MICROMAN®

The Positive Displacement Pipetting Reference

GILSON®
SOLUTIONS AT WORK FOR YOU

Extreme accuracy and precision

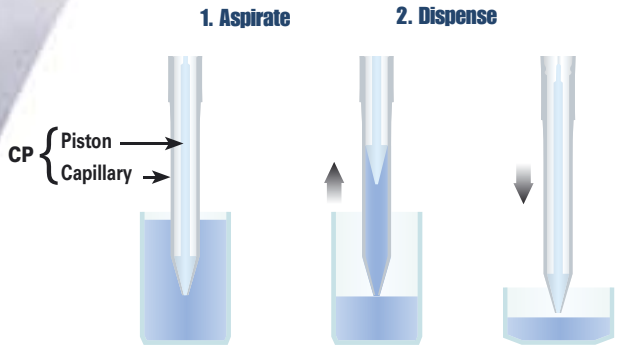
Problem liquids

Contamination-free working

MICROMAN®

The Positive Displacement Pipetting Reference

How does it work ?



> No air-to-liquid interface.

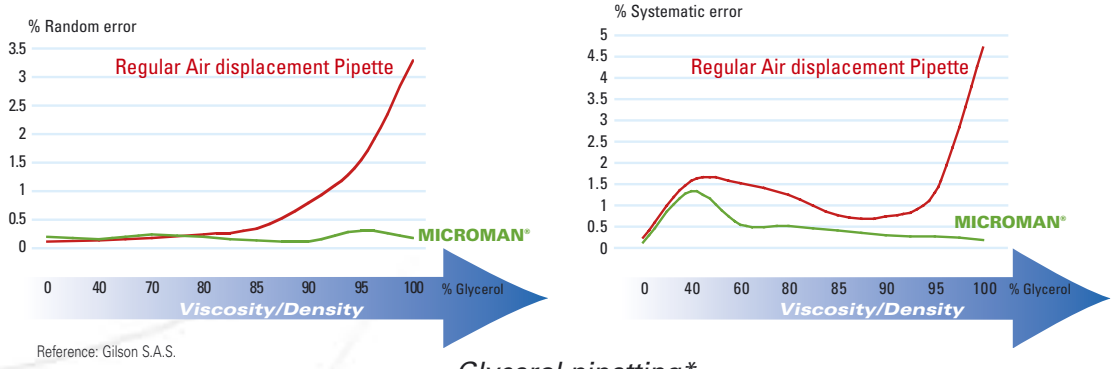
> The desired volume is aspirated rapidly and completely.

> 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

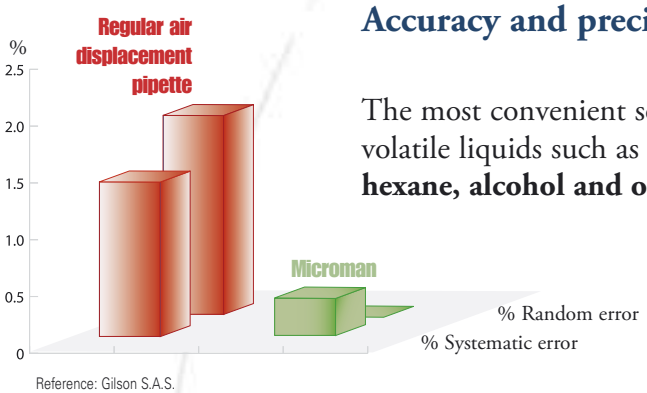
Accuracy and precision with viscous and dense samples

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**

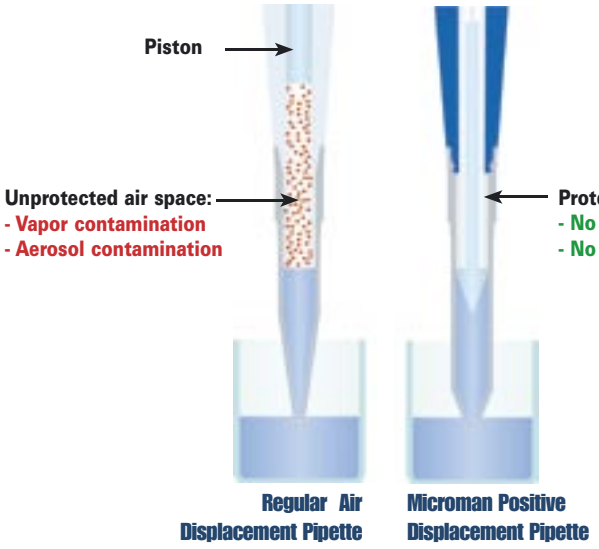
Accuracy and precision with volatile samples

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

* For further information, read Gilson's Application Note «How to deal with biological procedures and problem liquids» available at www.gilson.com

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.***

*** 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

OUR PIPETTES CONFORM TO ISO8655

CE [IVD]

Microman Models

Model	Capillary Piston	Reference Number	Volume (µL)	Gilson Maximum Permissible Errors: Systematic error (µL)	Gilson Maximum Permissible Errors: Random error (µL)	ISO 8655 Maximum Permissible Errors: Systematic error (µL)	ISO 8655 Maximum Permissible Errors: Random error (µL)
M10	CP10	**F148501**	Min. 1	± 0.09	≤ 0.03	± 0.20	≤ 0.10
AUTOCLAVABLE			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	CP100	**F148504**	Min. 10	± 0.50	≤ 0.20	± 1.50	≤ 0.60
AUTOCLAVABLE			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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