





VARIABLE VOLUME ELECTRONIC PIPETTES

PIPETMAN M SINGLE CHANNEL — VARIABLE VOLUME MODELS											
Model	PIPETMAN DIAMOND Tips		Part Number	Gilson Specifications					ISO 8655-2		
				Standard PIPET mode				REPETITIVE mode volume	Systematic error (µL)	Random error (µL)	
				Volume Range	Volume (µL)	Systematic error (µL)	Random error (µL)				
 P10M	D10* DL10*	DF10ST DFL10ST	F81022	0.5-10 µL	0.5 1 5 10	± 0.040 ± 0.025 ± 0.060 ± 0.080	≤ 0.013 ≤ 0.012 ≤ 0.020 ≤ 0.025	0.5-10 µL	± 0.12 ± 0.12 ± 0.12 ± 0.12	≤ 0.08 ≤ 0.08 ≤ 0.08 ≤ 0.08	
 P20M	D200	DF30ST	F81023	2-20 µL	2 10 20	± 0.075 ± 0.100 ± 0.150	≤ 0.025 ≤ 0.035 ≤ 0.050	2-20 µL	± 0.2 ± 0.2 ± 0.2	≤ 0.1 ≤ 0.1 ≤ 0.1	
 P100M	D200	DF100ST	F81013	5-100 µL	5 10 50 100	± 0.35 ± 0.30 ± 0.38 ± 0.40	≤ 0.10 ≤ 0.10 ≤ 0.12 ≤ 0.15	5-100 µL	± 0.8 ± 0.8 ± 0.8 ± 0.8	≤ 0.3 ≤ 0.3 ≤ 0.3 ≤ 0.3	
 P200M	D200 D300	DF200ST DF300ST	F81024	20-200 µL	20 100 200	± 0.40 ± 0.80 ± 1.00	≤ 0.15 ≤ 0.22 ≤ 0.26	5 - 200 µL	± 1.6 ± 1.6 ± 1.6	≤ 0.6 ≤ 0.6 ≤ 0.6	
 P300M	D200** D300	DF200ST** DF300ST	F81014	20-300 µL	20 30 150 300	± 0.80 ± 0.70 ± 0.90 ± 1.05	≤ 0.16 ≤ 0.20 ≤ 0.23 ≤ 0.30	10-300 µL	± 4.0 ± 4.0 ± 4.0 ± 4.0	≤ 1.5 ≤ 1.5 ≤ 1.5 ≤ 1.5	
 P1200M	D1000** DI200	DF1000ST** DFI200ST	F81015	100-1200 µL	100 120 600 1200	± 2.5 ± 2.4 ± 3.6 ± 6.0	≤ 0.4 ≤ 0.4 ≤ 0.8 ≤ 1.2	20-1200 µL	± 16 ± 16 ± 16 ± 16	≤ 6.0 ≤ 6.0 ≤ 6.0 ≤ 6.0	
 P5000M	D5000		F81016	500-5000 µL	500 2500 5000	± 10 ± 15 ± 25	≤ 2 ≤ 4 ≤ 7	100-5000 µL	± 40 ± 40 ± 40	≤ 15.0 ≤ 15.0 ≤ 15.0	
 P10mLM	DI0mL		F81017	1-10 mL	1 mL 5 mL 10 mL	± 25 ± 30 ± 50	≤ 4 ≤ 8 ≤ 12	200 µL-10 mL	± 60 ± 60 ± 60	≤ 30.0 ≤ 30.0 ≤ 30.0	
PIPETMAN M MULTICHANNEL											
 P8x10M	D10 DL10	DF10ST DFL10ST	F81025	0.5-10 µL	0.5 1	± 0.05 ± 0.04	≤ 0.02 ≤ 0.02	0.5-10 µL	± 0.24 ± 0.24	≤ 0.16 ≤ 0.16	
 P12x10M			F81026		5 10	± 0.08 ± 0.10	≤ 0.04 ≤ 0.06		± 0.24 ± 0.24	≤ 0.16 ≤ 0.16	
 P8x20M	DL10 D200	DFL10ST DF30ST	F81027	1-20 µL	1 2	± 0.08 ± 0.09	≤ 0.05 ≤ 0.06	1-20 µL	± 0.4 ± 0.4	≤ 0.2 ≤ 0.2	
 P12x20M			F81028		10 20	± 0.15 ± 0.25	≤ 0.10 ≤ 0.12		± 0.4 ± 0.4	≤ 0.2 ≤ 0.2	
 P8x100M	D200	DF100ST	F81018	10-100 µL	10 50	± 0.25 ± 0.50	≤ 0.14 ≤ 0.20	5-100 µL	± 1.6 ± 1.6	≤ 0.6 ≤ 0.6	
 P12x100M			F81019		100	± 0.80	≤ 0.25		± 1.6	≤ 0.6	
 P8x200M	D200 D300	DF100ST** DF200ST DF300ST	F81029	20-200 µL	20 100	± 0.50 ± 1.00	≤ 0.16 ≤ 0.30	5-200 µL	± 3.2 ± 3.2	≤ 1.2 ≤ 1.2	
 P12x200M			F81030		200	± 2.00	≤ 0.50		± 3.2	≤ 1.2	
 P8x300M	D200** D300	DF200ST** DF300ST	F81031	10-300 µL	10 30	± 1.00 ± 1.00	≤ 0.18 ≤ 0.18	10-300 µL	± 8.0 ± 8.0	≤ 3.0 ≤ 3.0	
 P12x300M			F81032		150 300	± 1.50 ± 2.40	≤ 0.375 ≤ 0.45		± 8.0 ± 8.0	≤ 3.0 ≤ 3.0	
 P8x1200M	DI200	DFI200ST	F81020	50-1200 µL	50 120	± 4.0 ± 4.0	≤ 0.7 ≤ 0.7	50-1200 µL	± 32 ± 32	≤ 12 ≤ 12	
 P12x1200M			F81021		600 1200	± 6.0 ± 9.6	≤ 1.5 ≤ 1.8		± 32 ± 32	≤ 12 ≤ 12	

Gilson maximum permissible errors are guaranteed only when PIPETMAN pipettes are used with the recommended PIPETMAN DIAMOND Tips.

Under these conditions, Gilson volumetric specifications in standard pipetting (PIPET mode) are guaranteed with a performance exceeding ISO 8655-2 recommendations for this mode.

* A plastic adapter is required to eject D10 and DF10ST tips (short tips). The adapter is supplied with P10M. No adapter is required when using DL10 and DFL10ST tips (long tips).

** These PIPETMAN DIAMOND Tips can be used with the indicated pipettes for the REPETITIVE mode but not until the maximal volume of the pipette in PIPET mode. Please refer to the volume range of your tips.

Recommended tips to get best results in REPETITIVE mode.