



 Liquid Handling



 ULTRA

Bottle Top Pipettor/Dispenser



Working HAND in HAND with the Bottle Top Pipettor **volac** ULTRA

The **volac** ULTRA bottle top pipettor/dispenser gives accuracy and repeatability figures similar to micropipettors. With the small 80 ml reservoir attached the 'Hand-Dispenser' ULTRA is still light and convenient enough to be easily carried, manipulated and targeted.

The plunger return spring allows easy one handed operation. The glass nozzle length has been extended for added convenience.

Step pipetting with expensive 'stepper' tips can now be replaced with excellent accuracy and significantly lower cost. The **volac** ULTRA is suitable for use with most solvents or strong acids. The main body is quickly removed and the lower body is fully autoclavable.

The **volac** ULTRA can be quickly and easily recalibrated to allow for liquids with non standard viscosity, surface tension and specific gravity characteristics.

volac ULTRA Pipettor / Dispenser

Bottle Top Pipettor/Dispenser **volac**ULTRA, delivery: with an 80 ml amber reservoir with a 54 mm neck and two adaptors: GL 45 and multipurpose adaptor to be used with almost any bottle cap when a hole is made in the bottle cap of 32 mm Ø, calibration tool, calibration certificate and full instructions, pack 1

| Volume range | Click Stop | Colour | tested at µl | Accuracy* | | Precision on 4 readings % | Art.-No. |
|---------------|------------|--------|--------------|-----------|----------|---------------------------|----------|
| | | | | ± % | ± µl | | |
| 50-500 µl | 1 µl | aqua | 50 | 1.0 | ±0.5 µl | 0.6 | AR675/0 |
| | | | 250 | | ±2.5 µl | 0.3 | |
| | | | 500 | | ±5 µl | 0.3 | |
| 100-1000 µl | 2 µl | orange | 100 | 1.0 | ±1.0 µl | 0.6 | AR675/A |
| | | | 500 | | ±5.0 µl | 0.3 | |
| | | | 1000 | | ±10.0 µl | 0.3 | |
| 500-5000 µl | 10 µl | purple | 500 | 1.0 | ±5 µl | 0.5 | AR675/B |
| | | | 2500 | | ±25 µl | 0.3 | |
| | | | 5000 | | ±50 µl | 0.3 | |
| 1000-10000 µl | 20 µl | lime | 1000 | 1.0 | ±10 µl | 0.5 | AR675/C |
| | | | 5000 | | ± 50 µl | 0.3 | |
| | | | 10000 | | ±100 µl | 0.3 | |

* Substantially better accuracy figures are commonly available (similar to hand held pipettors) provided care is taken to prevent droplet formation at the end of the nozzle.

General Notes

All parts in contact with liquid are made of glass or PTFE and the **volac** ULTRA dispenser can be successfully used with all solvents, liquids or reagents which are inert to glass and PTFE.

Fuming reagents / solvent vapours: the effects of fumes and vapours should be minimised by removing the dispenser from the reservoir overnight after use and

flushing. Alternatively as a minimum the upper body should be unscrewed (quick release thread) from the lower body allowing the stainless steel piston bar to vent to air. Saturated salt or sugar solutions - occasionally crystallisation may occur preventing smooth operation of the valves. Regular thorough washing in warm distilled water is strongly recommended. Full spares and a 400 ml amber reservoir are available.

Adaptor for ULTRA Dispenser, Merck Euro Winchester

| to fit neck size | Art.-No. | to fit neck size | Art.-No. |
|------------------|----------|------------------|----------|
| 38/40.75 mm | R675/AD2 | 26.2/28.4 mm | R675/AD4 |
| 30/32.75 mm | R675/AD3 | 23.3/25.6 mm | R675/AD5 |

Poulten & Graf Ltd.



FORTUNA®

Peak Works, 1 Alfreds Way
Barking, Essex
IG11 0AS, UK
Tel.: +44 (0)20 8594 4256
Fax: +44 (0)20 8594 8419

<http://www.poulten-graf.com>
e-mail: VOLAC@poulten-graf.com

Poulten & Graf GmbH



FORTUNA®



Postfach 1352
97863 Wertheim / Germany
Tel.: +49 9342 9229-0
Fax: +49 9342 9229-80

<http://www.poulten-graf.com>
e-mail: FORTUNA@poulten-graf.com