

CONNECTED 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 ± 0.2	≤ 0.1 ≤ 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** D1200	DF1000ST** DF1200ST	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	D10mL		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	DF10ST	F81025	0.5-10 μL	0.5	± 0.05	≤ 0.02	0.5-10 μL	± 0.24	≤ 0.16	
P12x10M	DL10	DFL10ST	F81026		1	± 0.04	≤ 0.02		± 0.24	≤ 0.16	
					5	± 0.08	≤ 0.04		± 0.24	≤ 0.16	
					10	± 0.10	≤ 0.06		± 0.24	≤ 0.16	
P8x20M	DL10	DFL10ST	F81027	1-20 μL	1	± 0.08	≤ 0.05	1-20 μL	± 0.4	≤ 0.2	
P12x20M	D200	DF30ST	F81028		2	± 0.09	≤ 0.06		± 0.4	≤ 0.2	
					10	± 0.15	≤ 0.10		± 0.4	≤ 0.2	
					20	± 0.25	≤ 0.12		± 0.4	≤ 0.2	
P8x100M	D200	DF100ST	F81018	10-100 μL	10	± 0.25	≤ 0.14	5-100 μL	± 1.6	≤ 0.6	
P12x100M			F81019		50	± 0.50	≤ 0.20		± 1.6	≤ 0.6	
					100	± 0.80	≤ 0.25		± 1.6	≤ 0.6	
P8x200M	D200	DF100ST**	F81029	20-200 μL	20	± 0.50	≤ 0.16	5-200 μL	± 3.2	≤ 1.2	
P12x200M	D300	DF200ST	F81030		100	± 1.00	≤ 0.30		± 3.2	≤ 1.2	
		DF300ST			200	± 2.00	≤ 0.50		± 3.2	≤ 1.2	
P8x300M	D200**	DF200ST**	F81031	10-300 μL	10	± 1.00	≤ 0.18	10-300 μL	± 8.0	≤ 3.0	
P12x300M	D300	DF300ST	F81032		30	± 1.00	≤ 0.18		± 8.0	≤ 3.0	
					150	± 1.50	≤ 0.375		± 8.0	≤ 3.0	
					300	± 2.40	≤ 0.45		± 8.0	≤ 3.0	
P8x1200M	D1200	DF1200ST	F81020	50-1200 μL	50	± 4.0	≤ 0.7	50-1200 μL	± 32	≤ 12	
P12x1200M			F81021		120	± 4.0	≤ 0.7		± 32	≤ 12	
					600	± 6.0	≤ 1.5		± 32	≤ 12	
					1200	± 9.6	≤ 1.8		± 32	≤ 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.