



GILSON PIPETTE SPECIFICATIONS

SYSTEMATIC ERROR = ACCURACY
RANDOM ERROR = REPEATABILITY

PIPETMAN® L SINGLE CHANNEL—VARIABLE VOLUME MODELS															
Model	PIPETMAN® DIAMOND Tips		Part Number		Volume (µL)	Maximum Permissible Errors									
						With Stainless Steel Ejector	With Plastic Ejector	Gilson				ISO 8655			
								Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (%CV)*	Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (%CV)*
P2L	D10 DL10	DF10ST DFL10ST	FA10001M	FA10001P	0.2	± 0.024	≤ 0.012	± 12.0	≤ 6.0	± 0.08	≤ 0.04	± 40.0	≤ 20.0		
					0.5	± 0.025	≤ 0.012	± 5.0	≤ 2.4	± 0.08	≤ 0.04	± 16.0	≤ 8.0		
					1	± 0.027	≤ 0.013	± 2.7	≤ 1.3	± 0.08	≤ 0.04	± 8.0	≤ 4.0		
					2	± 0.030	≤ 0.014	± 1.5	≤ 0.7	± 0.08	≤ 0.04	± 4.0	≤ 2.0		
P10L	D10 DL10	DF10ST DFL10ST	FA10002M	FA10002P	0.5	± 0.040	≤ 0.016	± 8.0	≤ 3.2	± 0.12	≤ 0.08	± 24.0	≤ 16.0		
					1	± 0.025	≤ 0.012	± 2.5	≤ 1.2	± 0.12	≤ 0.08	± 12.0	≤ 8.0		
					5	± 0.075	≤ 0.030	± 1.5	≤ 0.6	± 0.12	≤ 0.08	± 2.4	≤ 1.6		
					10	± 0.100	≤ 0.040	± 1.0	≤ 0.4	± 0.12	≤ 0.08	± 1.2	≤ 0.8		
P20L	D200	DF30ST	FA10003M	FA10003P	2	± 0.10	≤ 0.030	± 5.0	≤ 1.5	± 0.2	≤ 0.1	± 10.0	≤ 5.0		
					10	± 0.10	≤ 0.050	± 1.0	≤ 0.5	± 0.2	≤ 0.1	± 2.0	≤ 1.0		
					20	± 0.20	≤ 0.060	± 1.0	≤ 0.3	± 0.2	≤ 0.1	± 1.0	≤ 0.5		
P100L	D200	DF100ST	FA10004M	FA10004P	10	± 0.35	≤ 0.10	± 3.5	≤ 1.0	± 0.8	≤ 0.3	± 8.0	≤ 3.0		
					50	± 0.40	≤ 0.12	± 0.8	≤ 0.24	± 0.8	≤ 0.3	± 1.6	≤ 0.6		
					100	± 0.80	≤ 0.15	± 0.8	≤ 0.15	± 0.8	≤ 0.3	± 0.8	≤ 0.3		
P200L	D200 D300	DF200ST DF300ST	FA10005M	FA10005P	20	± 0.50	≤ 0.20	± 2.5	≤ 1.0	± 1.6	≤ 0.6	± 8.0	≤ 3.0		
					100	± 0.80	≤ 0.25	± 0.8	≤ 0.25	± 1.6	≤ 0.6	± 1.6	≤ 0.6		
					200	± 1.60	≤ 0.30	± 0.8	≤ 0.15	± 1.6	≤ 0.6	± 0.8	≤ 0.3		
P1000L	D1000 D1200	DF1000ST DF1200ST	FA10006M	FA10006P	100	± 3.0	≤ 0.6	± 3.0	≤ 0.6	± 8.0	≤ 3.0	± 8.0	≤ 3.0		
					500	± 4.0	≤ 1.0	± 0.8	≤ 0.2	± 8.0	≤ 3.0	± 1.6	≤ 0.6		
					1000	± 8.0	≤ 1.5	± 0.8	≤ 0.15	± 8.0	≤ 3.0	± 0.8	≤ 0.3		
P5000L	D5000		FA10007		500	± 12	≤ 3	± 2.4	≤ 0.6	± 40	≤ 15.0	± 8.0	≤ 3.0		
					2500	± 15	≤ 5	± 0.6	≤ 0.2	± 40	≤ 15.0	± 1.6	≤ 0.6		
					5000	± 30	≤ 8	± 0.6	≤ 0.16	± 40	≤ 15.0	± 0.8	≤ 0.3		
P10mLL	D10mL		FA10008		1000	± 30	≤ 6	± 3.0	≤ 0.6	± 60	≤ 30.0	± 6.0	≤ 3.0		
					5000	± 40	≤ 10	± 0.8	≤ 0.2	± 60	≤ 30.0	± 1.2	≤ 0.6		
					10000	± 60	≤ 16	± 0.6	≤ 0.2	± 60	≤ 30.0	± 0.6	≤ 0.3		
PIPETMAN® L MULTICHANNEL MODELS															
P8x10L	D10 DL10	DF10ST DFL10ST	FA10013		0.5	± 0.08	≤ 0.04	± 16.0	≤ 8.0	± 0.24	≤ 0.16	± 48.0	≤ 32.0		
					1	± 0.08	≤ 0.05	± 8.0	≤ 5.0	± 0.24	≤ 0.16	± 24.0	≤ 16.0		
					5	± 0.20	≤ 0.10	± 4.0	≤ 2.0	± 0.24	≤ 0.16	± 4.8	≤ 3.2		
P12x10L	DL10 D200	DFL10ST DF30ST	FA10014		10	± 0.20	≤ 0.10	± 2.0	≤ 1.0	± 0.24	≤ 0.16	± 2.4	≤ 1.6		
P8x20L	DL10 D200	DFL10ST DF30ST	FA10009		2	± 0.10	≤ 0.08	± 5.0	≤ 4.0	± 0.4	≤ 0.20	± 20.0	≤ 10.0		
					10	± 0.20	≤ 0.10	± 2.0	≤ 1.0	± 0.4	≤ 0.20	± 4.0	≤ 2.0		
					20	± 0.40	≤ 0.15	± 2.0	≤ 1.0	± 0.4	≤ 0.20	± 2.0	≤ 1.0		
P12x20L	DL10 D200	DFL10ST DF30ST	FA10010												
P8x200L	D200 D300	DF200ST DF300ST	FA10011		20	± 0.50	≤ 0.25	± 2.5	≤ 1.25	± 3.2	≤ 1.2	± 16.0	≤ 6.0		
					100	± 1.00	≤ 0.40	± 1.0	≤ 0.4	± 3.2	≤ 1.2	± 3.2	≤ 1.2		
					200	± 2.00	≤ 0.50	± 1.0	≤ 0.25	± 3.2	≤ 1.2	± 1.6	≤ 0.6		
P12x200L	D200 D300	DF200ST DF300ST	FA10012												
P8x200LVR	D200 D300	DF200ST DF300ST	FA10035		20	± 0.50	≤ 0.25	± 2.5	≤ 1.25	± 3.2	≤ 1.2	± 16.0	≤ 6.0		
					100	± 1.00	≤ 0.40	± 1.0	≤ 0.4	± 3.2	≤ 1.2	± 3.2	≤ 1.2		
					200	± 2.00	≤ 0.50	± 1.0	≤ 0.25	± 3.2	≤ 1.2	± 1.6	≤ 0.6		
P12x200LVR	D200 D300	DF200ST DF300ST	FA10036												
P8x300L	D200 D300	DF200ST DF300ST	FA10015		20	± 1.00	≤ 0.35	± 5.0	≤ 1.75	± 8.0	≤ 3.0	± 40.0	≤ 15.0		
					30	± 1.00	≤ 0.35	± 3.33	≤ 1.17	± 8.0	≤ 3.0	± 26.67	≤ 10.0		
					150	± 1.50	≤ 0.60	± 1.0	≤ 0.4	± 8.0	≤ 3.0	± 5.33	≤ 2.0		
P12x300L	D200 D300	DF200ST DF300ST	FA10016		300	± 3.00	≤ 1.00	± 1.0	≤ 0.33	± 8.0	≤ 3.0	± 2.67	≤ 1.0		
P8x300LVR	D200 D300	DF200ST DF300ST	FA10037		20	± 1.00	≤ 0.35	± 5.0	≤ 1.75	± 4.8	≤ 1.8	± 24.0	≤ 9.0		
					30	± 1.00	≤ 0.35	± 3.33	≤ 1.17	± 4.8	≤ 1.8	± 16.0	≤ 6.0		
					150	± 1.50	≤ 0.60	± 1.0	≤ 0.4	± 4.8	≤ 1.8	± 3.2	≤ 1.2		
P12x300LVR	D200 D300	DF200ST DF300ST	FA10038		300	± 3.00	≤ 1.00	± 1.0	≤ 0.33	± 4.8	≤ 1.8	± 1.6	≤ 0.6		
P8x1200L	D1200	DF1200ST	FA10039		100	± 6.0	≤ 0.90	± 6.0	≤ 0.9	± 32	≤ 12	± 32.0	≤ 12.0		
					120	± 6.0	≤ 0.90	± 5.0	≤ 0.8	± 32	≤ 12	± 26.7	≤ 10.0		
					600	± 8.0	≤ 1.20	± 1.3	≤ 0.2	± 32	≤ 12	± 5.3	≤ 2.0		
P12x1200L	D1200	DF1200ST	FA10040		1200	± 10.0	≤ 1.50	± 0.8	≤ 0.1	± 32	≤ 12	± 2.7	≤ 1.0		

*CV means Coefficient of Variation

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

For a pipette with a plastic tip ejector, the part number ends with the letter P.

For a pipette with a stainless steel tip ejector, the part number ends with the letter M.

P5000L and P10mLL are equipped with plastic tip ejectors.