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All Application Notes, Brochures, Pipetting Techniques, Spec Sheets and User's Guides are supplied as PDF's and can be read with Adobe Acrobat Reader. To download Acrobat Reader, simply click the button below.



Manual Liquid Handling Catalog 2004



At Gilson “It is our policy to promote, with the leadership of our management, a total commitment to quality by each individual throughout our organization worldwide. It is our goal that this commitment to quality will result in complete customer satisfaction with both our products and services. For this purpose, we have established and implemented a formal quality system. Performance of our quality system is monitored to ensure that we are meeting our customers’ requirements and that we continually improve the effectiveness of the system and the progress in achievement of our goal.”

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NEW !

Gilson is pleased to announce new products for 2004:

Pipetman Ultra Multichannel 4-5

Pipetman Ultra Multichannel is not only accurate and precise but also productive and comfortable at the same time.

D300 Diamond Tips 4

Diamond D300 and Pipetman Ultra Multichannel is Gilson's new multichannel pipetting system.

D5000 and D10ml Tips 11

D5000 and D10ml are soon to be available racked in Tipacks.

Gilson Pipetting Aid 18

For rapid and controlled pipetting.

Pipetman Service Pack 23

Try out Gilson's latest service offer with the new Pipetman Service Pack.



PIPETMAN® Ultra

Advanced Pipetting at Your Fingertips

Pipetman Ultra is the latest member of the Pipetman family, sharing many of the same characteristics, robustness, accuracy and precision with additional improvements and innovations.

Ultra Comfort in Daily Use



- **Ergonomic design** fits naturally in your hand and requires less effort to use. Less force is needed to set the volume, to pipette and to eject the tip, which makes for smoother pipetting on a daily basis.

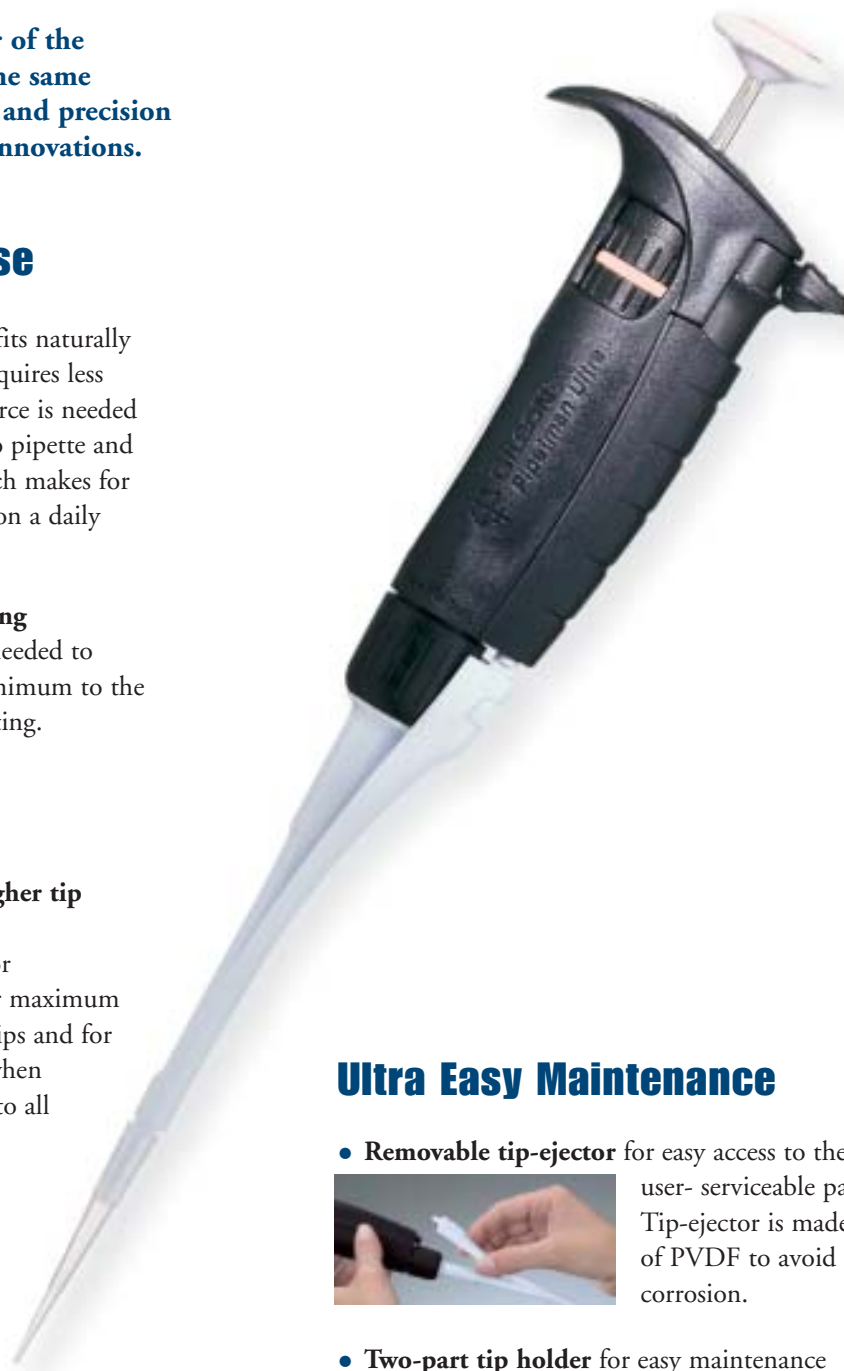


- **Quick volume setting**
Only ten turns are needed to change from the minimum to the nominal volume setting.



- **Easy ejection & higher tip compatibility**
Adjustable tip-ejector stroke (patented) for maximum compatibility with tips and for improved comfort when ejecting tips. Fitted to all models including U5000 and U10ml (not adjustable).

- **Natural movement**
3-position tip-ejector may be set for left or right-handed users, and less force is required to eject the tips.



Ultra Easy Maintenance

- **Removable tip-ejector** for easy access to the user- serviceable parts. Tip-ejector is made of PVDF to avoid corrosion.



- **Two-part tip holder** for easy maintenance and cleaning.



- **Electronic adjustment** is simple, only one tool is needed.



Ultra GLP and Security Features



- **Lockable volume** with on screen display for no risk of volume change during pipetting.
- **Pipetting workflow control**
Two pipetting cycle counters included for quality control and servicing purposes.

- **Color-coded thumb wheel and push button** to identify the model and the corresponding Diamond Tip range.



Ultra Accuracy and Precision



Exclusive patented multifunctional electronic display with greater readability and zero risk of parallax errors.

Pipetman Ultra Models

Model Diamond Tips*	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)
 U2 D10, DL10	F21021	Min. 0.2	±0.024	≤0.012	±0.08	≤0.04
		0.5	±0.025	≤0.012	±0.08	≤0.04
		Max. 2	±0.030	≤0.014	±0.08	≤0.04
 U10 D10, DL10	F21022	Min. 1	±0.025	≤0.012	±0.12	≤0.08
		5	±0.075	≤0.030	±0.12	≤0.08
		Max. 10	±0.100	≤0.040	±0.12	≤0.08
 U20 D200	F21023	Min. 2	±0.10	≤0.03	±0.20	≤0.10
		5	±0.10	≤0.04	±0.20	≤0.10
		10	±0.10	≤0.05	±0.20	≤0.10
		Max. 20	±0.20	≤0.06	±0.20	≤0.10
 U100 D200	F21024	Min. 20	±0.35	≤0.10	±0.80	≤0.30
		50	±0.40	≤0.12	±0.80	≤0.30
		Max. 100	±0.80	≤0.15	±0.80	≤0.30
 U200 D200	F21025	Min. 20	±0.50	≤0.20	±1.60	≤0.60
		50	±0.50	≤0.20	±1.60	≤0.60
		100	±0.80	≤0.25	±1.60	≤0.60
		Max. 200	±1.60	≤0.30	±1.60	≤0.60
 U1000 D1000	F21026	Min. 200	±3	≤0.6	±8	≤3
		500	±4	≤1	±8	≤3
		Max. 1000	±8	≤1.5	±8	≤3
 U5000 D5000	F21027	Min. 1000	±12	≤3	±40	≤15
		2000	±12	≤5	±40	≤15
		Max. 5000	±30	≤8	±40	≤15
 U10ml D10ml	F21028	Min. 1mL	±30	≤6	±60	≤30
		2mL	±30	≤6	±60	≤30
		5mL	±40	≤10	±60	≤30
		Max. 10mL	±60	≤16	±60	≤30

* Recommended tip for establishing maximum permissible errors (ISO 8655 requirement).
A large range of suitable Gilson Diamond tips is available. (See pages 10-13).

More information available at www.gilson.com

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NEW!

PIPETMAN® Ultra

Higher Productivity Through Greater Comfort

Whether you choose the 8 or 12 channel version, only two models of Pipetman Ultra Multichannel are needed to cover the entire volume range from 1 µL to 300 µL.

Comfort

- Designed to fit comfortably into anyone's hand, whatever the size!
- Tipacks and TowerPack have our patented Rocky Rack™ feature making Diamond Tips easy to fit.



GLP

Note that the handle of Pipetman Ultra Multichannel shares the same design and GLP features as the single-channel version (see pages 2-3).

Channel numbers are embossed on the head.



NEW!

DIAMOND Tips D300

- Green signifies 20 – 300 µL in the Diamond Tips range.
- Designed to fit Pipetman Ultra Multichannel 8x300 and 12x300.
- Large choice of packaging to fit your needs and your budget.

(See page 12 for reference numbers)



OUR PIPETTES CONFORM TO
ISO8655

Multichannel

Greater Tip Compatibility

Each model can be fitted with either of two tips



- For 8x20 and 12x20 use DL10 tips.
- For 8x300 and 12x300 use D300 tips.
- D200 can be fitted to any model.



The tip-ejector stroke may be adjusted to match the tips fitted.

Pipetman Ultra Models

Model Diamond Tips*	Reference Number	Volume (μ L)	Gilson Maximum Permissible Errors		ISO 8655 Maximum Permissible Errors	
			Systematic error (μ L)	Random error (μ L)	Systematic error (μ L)	Random error (μ L)
 8x20 12x20 DL10 D200	F21040	Min. 1	± 0.10	≤ 0.08	± 0.40	≤ 0.20
		2	± 0.10	≤ 0.08	± 0.40	≤ 0.20
	F21041	10	± 0.20	≤ 0.10	± 0.40	≤ 0.20
		Max. 20	± 0.40	≤ 0.20	± 0.40	≤ 0.20
 8x300 12x300 D200 D300	F21042	Min. 20	± 1.00	≤ 0.35	± 8.00	≤ 3.00
		30	± 1.05	≤ 0.53	± 8.00	≤ 3.00
	F21043	150	± 1.25	≤ 1.50	± 8.00	≤ 3.00
		Max. 300	± 3.00	≤ 3.00	± 8.00	≤ 3.00

* Recommended tip for establishing maximum permissible errors (ISO 8655 requirement).
A large range of suitable Gilson Diamond tips is available (see pages 10-13).

More information available at www.gilson.com

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PIPETMAN® P

The Pipetting Standard

Pipetman P is a fully adjustable, air-displacement pipette with the selected volume shown on a digital indicator (volumeter). Designed and manufactured to provide you with a range of robust, accurate and precise pipettes. Eight models cover the full range of volumes from 0.2 µL to 10 mL.



The Standard for Robustness

- **Built to last**, constructed of stainless-steel and PVDF (a plastic with very high-resistance to chemical attack).

The Standard for Accuracy and Precision

- **Unique “dry seal” technology** avoids using grease to obtain an adequate airtightness, and guarantees long-term performances.
- **Thick body** (handle) in PVDF to minimize the hand-warming effect during pipetting.
- **Rigorous quality control** - each piston is checked using a microscope.



Easy Maintenance

- **Routine cleaning** is all that is required to keep Pipetman in top condition. No lubrication is required.
- Parts that may come in contact with liquids **are easy to clean or replace**. The tip-holder and tip-ejector are **fully autoclavable**.





- P2 and P10 equipped with **dual position tip-ejector**, allowing the use of Diamond D10 (short) and DL10 (long) tips : a plus for protection and precision when using microrubes.



- P5000 and P10ml are safer and **more accurate than glass pipettes**. They are equipped with a polyethylene filter that prolongs piston life expectancy and prevents contamination.



Pipetman P Models

Model Diamond Tips*	Reference Number	Volume (μ L)	Gilson Maximum Permissible Errors		ISO 8655 Maximum Permissible Errors	
			Systematic error (μ L)	Random error (μ L)	Systematic error (μ L)	Random error (μ L)
P2	F144801	Min. 0.2 0.5 Max. 2	± 0.024 ± 0.025 ± 0.030	≤ 0.012 ≤ 0.012 ≤ 0.014	± 0.08 ± 0.08 ± 0.08	≤ 0.04 ≤ 0.04 ≤ 0.04
P10	F144802	Min. 1 5 Max. 10	± 0.025 ± 0.075 ± 0.100	≤ 0.012 ≤ 0.030 ≤ 0.040	± 0.12 ± 0.12 ± 0.12	≤ 0.08 ≤ 0.08 ≤ 0.08
P20	F123600	Min. 2 5 10 Max. 20	± 0.10 ± 0.10 ± 0.10 ± 0.20	≤ 0.03 ≤ 0.04 ≤ 0.05 ≤ 0.06	± 0.20 ± 0.20 ± 0.20 ± 0.20	≤ 0.10 ≤ 0.10 ≤ 0.10 ≤ 0.10
P100	F1236154	Min. 20 50 100 Max. 100	± 0.35 ± 0.40 ± 0.80	≤ 0.10 ≤ 0.12 ≤ 0.15	± 0.80 ± 0.80 ± 0.80	≤ 0.30 ≤ 0.30 ≤ 0.30
P200	F123601	Min. 50 100 Max. 200	± 0.50 ± 0.80 ± 1.60	≤ 0.20 ≤ 0.25 ≤ 0.30	± 1.60 ± 1.60 ± 1.60	≤ 0.60 ≤ 0.60 ≤ 0.60
P1000	F123602	Min. 200 500 Max. 1000	± 3 ± 4 ± 8	≤ 0.6 ≤ 1 ≤ 1.5	± 8 ± 8 ± 8	≤ 3 ≤ 3 ≤ 3
P5000	F123603	Min. 1000 2000 Max. 5000	± 12 ± 12 ± 30	≤ 3 ≤ 5 ≤ 8	± 40 ± 40 ± 40	≤ 15 ≤ 15 ≤ 15
P10ml	F123201	Min. 1mL 2mL 5mL Max. 10mL	± 30 ± 30 ± 40 ± 60	≤ 6 ≤ 6 ≤ 10 ≤ 16	± 60 ± 60 ± 60 ± 60	≤ 30 ≤ 30 ≤ 30 ≤ 30
P8x200	F161004	Min. 20 50 100 Max. 200	± 0.50 ± 0.50 ± 1.00 ± 2.00	≤ 0.25 ≤ 0.25 ≤ 0.30 ≤ 1.00	± 3.20 ± 3.20 ± 3.20 ± 3.20	≤ 1.20 ≤ 1.20 ≤ 1.20 ≤ 1.20

* Recommended tip for establishing maximum permissible errors (ISO 8655 requirement).
A large range of suitable Gilson Diamond tips is available (see pages 10-13).

PIPETMAN® F

Right Pipette! Right Volume! Right Price!

Pipetman F is a fixed-volume, air-displacement pipette. Thirteen robust models cover a large volume range from 2 µL to 1000 µL, with Pipetman legendary accuracy and precision.

Right Pipette

- **GLP compliance** - no risk of volume selection errors. Using a dedicated fixed-volume Gilson pipette for a specific test assures reliable and consistent results.

Right Volume

- **Can be readjusted by users** in the laboratory, for dense or viscous fluids (once reset the new volume cannot be changed accidentally).

Right Price

- **An economical choice** for clinical diagnostics, quality control, and any routine testing.

Pipetman F Models

Model	Diamond Tips*	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)
 F2	D200	F123770	2	±0.08	≤0.03	±0.08	≤0.04
 F5	D200	F123771	5	±0.10	≤0.04	±0.125	≤0.075
 F10	D200	F123772	10	±0.10	≤0.05	±0.12	≤0.08
 F20	D200	F123774	20	±0.20	≤0.06	±0.20	≤0.10
 F25	D200	F123775	25	±0.25	≤0.07	±0.50	≤0.20
 F50	D200	F123778	50	±0.40	≤0.15	±0.50	≤0.20
 F100	D200	F123784	100	±0.80	≤0.25	±0.80	≤0.30
 F200	D200	F123605	200	±1.60	≤0.30	±1.60	≤0.60
 F250	D1000	F123787	250	±3.00	≤0.75	±4.00	≤1.50
 F300	D1000	F123788	300	±3.50	≤0.75	±4.00	≤1.50
 F400	D1000	F123789	400	±3.60	≤0.80	±4.00	≤1.50
 F500	D1000	F123790	500	±4.00	≤1.00	±4.00	≤1.50
 F1000	D1000	F123606	1000	±8.00	≤1.30	±8.00	≤3.00

* Recommended tip for establishing maximum permissible errors (ISO 8655 requirement).
A large range of suitable Gilson Diamond tips is available (see pages 10-13).

OUR PIPETTES CONFORM TO
ISO8655

PIPETMAN® Pipettes kits

All You Need to Get Started, in a Single Box !

Our Pipette Kits now include the complete Pipetman® range for all of your pipetting needs in the laboratory.

All in One

- Each kit contains two or three classic Pipetman models plus samples of certified-quality Diamond Tips and useful accessories, such as Single Pipette Hangers (except Large Volume Kit).

Economical Price

- Save money when compared to pipettes bought separately.



Pipetman Kits contents

Model	Reference Number	Pipetman models	Diamond Tips (racks of 96 tips)	Accessories
Pipetman Micro-Volume Kit	F167500	P2 P10 P100	Sterilized FilterTips DFL10ST and DF100ST	• 3 Single Pipette Hangers • 10 Coloris identification clips • 1 Gilson Guide to Pipetting
Pipetman Starter Kit	F167300	P20 P200 P1000	D200 and D1000	• 3 Single Pipette Hangers • 10 Coloris identification clips • 1 Gilson Guide to Pipetting
Pipetman Large-Volume Kit	F167400	P5000 P10ml	5 x D5000 tips 2 x D10ml tips (no racks)	• 2 x 10 protection filters for P5000 and P10ml



OUR PIPETTES CONFORM TO
ISO8655

More information available at www.gilson.com

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DIAMOND® Tips

High Quality Tips for High Quality Pipettes

Quality Tips

- **Traceability**

From the mold to the bench, the batch number is traceable.



- **Totally autoclavable**

All the range of Diamond Tips can be autoclaved (121°C, 0.1MPa, 20 min), even filter tips.

- **Fine point and flexibility**

The last droplet is easier to dispense.



- **Perfect Air tightness**

As Gilson manufactures both Pipetman and Diamond Tips, the diameters of the tip-collar and tip holder are calculated to fit perfectly.

- **Color coded**

for easy identification. Diamond packaging and labels are color coded for volume recognition at a glance.



- **Gilson Logo**

guarantees quality according to ISO 8655 requirements, Diamond Tips and Pipetman pipettes are the complete pipetting system.

- **Level marks**

These marks mean that a quick glance at the tip is all that is needed to check quickly the volume.

For DL10: 2 µL and 10 µL.

For D200: 20 µL and 100 µL.

For D1000: 300 µL.

- **Pure polypropylene**

No dyes, no additives.

Just translucent.

Avoids liquid retention.

DIAMOND Tips Tower Pack™ Refill System

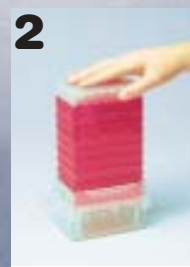
Easy, simple, practical, and available sterilized



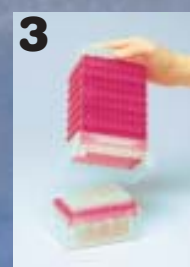
- The red sticker guarantees sterilization.
- The same universal reload box for all Diamond Tips simplifies your work.



1 Just place the Tower pack over the empty box



2 Press down



3 96 tips snap into place

NEW !

D5000 and D10ml in TIPACK™ Racks*

- D5000 & D10ml have been designed to fit perfectly with Pipetman Ultra U5000 & U10ml (See pages 2 & 3).
- Tips are easy to pick-up directly from the rack.



D10ml Tipack of 30 tips



D5000 Tipack of 50 tips

Item	Reference Number
Tipack D5000 (12 Tipacks of 50 tips)	F161370
Tipack D10ml (8 Tipacks of 30 tips)	F161230

* Available soon!

More information available at www.gilson.com

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DIAMOND® Tips

Large Choice of Packaging to Fit Your Activity and Budget

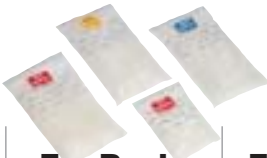


	Color coding	Pipette models	Volume range	Tipack Dia 10 Tipacks of Autoclavable
	D10	P2 P10 U2 U10	0.2 - 10 µL	F161632
	DL10	P2 P10 U2 U10 8x20 12x20	0.2 - 20 µL	F161452
	D200	P20 to P200 U20 to U200 8x200 8x20 12x20 8x300 12x300	2 - 200 µL	F161932
	D300	8x300 12x300	20 - 300 µL	F161732
	D1000	P1000 U1000	200 - 1000 µL	F161672
	D5000	P5000 U5000	1 - 5 mL	F161370 (12 Tipacks of 50 tips)
	D10ml	P10ml U10ml	1 - 10 mL	F161230 (8 Tipacks of 30 tips)

Work safely with the Diamond Filter Tips

	DF10	P2 P10 U2 U10	0.2 - 10 µL	F161710
	DFL10	P2 P10 U2 U10 8x20 12x20	0.2 - 10 µL	F161454
	DF30	P20 U20 8x20 12x20	2 - 30 µL	F161935
	DF100	P100 U100	20 - 100 µL	F161939
	DF200	P200 U200 8x200	20 - 200 µL	F161936
	DF300	P200 U200 8x300 12x300	20 - 300 µL	F161734
	DF1000	P1000 U1000	200 - 1000 µL	F161770

OUR PIPETTES CONFORM TO
ISO8655

										
Diamond Tips: 96 racked tips	Tower Pack: refill system for Diamond Tips 10 racks of 96 tips		Steril-Pack: 400 tips individually wrapped	EcoPack: box of 10,000 tips (10 bags of 1,000)	EasyPack: box of 1,000 tips (5 bags of 200)	Empty Racks (set of 2)				
γ-Ray sterilized	Autoclavable	γ-Ray sterilized								
F161905	F167101	F167201	F161310	F161630	F161631	F161791				
F161455	F167102	F167202	F161320	F161450	F161451	F161393				
F161937	F167103	F167203	F161330	F161930	F161931	F161391				
F161735	F167105	F167205	-	F161730	F161731	F161737				
F161975	F167104 (7 racks of 96 tips)	F167204 (7 racks of 96 tips)	F161340	F161670	F161671	F161793				
-	<table><tr><th>Item</th><th>Reference Number</th></tr><tr><td>Universal reload box</td><td>F167100</td></tr></table>		Item	Reference Number	Universal reload box	F167100	-	-	F123969	F161360 (1 rack)
Item	Reference Number									
Universal reload box	F167100									
-			-	-	F161210 (200 tips)	F161220 (1 rack)				

F161633
F161453
F161933
F161938
F161934
F161733
F161673

No Contamination



- Diamond Filter Tips are autoclavable.
- Available free of detectable RNase, DNase, DNA, RNA and protease.

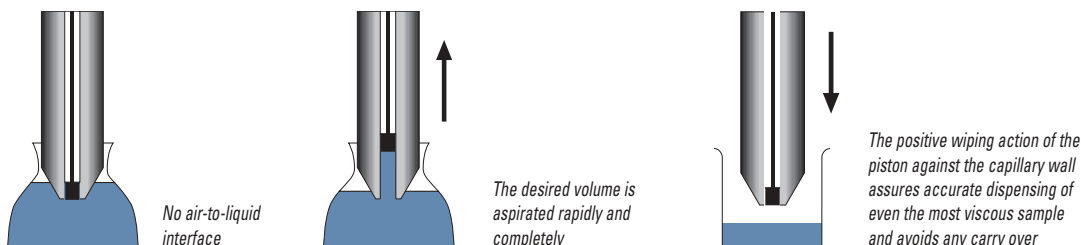
FREE of
Nucleic acid, Nuclease
Protease and Metal



- The date of sterilization and the red sticker guarantee sterilization.
- All sterilized Diamond Tip packagings are wrapped in medical device quality plastic, which provides a complete shield against contamination.

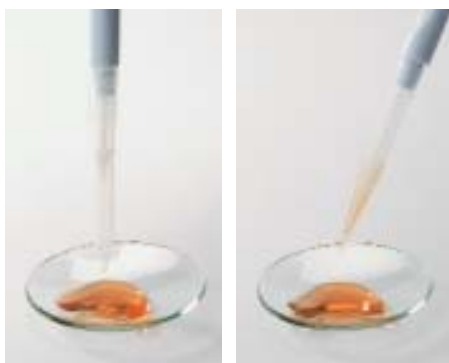


Positive Displacement Pipette



Proven Accuracy and Precision

- Can pipette **all kinds of liquid** with a high degree of accuracy and precision.
- **Large volume range** from 1 μL to 1000 μL .
- Capillary Pistons (CPs) are precision molded from chemical resistant, non wetting polypropylene.
- **No need for calibration** when you change the capillary - piston.



Positive displacement pipette - no viscous liquid remains in the capillary-piston.

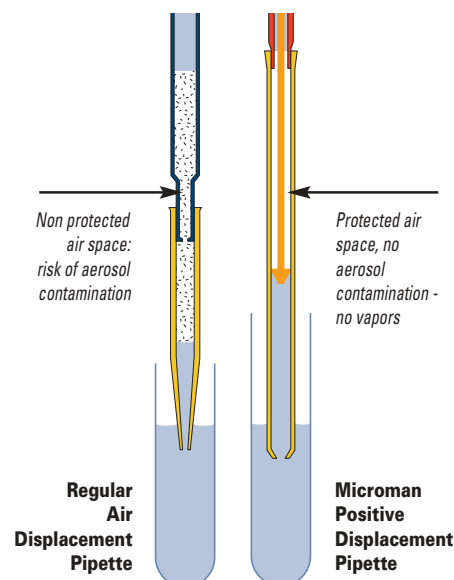
Air displacement pipette - viscous liquids adhere to the inside wall of the tip.

Complete and rapid pipetting of viscous, dense, volatile or above temperature samples

The best choice for PCR and Biological samples

Safest Pipette Contamination Free Pipetting

- **Prevents** aerosol formation.
- **Protects** against residual sample carry-over.
- **Unbreakable** plastic capillary and piston.
- **Built-in tip ejector**, no need to touch the disposable CP.
- Capillary Pistons are certified **free of** detectable RNase, DNase, RNA, DNA and protease.



MICROMAN and Capillary Pistons



LIQUID APPLICATIONS

- Whole blood
- Syrup
- Oil
- Glycerol
- Solvents, alcohol
- Cosmetic cream
- Mercury
- Nitric acid 65%
- Tetrahydrofuran
- DNA fragments
- PCR templates
- Enzyme solutions
- Radio-labelled compounds

Microman Models

Model (Capillary Piston)	Reference Number	Volume (μ L)	Gilson Maximum Permissible Errors		ISO 8655 Maximum Permissible Errors	
			Systematic error (μ L)	Random error (μ L)	Systematic error (μ L)	Random error (μ L)
 M10 (CP10)	F148302	Min. 1	± 0.06	≤ 0.02	± 0.20	≤ 0.10
		5	± 0.10	≤ 0.03	± 0.20	≤ 0.10
		Max. 10	± 0.15	≤ 0.05	± 0.20	≤ 0.10
 M25 (CP25)	F148002	Min. 3	± 0.15	≤ 0.06	± 0.70	≤ 0.30
		10	± 0.17	≤ 0.08	± 0.70	≤ 0.30
		Max. 25	± 0.25	≤ 0.10	± 0.70	≤ 0.30
 M50 (CP50)	F148003	Min. 20	± 0.34	≤ 0.12	± 0.70	≤ 0.30
		-	-	-	-	-
		Max. 50	± 0.50	≤ 0.15	± 0.70	≤ 0.30
 M100 (CP100)	F148304	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)	F148004	Min. 50	± 1.50	≤ 0.20	± 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)	F148005	Min. 200	± 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

Reference number	Capillary Piston	Microman Model	Quantity/Box	Sterilized	Assembled	Racked in Tipack
F148412	CP10	M10	192	No	Yes	Yes
F148312	CP10	M10	960	No	Yes	Yes
F148413	CP10ST	M10	192	Yes	Yes	Yes
F148313	CP10ST	M10	960	Yes	Yes	Yes
F148112	CP25	M25	200	No	No	No
F148113	CP50	M50	200	No	No	No
F148414	CP100	M100	192	No	Yes	Yes
F148314	CP100	M100	960	No	Yes	Yes
F148415	CP100ST	M100	192	Yes	Yes	Yes
F148315	CP100ST	M100	960	Yes	Yes	Yes
F148114	CP250	M250	200	No	No	No
F148145	CP1000	M1000	200	No	Yes	No
F148180	CP1000ST	M1000	182	Yes	Yes	Yes

FREE of
Nucleic acid, Nuclease
Protease and Metal



More information available at www.gilson.com

DISTRIMAN[®] and DistriTips[®]

Simplify Repetitive Pipetting

Distriman is a positive-displacement, continuously adjustable repeater-pipette to simplify multiple dispensing when used with Gilson pure-polypropylene DistriTip syringes.

Direct Volume Readout

- With the Distriman you can dispense **the exact volume**, eliminating **tedious calculations**.

Only 3 Syringes Are Needed

- Micro 125 µL, Mini 1250 µL and Maxi 12.5 mL cover the **entire volume range** (from 1 µL to 1.25 mL). DistriTips are the only syringes capable of dispensing **at least 100 aliquots**.

Wide Selection of Packaging Options

- Each model of DistriTip is available in **standard** or **sterilized (ST)** version, in boxes of 50 syringes. Sterilized DistriTips are **individually wrapped** and certified **free of RNase, DNase, DNA, RNA** and protease.



Distriman

Reference Number F164001

DistriTips (box of 50 syringes)

Model	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)
125 µL - 1 µL to 12.5 µL		Min. 2	±0.100	≤ 0.080	±0.20	≤ 0.10
Micro	F164100	5	±0.125	≤ 0.075	±0.20	≤ 0.10
Micro ST	F164130	Max. 10	±0.200	≤ 0.100	±0.20	≤ 0.10
1250 µL - 10 µL to 1250 µL		Min. 20	±0.80	≤ 0.20	±1.50	≤ 0.60
Mini	F164110	50	±1.00	≤ 0.40	±1.50	≤ 0.60
Mini ST	F164140	Max. 100	±1.00	≤ 0.60	±1.50	≤ 0.60
12.5 mL - 100 µL to 1.25 mL		Min. 200	±6.00	≤ 1.00	±12.00	≤ 4.00
Maxi	F164120	500	±7.50	≤ 1.50	±12.00	≤ 4.00
Maxi ST	F164150	Max. 1000	±10.0	≤ 2.50	±12.00	≤ 4.00

ST means sterilized syringes (individually wrapped).

OUR PIPETTES CONFORM TO
ISO8655

402 Dilutor-Dispenser

Liquid Handling at the Touch of a Button

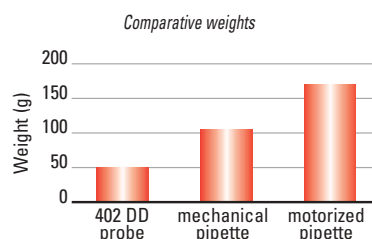
Increase productivity with Gilson's 402 Dilutor Dispenser, because it's faster than any other pipettor for repetitive liquid transfer and is fully programmable (save and recall up to 99 methods).

GLP Compliance

- **Eliminates** technician-to-technician variability.
- **Calibration** certificate, IQ/OQ procedure.
- **Coded** protection of methods.
- **LED indicator** on the probe for error free manipulation.

Comfortable

- **Just push** the button -same comfort as a motorized pipette.
- **With a light weight probe,** less than 50g.



Outperforms the Competition

- Handles volumes **from 1 μ L to 99 mL**.
- **Compensation** of the liquid temperature and viscosity.

9 Prestored Tasks

- **Dilute, dilute serially, dispense** (aliquots or variable volumes), **pipette, rinse, mix, titrate, measure unknown volume and prime.**



Available Models (without syringes, which are sold separately)	Reference Number
402 Dilutor-Dispenser, single-syringe, 110-220V	F410514
402 Dilutor-Dispenser, single-syringe, 220V (French version)	F410514F
402 Dilutor-Dispenser, dual-syringe, 110-220V	F410515
402 Dilutor-Dispenser, dual-syringe, 220V (French version)	F410515F

Additional Accessories	Reference Number
Adapter Kit for disposable tips	F4015015
Syringe, 100 μ L	25025341
Syringe, 250 μ L	25025342
Syringe, 500 μ L	25025347
Syringe, 1 mL	25025343
Syringe, 5 mL	25025344
Syringe, 10 mL	25025345
Syringe, 25 mL	25025346

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No contamination :
the probe may
be fitted with
Diamond Tips



More information available at www.gilson.com

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NEW!

Gilson Pipetting Aid

Rapid and Controlled Pipetting with Precision and Safety

Comfortable

- **Ergonomic design** for increased user comfort.
- Motorized operation.
- Precise and smooth finger tip control of **variable speed range**.



"Wings" to enable you to rest it on the bench.

High Performance

- **Powerful battery**, continuous work for 8 hours (Environmentally friendly NiMH).
- Works with **all standard pipettes**.
- Fills 25 mL pipette in 4 seconds.
- Selectable operation modes according to **volume and viscosity**.

Safe to Use

- Safety valve and filter **prevent contamination**.
- All parts in contact with liquid are **autoclavable**.
- **CE certified**.



Tip adaptor for D5000 and D10ml with filter. Sterile and economical solution to handle liquid volumes from 1 mL to 10 mL

Description	Reference Number
Gilson Pipetting Aid (220V/50Hz) with European standard plug	F161250
Gilson Pipetting Aid (220V/50Hz) without power Supply	F161240
Charging stand	F161288
Adaptor for D5000 and D10ml Diamond Tips	F161287
Pipette holder	F161256
Nose-piece	F161249
Nose-piece hanger	F161253
PTFE autoclavable filter 0.2 µm (5 units)	F161245
PTFE autoclavable filter 0.45 µm (5 units)	F161246

If you want to order a Gilson Pipetting Aid with a US, UK, or other a country's power supply, please contact your local Gilson distributor.

OUR PIPETTES CONFORM TO
ISO8655



Charging and storage stand. The Gilson Pipetting Aid is always fully charged and ready to use.

Pipette Accessories

Quality Accessories for Quality Pipettes

Gilson accessories are of the same high quality as Gilson pipettes. Gilson considers accessories as a part of the pipetting system. All pipettes should be stored vertically to avoid the possibility of liquid running back into, and contaminating or corroding, the interior of the pipette.

Carrousel™ Pipette Stand

- A convenient, rotating stand—holds up to seven Gilson pipettes (any model) with exceptional stability. Protects your precious pipettes from possible damage or contamination.



Trio™ Pipette Stand

- Trio is a portable pipette stand that keeps your Gilson pipettes within easy reach. A great accessory for use in fume hood.



Single™ Pipette Holder*

- An adhesive-backed holder, designed for use where space is limited (fume hoods, sterile hoods, etc.). Sticks to any smooth, dry surface without damage. Resistant to chemicals and UV light.



Coloris™ Identification Clips

- GLP friendly, new brightly colored clips are used to identify or personalize your Pipetman pipette. Made of polyacetal, Coloris clips accept permanent ink - they just snap into place.



Pipetman® Ultra Name Tags

- Personalize your Pipetman Ultra by writing your name or application on one of the color coded stickers (protected by the plastic window).

* Suitable for all Gilson pipettes except for the Pipetman Ultra range. New single holder will soon be available for all Gilson pipettes.

Description	Reference Number
Carrousel pipette stand, for 7 Gilson pipettes	F161401
Trio pipette stand, for 3 Gilson pipettes	F161405
Single pipette holder	F161402
Coloris Clips, bag of 10 (mixed colors)	F161301
Coloris Clips, bag of 10 (mixed colors)	F161302
Coloris Clips, bag of 10 (mixed colors)	F161303
Coloris Clips, bag of 10 (mixed colors)	F161304
Coloris Clips, bag of 10 (mixed colors)	F161305
Coloris Clips, bag of 10 (mixed colors)	F161306
Pipetman Ultra Name Tags (set of 5 colors)	F2070901



More information available at www.gilson.com

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MINIPULS 3

Gilson's Reliable Solution for Laboratories

High Performance and Versatile

- **Pulse-free flow** (10 stainless steel rollers!).
- Excellent flow-rate **accuracy and reproducibility**.
- **Wide flow-rate range** from 0.3 $\mu\text{L}/\text{min}$ to 220 mL/min .
- Wide tubing-size range from 0.25mm to 8mm.
- Operates at **higher pressures** than competitor products (up to 0.5 MPa).
- **Low noise** operation.

The key to a successful peristaltic-pump application is to optimize the selection of the pump-head, tubing and drive. In addition to an outstanding peristaltic pump, Gilson supplies high quality tubings and connectors.

Reliable and Robust

- **High chemical resistance** material (drive module and pump heads).
- Motor speed stability (high torque stepper motor).
- **High quality tubing** for better reproducibility and longer life.
- Built-in **overflow system**, in case of tubing leakage.

Easy to Use

- **Ready to use**, can be installed within minutes.
- Digital keypad.
- **Quick change** of pump head.
- Easy to integrate into your system.

Complete information on tubing materials and flow rates is available from your local distributor and to be found on the Gilson web-site.



OUR PIPETTES CONFORM TO
ISO8655

Peristaltic Pump



Adjustable cams allow fine flow-rate adjustment to minimize tubing wear



Two-stop calibrated tubing makes it easy to install tubing on the pump head.

Tubing Material	PVC	Silicone	Pharmed	Isoversinic (Viton)
Composition	Polyvinyl chloride	Silicone elastomer	Polypropylene-based material	Fluorinated elastomer
Physical characteristics	Transparent clear	Translucent beige	Opaque beige	Opaque black
Temperature range	Up to 94°C	Up to 230°C	-60 to 135°C	-20 to 200°C
Standards			FDA food quality (FDA 21CFR 177.26000) USP class VI	
Gas permeability	Low	High	Low	Impermeable to most gases
Sterilization	Autoclaving	Autoclaving or irradiation	Autoclaving	Autoclaving
Range of internal diameter	0.25 to 8 mm	0.6 to 7 mm	0.5 to 6.4 mm	0.5 to 6.0 mm
Other features	Low cost	Excellent biocompatibility	Long tubing life	Excellent resistance to strong acids, oxidizing agents
Applications	General use	Biological	Pharmaceutical and food	Where high chemical resistance is required

Pharmed is a Trademark of Norton Performance Plastics Corp., Akron, OH, USA.

Maximum flow rate depending on the pump head and tubing (complete table available on Gilson web site).
Approx. values: determined with water (grade 3 ISO 3696) at 21.5°C, no differential pressure.

The information in the table related to tubing materials has been supplied to Gilson by the manufacturers and is for guidance only - Gilson recommends that you test the tubing before use.

Item	Max Flow Rate	Number of channel	Reference Number
Speed Control Module			F155001
R1 Pump Head	up to 30 mL/min	1	F117604
R2 Pump Head	up to 30 mL/min	2	F117800
R4 Pump Head	up to 30 mL/min	4	F117606
R8 Pump Head	up to 30 mL/min	8	F117608
R2/HF Pump Head (High Flow)	up to 220 mL/min	2	F117830
R4/HF Pump Head (High Flow)	up to 220 mL/min	4	F117831

More information available at www.gilson.com

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Customized Service

At Gilson, we believe that the quality of our pipettes must be matched by the quality of our service. That is why we have a network of authorized service centers in more than 50 countries around the world. These repair and calibration centers duplicate the conditions at our own factory, with its controlled environment and regular inspections.

The service centers are regularly tested by Gilson to verify their servicing skills. Qualified technicians at these centers, having completed extensive training by Gilson, are specialists in the repair, calibration, and operation of our products according to ISO 8655 standard and Good Laboratory Practice (GLP) requirements. To support your standard operating procedures (SOPs), Gilson also offers a range of technical documents covering performance checking and decontamination process of your pipette (contact your local Gilson distributor or refer to the Gilson website).

Gilson Service Centers

You may send your pipettes to the nearest Gilson Service Center – Contact your local Gilson representative for information. Service provided includes:

- **Diagnosis, repairs, and calibration** – according to the tariff applicable at the Gilson Service Center
- **Preventive maintenance contract** to establish an agreement with the Gilson Service Center to implement the level of service most appropriate to your needs (what, how often, number of pipettes, cycle time, etc.)
- **Calibration by gravimetric methods** to check the performance of your pipettes according to ISO 8655 standard.

Our goal is to ensure that all of your serviced Gilson Pipettes are as good as new!



On-Site Service

Gilson's qualified technicians are available to visit your facility for any of the following :

- **Diagnosis:** Check that your Gilson pipettes function correctly and are mechanically sound.
- **Repairs:** Replacement of basic or complex components.
- **Updating Pipetman:** Systematic replacement of key components with upgraded parts.
- **Pipette Clinics:** Servicing of all Gilson pipettes. Servicing may include cleaning, decontamination, repair, (adjustment if needed) and calibration.

Contact your nearest Gilson Service Center for availability of these offer and details.



Training

Gilson conducts comprehensive seminars to “train the trainers”. This gives your local representative the knowledge to provide you with the best service possible on the use, maintenance, and calibration of your Gilson pipettes. He can offer you extensive pipette training, covering topics such as:

- Use and applications.
- GLP requirements, quality control, applicable standards, ensuring traceability, and keeping records
- Preventive maintenance and calibration (where appropriate).

Pipetman Service Pack*

NEW !

No paperwork, no quotations! Just return the coupon with your pipette to your local Gilson Distributor to maintain your pipette performance for two years at an economical price.

In every Pipetman Service Pack, you get the pipetting standard along with Gilson's service expertise for two years. Each Service Pack contains:

- Pipetman, accessories, and User's Guide.
- Coupons for FREE service in the first year after purchase and one half-price service in the second year.
- Warranty is extended to two years from the date of purchase.
- Gilson assures services through your local distributor.

*Not available in all countries. Please contact your local Gilson distributor for more information.



Performance Checking by Yourself: Weighing Kit

The weighing kit is intended for end-users to use to check the performance of their pipettes. It consists of four containers (of different sizes), filters, and tweezers, suitable for the gravimetric method.



Item	Reference Number
Pipetman Service Pack P2	F144803
Pipetman Service Pack P10	F144804
Pipetman Service Pack P20	F123810
Pipetman Service Pack P100	F123825
Pipetman Service Pack P200	F123611
Pipetman Service Pack P1000	F123612
Pipetman Service Pack P5000	F123613
Pipetman Service Pack P10ml	F161203

Weighing Kit	F144700
QualiTrace	F147608

QualiTrace™: Quality Management Software for Pipettes

QualiTrace is a complete calibration and quality management package for GLP laboratories. The software is compatible with all Gilson pipettes.

- Software is easy to configure for gravimetric calibration and is compatible with any balance. Use the standard method or enter your own parameters (number of weighings, volumes, temperature, pressure, etc.).
- QualiTrace automatically manages the calibration protocol with direct transfer of the measurements from the balance to the software, which: establishes the calibration schedule, guides the user through the weighing process, calculates accuracy and precision, accepts or rejects the pipette, and prints a calibration report.
- The audit trail features record entries by the user and any changes in key setup options. Complete device history is conserved intact.



More information available at www.gilson.com

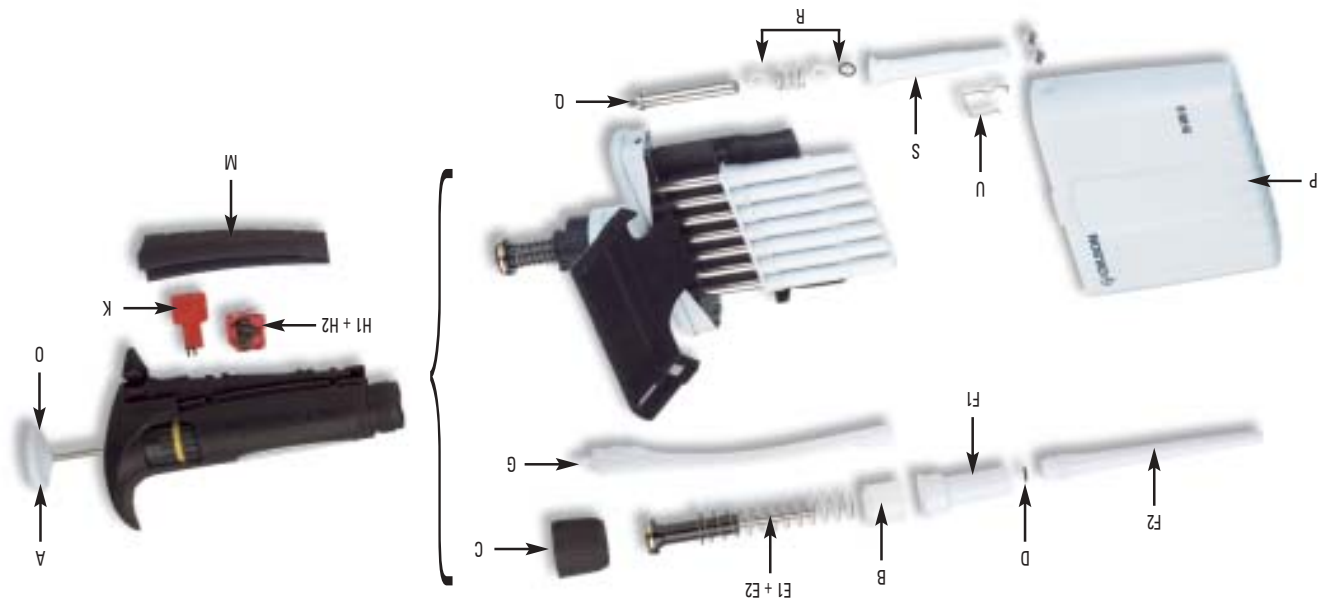
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PIPETTE Replacement Parts

Gilson replacement parts are validated according to a strict quality control program. They are engraved with the Gilson logo to give you the assurance that your pipette is repaired with genuine spare parts, ensuring top-level performance and trouble-free pipetting. Gilson spare parts are only available from your local, authorized Gilson representative.



Pipetman Ultra Single-channel and Multichannel Replacement Parts



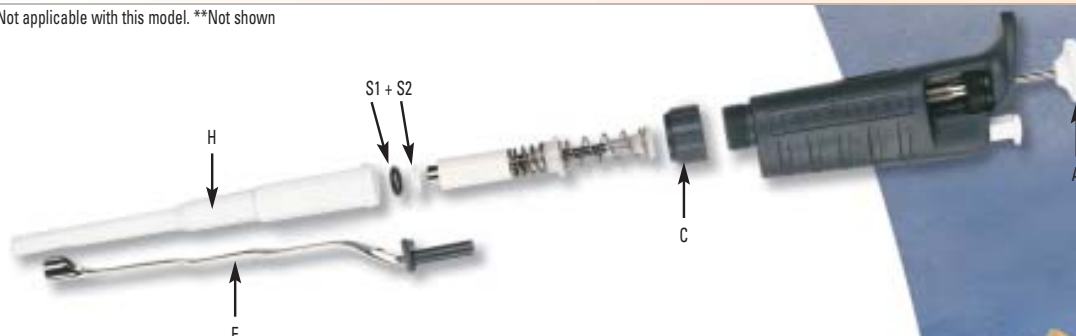
Pipetman Ultra Replacement parts		key	U2	U10	U20	U100	U200	U1000	U5000	U10ml
Item		key	A	F2070152	F2070252	F2070352	F2070452	F2070552	F2070652	F2070752
Push-Button Assembly										
Spring guide		B	F2070103	F2070103	F2070103	F2070103	F2070103	F2070103	F2070103	*
Seal for U2 & U10 (or O-ring for other models)		D	F161901	F161902	F161903	F2070401	F2070501	F2070601	F2070701	F2070801
Piston		E1	F2070160	F2070260	F2070360	F2070460	F2070560	F2070660	F2070760	F2070860
Return Spring for piston		E2	F2070113	F2070113	F2070113	F2070113	F2070113	F2070113	F2070113	*
Tip Holder, upper part		F1	F2070117	F2070117	F2070117	F2070417	F2070517	F2070617	F2070718	F2070818
Tip Holder, lower part		F2	F2070118	F2070218	F2070318	F2070418	F2070518	F2070618	*	
Tip Ejector Assembly		G	F2070159	F2070159	F2070359	F2070459	F2070559	F2070659	F2070759	F2070859
Tip Ejector extension for U2 & U10		**	F2070903	F2070903	*	*	*	*	*	*
Connecting Nut***		C	F2072111	F2072111	F2072111	F2072111	F2072111	F2072111	*	
Battery Holder****		H1	F2070158	F2070158	F2070158	F2070158	F2070158	F2070158	F2070158	F2070158
Battery, flat 1.5 V***		H2	F20710	F20710	F20710	F20710	F20710	F20710	F20710	F20710
Recalibration tool****		K	F20751	F20751	F20751	F20751	F20751	F20751	F20751	F20751
Battery Compartment Cover****		M	F2072107	F2072107	F2072107	F2072107	F2072107	F2072107	F2072107	F2072107
Plastic window****		N	F2072102	F2072102	F2072102	F2072102	F2072102	F2072102	F2072102	F2072102
Lubricant Tube 2.5g***		**	*	*	*	*	*	*	*	*
Pipetman Ultra Multichannel Replacement parts		Reference Number								
Item	key	8X20	12X20	8X300	12X300					
Push-Button Assembly	O	F2073052	F2073152	F2073252	F2073352					
Cover Ejector	P	F2073059	F2073159	F2073259	F2073359					
Piston Assembly	Q	F2073060	F2073060	F2073260	F2073360					
AirTighness kit	R	F2073065	F2073065	F2073265	F2073365					
Tip-Holder Assembly	S	F2073063	F2073063	F2073263	F2073363					
Reassembly tool	**	F2073001	F2073001	F2073201	F2073301					
Wire clip	U	F207306407	F207306407	F207306407	F207306407					

* Not applicable with this model.
** Not shown
*** Suitable for Pipetman Ultra Multichannel

Pipetman P Replacement Parts

Pipetman P Replacement parts		Reference Number							
Item	key	P2	P10	P20	P100	P200	P1000	P5000	P10ml
Push-Button Assembly, volume setting	A	F144781	F144782	F144783	F144784	F144785	F144786	F144787	F161281
Seal & O-ring (set of 5)	S1 + S2	F144861	F144862	F144863	F144864	F144865	F144866	F144867	F161829
Tip Holder	H	F144816	F144819	F123353	F144602	F123305	F123371	F123608	F161263
Connecting Nut	C	F123654	F123654	F123654	F123654	F123654	F123654	*	*
Adapter for Dual-position Tip Ejector (plastic part only, set of 5)	**	F144879	F144879	*	*	*	*	*	*
Tip Ejector Assembly for P2 & P10	**	F144876	F144876	*	*	*	*	*	*
Tip Ejector Assembly	E	*	*	F123657	F144605	F123658	F123659	*	*

* Not applicable with this model. **Not shown



Pipetman F, 8X200 and Distriman Replacement Parts

Pipetman F Replacement parts		Reference Number			
Item		F2 to F20	F25 to F100	F200	F250 to F1000
Piston Assembly		F123845	F144611	F123846	F123847
Seal & O-ring (set of 5)		F144863	F144864	F144865	F144866
Connecting Nut		F144723	F144723	F144723	F144723
Tip Ejector		F144766	F144767	F144768	F144769
Tip Holder		F123353	F144602	F123305	F123371
Calibration key		F123674	F123674	F123674	F123674

Refer to the User's Guide (LT801118) for details

Pipetman 8X200 Replacement parts	
Item	Reference Number
Push-Button Assembly	F1861081
Nozzle/Piston Assembly	F161067
Silicon Grease	F1485012
Spring (internal)	F1861072
Cover (plus screws)	F1861073

Refer to the User's Guide (LT801236) for details

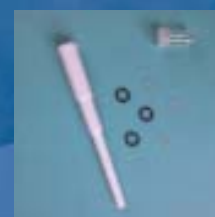
Distriman Replacement parts	
Item	Reference Number
Push-Button Assembly	F164040
Piston Retaining Assembly	F164070
Red flag (set of 5)	F164042
Retaining Spring	F1864052

Refer to the User's Guide (LT801285) for details

Maintenance Kits for Pipetman P and F

These include: piston seals, O-rings, and one tip-holder.

Maintenance Kits								
Model	P2	P10	P20	P100	P200	P1000	P5000	P10ml
			F2 to F20	F25 to F100	F200	F250 to F1000		
Reference Number	F144501	F144502	F144495	F144496	F144497	F144498	F144499	F144503



More information available at www.gilson.com

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Gilson, Inc. and Gilson S.A.S. are ISO 9001 certified.

