



# Measuring Cylinders, Class A

Hex Base, Borosilicate, Blue Graduations

## Measuring Cylinders, Class A Hex Base, Borosilicate, Blue Graduations

Our Class A Borosilicate Measuring Cylinders are designed with a double metric scale for accurate measurements, adhering to ASTM E 1272 standards.

They feature blue graduations for improved readability and are equipped with bumper guards for added protection, available in sizes ranging from 10ml to 2000ml. The cylinders boast a hexagonal base for enhanced stability and support.

These measuring cylinders are manufactured from Type I, ASTM E-438 Borosilicate Glass 3.3, making them chemical resistant and compliant with ASTM E1272 norms. Each cylinder is individually sold and calibrated to contain (TC, In) according to ISO and ASTM tolerance standards, with the calibration marks printed on them.



**Publication Date:** 26/04/2024

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### Product Features

- Class A Measuring Cylinders for Higher Tolerances
- To Deliver (TD) Calibration for Accurate Volume Dispensing
- Chemical Resistance for Preventing Corrosion
- Bumper Guard for 10ml to 2000ml Cylinders
- Blue Graduations for Improved Readability
- Batch Certificate for LOT Traceability
- Double Metric Scale for Accuracy
- Hexagonal Base for Stability

### Product Specifications

Type	Measuring Cylinders, Class A
Material	Type I, ASTM E-438, Borosilicate Glass 3.3 Expansion
Graduation Type	Yes, Double Metric. Blue graduations for improved readability.
Spout	Yes
Bumper Guard	Yes, for the 10ml to 2000ml measuring cylinders.
Base Type	Hexagonal
Chemical Resistant	Yes



## General Information

Batch Certificate	Yes
Calibration Type	To Deliver (TD)
Standards Conformity	CE Certified ISO 17025:2017 ISO 9001:2015 ISO 4788 ASTM E-1272

## Product Information

Code	Capacity	Sub Division	Tolerance	Internal Diameter*	Height	Pack Qty	Carton Qty
664-704	5ml	0.1ml	± 0.05ml	11.2mm	113 ± 2mm	1	2
664-705	10ml	0.1ml	± 0.10ml	15.2mm	137 ± 3mm	1	2
664-706	25ml	0.2ml	± 0.17ml	19.0mm	167 ± 3mm	1	2
664-707	50ml	1.0ml	± 0.25ml	23.0mm	195 ± 3mm	1	2
664-708	100ml	1.0ml	± 0.50ml	29.6mm	257 ± 3mm	1	2
664-709	250ml	2.0ml	± 1.00ml	42.4mm	330 ± 3mm	1	2
664-710	500ml	5.0ml	± 2.00ml	50.8mm	385 ± 3mm	1	2
664-711	1000ml	10.0ml	± 3.00ml	63.0mm	460 ± 4mm	1	1
664-712	2000ml	20.0ml	± 6.00ml	82.1mm	565 ± 4mm	1	1

\* The listed internal dimensions are the maximum data points.

## Questions & Answers

### What is a Class A measuring cylinder?

A Class A measuring cylinder is a type of laboratory glassware designed for accurately measuring and dispensing liquids. It is manufactured to meet specific tolerances for accuracy and precision.

### What does To Deliver (TD) calibration mean?

To Deliver (TD) calibration for glassware ensures that the specified volume will be delivered accurately when the glassware is filled to the brim at a specific temperature. This calibration accounts for the space occupied by the meniscus and any liquid adhering to the walls after pouring.

### How do you calibrate a Class A measuring cylinder?

Class A measuring cylinders are calibrated by filling them with a known volume of liquid and then measuring the volume accurately using a calibrated reference device, such as a pipette or a volumetric flask.

### What is the difference between Class A and Class B measuring cylinders?

Class A measuring cylinders have a higher level of accuracy and precision compared to Class B cylinders. Class A cylinders typically have tighter tolerances for volume measurements.

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### How should a Class A measuring cylinder be cleaned and maintained?

Class A measuring cylinders should be cleaned with a mild detergent and rinsed thoroughly with distilled water before and after each use. They should be stored upright to prevent damage to the calibration markings.

### Can Class A measuring cylinders be used for measuring both liquids and solids?

Class A measuring cylinders are primarily designed for measuring liquids. However, they can be used for measuring some solid materials that can be easily poured or dispensed into the cylinder without damaging the glassware or affecting the accuracy of the measurement.

### Why is Borosilicate 3.3 Glass important?

Borosilicate 3.3 Glass is crucial for glassware due to its exceptional resistance to thermal shock, making it perfect for rapid temperature changes. Its high chemical resistance ensures compatibility with various lab chemicals. Also, its durability and optical clarity make it ideal for long-term use and easy visual inspection of contents.

## Ordering Information

AUS & NZ	Description
664-704	Measuring Cylinder, Class A, Hex Base, Borosilicate, 5ml
664-705	Measuring Cylinder, Class A, Hex Base, Borosilicate, 10ml
664-706	Measuring Cylinder, Class A, Hex Base, Borosilicate, 25ml
664-707	Measuring Cylinder, Class A, Hex Base, Borosilicate, 50ml
664-708	Measuring Cylinder, Class A, Hex Base, Borosilicate, 100ml
664-709	Measuring Cylinder, Class A, Hex Base, Borosilicate, 250ml
664-710	Measuring Cylinder, Class A, Hex Base, Borosilicate, 500ml
664-711	Measuring Cylinder, Class A, Hex Base, Borosilicate, 1000ml
664-712	Measuring Cylinder, Class A, Hex Base, Borosilicate, 2000ml



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