



GILSON PIPETTE SPECIFICATIONS

SYSTEMATIC ERROR = ACCURACY
RANDOM ERROR = REPEATABILITY



PIPETMAN® G SINGLE CHANNEL													
Model	PIPETMAN® DIAMOND Tips		Part Number	Volume (µL)	Maximum Permissible Errors								
					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)*	
P2G	D10 DL10	DF10ST DFL10ST	F144054M	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	± 0.025	≤ 0.012	± 2.5	≤ 1.2	± 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	
P10G**	D10 DL10	DF10ST DFL10ST	F144055M	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	± 16.0	≤ 8.0	
				10	± 0.100	≤ 0.040	± 1.0	≤ 0.4	± 0.12	≤ 0.08	± 2.4	≤ 0.8	
P20G	D200	DF30ST	F144056M	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	
P100G	D200	DF100ST	F144057M	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	
P200G	D200 D300	DF200ST DF300ST	F144058M	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	
P1000G	D1000 D1200	DF1000ST DF1200ST	F144059M	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	
P5000G***	D5000		F144066	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	
P10mLG***	D10mL		F144067	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	≤ 0.16	± 60	≤ 30.0	± 0.6	≤ 0.3	
PIPETMAN® G MULTICHANNEL													
P8x10G P12x10G	D10 DL10	DF10ST DFL10ST	F144068 F144069	1	± 0.08	≤ 0.05	± 8.0	≤ 5.0	± 0.24	≤ 0.16	± 24.0	≤ 16.0	
				5 10	± 0.20 ± 0.20	≤ 0.10 ≤ 0.10	± 4.0 ± 2.0	≤ 2.0 ≤ 1.0	± 0.24 ± 0.24	≤ 0.16 ≤ 0.16	± 4.8 ± 2.4	≤ 3.2 ≤ 1.6	
P8x20G P12x20G	DL10 D200	DFL10ST DF30ST	F144070 F144071	2	± 0.10	≤ 0.08	± 5.0	≤ 4.0	± 0.4	≤ 0.20	± 20.0	≤ 10.0	
				10 20	± 0.20 ± 0.40	≤ 0.10 ≤ 0.20	± 2.0 ± 2.0	≤ 1.0 ≤ 1.0	± 0.4 ± 0.4	≤ 0.20 ≤ 0.20	± 4.0 ± 2.0	≤ 2.0 ≤ 1.0	
				200	± 2.00	≤ 0.50	± 1.0	≤ 0.25	± 3.2	≤ 1.2	± 16.0	≤ 6.0	
P8x200G P12x200G	D200 D300	DF200ST DF300ST	F144072 F144073	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	
P8x300G P12x300G	D200 D300	DF200ST DF300ST	F144074 F144075	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	
				300	± 3.00	≤ 1.00	± 1.0	≤ 0.33	± 8.0	≤ 3.0	± 2.67	≤ 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.

**P10G model can be used up to 0.5 µL.

***P5000G and P10mLG do not have tip ejectors.