

**volac** Multichannel Pipettors - with volume range to 300 µl per channel

- excellent accuracy and repeatability
- adjustable, air displacement pipettors
- light weight
- easy to use with easy maintenance and recalibration
- simple tip ejection
- volume between each channel is equalised
- the digital volume is clear and easy to read
- all models will take standard Volac multifit 200 µl yellow tips, D590, which can accept 250 µl.
- however for greater clearance between liquid and pipettor at 250 µl use of a 300 µl tip ( D591) is suggested.

The following types are available:

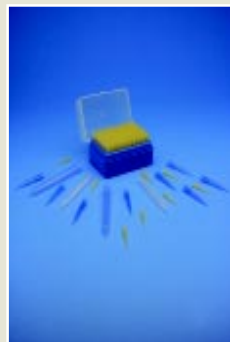
- ① **volac** Multichannel Pipettor, 4 channel (to special order), pack 1
- ② **volac** Multichannel Pipettor, 8 channel, pack 1
- ③ **volac** UNI Multichannel Pipettor, 8 channel, a new lower cost range of 8 channel micropipettors offering a complete volume range with convenience of operation and accuracy specifications, pack 1
- ④ **volac** Multichannel Pipettor, 12 Channel, pack 1

Volume Range	Increments	Calibrated at	Spec. Accuracy	CV %	Art.-No.
①					
5 - 50 µl	0.5 µl	20 µl	± 0.3 µl		R669/A
50 - 250µl	5.0 µl	100 µl	± 1.5 µl		R669/B
②					
0.1 - 10 µl	0.1 µl	5 µl	± 0.3 µl		R690/A
5 - 50 µl	0.5 µl	20 µl	± 0.3 µl		R690/B
50 - 250 µl	5.0 µl	100 µl	± 1.5 µl		R690/C
③					
0.1 - 10 µl	0.1 µl	1 µl/10 µl	± 0.40/±0.15 µl	4.0/1.5	R692/A
5 - 50 µl	0.5 µl	5 µl/50 µl	± 0.15/±0.50 µl	2.0/0.5	R692/B
40 - 300 µl	5.0 µl	40 µl /300 µl	± 0.60 /±2.1 µl	0.8/0.25	R692/C
④					
5 - 50 µl	0.5 µl	20 µl	± 0.3 µl		R691/A
50 - 250 µl	5.0 µl	100 µl	± 1.5 µl		R691/B



**volac** Disposable Micro-Pipettor Tips, calibrated, \*not calibrated

Index for type of packing:  
 a. bulk pack  
 b. open rack  
 c. racked/boxed/ not sterilised  
 d. racked/boxed/ sterilised  
 e. pre-sterilised/ (in sleeves)



Volume	Tip Description	Packing information	Art.-No.
0 - 20 µl	<b>volac</b> microtip	a/1000 pcs.	D595*
1 - 200 µl	Multifit, yellow	a/1000 pcs.	D590
1 - 200 µl	Multifit, yellow	b/200 pcs.	D590/R
1 - 200 µl	Multifit, yellow	c/96 pcs.	D590/B
1 - 200 µl	Multifit, yellow	d/96 pcs.	D590/BS
1 - 200 µl	Multifit, yellow	e/500(10) pcs.	D590/VA
1 - 200 µl	Economy tip	a/1000 pcs.	D590/C*
1 - 300 µl	white, for multichannels	a/1000 pcs.	D591*
100 - 1000 µl	Multifit, blue	a/1000 pcs.	D592
100 - 1000 µl	Multifit, blue	b/200 pcs.	D592/R
100 - 1000 µl	Multifit, blue	c/100 pcs.	D592/B
100 - 1000 µl	Multifit, blue	d/100 pcs.	D592/BS*
100 - 1000 µl	Multifit, blue	e/500 (10) pcs.	D592/VA
100 - 1000 µl	Economy tip	a/1000 pcs.	D592/C
500 - 5000 µl	<b>volac</b> fit, white	a/500 pcs.	D893*
500 - 5000 µl	<b>volac</b> fit, white	e/250 (5) pcs.	D893/VA*
1000 - 10000µl	<b>volac</b> fit, blue	a/400 pcs.	D894*
1000 - 10000µl	<b>volac</b> fit, blue	e/200 pcs.	D894/VA*



ULTRA



UNI



ECO



UNI MULTICHANNEL

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**volac** ULTRA Micropipettors

**volac** UNI Micropipettors

**volac** ECO Micropipettors

**volac** Multichannel-Pipettors

**volac** ULTRA Micropipettors - the luxury design for ergonomical use

- excellent accuracy and repeatability - tighter specification over the range than all other makes
- every instrument is individually numbered, certified and fully guaranteed for twelve months
- easy self calibration, simple cleaning and servicing, lower body easily removed for autoclaving
- ultimate smoothness and perfect definition of thumb press action, with improved 'blow out' for easier tip purging
- precision ground, corrosion resistant stainless steel piston assembly
- reduced 'dead' air space improves accuracy
- anti surge nozzle (1µl - 1000 µl) minimises unwanted splashing
- fully integrated tip ejection mechanism (1µl - 5000 µl)
- casing material offers improved accuracy by minimising hand induced expansion effects, excellent all round chemical resistance is standard
- every instrument comes with a full, 2 page certificate of calibration
- intermediate volumes available to special order

**Micropipettor** **volac** ULTRA Digital Variable, pack 1

Volume range	Click stop	Colour	Tested at µl	Accuracy ± % µl	Precision on 4/30 readings	Tips	Art.-No.
1 - 10 µl	0.02 µl	grey	1	5.0 ± 0.05 µl	5.0 / 4.0	200 µl	R680/O
			5	2.0 ± 0.1 µl	2.5 / 1.0		
5 - 50 µl	0.1 µl	yellow	10	1.0 ± 0.1 µl	1.0 / 0.6		
			5	2.0 ± 0.1 µl	1.5 / 1.25	200 µl	R680/A
			25	1.0 ± 0.25 µl	0.75 / 0.5		
10-100 µl	0.2 µl	aqua	50	0.5 ± 0.25 µl	0.3 / 0.25		
			10	1.5 ± 0.15 µl	1.0 / 0.6	200 µl	R680/B
			50	0.6 ± 0.3 µl	0.5 / 0.25		
20-200 µl	0.2 µl	orange	100	0.4 ± 0.4 µl	0.3 / 0.15		
			20	1.0 ± 0.12 µl	0.7 / 0.4	200 µl	R680/C
			100	0.2 ± 0.4 µl	0.3 / 0.25		
50 - 500 µl	1.0 µl	blue	200	0.3 ± 0.6 µl	0.3 / 0.15		
			50	1.5 ± 0.75 µl	0.75 / 0.4	1000 µl	R680/D
			250	0.75 ± 1.875 µl	0.4 / 0.2		
100 - 1000 µl	2.0 µl	purple	500	0.4 ± 2.0 µl	0.3 / 0.15		
			100	0.8 ± 0.8 µl	0.7 / 0.3	1000 µl	R680/E
			500	0.6 ± 3.0 µl	0.4 / 0.2		
500 - 5000 µl	10.0 µl	lime	1000	0.4 ± 4.0 µl	0.3 / 0.15		
			500	0.8 ± 4.0 µl	0.7 / 0.3	5 ml	R680/F
			2500	0.4 ± 10.0 µl	0.3 / 0.2		
1000-10000µl	20.0 µl	black	5000	0.4 ± 20.0 µl	0.3 / 0.15		
			1000	0.6 ± 6.0 µl	0.7 / 0.3	10 ml	R680/G
			5000	0.5 ± 25.0 µl	0.3 / 0.2		
			10000	0.4 ± 40.0 µl	0.3 / 0.15		

**Micropipettor** **volac** ULTRA Fixed Volume, pack 1

Volume	Colour	± %	Accuracy µl	Precision on 4/30 readings	Tips	Art.-No.
5 µl	purple	1.0	± 0.05	1.5 / 1.25	200 µl	R670/A
10 µl	grey	1.0	± 0.1	0.75 / 0.50	200 µl	R670/B
20 µl	lime	0.5	± 0.1	0.5 / 0.50	200 µl	R670/D
25 µl	blue	0.5	± 0.125	0.5 / 0.50	200 µl	R670/E
50 µl	yellow	0.5	± 0.25	0.3 / 0.15	200 µl	R670/H
100 µl	aqua	0.4	± 0.4	0.3 / 0.15	200 µl	R670/N
200 µl	orange	0.3	± 0.6	0.3 / 0.15	200 µl	R670/Q
250 µl	grey	0.3	± 0.75	0.3 / 0.15	1000 µl	R670/R
500 µl	blue	0.3	± 1.5	0.3 / 0.15	1000 µl	R670/U
1000 µl	purple	0.3	± 3	0.3 / 0.10	1000 µl	R670/Y
5000 µl	lime	0.3	± 15	0.3 / 0.20	5 ml	R670/Z
10000 µl	black	0.3	± 30	0.3 / 0.20	10 ml	R670/ZZ

● n.b. **volac** ULTRA micropipettes meets all the requirements of ISO8655



**volac** UNI Pipettors - micropipetting at affordable price

- better accuracy and repeatability
- large easy to read digital display
- easy volume change setting
- new design for easy cleaning & servicing
- improved accuracy below 20 µl with **volac** UNI Microtips (D595)
- 12 month guarantee
- affordable - superb value
- **volac**UNI is ideal for student use
- easily recalibrated with special tool provided
- new black polypropylene tip cones for improved solvent resistance
- asterisks (\*) have been added to the codes to denote new improved range

**Micropipettor** **volac** UNI, variable digital, pack 1

Volume Range µl	Increments µl	Tips µl	Accuracy ± %	Precision ± %	Art.-No.
0.5 - 10	0.1	20 µl	10.0/1.5	10.0/1.0	R780/O*
2 - 20	0.1	20 µl	10.0/0.8	5.0/1.0	R780/X*
5 - 50	1.0	200 µl	2.0/0.7	0.5/0.3	R780/A*
20 - 100	1.0	200 µl	2.0/0.8	0.3/0.2	R780/B*
40 - 200	1.0	200 µl	1.5/0.8	0.3/0.2	R780/C*
200 - 1000	10.0	1000 µl	0.6/0.5	0.3/0.2	R780/E*
1000 - 5000	100.0	5 ml	0.8/0.6	0.2/0.2	R780/F*
2000-10000	100.0	10 ml	0.8/0.6	0.2/0.2	R780/G*

**Micropipettor** **volac** UNI, fixed volume, pack 1

Volume Range µl	Tips µl	Accuracy ± %	Precision ± %	Art.-No.
5	20 µl	2.5	2.5	R770/A*
10	20 µl	1.5	1.0	R770/B*
20	20 µl	0.7	0.6	R770/D*
25	200 µl	0.6	0.4	R770/E*
50	200 µl	0.6	0.4	R770/H*
100	200 µl	0.6	0.4	R770/N*
200	200 µl	0.6	0.4	R770/Q*
250	1000 µl	0.6	0.4	R770/R*
500	1000 µl	0.6	0.4	R770/U*
1000	1000 µl	0.4	0.4	R770/Y*
5000	5 ml	0.4	0.4	R770/Z*
10000	10 ml	0.4	0.4	R770/ZZ*

**volac** ECO Automatic Low Cost Pipettes

- from 0.1 ml to 10 ml
- replace glass pipettes and pipette fillers giving major safety improvements with no increase in cost, pack 1

Vol. Range	Tips	Colour	Accuracy	Precision	Art.-No.
0.1 - 1 ml	E592	blue	± 1.75 %	0.4	E1000-01
0.5 - 5.0 ml	E893	pink	± 1.75 %	0.4	E1000-05
1.0 - 10.0 ml	E894	turquoise	± 1.75 %	0.4	E1000-10

