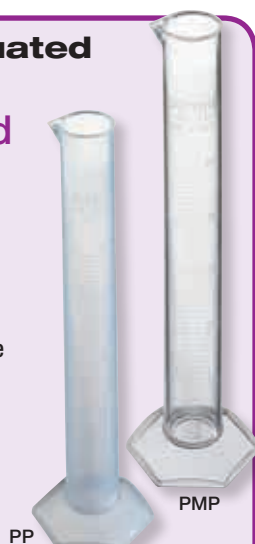


Cylinders

Cole-Parmer® Graduated Cylinders, PP and PMP

Built to last—molded graduations won't wear off

- For very good chemical resistance, choose polypropylene (PP) version
- Choose transparent polymethylpentene (PMP) for good chemical and heat resistance
- Meet ISO Standard 6706 and calibrated “to contain”
- Autoclavable



Cole-Parmer®

Capacity (mL)	Graduations (mL)	Polypropylene (PP) cylinders		Polymethylpentene (PMP) cylinders	
		Cat. no.	Price/pk of 1	Cat. no.	Price/pk of 1
10	0.2	GY-06137-70		GY-06137-50	
25	0.5	GY-06137-72		GY-06137-52	
50	1.0	GY-06137-74		GY-06137-54	
100	1.0	GY-06137-76		GY-06137-56	
250	2.0	GY-06137-78		GY-06137-58	
500	5.0	GY-06137-80		GY-06137-60	
1000	10.0	GY-06137-82		GY-06137-62	
2000	20.0	GY-06137-84		GY-06137-64	

Calibrated Graduated Cylinders, PP and PMP

No more guessing—easy-to-read molded graduations

- Get more accurate measurements—calibrated “to contain” and “to deliver”
- Feel confident—meet ASTM Class B, E 1272 specifications and ISO Standard 6706
- Plastic is nonwetting and no meniscus
- Autoclavable



Capacity (mL)	Graduations (mL)	Tolerance (mL)	Polypropylene (PP) cylinders		Polymethylpentene (PMP) cylinders	
			Catalog number	Price/pk of 1	Catalog number	Price/pk of 1
10	0.2	±0.20	GY-06135-10		GY-06134-10	
50	1.0	±0.50	GY-06135-30		GY-06134-30	
100	1.0	±1.00	GY-06135-40		GY-06134-40	
500	5.0	±4.00	GY-06135-60		GY-06134-60	
1000	10.0	±6.00	GY-06135-70		GY-06134-70	
4000	50.0	±29.00	GY-06135-90		GY-06134-90	

Graduated Cylinders, PP and PMP

Get precise measurements—raised graduations, easy reading

- Nonwetting design calibrated TC/TD at 20°C
- Won't tip over—large, ribbed base for more stability
- For good chemical resistance, choose polypropylene (PP) version
- For good chemical and heat resistance, choose polymethylpentene (PMP) version
- Autoclavable



Capacity (mL)	Graduations (mL)	Tolerance (mL)	Catalog number	Qty/pk	Price/pk
Polypropylene (PP) cylinders					
10	0.2	±0.10	GY-06135-12	1	
50	1.0	±0.40	GY-06135-32	1	
100	1.0	±0.60	GY-06135-42	1	
500	5.0	±2.6	GY-06135-62	1	
1000	10.0	±5.0	GY-06135-72	1	
Polymethylpentene (PMP) cylinders					
25	0.5	±0.30	GY-06134-25	1	
50	1.0	±0.40	GY-06134-35	1	
100	1.0	±0.60	GY-06134-45	1	
250	2.0	±1.4	GY-06134-55	1	
500	5.0	±2.6	GY-06134-65	1	
1000	10.0	±5.0	GY-06134-75	1	

Cole-Parmer® Graduated Cylinders, PP

Don't guess at volume

- Read with ease—excellent transparency and raised graduations
- Durable, one-piece construction
- Maintain cleanliness—autoclavable

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Capacity (mL)	Graduations (mL)	Catalog number	Qty/pk	Price/pk
10	0.2	GY-06134-61	2	
		GY-06134-62	24	
25	0.5	GY-06134-63	2	
		GY-06134-64	12	
50	1.0	GY-06134-67	2	
		GY-06134-66	12	
100	1.0	GY-06134-69	2	
		GY-06134-68	12	
250	2.0	GY-06134-71	1	
		GY-06134-72	6	
500	5.0	GY-06134-73	1	
		GY-06134-74	4	
1000	10.0	GY-06134-77	1	
		GY-06134-76	3	
2000	20.0	GY-06134-79	1	
		GY-06137-78	2	
Starter set contains one each of 10 mL, 25 mL, 50 mL, 100 mL, 250 mL, 500 mL, and 1000 mL		GY-63100-24	7	

Squat-Form Graduated Cylinders, PP

Won't tip over as easily

- Get better stability with larger base
- Won't break—translucent PP design with blue graduations
- Eliminate contamination and spill rewetting with self-draining base design
- Autoclavable



Teky's Tips



“To Contain” vs “To Deliver”

T.C. or “to contain” calibration marks indicate the volume held in the container at each mark.

T.D. or “to deliver” calibration marks indicate the amount of air-free distilled water at 20°C that is delivered when it is poured out.

Capacity (mL)	Graduations (mL)	Tolerance (mL)	Catalog number	Qty/pk	Price/pk
100	2.0	±2.0	GY-06137-30	5	
250	5.0	±5.0	GY-06137-32	1	
500	10.0	±10.0	GY-06137-34	1	
1000	20.0	±20.0	GY-06137-36	1	

Series 3022 and 3024 Graduated Glass Cylinders

Easy-to read metric scale ensures accuracy

- The 10-mL cylinders have a funnel top
- Bumper guards are supplied with 25-mL through 4000-mL cylinders
- 100-mL size 3022 cylinder is made in accordance with ASTM E-133 and E-1272
- Autoclavable

Capacity (mL)	Graduations (mL)	Tolerance (mL)	Catalog number	Qty/ pk	Price/ cs	Catalog number	Qty/ cs	Price/ cs
Brand 3022 cylinders calibrated “to contain”								
10	0.1	±0.2	GY-34593-01	1		GY-34593-21	24	
25	0.2	±0.3	GY-34593-02			GY-34593-22	18	
50	1.0	±0.5	GY-34593-03			GY-34593-23	18	
100	1.0	±1.0	GY-34593-04			GY-34593-24	12	
250	2.0	±2.0	GY-34593-05	1		GY-34593-25	12	
500	5.0	±4.0	GY-34593-06	1		GY-34593-26	8	
1000	10.0	±6.0	—	—		GY-34593-27	1	
2000	20.0	±12.0	—	—		GY-34593-28	1	
Brand 3024 cylinders calibrated “to deliver”								
5	0.1	±0.1	GY-34504-01	1		GY-34504-21	12	
10	0.1	±0.2	GY-34504-02			GY-34504-22	24	
25	0.2	±0.3	GY-34504-03			GY-34504-23	18	
50	1.0	±0.5	GY-34504-04			GY-34504-24	18	
100	1.0	±1.0	GY-34504-05	1		GY-34504-25	12	
250	2.0	±2.0	GY-34504-06	1		GY-34504-26	12	
500	5.0	±4.0	GY-34504-07	1		GY-34504-27	8	
1000	10.0	±6.0	—	—		GY-34504-28	1	
2000	20.0	±12.0	—	—		GY-34504-29	1	
4000	50.0	±29.0	—	—		GY-34504-30	1	



Wait!

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Technical Resources to help you choose

Cylinders

Cole-Parmer® Serialized Class A Graduated Glass Cylinders

Feel more confident about your aliquots—meet ISO 9000 requirements

- Easy-to-read single white metric scale
- Autoclavable

Choose cylinders with a report of traceability to NIST standards or with a report of calibration and traceability. Models with report of calibration and traceability feature fused-in serial numbers. All cylinders support ISO 9000 requirements and are calibrated in accordance with ASTM E 542. Cylinders meet ASTM E 694 specifications and accuracy requirements of ASTM 1272. Cylinder glass meets ASTM E 438.

Capacity (mL)	Graduations (mL)	Tolerance (mL)	With report of traceability			With reports of calibration and traceability		
			Cat. no.	Qty/pk	Price/pk	Cat. no.	Qty/pk	Price/pk
Cylinders calibrated "To Contain"								
10	0.1	±0.10	GY-34300-17	1		—	1	—
25	0.2	±0.17	GY-34300-19			GY-34300-20		
50	1	±0.25	GY-34300-21			GY-34300-22		
100	1	±0.40	GY-34300-23			GY-34300-24		
250	2	±0.80	GY-34300-25	1		GY-34300-26	1	
500	5	±1.30	GY-34300-27			GY-34300-28		
1000	10	±3.0	GY-34300-29			GY-34300-30		
2000	20	±5.0	GY-34300-31			GY-34300-32		
Cylinders calibrated "To Deliver"								
10	0.1	±0.10	GY-34300-01	1		—	1	—
25	0.2	±0.17	GY-34300-03			GY-34300-04		
50	1	±0.25	GY-34300-05			GY-34300-06		
100	1	±0.40	GY-34300-07			GY-34300-08		
250	2	±0.80	GY-34300-09	1		GY-34300-10	1	
500	5	±1.3	GY-34300-11			GY-34300-12		
1000	10	±3.0	GY-34300-15			GY-34300-16		
2000	20	±5.0	GY-34300-13			GY-34300-14		

Cole-Parmer®



34300-27 calibrated "To Contain"



34300-15 calibrated "To Deliver"

Cole-Parmer® Class B Graduated Glass Cylinders

Accurate measurements even at lowest graduations

- Easy-to-read white ceramic scales calibrated "to contain"
- Sturdy base to minimize tipping
- Autoclavable

These cylinders are used in ASTM tests D 86 and D447. Models 34200-04 and -05 meet ASTM E 133 requirements.

Cole-Parmer®



Cole-Parmer® Amber-Scale Graduated Glass Cylinder

Easy to read volume

- Dark amber graduations make reading light sample volume easy
- Calibrated "to deliver" for accurate volume dispensing
- Meet ASTM E 1272, Style 1, Class B requirements
- Easy-pour spout

Cole-Parmer®



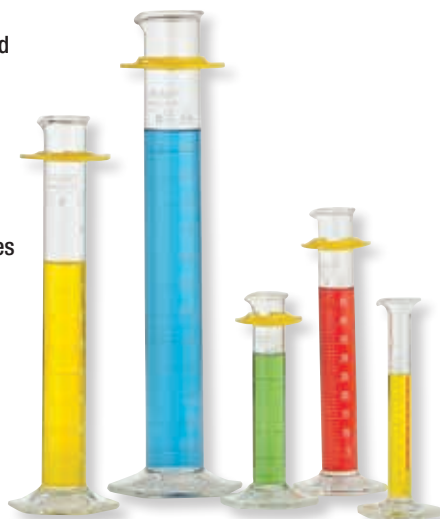
Capacity (mL)	Graduations (mL)	Tolerance (mL)	Catalog number	Qty/pk	Price/pk
10	0.2	±0.1	GY-34200-01	2	
25	0.5	±0.3	GY-34200-02	1	
50	1	±0.4	GY-34200-03	1	
100	1	±1.0	GY-34200-04	1	
250	2	±1.4	GY-34200-05	1	
500	5	±2.6	GY-34200-06	1	
1000	10	±5.0	GY-34200-07	1	
2000	20	±10	GY-34200-08	1	

Capacity (mL)	Graduations (mL)	Tolerance (mL)	Catalog number	Qty/pk	Price/pk
5	0.1	±0.1	GY-34400-01	1	
10	0.2	±0.1	GY-34400-02		
25	0.5	±0.3	GY-34400-03		
50	1	±0.4	GY-34400-04		
100	1	±1.0	GY-34400-05		
250	2	±1.4	GY-34400-06	1	
500	5	±2.6	GY-34400-07		
1000	10	±5.0	GY-34400-08		
2000	20	±10.0	GY-34400-09		

Graduated Glass Cylinder Set

No need to order separate cylinders

- Get everything you need in one part number
- Get accurate measurements with calibration “to deliver”
- Contain one each of 10mL, 25mL, 50mL, 100mL, and 250mL sizes
- Guards included for 25 to 250mL cylinders



Description	Catalog number	Qty/pk	Price/pk
Graduated cylinder starter pack	GY-34547-20	5	

Cole-Parmer® Low-Form Graduated Glass Cylinders

Prevent accidental tipping

- Low profile design and wide base provide better stability
- Dual graduations for reading what's going in or out
- Calibrated “to deliver” for better accuracy and delivery
- Get better pouring with two spouts



Cole-Parmer®

Capacity (mL)	Graduations (mL)	Tolerance (mL)	Catalog number	Qty/pk	Price/pk
50	1	±1.5	GY-34300-35	1	
100	2	±1.0	GY-34300-36		

Labware Value Pack

Everything you need to start your lab

- Won't break or shatter like glass
- Compatible with a wide range of chemicals
- Beakers meet ISO/DIN 7056 International Standards for Laboratory Plasticware Accuracy
- Graduated cylinders meet CFR 21, Part 177.1520, ASTM E 1272 Class B accuracy requirements and ISO Standard 6706
- Autoclavable (except unitary bottles); jar closure needs to be autoclaved separately

NEW



Contents	Material	Qty
Griffin low-form beakers: 50, 100, 250, 600, and 1000 mL	PPCO	5 (1 of ea size)
Graduated cylinders: 100 mL, 500 mL, and 1 L	PPCO	4 (2 x 100 mL, 1 x 500 mL, 1 x 1 L)
Unitary wash bottles: 500 mL	LDPE†	4
Straight-sided jars: 500 mL	PPCO	6
Unwire™ blue half-rack for 30-mm tubes	RMT	1

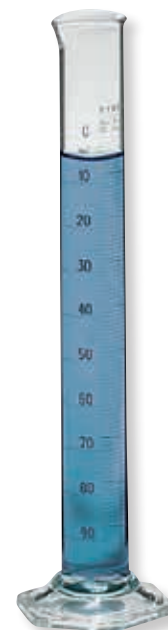
† LDPE wash bottles are not autoclavable.

Description	Catalog number	Price/pk
Labware value pack	GY-34500-90	

Graduated Glass Cylinders

No more calculating allocations

- Measure how much you pour in and out directly with double metric scale
- Calibrate “to contain”
- Autoclavable



Capacity (mL)	Graduations (mL)	Catalog number	Price/pk of 1	Catalog number	Qty/cs	Price/cs
10	0.1	GY-34546-01		GY-34546-21	24	
25	0.2	GY-34546-02		GY-34546-22	18	
50	1.0	GY-34546-03		GY-34546-23	18	
100	1.0	GY-34546-04		GY-34546-24	12	
250	2.0	GY-34546-05		GY-34546-25	12	
500	5.0	GY-34546-06		GY-34546-26	8	
1000	10.0	—	—	GY-34546-27	1	
2000	20.0	—	—	GY-34546-28	1	

Cylinders

Cole-Parmer® Class A Graduated Glass Cylinders

Don't sacrifice accuracy for price

- Calibrated “to contain” for accuracy—meet ASTM E1272 Class A tolerances and specifications

NEW

- Durable, white enamel graduations
- Withstand temperatures up to 752°F (400°C) for short-term exposure, 445°F (230°C) for longer periods
- Autoclavable



Capacity (mL)	Graduations (mL)	Tolerance (mL)	Catalog number	Qty/ pk	Price/ cs
50	1	±0.50	GY-34505-84	1	
100	1	±0.50	GY-34505-86	1	
250	2	±1.0	GY-34505-88	1	
500	5	±2.5	GY-34505-90	1	

Class A Graduated Glass Cylinders

Stand up to the heat

- Withstand temperatures to 840°F (450°C)
- Accurate measurements guaranteed—calibrated “to deliver” with certificate of accuracy
- Meet ASTM Specification E 1272, Class A requirements
- Autoclavable



Capacity (mL)	Graduations (mL)	Tolerance (mL)	Catalog number	Qty/ cs	Price/ cs
10	0.1	±0.09	GY-34527-30	6	
25	0.2	±0.17	GY-34527-32	6	
50	1	±0.25	GY-34527-34	6	
100	1	±0.40	GY-34527-36	6	
250	2	±0.80	GY-34527-38	4	
500	5	±1.30	GY-34527-40	4	
1000	10	±2.50	GY-34527-42	2	

Graduated Glass Cylinders

No more shattered glass

- Don't clean up glass again—PVC coating protects cylinders from shattering
- Resist thermal shock and occasional bumping
- Single metric scale is calibrated “to deliver”
- Autoclavable



Protective PVC coating
protects the cylinder
from breaking



Capacity (mL)	Graduations (mL)	Tolerance (mL)	Catalog number	Price/ pk	Catalog number	Qty/ cs	Price/ cs
100	1.0	±1.0	GY-34576-01		GY-34576-21	4	
250	2.0	±2.0	GY-34576-02		GY-34576-22	4	
500	5.0	±4.0	GY-34576-03		GY-34576-23	4	
1000	10.0	±6.0	GY-34576-04		GY-34576-24	4	
2000	20.0	±12.0	GY-34576-05		GY-34576-25	2	

Class B Graduated Glass Cylinders

Economical, accurate dispensing

- Calibrated “to deliver” for accurate volume dispensing
- Meet ASTM Specification E 1272, Class B requirements
- Withstand temperatures to 840°F (450°C)
- Autoclavable



Capacity (mL)	Graduations (mL)	Tolerance (mL)	Catalog number	Qty/ cs	Price/ cs
25	0.5	±0.3	GY-34527-02	24	
100	1	±0.6	GY-34527-06	24	
250	2	±1.4	GY-34527-08	12	
500	5	±2.6	GY-34527-10	8	
1000	10	±5.0	GY-34527-12	4	
2000	20	±10.0	GY-34527-14	4	