



## Positive Displacement Microdispensers



### Adjustable Digital Microdispensers

The Drummond range of Digital Microdispensers provides accurate, adjustable volume dispensing.

The direct digital set and read out for fractional volume makes these precision-engineered dispensers easy to use. Using stainless steel plungers (with teflon tips on models 25µl and upwards) and borosilicate, colour-coded glass capillaries (polypropylene bores for 1000µl model) at nominal volumes, the Digital Microdispensers deliver an accuracy of  $\pm 1\%$ .

A positive lock prevents accidental volume changes. Microdispensers are supplied with the appropriate size capillaries, spare O-ring and teflon tips.

The 1000 µl model can also be teamed with a Repeat Kit for continuous pipetting, or dispensing manifolds for use with 96 and 384 Well plates.



For replacement glass capillary tubes and plastic tips please see the following page.

For replacement parts please see page 24.

### Adjustable Digital Microdispensers

Catalogue Number	Description	Range µl	Increments µl
3-000-510	10µl Drummond digital Microdispenser	2.0-10.0	0.01
3-000-525	25µl Drummond digital Microdispenser	5.0-25.0	0.1
3-000-550	50µl Drummond digital Microdispenser	10-50	0.1
3-000-575	100µl Drummond digital Microdispenser	20-100	0.1
3-000-590	1000µl Drummond digital Microdispenser	100-1000	1.0
3-000-091	Repeat Kit for use with 1000µl models		
3-000-093	Straight, 8 Place Manifold for 96-Well Plate*		
3-000-102	Straight, 16 Place Manifold for 384-Well Plate*		

\*Other configurations available, please enquire

### Adjustable Dialamatic Microdispensers



Dialamatic Microdispensers offer excellent precision micro-volume delivery. The stainless steel plungers and borosilicate glass capillaries have a volumetric accuracy of  $\pm 1\%$  at full volume. The adjustable plunger is engraved with a fractional delivery scale in pre-marked increments for direct reading and setting. All microdispensers are supplied with colour-coded capillaries, essential maintenance tools and spare parts.



### Adjustable Dialamatic Microdispensers

Catalogue Number	Description	Range µl	Increments µl
3-000-210	10µl Drummond Dialamatic Microdispenser	2.0-10.0	1.0
3-000-225	25µl Drummond Dialamatic Microdispenser	5.0-25.0	1.0
3-000-250	50 µl Drummond Dialamatic Microdispenser	10-50	2.0
3-000-275	100 µl Drummond Dialamatic Microdispenser	20-100	10.0



For replacement glass capillary tubes and plastic tips please see the following page. For replacement parts please see page 24.

## Positive Displacement Microdispensers

### Fixed Volume Microdispensers

The range of fixed volume microdispensers provides reliable, accurate delivery of single volumes using stainless steel plungers and borosilicate glass capillaries, or polypropylene bores for the 1000 $\mu$ l model. Volumetric accuracy of these pipettes at full volume is  $\pm 1\%$ . A pack of colour-coded capillaries or plastic tips of the appropriate volume together with essential maintenance tools accompany each dispenser.

The 5 $\mu$ l model can be adapted to dispense 1, 2, 3 or 4 $\mu$ l using the set of 4 colour-coded spacers provided with the pipette. The required spacer is fitted over the plunger by removing the fingerpad. Similarly the 200 $\mu$ l model can be adapted to dispense 100 $\mu$ l.

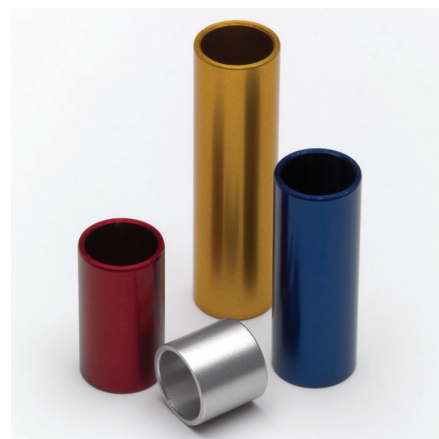


The 1000 $\mu$ l model can also be teamed with a Repeat Kit for continuous pipetting or dispensing manifolds for use with 96 and 384 Well plates.

#### Fixed Volume Microdispensers

Catalogue Number	Description
3-000-105	1/2/3/4/5 $\mu$ l Drummond Fixed Volume Microdispenser
3-000-310	10 $\mu$ l Drummond Fixed Volume Microdispenser
3-000-320	20 $\mu$ l Drummond Fixed Volume Microdispenser
3-000-325	25 $\mu$ l Drummond Fixed Volume Microdispenser
3-000-350	50 $\mu$ l Drummond Fixed Volume Microdispenser
3-000-375	100 $\mu$ l Drummond Fixed Volume Microdispenser
3-000-385	100/200 $\mu$ l Drummond Fixed Volume Microdispenser
3-000-388	250 $\mu$ l Drummond Fixed Volume Microdispenser
3-000-390	1000 $\mu$ l Drummond Fixed Volume Microdispenser
3-000-091	Repeat Kit for use with 1000 $\mu$ l models
3-000-093	Straight, 8 Place Manifold for 96-Well Plate*
3-000-102	Straight, 16 Place Manifold for 384-Well Plate*

\*Other configurations available, please enquire



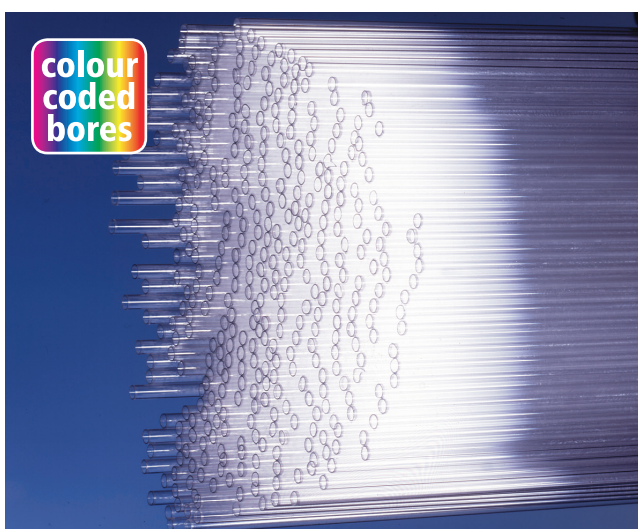
Spacer set included with 3-000-105



3-000-105 set to dispense 1 $\mu$ l with largest spacer

For further details of the Repeat Kit and Dispensing Manifolds, please see the previous page.

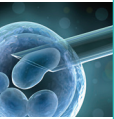
### Microdispenser Capillaries/Bores



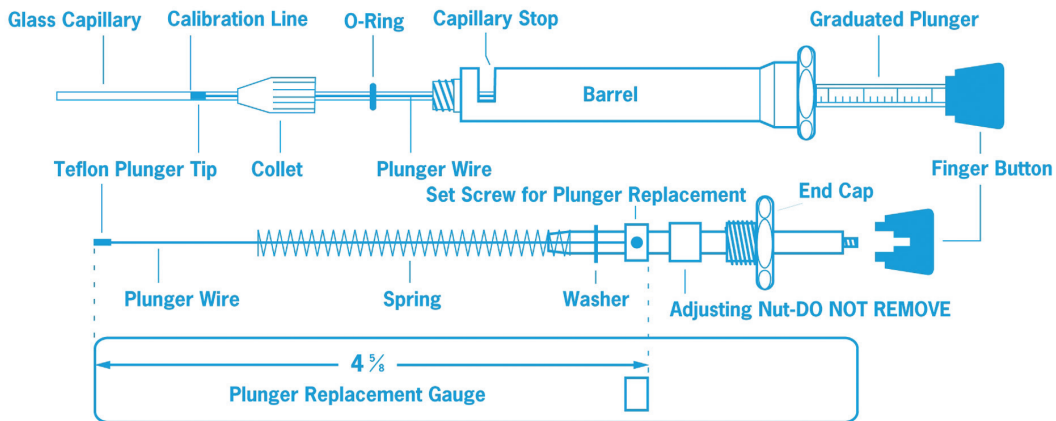
Drummond Microdispenser capillaries are suitable for use with all Microdispensers. They are manufactured from chemical resistant, borosilicate glass with the exception of the 1000 $\mu$ l bores which are manufactured from tough polypropylene. All microdispenser capillaries are colour coded to help you easily identify the correct volume bore.

#### Microdispenser Capillaries

Catalogue Number	Description	Pack Size
3-000-105-G	1-5 $\mu$ l Glass Microdispenser Bores, White	100
3-000-210-G	10 $\mu$ l Glass Microdispenser Bores, Orange	100
3-000-320-G	20 $\mu$ l Glass Microdispenser Bores, Black	100
3-000-225-G	25 $\mu$ l Glass Microdispenser Bores, Double White	100
3-000-250-G	50 $\mu$ l Glass Microdispenser Bores, Green	100
3-000-275-G	100/200 $\mu$ l Glass Microdispenser Bores, Blue	100
3-000-388-G	250 $\mu$ l Glass Microdispenser Bores, Black	100
3-000-590-G	1000 $\mu$ l Plastic Tips	100



## Replacement Parts for Microdispensers



Positive displacement microdispensers are easily serviced with no need for re-calibration and are provided with a supply of capillaries, an Allen key, O-ring, replacement Teflon tips, holding block and reshaping tool where appropriate.

Additional components to keep your microdispensers in excellent working order are available in tailored parts, kits or bulk packs.

Microdispensers with a maximum volume of up to 20µl do not require teflon plunger tips and the 1000µl Microdispensers do not utilise O-rings or plunger wires.

### Tailored Parts Kits

Catalogue Number	Description	Compatibility
3-000-005-K	<b>5µl Microdispenser Parts Kit:</b> 2 Plungers, 2 O-Rings, 1 Coil Spring, 1 Spring Guide	3-000-105
3-000-010-K	<b>2-10µl Microdispenser Parts Kit:</b> 2 Plungers, 2 O-Rings, 1 Coil Spring, 1 Spring Guide	3-000-510 3-000-210
3-000-310-K	<b>10µl Microdispenser Parts Kit:</b> 2 Plungers, 2 O-Rings, 1 Coil Spring, 1 Spring Guide	3-000-310
3-000-320-K	<b>20µl Microdispenser Parts Kit:</b> 2 Plungers, 2 O-Rings, 1 Coil Spring, 1 Spring Guide	3-000-320
3-000-025-K	<b>5-25µl Microdispenser Parts Kit:</b> 1 Plungers, 2 O-Rings, 1 Collet, 1 Coil Spring, 3 Teflon Tips, 1 Spring Guide	3-000-525 3-000-225
3-000-325-K	<b>25µl Microdispenser Parts Kit:</b> 1 Plungers, 2 O-Rings, 1 Collet, 1 Coil Spring, 3 Teflon Tips, 1 Spring Guide	3-000-325
3-000-050-K	<b>10-50µl Microdispenser Parts Kit:</b> 1 Plungers, 2 O-Rings, 1 Collet, 1 Coil Spring, 3 Teflon Tips, 1 Spring Guide	3-000-550 3-000-250
3-000-350-K	<b>50µl Microdispenser Parts Kit:</b> 1 Plungers, 2 O-Rings, 1 Collet, 1 Coil Spring, 3 Teflon Tips, 1 Spring Guide	3-000-350
3-000-075-K	<b>20-100µl Microdispenser Parts Kit:</b> 1 Plungers, 2 O-Rings, 1 Collet, 1 Coil Spring, 3 Teflon Tips, 1 Spring Guide	3-000-575
3-000-375-K	<b>100µl Microdispenser Parts Kit:</b> 1 Plungers, 2 O-Rings, 1 Collet, 1 Coil Spring, 3 Teflon Tips, 1 Spring Guide	3-000-275 3-000-375
3-000-385-K	<b>100/200µl Microdispenser Parts Kit:</b> 1 Plungers, 2 O-Rings, 1 Collet, 1 Coil Spring, 3 Teflon Tips, 1 Spring Guide	3-000-385
3-000-388-K	<b>250µl Microdispenser Parts Kit:</b> 1 Plungers, 2 O-Rings, 1 Collet, 1 Coil Spring, 3 Teflon Tips, 1 Spring Guide	3-000-388*

### Bulk Parts Kits – Ordered on Request

Catalogue Number	Description	Quantity	Compatibility
3-000-010-590	Plunger Tips for 1000µl Microdispenser	3	3-000-590, 3-000-390
3-000-0101	Teflon Tips 25µl x 50	50	3-000-525, 3-000-225, 3-000-325
3-000-0102	Teflon Tips 50µl	50	3-000-550, 3-000-250, 3-000-350, 3-000-344*
3-000-0103	Teflon Tips 100µl	50	3-000-575, 3-000-275, 3-000-375, 3-000-385

\*Other configurations available, please enquire

