



GILSON PIPETTE SPECIFICATIONS

SYSTEMATIC ERROR = ACCURACY
RANDOM ERROR = REPEATABILITY

PLATEMASTER®															
Model	PIPETMAN® DIAMOND Tips			Part Number	Nominal Volume (µL)	Volume (µL)	Volume (%)	Maximum Permissible Errors							
								Gilson				ISO 8655-2 (Table 2)			
								Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*	Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*
P20	D200 DS200**	D200ST DS200ST**	DF100ST DF200ST DFS200ST**	F110761	20	0,5 10 20	2,5 50 100	± 0,12 ± 0,12 ± 0,2	≤ 0,1 ≤ 0,1 ≤ 0,18	± 24,0 ± 1,2 ± 1,0	± 20,00 ± 1,00 ± 0,90	N/A ± 0,4 ± 0,4	N/A ≤ 0,2 ≤ 0,2	N/A ± 4 ± 2,0	N/A ≤ 2 ≤ 1,0
P220	D200 DS200* D300	D200ST	DF200ST DFS200ST** DFS300ST	F110762	220	2 5 20 100 200 220	0,9 2,3 9,1 45,5 90,9 100	± 0,12 ± 0,25 ± 0,4 ± 1 ± 1,6 ± 1,8	≤ 0,15 ≤ 0,175 ≤ 0,3 ≤ 0,8 ≤ 0,8 ≤ 0,8	± 6,0 ± 5,0 ± 2,0 ± 1,0 ± 0,8 ± 0,8	≤ 7,50 ≤ 3,50 ≤ 1,50 ≤ 0,80 ≤ 0,40 ≤ 0,36	N/A N/A N/A ± 3,52 ± 3,52 ± 3,52	N/A N/A N/A ≤ 1,32 ≤ 1,32 ≤ 1,32	N/A N/A N/A ± 3,52 ± 1,76 ± 1,6	N/A N/A N/A ≤ 1,32 ≤ 0,66 ≤ 0,60

*CV means Coefficient of Variation (%)

**Validated for use with 384-well plates

DISPENSAN®													
Model	Part Number	Volume Range (mL)	Scaling (mL)	Nominal Volume (µL)	Volume (%)	Maximum Permissible Errors							
						Gilson				ISO 8655-5 (Table 1)			
						Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*	Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*
DISPENSAN 2,5 mL	F110101	0,25-2,5 mL	0,05	2500	10 50 100	± 12,0 ± 12,0 ± 12,0	≤ 2,0 ≤ 2,0 ≤ 2,0	± 4,8 ± 1,0 ± 0,5	≤ 0,80 ≤ 0,16 ≤ 0,08	± 15,0 ± 15,0 ± 15,0	≤ 5,0 ≤ 5,0 ≤ 5,0	± 6,0 1 ± 2 ± 0,6	≤ 2,0 ≤ 0,4 ≤ 0,2
DISPENSAN 5,0 mL	F110102	0,5-5 mL	0,10	5000	10 50 100	± 30,0 ± 30,0 ± 30,0	≤ 5,0 ≤ 5,0 ≤ 5,0	± 6,0 ± 1,2 ± 0,6	≤ 1,00 ≤ 0,20 ≤ 0,10	± 30,0 ± 30,0 ± 30,0	≤ 10,0 ≤ 10,0 ≤ 10,0	± 6,0 ± 1,2 ± 0,6	≤ 2,0 ≤ 0,4 ≤ 0,2
DISPENSAN 10 mL	F110103	1-10 mL	0,20	10000	10 50 100	± 60,0 ± 60,0 ± 60,0	≤ 10,0 ≤ 10,0 ≤ 10,0	± 6,0 ± 1,2 ± 0,6	≤ 1,00 ≤ 0,20 ≤ 0,10	± 60,0 ± 60,0 ± 60,0	≤ 20,0 ≤ 20,0 ≤ 20,0	± 6,0 ± 1,2 ± 0,6	≤ 2,0 ≤ 0,4 ≤ 0,2
DISPENSAN 25 mL	F110104	2,5-25 mL	0,50	25000	10 50 100	± 150,0 ± 150,0 ± 150,0	≤ 25,0 ≤ 25,0 ≤ 25,0	± 6,0 ± 1,2 ± 0,6	≤ 1,00 ≤ 0,20 ≤ 0,10	± 150,0 ± 150,0 ± 150,0	≤ 50,0 ≤ 50,0 ≤ 50,0	± 6,0 ± 1,2 ± 0,6	≤ 2,0 ≤ 0,4 ≤ 0,2
DISPENSAN 50 mL	F110105	5-50 mL	1,00	50000	10 50 100	± 300,0 ± 300,0 ± 300,0	≤ 50,0 ≤ 50,0 ≤ 50,0	± 6,0 ± 1,2 ± 0,6	≤ 1,00 ≤ 0,20 ≤ 0,10	± 300,0 ± 300,0 ± 300,0	≤ 100,0 ≤ 100,0 ≤ 100,0	± 6,0 ± 1,2 ± 0,6	≤ 2,0 ≤ 0,4 ≤ 0,2

*CV means Coefficient of Variation (%)