stage adjustable speed control and a motorized rinsing action to purge air out of the system. Use the optional akku-drive titrating mouse for additional functionality and convenience. Controller can display dialog in one of four user-selected languages: English, German, French, or Spanish.

The motorized bottle-top units feature a quick priming recirculating system and bi-directional interface for PC connection - choose either a 20- or 50-mL capacity. The units are supplied with rechargeable batteries with sufficient capacity for processing approximately 30 L of reagent; battery status is indicated on the controller display. Case is made of polyamide (nylon) 6, and all parts in touch with fluids are chemically resistant and can be autoclaved.



Burettes

at 250°F (121°C). These units also feature a PTFE sealing-lip system that protects the electronics against aggressive media, a suction tube that is attached with a retainer ring, a vent with Luer-Lok® connection for the reagent bottle, a stable discharge tube with cap, and 360° rotation of the entire system so that labels or lettering on the bottle always face the user. All parts can be easily disassembled.

Note: Not for use with hydrofluoric acid.

Specifications



Cumulative volume: 99.99 mL in 10-μL increments

Reproducibility: ≤0.2% of volume

Fitting: A45, A32, A38, and S40

Wetted materials: (bottletop motorized units): rechargeable batteries; charger; 15 V, 850 mA power adapter

Accuracy: ±0.2%

Catalog number	Description	Capacity	Voltage
1903573	Burette/titration controller	—	—

Digitrate Pro® Digital Burettes

Delivers accurate, precise, and convenient bottletop titration

* Includes calibration certificate with individual serial number

Features continuous display of volume dispensed with zero reset for multiple titrations.

Safety pedestal valve allows the fluid path to be turned off manually to prevent accidental release. Accuracy is achieved within ±0.2%, precision better than 0.1%, resolution 0.01 mL.

Head can be rotated 360° for operator safety and comfort.

Unit will automatically switch off without losing previous titrated volume. Liquid-path parts can be disassembled for sterilization or autoclaving at 121°C. Unit is powered by a 3.6 V lithium battery; allowing a minimum life of 60,000 three-minute titrations.

Includes: 33-mm, 38-mm, and 45-mm adapters.



Side-neck filler



Specifications

ISO 9001:2000
CERTIFIED SUPPLIER



Cumulative volume: up to 99.99 mL in 0.01-mL increments

Reproducibility: ±0.1%

Fitting: 30-mm neck fitting; also fits 33-, 38-, and 45-mm bottle necks using adapters (included)

Power: lithium battery (included) powers 60,000 3-minute titrations

Wetted materials: borosilicate glass, PTFE

Catalog number	Capacity mL
2253459	50

1442333 Amber bottle, 1.4 L. With side-neck filler

1442332 Amber bottle, 2.5 L. With side-neck filler

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