



 Burettes

 Graduated + Bulb Pipettes

 Measuring + Mixing Cylinders

 Volumetric Flasks



volac Burettes (to BS 846 and ISO 385 dis)

volac burettes are manufactured in a range of sizes from 1 ml to 100 ml capacity.

All **volac** burettes now come in single packs. Four cane forms are available. Class A standard, Class B standard and Class A and B Schellbach, featuring bold figures and fine graduation lines in permanent amber stain for Class B and white ceramic ink for Class A.

Expanded cups are added to sizes up to 10 ml for ease of filling. Except where stated all forms are available with the following stopcocks across the whole capacity range. These four cane forms combine with six different types of stopcock. All Class A **volac** burettes have been calibrated and tested at 5 points, and each one is individually numbered.

volac Burettes, Class A, borosilicate glass.

without Certificate

- a** interchangeable glass key in glass barrel
- b** 2-wayflow, with removeable PTFE stopcock
- c** interchangeable PTFE key in glass barrel
- d** 2-way flow, with interchangeable PTFE key in glass barrel
- e*** removeable PTFE stopcock

with Works Certificate

- f** interchangeable glass key in glass barrel
- g** 2-wayflow, with removeable PTFE stopcock
- h** interchangeable PTFE key in glass barrel
- i** 2-way flow, with interchangeable PTFE key in glass barrel
- j*** removeable PTFE stopcock

Cap. : grad.	Class A accuracy/ml	Flow times	Art.-No. a	Art.-No. b	Art.-No. c	Art.-No. d	Art.-No.* e
1 ml : 0.01	± 0.01	35- 45 secs	R9803/NC/A	R9804/NC/A	R9806/NC/A	R9807/NC/A	R9809/NC/A
2 ml : 0.02	± 0.01	50- 70 secs	R9803/NC/B	R9804/NC/B	R9806/NC/B	R9807/NC/B	R9809/NC/B
5 ml : 0.02	± 0.01	75- 95 secs	R9803/NC/C	R9804/NC/C	R9806/NC/C	R9807/NC/C	R9809/NC/C
10 ml : 0.02	± 0.02	60-100 secs	R9803/NC/Y	R9804/NC/Y	R9806/NC/Y	R9807/NC/Y	R9809/NC/Y
10 ml : 0.05	± 0.02	75- 95 secs	R9803/NC/Z	R9804/NC/Z	R9806/NC/Z	R9807/NC/Z	R9809/NC/Z
25 ml : 0.05	± 0.03	70-100 secs	R9803/NC/F	R9804/NC/F	R9806/NC/F	R9807/NC/F	R9809/NC/F
25 ml : 0.1	± 0.05	45- 75 secs	R9803/NC/G	R9804/NC/G	R9806/NC/G	R9807/NC/G	R9809/NC/G
50 ml : 0.1	± 0.05	60-100 secs	R9803/NC/H	R9804/NC/H	R9806/NC/H	R9807/NC/H	R9809/NC/H
100 ml : 0.2	± 0.10	60-100 secs	R9803/NC/I	R9804/NC/I	R9806/NC/I	R9807/NC/I	R9809/NC/I

	Class A accuracy	Flow times	f	g	h	i	j*
1 ml : 0.01	± 0.01	35- 45 secs	R9803/WAC/A	R9804/WAC/A	R9806/WAC/A	R9807/WAC/A	R9809/WAC/A
2 ml : 0.02	± 0.01	50- 70 secs	R9803/WAC/B	R9804/WAC/B	R9806/WAC/B	R9807/WAC/B	R9809/WAC/B
5 ml : 0.02	± 0.01	75- 95 secs	R9803/WAC/C	R9804/WAC/C	R9806/WAC/C	R9807/WAC/C	R9809/WAC/C
10 ml : 0.02	± 0.02	60-100 secs	R9803/WAC/Y	R9804/WAC/Y	R9806/WAC/Y	R9807/WAC/Y	R9809/WAC/Y
10 ml : 0.05	± 0.02	75- 95 secs	R9803/WAC/Z	R9804/WAC/Z	R9806/WAC/Z	R9807/WAC/Z	R9809/WAC/Z
25 ml : 0.05	± 0.03	70-100 secs	R9803/WAC/F	R9804/WAC/F	R9806/WAC/F	R9807/WAC/F	R9809/WAC/F
25 ml : 0.1	± 0.05	45- 75 secs	R9803/WAC/G	R9804/WAC/G	R9806/WAC/G	R9807/WAC/G	R9809/WAC/G
50 ml : 0.1	± 0.05	60-100 secs	R9803/WAC/H	R9804/WAC/H	R9806/WAC/H	R9807/WAC/H	R9809/WAC/H
100 ml : 0.2	± 0.10	60-100 secs	R9803/WAC/I	R9804/WAC/I	R9806/WAC/I	R9807/WAC/I	R9809/WAC/I

volac Class A burettes satisfy the requirements of US Pharmacopolea/ASTM.

* Jets are also inscribed with the number of the burette.

volac Burettes, Class B

- k** glass key in glass barrel
- l** interchangeable glass key in glass barrel (see R9103)
- m** 2-way flow, with removeable PTFE stopcock (see R9104)
- n** interchangeable PTFE key in glass barrel (see R9106)
- o** 2-way flow, interchangeable PTFE key in glass barrel
- p** removeable PTFE stopcock (see R9109)



R9103

volac Burettes, Schellbach, straight stopcock, Class A

without Certificate

- q** removeable PTFE stopcock (class A uncertified)

with Works Certificate

- r** removeable PTFE stopcock (class A with Works Certificate)



R9104

volac Burettes, Schellbach, Class B

- s** glass key in glass barrel
- t** interchangeable glass key in glass barrel
- u** 2-way flow, with removeable PTFE stopcock
- v** interchangeable PTFE key in glass barrel
- w** 2-way flow, interchangeable PTFE key in glass barrel
- x** removeable PTFE stopcock

Cap.:grad.	Accuracy ± ml	Flow time secs	Art.-No. k	Art.-No. l	Art.-No. m	Art.-No. n	Art.-No. o	Art.-No. p
1 ml : 0.01	0.02	20-45	R9101/A	R9103/A	R9104/A	R9106/A	R9107/A	R9109/A
2 ml : 0.02	0.02	25-70	R9101/B	R9103/B	R9104/B	R9106/B	R9107/B	R9109/B
5 ml : 0.02	0.02	40-95	R9101/C	R9103/C	R9104/C	R9106/C	R9107/C	R9109/C
5 ml* : 0.05	0.05	-	R9101/D	R9103/D	R9104/D	R9106/D	R9107/D	R9109/D
10 ml : 0.02	0.05	40-95	R9101/E	R9103/E	R9104/E	R9106/E	R9107/E	R9109/E
10 ml : 0.05	0.05	45-75	R9101/Z	R9103/Z	R9104/Z	R9106/Z	R9107/Z	R9109/Z
10 ml* : 0.1	0.05	-	R9101/F	R9103/F	R9104/F	R9106/F	R9107/F	R9109/F
25 ml : 0.05	0.05	35-100	R9101/G	R9103/G	R9104/G	R9106/G	R9107/G	R9109/G
25 ml : 0.1	0.10	25-75	R9101/H	R9103/H	R9104/H	R9106/H	R9107/H	R9109/H
50 ml : 0.1	0.10	30-100	R9101/I	R9103/I	R9104/I	R9106/I	R9107/I	R9109/I
100 ml : 0.2	0.20	30-100	R9101/J	R9103/J	R9104/J	R9106/J	R9107/J	R9109/J

(* not listed in standards)

Cap.	Accuracy	Art.-No.	Art.-No.
		q	r
10 ml : 0.1	R9805/NC/A	R9805/WAC/A	
25 ml : 0.1	R9805/NC/B	R9805/WAC/B	
50 ml : 0.1	R9805/NC/C	R9805/WAC/C	
100 ml : 0.2	R9805/NC/D	R9805/WAC/D	

Cap.	Accuracy	Art.-No.	Art.-No.	Art.-No.	Art.-No.	Art.-No.	
		s	t	u	v	w	x
10 ml : 0.1	R9501/A	R9503/A	R9504/A	R9506/A	R9507/A	R9509/A	
25 ml : 0.1	R9501/B	R9503/B	R9504/B	R9506/B	R9507/B	R9509/B	
50 ml : 0.1	R9501/C	R9503/C	R9504/C	R9506/C	R9507/C	R9509/C	
100 ml : 0.2	R9501/D	R9503/D	R9504/D	R9506/D	R9507/D	R9509/D	

volac Dispensing Burettes

Capacity : grad.	Accuracy	Art.-No.
250 ml : 1.0	± 1 ml	R200/A
500 ml : 2.0	± 2 ml	R 200/B

volac Auto-Zero Burettes (Daffert)

Cap. : grad.	Accuracy	Art.-No.
25 ml : 0.1	± 0.1 ml	R201/A
50 ml : 0.1	± 0.1ml	R201/B

Class A available to special order.



R9106



R9109

- the Ultimate Precision in Laboratory Glassware



volac Graduated Pipettes (to BS 700 and ISO 835/1 and 835/2)

All **volac** graduated pipettes share the same exceptional standards of accuracy. Full ranges are available in Class A, either uncertified or with works certificate of accuracy or in Class B. All graduation marks are in permanent amber stain, colour codes are fused ceramic and all tips are carefully formed, ground and bevelled to ensure proper flow rates and 'Tufftip' treated for greater resistance to chipping and breakage. All **volac** graduated pipettes are produced from carefully selected and graded tubing on automated plant and are controlled for accuracy and quality at three stages of production. Sizes 5 ml and above are constricted for cotton plugging. All class A pipettes are individually tested at 5 places, numbered, and fully traceable. None of the pipettes listed require "waiting times".

volac Graduated Pipettes, Class B, Individually calibrated + printed, pack 5

- a** Zero at outlet, capacity at top (Type 2 - BS700 - ISO835)
- b** Zero at top, capacity at shoulder (Type 1 - BS 700 - ISO835)
- c** Zero at top, capacity at outlet, non blowout (Type 3 - BS700)
- d** Zero at top, capacity at outlet, blowout (Type 4, BS700)

volac Graduated Pipettes, Class B, amber stain graduation, pack 5

- e** Type 1 - tooled jets
- f** Type 2 - tooled jets

volac Graduated Pipettes, Short Form, pack 5

- g** Short form pipettes, non BS

volac Graduated Pipettes, Class A, individually numbered + tested, but without certificate, BS700 - ISO835, pack 5

- h** Zero at outlet, capacity at top (Type 2)
- i** Zero at top, capacity at shoulder (Type 1)

volac Graduated Pipettes, Class A, with individual works certificate, BS700-ISO835

- j** Zero at outlet, capacity at top (Type 2) - pack 5
- k** zero at top, capacity at shoulder (Type 1) - pack 5

Cap. : grad.	Class B Accuracy	Flow Time in secs	Art.-No. a	Art.-No. b	Art.-No. c	Art.-No. d
1 ml : 0.01	± 0.01 ml	2-10	R376/A/5	R377/A/5	R400/A/5	R402/A/5
2 ml : 0.02	± 0.02 ml	2-12	R376/B/5	R377/B/5	R400/B/5	R402/B/5
5 ml : 0.05	± 0.05 ml	5-14	R376/C/5	R377/C/5	R400/C/5	R402/C/5
10 ml : 0.1	± 0.10 ml	5-17	R376/D/5	R377/D/5	R400/D/5	R402/D/5
25 ml : 0.2	± 0.20 ml	9-21	R376/E/5	R377/E/5	R400/E/5	R402/E/5


Class B Accuracy	e	f
1 ml : 0.01 ± 0.01 ml	RT379/A/5	RT381/A/5
2 ml : 0.02 ± 0.02 ml	RT379/B/5	RT381/B/5
5 ml : 0.05 ± 0.05 ml	RT379/C/5	RT381/C/5
10 ml : 0.1 ± 0.10 ml	RT379/D/5	RT381/D/5
25 ml : 0.1 ± 0.20 ml	RT379/E/5	RT381/E/5

Accuracy Limits	g
1 ml : 0,02 ± 0.02 ml	R388/D/5
2 ml : 0,05 ± 0.05 ml	R388/E/5
5 ml : 0,1 ± 0.10 ml	R388/F/5
10 ml : 0,2 ± 0.20 ml	R388/G/5
25 ml : 0,5 ± 0.50 ml	R388/H/5


Class A Accuracy	Flow Time R385/secs	Flow Time R386/secs	h	i	j	k
1 ml : 0,01 ± 0.006 ml	5-7	7-10	R385/NC/A/5	R386/NC/A/5	R385/WAC/A/5	R386/WAC/A/5
2 ml : 0,02 ± 0.01 ml	6-9	8-12	R385/NC/B/5	R386/NC/B/5	R385/WAC/B/5	R386/WAC/B/5
5 ml : 0,05 ± 0.03 ml	8-11	10-14	R385/NC/C/5	R386/NC/C/5	R385/WAC/C/5	R386/WAC/C/5
10 ml : 0,1 ± 0.05 ml	10-13	13-17	R385/NC/D/5	R386/NC/D/5	R385/WAC/D/5	R386/WAC/D/5
25 ml : 0,2 ± 0.10 ml	11-16	15-21	R385/NC/E/5	R386/NC/E/5	R385/WAC/E/5	R386/WAC/E/5

For Graduated Pipettes to USP accuracies see following page.

One-Mark Bulb Pipettes (to BS 1583 and ISO 648)

One mark bulb pipettes are probably the most accurate form of volumetric glassware.  bulb pipettes are probably the most accurate of all.

Available in a range of capacities from 1 ml to 100 ml, they are manufactured from selected glass tubing by a special one piece process which eliminates the inherent weakness of joining glass of different diameters. This robust construction method is combined with ring marks and bold, easily read figures in permanent amber stain, durable colour codes and superbly formed and accurately bevelled jets. All tips are 'Tufftip' treated to resist damage or breakage in knocking. All pipettes are calibrated to deliver.

All class A bulb pipettes are individually calibrated and tested and each one is individually numbered and scribed with the flow time. All  class A bulb pipettes are fully traceable (whether supplied with works certificate or not), and individually numbered.

IMPORTANT: When ordering please specify number of packs not the number of pieces.




One Mark Bulb Pipettes, pack 5 (*2)

- m** Class B, individually calibrated and printed (BS1583 - ISO648)
- n** Class A, individually numbered, timed & tested (BS1583 - ISO648)
- o** Class A, with works certificate for each pipette (BS1583 - ISO648)

Capacity	Class B Accuracy	Flow Time in secs	Art.-No. m	Class A Accuracy	Flow Time in secs	Art.-No. n	Art.-No. o
1 ml	± 0.015	5-20	R370/A/5	± 0.008	10-20	R371/NC/A/5	R371/WAC/A/5
2 ml	± 0.02	5-25	R370/B/5	± 0.01	10-25	R371/NC/B/5	R371/WAC/B/5
3 ml ⁽¹⁾	± 0.03	5-25	R370/C/5	± 0.015	10-25	R371/NC/C/5	R371/WAC/C/5
4 ml ⁽¹⁾	± 0.03	5-25	R370/D/5	± 0.015	10-25	R371/NC/D/5	R371/WAC/D/5
5 ml	± 0.03	7-30	R370/E/5	± 0.015	15-30	R371/NC/E/5	R371/WAC/E/5
10 ml	± 0.04	8-40	R370/F/5	± 0.02	15-40	R371/NC/F/5	R371/WAC/F/5
15 ml ⁽¹⁾	± 0.05	8-40	R370/G/5	± 0.025	15-40	R371/NC/G/5	R371/WAC/G/5
20 ml	± 0.06	9-50	R370/H/5	± 0.03	25-50	R371/NC/H/5	R371/WAC/H/5
25 ml	± 0.06	10-50	R370/I/5	± 0.03	25-50	R371/NC/I/5	R371/WAC/I/5
50 ml	± 0.1	13-60	R370/J/5	± 0.05	30-60	R371/NC/J/5	R371/WAC/J/5
100 ml *	± 0.15	25-60	R370/K/2	± 0.08	40-60	R371/NC/K/2	R371/WAC/K/2

⁽¹⁾ not in BS/ISO

FIRST Class Volumetric Glassware - Class A to USP / ASTM Accuracies


The only range of volumetric glass which meets USP/ASTM accuracy requirements and which is individually tested and numbered as standard. For exporting to the USA it is necessary - additional to national German and British standards - to use volumetric glassware according to USP Standards. With  USP glassware the user is guaranteed laboratory products of the very highest quality and accuracy.

Graduated Pipettes, USP, Class A.

Each pipette is individually numbered and fully traceable satisfying USP / ISO / BS accuracies. Zero at outlet, capacity at top (type 2), pack 5.

Cap. : grad.	Tolerances USP	Tolerances ISO/BS	Art.-No.
1 ml : 0.01	± 0.006	±0.006	US385/A/5
2 ml : 0.02	± 0.01	±0.01	US385/B/5
5 ml : 0.05	± 0.02	±0.03	US385/C/5
10 ml : 0.1	± 0.03	±0.05	US385/D/5
25 ml : 0.2	± 0.05	±0.10	US385/E/5

Works Certificates of Accuracy for each piece are available at extra cost; add suffix 'WAC' to the code. See also separate leaflet on USP/ASTM glassware.

 Bulb Pipettes, USP, Class A. Each pipette is individually numbered and fully traceable satisfying USP / ISO / BS accuracies. Pack 5 (*2)

Capacity	Tolerances USP	Tolerances ISO/BS	Art.-No.
1 ml	± 0.006	± 0.008	US371/A/5
2 ml	± 0.006	± 0.01	US371/B/5
5 ml	± 0.01	± 0.015	US371/E/5
10 ml	± 0.02	± 0.02	US371/F/5
25 ml	± 0.03	± 0.03	US371/I/5
50 ml	± 0.05	± 0.05	US371/J/5
100 ml *	± 0.08	± 0.08	US371/K/2

the Ultimate Precision in Laboratory Glassware



R251 + R250



R254 + R253

volac Measuring Cylinders (to ISO 4788, BS 604, DIN 12680 part I)

Two complete ranges either borosilicate glass with hexagonal feet or soda-lime glass with round feet. Both ranges are available 'spouted' or 'stoppered', in Class B, Class A uncertified or Class A with works certificate. Stoppered borosilicate class B cylinders are also available in amber glass.

All cylinders of soda lime glass are printed in permanent amber stain which is absorbed into the glass and which can only be removed by grinding or by use of chemicals which attack glass. Borosilicate cylinders are usually printed in white ceramic glazed ink. Every spouted cylinder is formed to ensure clean, non drip pouring. Every stoppered cylinder has a tooled and ground neck fitted with a 'Polystop' polypropylene interchangeable stopper. All cylinders, Class B or Class A, are individually calibrated and individually printed to ensure the scale length exactly fits the calibration of each cylinder. All Class A cylinders are individually tested, individually numbered and fully traceable. If a Works Certificate is required this will show date of testing, test results at 5 points and the identification number of the cylinder. All Class B cylinders satisfy the requirements of International Standards ISO 4788: 1980, British Standard BS 604: 1992 (93) and DIN Standard 12680 part 2. There are only recognised standards for Class A cylinders formulated by USP + DIN (which are different). Therefore we have adapted our Class A cylinders to the DIN accuracies (see below). In addition to these ranges we also offer plain spouted cylinders for use as hydrometer trial jars and 2-way figured Class B spouted cylinders, all in soda-lime glass. Class A cylinders to USP/ASTM requirements are also available as a separate range. Squat form cylinders are also available.

volac Measuring + Mixing Cylinders, Class B, soda lime glass, round feet, pack 2 ⁽¹⁾

- a plain spouted - measuring
- b Class B, spouted - measuring
- c Class B, stoppered - mixing
- d Class B, two way figured - measuring

volac Measuring + Mixing Cylinders, Class A, soda lime glass, round feet, pack 2 ⁽¹⁾

- e Class A, spouted - measuring
- f Class A, spouted - measuring, with Works Certificate
- g Class A, stoppered - mixing
- h Class A, stoppered - mixing, with Works Certificate

Capacity	Art.-No.
	a
100 ml	R249/A/2
250 ml	R249/B/2
500 ml	R249/C/2
1000 ml	R249/D/2
2000 ml	R249/E/S*

⁽²⁾not listed in ISO, BS or DIN
⁽³⁾borosilicate

Cap. : grad.	Class B accuracy	Art.-No. b	Art.-No. c	Art.-No. d
5 ml : 0.1	± 0.1 ml	R250/A/2	R251/A/2	R252/A/2
10 ml : 0.1	± 0.2 ml	R250/B/2 ⁽¹⁾	R251/B/2 ⁽¹⁾	R252/B/2
10 ml : 0.2	± 0.2 ml	R250/C/2	R251/C/2	-
25 ml : 0.5	± 0.5 ml	R250/D/2	R251/D/2	R252/C/2
50 ml : 1.0	± 1.0 ml	R250/E/2	R251/E/2	R252/D/2
100 ml : 1.0	± 1.0 ml	R250/F/2	R251/F/2	R252/E/2
250 ml : 2.0	± 2.0 ml	R250/G/2	R251/G/2	R252/F/2
500 ml : 5.0	± 5.0 ml	R250/H/2	R251/H/2	R252/G/2
1000 ml : 10.0	± 10 ml	R250/I/2	R251/I/2	R252/H/2
2000 ml : 20.0 ⁽²⁾	± 20 ml	R250/J/S	R251/J/S	-

Cap. : grad.	Class A Accuracy	Stopper Size	Art.-No. e	Art.-No. f	Art.-No. g	Art.-No. h
5 ml : 0.1	± 0.05	10/13	R253/NC/A/2	R253/WAC/A/2	R254/NC/A/2	R254/WAC/A/2
10 ml : 0.2	± 0.1	10/13	R253/NC/B/2	R253/WAC/B/2	R254/NC/B/2	R254/WAC/B/2
25 ml : 0.5	± 0.25	14/15	R253/NC/C/2	R253/WAC/C/2	R254/NC/C/2	R254/WAC/C/2
50 ml : 1.0	± 0.5	19/17	R253/NC/D/2	R253/WAC/D/2	R254/NC/D/2	R254/WAC/D/2
100 ml : 1.0	± 0.5	24/20	R253/NC/E/2	R253/WAC/E/2	R254/NC/E/2	R254/WAC/E/2
250 ml : 2.0	± 1.0	29/32	R253/NC/F/2	R253/WAC/F/2	R254/NC/F/2	R254/WAC/F/2
500 ml : 5.0	± 2.5	34/35	R253/NC/G/2	R253/WAC/G/2	R254/NC/G/2	R254/WAC/G/2
1000 ml : 10.0	± 5.0	45/40	R253/NC/H/2	R253/WAC/H/2	R254/NC/H/2	R254/WAC/H/2
2000 ml : 20.0 ⁽²⁾⁽³⁾	± 10.0	45/40	R253/NC/I/S	R253/WAC/I/S	R254/NC/I/S	R254/WAC/I/S

volac Measuring + Mixing cylinders, **Class B**, borosilicate glass, hexagonal feet, pack 2 (* 1)

- i** Class B, spouted (measuring), ISO4788 - BS 604 - DIN 12680
- j** Class B, stoppered, (mixing) ISO4788 - BS 604 - DIN 12685
- k** Class B, stoppered (mixing), amber glass

volac Measuring + Mixing Cylinders, **Class A**, borosilicate glass, hexagonal feet, pack 2 (* 1)

- l** Class A, spouted (measuring)
- m** Class A, spouted (measuring) with Works Certificate
- n** Class A, stoppered (mixing)
- o** Class A, stoppered (mixing) with Works Certificate
- p** Borosilicate 'squat form' measuring cylinders

Spare Parts

- q** Polystop® Interchangeable Stoppers, pack 20



R260 + R261



R263 + R264



L189

Cap. : grad.	Class B Accuracy	Art.-No. l	Art.-No. j	Art.-No. k
5 ml : 0.1	± 0.1 ml	R260/A/2	R261/A/2	-
10 ml : 0.2	± 0.2 ml	R260/B/2	R261/B/2	R261/AM/C/2
25 ml : 0.5	± 0.5 ml	R260/D/2	R261/D/2	R261/AM/D/2
50 ml : 1.0	± 1.0 ml	R260/E/2	R261/E/2	R261/AM/E/2
100 ml : 1.0	± 1.0 ml	R260/F/2	R261/F/2	R261/AM/F/2
250 ml : 2.0	± 2.0 ml	R260/G/2	R261/G/2	R261/AM/G/2
500 ml : 5.0	± 5.0 ml	R260/H/2	R261/H/2	R261/AM/H/2
1000 ml : 10.0	± 10 ml	R260/I/2	R261/I/2	R261/AM/I/2
2000 ml : 20.0*	± 20 ml	R260/J/S	R261/J/S	R261/AM/J/S

Cap. : grad.	Class A Accuracy ± ml	Stopper Size	Art.-No. l	Art.-No. m	Art.-No. n	Art.-No. o
5 ml : 0.1	0.05	10/13	R263/NC/A/2	R263/WAC/A/2	-	-
10 ml : 0.2	0.1	10/13	R263/NC/B/2	R263/WAC/B/2	R264/NC/B/2	R264/WAC/B/2
25 ml : 0.5	0.25	14/15	R263/NC/C/2	R263/WAC/C/2	R264/NC/C/2	R264/WAC/C/2
50 ml : 1.0	0.5	19/17	R263/NC/D/2	R263/WAC/D/2	R264/NC/D/2	R264/WAC/D/2
100 ml : 1.0	0.5	24/20	R263/NC/E/2	R263/WAC/E/2	R264/NC/E/2	R264/WAC/E/2
250 ml : 2.0	1.0	29/32	R263/NC/F/2	R263/WAC/F/2	R264/NC/F/2	R264/WAC/F/2
500 ml : 5.0	2.5	34/35	R263/NC/G/2	R263/WAC/G/2	R264/NC/G/2	R264/WAC/G/2
1000 ml : 10.0	5.0	45/40	R263/NC/H/2	R263/WAC/H/2	R264/NC/H/2	R264/WAC/H/2
2000 ml : 20.0*	10.0	45/40	R263/NC/I/S	R263/WAC/I/S	R264/NC/I/S	R264/WAC/I/S

Cap. : grad.	Accuracy ± ml	Art.-No. p
10 ml : 0.5	0.2	R262/B/2
25 ml : 1	0.5	R262/D/2
50 ml : 2	1.0	R262/E/2
100 ml : 2	1.0	R262/F/2
250 ml : 5	2.0	R262/G/2
500 ml : 10	5.0	R262/H/2
1000 ml : 20	10.0	R262/I/2

Stopper size	Art.-No. q
Pack no 20	
10/13	L189/A
12/14	L189/B
14/15	L189/C
16/16	L189/D
19/17	L189/E
24/20	L189/F
29/32	L189/G
34/35	L189/H



R 262

volac USP/ASTM Accuracies: Measuring and Mixing Cylinders are available to USP/ASTM specifications for Class A, each piece individually tested and numbered. Individual Works Certificates are available at extra cost; see separate leaflet.

volac Measuring Cylinders, borosilicate glass

- the Ultimate Precision in Laboratory Glassware



RB258



RB257

volac Volumetric Flasks to DIN/BS/ISO 1042

A range of flasks from 1 ml to 5000 ml capacity, all manufactured to Class A standards, with permanent markings and tooled ground neck fitted with interchangeable 'Polystop' polypropylene stopper, all made in borosilicate glass. **Class A accuracy, without certificate:** this range has been enlarged to cover all the former Class B capacities. All flasks are individually checked for accuracy and batch numbered. **Class A accuracy, with certificate:** each flask is individually numbered and supplied with an individual correction certificate of accuracy.

volac **Volumetric Flasks, clear - borosilicate glass, pack 5 (*2,**1)**
a class A - each flask individually tested & batch numbered
b class A - with Works Certificate

volac **Volumetric Flasks, amber - borosilicate glass, pack 5 (*2,**1)**
c class A - each flask individually tested & batch numbered
d class A - with Works Certificate

Capacity	TS	Accuracy ± ml	Art.-No. a	Art.-No. b
5 ml	10/13	0.025	RB258/A/5	RB258/WAC/A/5
10 ml	10/13	0.025	RB258/B/5	RB258/WAC/B/5
15 ml ⁽¹⁾	10/13	0.03	RB258/C/5	RB258/WAC/C/5
20 ml	10/13	0.04	RB258/D/5	RB258/WAC/D/5
25 ml	10/13	0.04	RB258/E/5	RB258/WAC/E/5
50 ml	12/14	0.06	RB258/F/5	RB258/WAC/F/5
100 ml	12/14	0.10	RB258/G/5	RB258/WAC/G/5
200 ml *	14/15	0.15	RB258/H/2	RB258/WAC/H/2
250 ml *	14/15	0.15	RB258/I/2	RB258/WAC/I/2
500 ml *	19/17	0.25	RB258/J/2	RB258/WAC/J/2
1000 ml *	24/20	0.40	RB258/K/2	RB258/WAC/K/2
2000 ml **	29/32	0.60	RB258/L/S	RB258/WAC/L/S
5000 ml **	34/35	1.20	RB258/M/S	RB258/WAC/M/S

Capacity	TS	Accuracy ± ml	Art.-No. c	Art.-No. d
5 ml	10/13	0.025	RB258/AM/A/5	RB258/AM/WC/A/5
10 ml	10/13	0.025	RB258/AM/B/5	RB258/AM/WC/B/5
15 ml ⁽¹⁾	10/13	0.03	RB258/AM/C/5	RB258/AM/WC/C/5
20 ml	10/13	0.04	RB258/AM/D/5	RB258/AM/WC/D/5
25 ml	10/13	0.04	RB258/AM/E/5	RB258/AM/WC/E/5
50 ml	12/14	0.06	RB258/AM/F/5	RB258/AM/WC/F/5
100 ml	12/14	0.10	RB258/AM/G/5	RB258/AM/WC/G/5
200 ml *	14/15	0.15	RB258/AM/H/2	RB258/AM/WC/H/2
250 ml *	14/15	0.15	RB258/AM/I/2	RB258/AM/WC/I/2
500 ml *	19/17	0.25	RB258/AM/J/2	RB258/AM/WC/J/2
1000 ml *	24/20	0.40	RB258/AM/K/2	RB258/AM/WC/K/2
2000 ml **	29/32	0.60	RB258/AM/L/S	RB258/AM/WC/L/S
5000 ml **	34/35	1.20	RB258/AM/M/S	RB258/AM/WC/M/S

volac **Trapezoidal Flasks**
borosilicate glass, pack 5
e Class A - clear glass
f Class A - amber glass

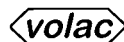
volac accuracies for 'mini' trapezoidal flasks were set before the recently approved new ISO standards and are much tighter.

Capacity	TS	Accuracy ± ml	Art.-No. e clear glass	Art.-No. f amber glass
1 ml	7/19	0.010	RB257/A/5	RB257/AM/A/5
2 ml	7/19	0.015	RB257/B/5	RB257/AM/B/5
3 ml ⁽¹⁾	7/19	0.025	RB257/C/5	RB257/AM/C/5
4 ml ⁽¹⁾	7/19	0.025	RB257/D/5	RB257/AM/D/5
5 ml	7/19	0.025	RB257/E/5	RB257/AM/E/5

For Volumetric Flasks in Clear and Amber Glass to USP/ASTM requirements see separate leaflet.

⁽¹⁾not in ISO/BS

Poulten & Graf Ltd.



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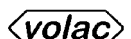
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