



MICROMAN[®]

*The Positive Displacement
Pipetting Reference*



Extreme accuracy and precision

Problem liquids

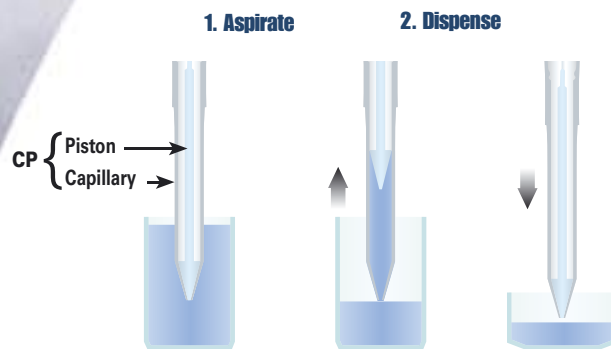
Contamination-free working



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The Positive Displacement Pipetting Reference

How does it work ?

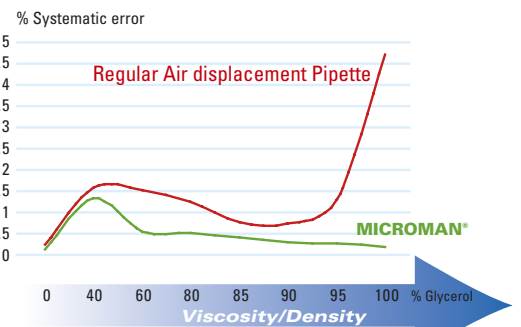
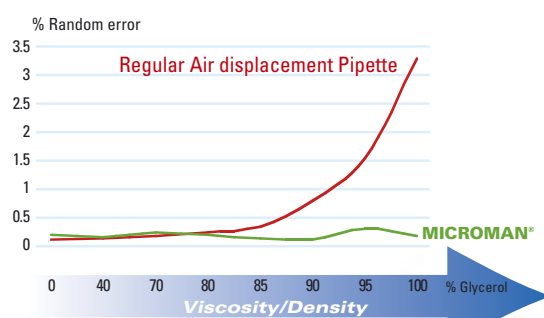


- > No air-to-liquid interface.
- > The desired volume is aspirated rapidly and completely.
- > The positive wiping action of the piston against the capillary wall assures accurate dispensing of even the most viscous sample and avoids any carry-over.

Improve accuracy and precision with problem liquids

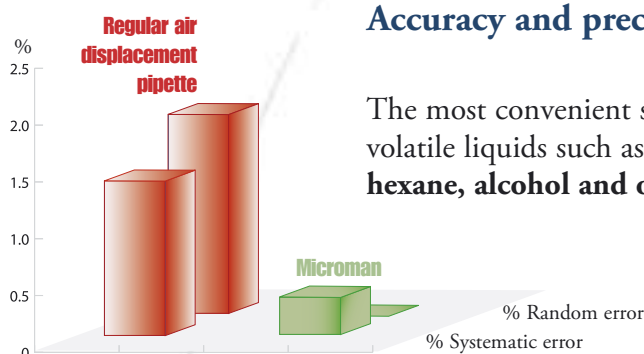
Accuracy and precision with viscous and dense samples

The most convenient solution when pipetting liquids such as **oil, enzyme solutions, syrup, buffers, blood, cosmetic cream.**



Reference: Gilson S.A.S.

*Glycerol pipetting**



Reference: Gilson S.A.S.

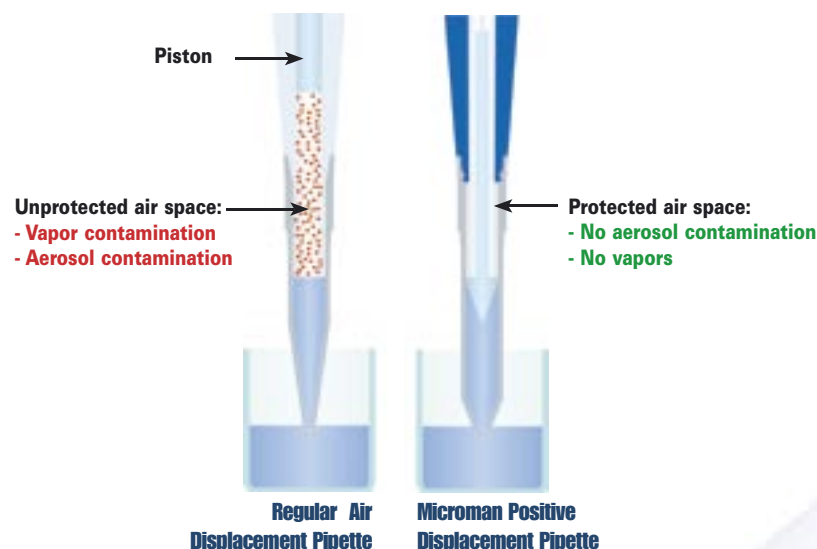
*Acetone pipetting**

Accuracy and precision with volatile samples

The most convenient solution when pipetting volatile liquids such as **acetone, chloroform, hexane, alcohol and other solvents.**

100% protection against contamination

The safest solution when pipetting liquids such as DNA fragments, PCR templates, enzyme solutions, radio labeled components.



Pipette Protection:

- Acid, base and solvent
- Radio labeled components

Disposable CP

Pipette's shaft never in contact with corrosive vapors or liquids

Sample Protection:

- Molecular biology
- Forensic Sciences

No air cushion

No aerosol

Users Protection:

- Infectious solution
- Radio labeled components

Built-in ejector

No hand contact

More reliable than filter tips

According to Roche, leader of PCR based technologies, one of the critical factors for successful PCR is «*a dedicated (used only for PCR) set of pipettes, preferably positive displacement pipettes.*»**

Sambrook, Fritsch and Maniatis highly recommend the use of positive displacement pipettes for critical PCR protocols.***

** Copyright © 2005 Roche. «Critical factors for Successful PCR,» *Roche Molecular Biochemicals PCR Application Manual*, 2nd edition. www.roche-applied-science.com/PROD_INF/MANUALS/pcr_man/#2

*** Sambrook, Fritsch and Maniatis. «In Vitro Amplification of DNA by the Polymerase Chain Reaction,» *Molecular Cloning: A Laboratory Manual*, 2nd edition 14:14, 1989.



Microman Range

- > **6 models** cover a large volume range from 1 μL to 1000 μL .
- > **Permanently calibrated.**
- > Lightweight design, **only 50 g !**
- > **Designed for both right and left handed users.**
- > **Color-coded push-button** with volume range.
- > **Built-in ejector.**
- > Delivered with the **Gilson's original ISO 8655 certificate of conformity.**

... > Red push-button for **autoclavable models.**



Capillaries and Pistons Range (CPs)

- > **Disposable CP, capillaries** made of pure polypropylene.
- > **Easy to fit and to eject.**
- > **Pre-assembled, ready-to-use** and racked CPs in Tipacks[®] from 1 μL to 1000 μL .
- > **Sterilized CPs from 1 μL to 1000 μL .**
- > **Slim and long CPs** fit into even the narrowest and deepest test tubes.
- > **Entry level CP available** non-assembled.



Tipack[®] CP1000



Tipack[®] CP1000ST

FREE of
Nucleic acid, Nuclease
Protease and Metal

OUR PIPETTES CONFORM TO
ISO8655

CE [IVD]

Microman Models



Model	Capillary Piston	Reference Number	Volume (µL)	Gilson Maximum Permissible Errors		ISO 8655 Maximum Permissible Errors	
				Systematic error (µL)	Random error (µL)	Systematic error (µL)	Random error (µL)
M10 AUTOCLAVABLE	CP10	F148501	Min. 1	± 0.09	≤ 0.03	± 0.20	≤ 0.10
			5	± 0.10	≤ 0.03	± 0.20	≤ 0.10
			Max. 10	± 0.15	≤ 0.06	± 0.20	≤ 0.10
M25	CP25	F148502	Min. 3	± 0.25	≤ 0.08	± 0.70	≤ 0.30
			10	± 0.27	≤ 0.08	± 0.70	≤ 0.30
			Max. 25	± 0.30	≤ 0.10	± 0.70	≤ 0.30
M50	CP50	F148503	Min. 20	± 0.34	≤ 0.20	± 0.70	≤ 0.30
			Max. 50	± 0.70	≤ 0.30	± 0.70	≤ 0.30
M100 AUTOCLAVABLE	CP100	F148504	Min. 10	± 0.50	≤ 0.20	± 1.50	≤ 0.60
			50	± 0.75	≤ 0.30	± 1.50	≤ 0.60
			Max. 100	± 1.00	≤ 0.40	± 1.50	≤ 0.60
M250	CP250	F148505	Min. 50	± 1.50	≤ 0.30	± 6.00	≤ 2.00
			100	± 1.70	≤ 0.30	± 6.00	≤ 2.00
			Max. 250	± 2.50	≤ 0.50	± 6.00	≤ 2.00
M1000	CP1000	F148506	Min. 100	± 3.00	≤ 1.60	± 12.00	≤ 4.00
			500	± 5.00	≤ 2.50	± 12.00	≤ 4.00
			Max. 1000	± 8.00	≤ 4.00	± 12.00	≤ 4.00

Microman Capillary Pistons

Capillary Piston	Microman Model	Reference number	Quantity/Box	Sterilized	Assembled and Racked in Tipack
CP10	M10	F148412	192	No	Yes
CP10	M10	F148312	960	No	Yes
CP10ST	M10	F148413	192	Yes	Yes
CP10ST	M10	F148313	960	Yes	Yes
CP25	M25	F148112	200	No	No
CP50	M50	F148113	200	No	No
CP100	M100	F148414	192	No	Yes
CP100	M100	F148314	960	No	Yes
CP100ST	M100	F148415	192	Yes	Yes
CP100ST	M100	F148315	960	Yes	Yes
CP250	M250	F148114	200	No	No
CP1000	M1000	F148560	182	No	Yes
CP1000ST	M1000	F148180	182	Yes	Yes

Distributed by

ISO9001 Certified

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