

PIPETMAN[®]

*The
Pipetting
Standard*



*Accuracy,
precision,
and robustness...*



*... the standard choice for all
laboratory pipetting needs.*

The Pipetting Standard!

For 30 years, the legendary **PIPETMAN**[®] has been designed and manufactured to provide you with a range of robust, accurate, precise, fully adjustable air-displacement pipettes for use in your daily work.



PIPETMAN P

The Standard for Accuracy and Precision

All of the parts used to manufacture **PIPETMAN**[®] are carefully checked by Gilson's Quality Department. A stainless-steel micrometer and piston form the central mechanism of this precision instrument. Using a microscope, each piston is inspected, with zero-defect tolerance.

Individually calibrated, a performance check report is included with each **PIPETMAN**[®].

A unique engraved Identification Number allows perfect traceability.

In combination with Gilson certified Diamond[®] Tips, **PIPETMAN**[®] provides a safe, reliable pipetting system.



Performance Check Report

Identification	
Model:	P200
Volume range:	50 µl to 200 µl
Serial N°:	Z10010Z
Tips:	D200

Operating Conditions	
Balance N°:	12
Sensitivity:	10 ⁻⁵ g
Correction factor Z (µl/mg):	1.0032
Correction for evaporation:	NONE
Basis of adjustment:	Ex

Control	
Date:	02 DEC 1999
Inspected by:	NG

Gravimetric Data	
Weighings:	49.83 mg
	49.94 mg
	49.81 mg
	50.00 mg
Mean:	49.90 mg

Volumetric Data	
Mean:	50.06 µl
Accuracy:	0.06 µl
E%:	0.12
Repeatability:	0.09 µl
SD%:	0.18

Gravimetric data has been converted from mg to µl for distilled water.

Results	
Low volume setting:	50 µl - PASS
High volume setting:	200 µl - PASS

The PASS status indicate that this pipette is in conformity with the specification.

The Standard for Robustness

All Gilson pipettes are built to last, constructed of stainless-steel and PVDF for years of dependable use.

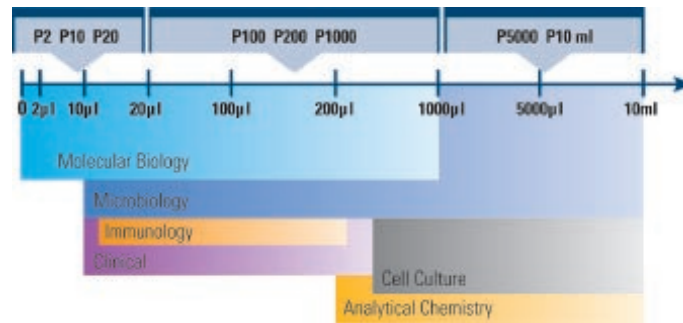
After 5 or even 10 years of normal use, **PIPETMAN**[®] will give the level of performance of a new pipette. This durability equates to a very low cost of ownership.

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. A plastic connector makes removal and replacement of the tip-ejector very easy.



The Standard of Choice for Each Application

Eight models cover the full range of volumes from 0.2 μ l to 10 ml, for most demanding tasks
- clinical, research or control laboratories.



PIPETMAN P2, P10

- Ideal for molecular biology techniques (PCR*, DNA sequencing, gel loading, etc...).
- Accurate and precise down to 0.1 μ l (**).
- Dual position tip ejector.
- A plastic adapter allows the use of Diamond D10 (short) or DL10 (long) tips: a plus for protection and precision with microtubes.

(*) PCR process is covered by US Patents owned by Hoffmann-La Roche, Inc.
(**) for a P2, with a good pipetting technique.

PIPETMAN P5000 & P10ml

- Ideal for large volume dispensing.
- Safer and more accurate than glass pipettes, with polyethylene filter that prolongs piston life and prevents contamination.
- P10 ml features a “damped” piston mechanism that prevents bubbles, vortexing and splashing within the tip.





PIPETMAN F

Same Family but Dedicated to Reliable Results, at Low Cost

PIPETMAN® F is a fixed volume air-displacement pipette. Thirteen robust models cover a large volume range, from 2 µl to 1000 µl, with Gilson's legendary accuracy, precision and robustness. You can dedicate one pipette to a particular test or application.

- An economical choice for clinical diagnostics, quality control and any routine testing.
- GLP compliance : no risk of volume selection errors. Using a dedicated fixed volume Gilson pipette for a specific test assures reliable and consistent results.
- Can be adjusted by users in the laboratory, to compensate for dense or viscous fluids.



PIPETMAN F Range of Models

Model (Diamond Tips)	Volume (µl)	Accuracy (systematic error)		Precision (random error)		Model	Reference Number
		Absolute µl	Relative %	Absolute S.D. µl	Relative S.D. %		
F2 (D10, DL10)	2	± 0.10	± 5.00	≤ 0.03	≤ 1.5	F2	F123770
F5 (D10, DL10)	5	± 0.10	± 2.00	≤ 0.04	≤ 0.8	F5	F123771
F10 (D10, DL10)	10	± 0.10	± 1.00	≤ 0.05	≤ 0.5	F10	F123772
F20 (D200)	20	± 0.20	± 1.00	≤ 0.06	≤ 0.3	F20	F123604
F25 (D200)	25	± 0.25	± 1.00	≤ 0.07	≤ 0.3	F25	F123775
F50 (D200)	50	± 0.40	± 0.80	≤ 0.15	≤ 0.3	F50	F123778
F100 (D200)	100	± 0.80	± 0.80	≤ 0.25	≤ 0.25	F100	F123784
F200 (D200)	200	± 1.60	± 0.80	≤ 0.30	≤ 0.15	F200	F123605
F250 (D1000)	250	± 3.00	± 1.20	≤ 0.75	≤ 0.30	F250	F123787
F300 (D1000)	300	± 3.50	± 1.70	≤ 0.75	≤ 0.25	F300	F123788
F400 (D1000)	400	± 3.60	± 0.90	≤ 0.80	≤ 0.20	F400	F123789
F500 (D1000)	500	± 4.00	± 0.80	≤ 1.00	≤ 0.20	F500	F123790
F1000 (D1000)	1000	± 8.0	± 0.80	≤ 1.30	≤ 0.13	F1000	F123606

PIPETMAN P Range of Models

Model (Diamond Tips)	Volume (µl)		Accuracy (systematic error)		Precision (random error)		Model	Reference Number
			Absolute µl	Relative %	Absolute S.D. µl	Relative S.D. %		
P2 (D10, DL10)	Min.	0.2	± 0.024	± 12	≤ 0.012	≤ 6	P2	F144801
		0.5	± 0.025	± 5	≤ 0.012	≤ 2.50		
P10 (D10, DL10)	Min.	1	± 0.025	± 2.5	≤ 0.012	≤ 1.25	P10	F144802
		5	± 0.075	± 1.5	≤ 0.030	≤ 0.60		
P20 (D200)	Min.	2	± 0.1	± 5.0	≤ 0.03	≤ 1.50	P20	F123600
		5	± 0.1	± 2.0	≤ 0.04	≤ 0.80		
P100 (D200)	Min.	20	± 0.1	± 1.0	≤ 0.05	≤ 0.50	P100	F123615
		50	± 0.2	± 1.0	≤ 0.06	≤ 0.30		
P200 (D200)	Min.	20	± 0.35	± 1.8	≤ 0.10	≤ 0.50	P200	F123601
		50	± 0.4	± 0.8	≤ 0.12	≤ 0.24		
P1000 (D1000)	Min.	200	± 0.8	± 0.8	≤ 0.15	≤ 0.15	P1000	F123602
		500	± 0.5	± 1	≤ 0.20	≤ 0.4		
P5000 (D5000)	Min.	1000	± 0.8	± 0.8	≤ 0.25	≤ 0.25	P5000	F123603
		2000	± 1.6	± 0.8	≤ 0.30	≤ 0.15		
P10ml (D10ml)	Min.	1 ml	± 3.0	± 1.5	≤ 0.6	≤ 0.30	P10ml	F161201
		2 ml	± 4.0	± 0.8	≤ 3.0	≤ 0.30		
		5 ml	± 30	± 0.6	≤ 5.0	≤ 0.25		
		10 ml	± 60	± 0.6	≤ 8.0	≤ 0.16		

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ISO 9001 Certified



ŠPIČKY D10/DL10 od 0,1 do 10µl – červené

Kat.č.	produkt	hmotnost	Typ - rozsah	Balení	ks/bal	Pozn.	Cena Kč
F161630/1	D10V1	200	D10V1 0,1- 10µl	1x1000	1000	1	540
F161630	D10V	2000	D10V 0,1- 10µl	10x1000	10000	1	4500
F161630V	D10VV	0	D10V 0,1- 10µl	6x10x1000	60000	1	23625
F161632	D10T	1500	D10T 0,1- 10µl	10x96 RockyRack™	960	1,4	1050
F161632X	D10TX	0	D10T 0,1- 10µl	14x10x96	13440	1,4	12600
F167101	D10TR	0	D10TR 0,1-10µl	10x96 Tower-Pack™	960	1,4,R	870
F167101X	D10TRX	0	D10TRX 0,1-10µl	10x10x96 Tower-Pack™	9600	1,4,R	7395
F161905	D10ST	0	D10ST 0,1- 10µl	10x96 RockyRack™	960	1,3,4	1200
F161905X	D10STX	0	D10ST 0,1- 10µl	14X10X96	13440	1,3,4	14400
F167201	D10TRST	0	D10TRST 0,1-10µl	10x96 Tower-Pack™	960	1,3,4,R,F	970
F167201X	D10TRSTX	0	D10TRST 0,1-10µl	10x10x96 Tower-Pack™	9600	1,3,4,R,F	8245

ŠPIČKY DL10 od 0,1 do 10µl – dlouhé

F161450/1	DL10V1	0	DL10V1 0,1- 10µl	1x1000	1000	1	540
F161450	DL10V	3500	DL10V 0,1- 10µl	10x1000	10000	1	4500
F161450V	DL10VV	0	DL10V 0,1- 10µl	6x10x1000	60000	1	23625
F161451	DL10	0	DL10 0,1- 10µl	5x200	1000		650
F161452/1	DL10T1	0	DL10T 0,1- 10µl	1x96 RockyRack™	96		135
F161452	DL10T	0	DL10T 0,1- 10µl	10x96 RockyRack™	960	1,4	1050
F161452X	DL10TX	0	DL10T 0,1- 10µl	14x10x96	13440	1,4	12600
F167102	DL10TR	0	DL10TR 0,1-10µl	10x96 Tower-Pack™	960	1,4,R	870
F167102X	DL10TRX	0	DL10TRX 0,1-10µl	10x10x96 Tower-Pack™	9600	1,4,R	7395
F161455	DL10ST	0	DL10ST 0,1- 10µl	10x96 RockyRack™	960	1,3,4	1200
F161455X	DL10STX	0	DL10ST 0,1- 10µl	14x10x96	13440	1,3,4	14400
F167202	DL10TRST	0	DL10TRST 0,1-10µl	10x96 Tower-Pack™	960	1,3,4,R,F	970
F167202X	DL10TRSTX	0	DL10TRST 0,1-10µl	10x10x96 Tower-Pack™	9600	1,3,4,R,F	8245

ŠPIČKY DF10 a DLF10 s filtrem

F161633/1	DF10ST1	0	DF10ST 0,1- 10µl	1x96 RockyRack™	96	1,2,3,4,F	330
F161633	DF10ST	20000	DF10ST 0,1- 10µl	10x96 RockyRack™	960	1,2,3,4,F	2200
F161633X	DF10STX	0	DF10ST 0,1- 10µl	14x10x96	13440	1,2,3,4,F	26400
F161453/1	DLF10ST1	0	DLF10ST 0,1- 10µl	1x96 RockyRack™	96	1,2,3,4,F	330
F161453	DLF10ST	0	DLF10ST 0,1- 10µl	10x96 RockyRack™	960	1,2,3,4,F	2200
F161453X	DLF10STX	0	DLF10ST 0,1- 10µl	14x10x96	13440	1,2,3,4,F	26400

ŠPIČKY D200 2 - 200µl - žluté

Kat.č.	produkt	hmotnost	Typ - rozsah	Balení	ks	Pozn.	Cena Kč
F161930/1	D200V1	370	D200V1 2 - 200µl	1x1000	1000	1	420
F161930	D200V	4100	D200V 2 - 200µl	10x1000	10000	1	3500
F161930V	D200VV	0	D200V 2 - 200µl	6x10x1000	60000	1	18375
F161931	D200	400	D200 2 - 200µl	5x200	1000		500
F161330	D200S	0	D200S 2 - 200µl	400 indiv. balené	400	1,3	1300
F161932/1	D200T1	0	D200T 2 - 200µl	1x96 RockyRack™	96		135
F161932	D200T	1700	D200T 2 - 200µl	10x96 RockyRack™	960	1,4	870
F161932X	D200TX	0	D200T 2 - 200µl	14x10x96	13440	1,4	10440
F167103	D200TR	0	D200TR 2-200µl	10x96 Tower-Pack™	960	1,4,R	730
F167103X	D200TRX	0	D200TRX 2-200µl	10x10x96 Tower-Pack™	9600	1,4,R	6205
F161937	D200ST	1700	D200ST 2 - 200µl	10x96 RockyRack™	960	1,3,4	970
F161937X	D200STX	0	D200ST 2 - 200µl	14x10x96	13440	1,3,4	11640
F167203	D200TRST	0	D200TRST 2 -200µl	10x96 Tower-Pack™	960	1,3,4,R,F	820
F167203X	D200TRSTX	0	D200TRST 2 -200µl	10x10x96 Tower-Pack™	9600	1,3,4,R,F	6970

ŠPIČKY DF30 s filtrem pro Pipetman P/U20, P/U/C100(do 30µl), F2 -F25

F161933/1	DF30ST1	0	DF30ST 2-30µl	1x96 RockyRack™	96	1,2,3,4,F	315
F161933	DF30ST	0	DF30ST 2-30µl	10x96 RockyRack™	960	1,2,3,4,F	2100
F161933X	DF30STX	23000	DF30ST 2-30µl	14x10x96	13440	1,2,3,4,F	25200

ŠPIČKY DF100 s filtrem pro Pipetman P/U/C100, P/U200(do100μl), F25-F100

F161938/1	DF100ST1	0	DF100ST 20-100μl	1x96 RockyRack™	96 1,2,3,4,F	315
F161938	DF100ST	0	DF100ST 20-100μl	10x96 RockyRack™	960 1,2,3,4,F	2100
F161938X	DF100STX	23000	DF100ST 20-100μl	14x10x96	13440 1,2,3,4,F	25200

ŠPIČKY DF200 s filtrem pro Pipetman P/U200, F200, C300

F161934/1	DF200ST1	0	DF200ST 20-200μl	1x96 RockyRack™	96 1,2,3,4,F	315
F161934	DF200ST	0	DF200ST 20-200μl	10x96 RockyRack™	960 1,2,3,4,F	2100
F161934X	DF200STX	23000	DF200ST 20-200μl	14x10x96	13440 1,2,3,4,F	25200

ŠPIČKY D300 20 - 300μl - zelené

F161730/1	D300V1	0	D300V1 20 - 2000μl	1x1000	1000 1	420
F161730	D300V	0	D300V 20 - 2000μl	10x1000	10000 1	3500
F161730V	D300VV	0	D300V 20 - 2000μl	6x10x1000	60000 1	18375
					1000 1	500
F161732/1	D300T1	0	D300T 20 - 300μl	1x96 RockyRack™	96 1,4	135
F161732	D300T	0	D300T 20 - 300μl	10x96 RockyRack™	960 1,4	870
F161732X	D300TX	0	D300T 20 - 300μl	14x10x96	13440 1,4	10440
F167105	D300TR	0	D300TR 20-300μl	10x96 Tower-Pack™	960 1,4,R	730
F167105X	D300TRX	0	D300TRX 20-300μl	10x10x96 Tower-Pack™	9600 1,4,R	6205
F161735	D300ST	0	D300ST 20 - 300μl	10x96 RockyRack™	960 1,3,4	970
F161735X	D300STX	0	D300ST 20 - 300μl	14x10x96	13440 1,3,4	11640
F167205	D300TRST	0	D300TRST 20 -300μl	10x96 Tower-Pack™	960 1,3,4,R,F	820
F167205X	D300STRX	0	D300STR 20 -300μl	10x10x96 Tower-Pack™	9600 1,3,4,R,F	6724

ŠPIČKY DF300 s filtrem

F161733/1	DF300ST1	0	DF300ST 20-300μl	1x96 RockyRack™	96 1,2,3,4,F	315
F161733	DF300ST	0	DF300ST 20-300μl	10x96 RockyRack™	960 1,2,3,4,F	2100
F161733X	DF300STX	0	DF300ST 20-300μl	14x10x96	13440 1,2,3,4,F	25200

ŠPIČKY D1000 100 -1000μl - modré

Kat.č.	produkt	hmotnost	Typ - rozsah	Balení	Pozn.	Cena Kč
F161670/1	D1000V1	0	D1000 100 - 1000μl	1x1000	1000 1	420
F161670	D1000V	7000	D1000 100 - 1000μl	10x1000	10000 1	3500
F161670V	D1000VV	0	D1000V 100 - 1000μl	6x10x1000	60000 1	18375
F161671	D1000	0	D1000 100 - 1000μl	5x200	1000	500
F161340	D1000S	0	D1000S 100 - 1000μl	400 indiv. balené	400 1,3	1400
F161672/1	D1000T1	0	D1000T 100 - 1000μl	1x96 Tipack™	96 1	135
F161672	D1000T	0	D1000T 100 - 1000μl	10x96 Tipack™	960 1	930
F161672X	D1000TX	0	D1000T 100 - 1000μl	14x10x96	13440 1,4	11160
F167104	D1000TR	0	D1000TR 100-1000μl	7x96 Tower-Pack™	672 1,R	620
F167104X	D1000TRX	0	D1000TRX 100-1000μl	10x7x96 Tower-Pack™	6720 1,R	5270
F161975	D1000ST	0	D1000ST 100 - 1000μl	10x96 Tipack™	960 1,3	1050
F161975X	D1000STX	0	D1000ST 100 - 1000μl	14x10x96	13440 1,3	12600
F167204	D1000TRST	0	D1000TRST 100-1000μl	7x96 Tower-Pack™	672 1,3,R,F	740
F167204X	D1000TRSTX	0	D1000TRST 100-1000μl	10x7x96 Tower-Pack™	6720 1,3,R,F	6290

ŠPIČKY DF1000 s filtrem

F161673/1	DF1000ST1	0	DF1000ST 100 - 1000μl	10x96 Tipack™	96 1,2,3,F	353
F161673	DF1000ST	0	DF1000ST 100 - 1000μl	1x96 Tipack™	960 1,2,3,F	2350
F161673X	DF1000STX	28000	DF1000ST 100 - 1000μl	14x10x96	13440 1,2,3,F	28200

ŠPIČKY D1200 100 -1200μl - modré

F161100/1	D1200V1	0	D1200 100 - 1200μl	1x1000	1000 1	420
F161100	D1200V	7000	D1200 100 - 1200μl	10x1000	10000 1	3500
F161100V	D1200VV	0	D1200 100 - 1200μl	6x10x1000	60000 1	18375
F161100X	D1200VX	0	D1200 100 - 1200μl	14x10x1000	140000 1	135
F161102	D1200T	0	D1200T 100 - 1200μl	10x96 Tipack™	960 1	930
F161102X	D1200TX	0	D1200T 100 - 1200μl	14x10x96	13440 1,4	11160
F161113	D1200ST	0	D1200ST 100 - 1200μl	10x96 Tipack™	960 1,3	1060
F161113X	D1200STX	0	D1200ST 100 - 1200μl	14x10x96	13440 1,3	12720

ŠPIČKY DF1200 s filtrem

F161115/1	DF1200ST/1	0	DF1200ST 100 - 1200µl	1x96 Tipack™	96 1,3	353
F161115	DF1200ST	0	DF1200ST 100 - 1200µl	10x96 Tipack™	960 1,3	2350
F161115X	DF1200STX	0	DF1200ST 100 - 1200µl	14x10x96	13440 1,3	28200

ŠPIČKY D5000 1 - 5ml - fialové

F161571/1	D5000V1	1100	D5000V1 1 - 5ml	1x334	334 1	600
F161571	D5000	3300	D5000V 1 - 5ml	3x334	1002 1	1500
F161571V	D5000VV	0	D5000V 1 - 5ml	6x3x334	6012 1	7875
F161370/1	D5000T1	0	Tipack D5000 1 - 5ml	1x50 Tipack	50 1	300
F161370	D5000T	0	Tipack D5000 1 - 5ml	12x50 Tipack	600 1	3000

ŠPIČKY D10ml 1 - 10ml - tyrkysové

F161210/1	D10mlV1	350	D10mlV1 1 - 10ml	1x50	50 1	297
F161210	D10ml	1400	D10mlV 1 - 10ml	4x50	200 1	990
F161210V	D10mlV	0	D10mlV 1 - 10ml	6x4x50	1200 1	5148
F161230/1	D10mlT1	0	Tipack D10ml 1-10ml	1x30 Tipack	30 1	343
F161230	D10mlT	0	Tipack D10ml 1-10ml	8x30 Tipack	240 1	2400

Autoklávovací krabičky se špičkami

F161632/1	D10T1	0	D10T 0,1- 10µl	1ks/ červená	96 1,4	135
F161452/1	DL10T1	0	DL10T 0,1- 10µl	1ks/ červená	96 1,4	135
F161932/1	D200T1	0	D200T 2 - 200µl	1ks/žlutá	96 1,4	135
F161732/1	D300T1	0	D300T 20 - 300µl	1ks/zelená	96 1,4	135
F161672/1	D1000T1	0	D1000T 100 - 1000µl	1ks/modrá	96 1,4	135
F161102/1	D1200T1	0	D1200T 100 - 1200µl	1ks/modrá	96 1	135
F161370/1	D5000T1	0	Tipack D5000 1 - 5ml	1ks/fialová	50 1,4	300
F161230/1	D10mlT1	0	Tipack D10ml 1-10ml	1ks/tyrkysová	30 1,4	343

Krabičky pro opakované plnění systémem TowerPack

F167100	Towerpack	0	Tower-Box prázdný	1ks/průhledný	0 1,U	220
F167100X	TowerpackV	0	Tower-Box prázdný	10ks/průhledný	0 1,U	1800