microman®

E

POSITIVE-DISPLACEMENT PIPETTE
SPECIFICATIONS



MICROMAN® E

Model	Capillary Piston	Part Number	Nominal Volume (µL)	Vol. (µL)	Vol. (%)	Maximum Permissible Errors							
						Gilson				ISO 8655-2 (Table 3)			
						Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*	Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*
M10E	CP10 CP10ST	**FD10001**	10	1 5 10	10 50 100	± 0.090 ± 0.100 ± 0.150	≤ 0.030 ≤ 0.030 ≤ 0.060	± 9.0 ± 2.0 ± 1.5	≤ 3.00 ≤ 0.60 ≤ 0.60	± 0.200 ± 0.200 ± 0.200	≤ 0.100 ≤ 0.100 ≤ 0.100	± 20 ± 4.0 ± 2.0	≤ 10 ≤ 2.0 ≤ 1.0
M25E	CP25 CP25ST	**FD10002**	25	3 10 25	12.0 40.0 100	± 0.25 ± 0.27 ± 0.30	≤ 0.080 ≤ 0.080 ≤ 0.100	± 8.3 ± 2.7 ± 1.2	≤ 2.67 ≤ 0.80 ≤ 0.40	± 0.35 ± 0.35 ± 0.35	≤ 0.15 ≤ 0.15 ≤ 0.15	± 11.67 ± 3.5 ± 1.4	≤ 5.0 ≤ 1.5 ≤ 0.60
M50E	CP50 CP50ST	**FD10003**	50	20 50	40.0 100	± 0.34 ± 0.70	≤ 0.20 ≤ 0.30	± 1.7 ± 1.4	≤ 1.00 ≤ 0.60	± 0.70 ± 0.70	≤ 0.30 ≤ 0.30	± 3.5 ± 1.4	≤ 1.5 ≤ 0.60
M100E	CP100 CP100ST	**FD10004**	100	10 50 100	10 50 100	± 0.50 ± 0.75 ± 1.00	≤ 0.20 ≤ 0.30 ≤ 0.40	± 5.0 ± 1.5 ± 1.0	≤ 2.00 ≤ 0.60 ≤ 0.40	± 1.4 ± 1.4 ± 1.4	≤ 0.6 ≤ 0.6 ≤ 0.6	± 14 ± 2.8 ± 1.4	≤ 6.0 ≤ 1.2 ≤ 0.60
M250E	CP250 CP250ST	**FD10005**	250	50 100 250	20.0 40.0 100	± 1.50 ± 1.70 ± 2.50	≤ 0.30 ≤ 0.30 ≤ 0.50	± 3.0 ± 1.7 ± 1.0	≤ 0.60 ≤ 0.30 ≤ 0.20	± 3.0 ± 3.0 ± 3.0	≤ 1.0 ≤ 1.0 ≤ 1.0	± 6.0 ± 3.0 ± 1.2	≤ 2.0 ≤ 1.0 ≤ 0.40
M1000E	CP1000 CP1000ST	**FD10006**	1000	100 500 1000	10 50 100	± 3.0 ± 5.0 ± 8.0	≤ 1.6 ≤ 2.5 ≤ 4.0	± 3.0 ± 1.0 ± 0.8	≤ 1.60 ≤ 0.50 ≤ 0.40	± 12 ± 12 ± 12	≤ 4.0 ≤ 4.0 ≤ 4.0	± 12 ± 2.4 ± 1.2	≤ 4.0 ≤ 0.80 ≤ 0.40

*CV means Coefficient of Variation (%)

NOTE With a precise pipetting technique, the M25E model can be used to aspirate volumes as low as 2.5 µL (10% of the nominal volume of the pipette).

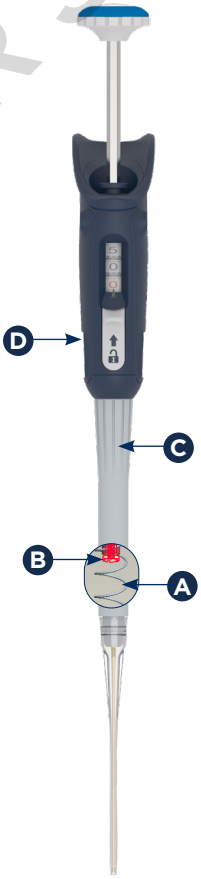
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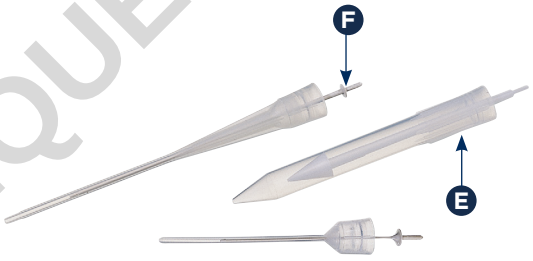
CAPILLARY PISTON							
Capillary Piston Model		Volume Range	MICROMAN® E Model Compatibility	CP Qty/Rack	Rack Qty/ Commercial Unit	CP Qty/ Commercial Unit	Part Number
TIPACK - Assembled CP	Capillary Piston 10 µL (CP10)	1-10 µL	M10E	96	10	960	**F148312**
	Capillary Piston 25 µL (CP25)	3-25 µL	M25E	96	10	960	**F148012**
	Capillary Piston 50 µL (CP50)	20-50 µL	M50E	96	10	960	**F148013**
	Capillary Piston 100 µL (CP100)	10-100 µL	M100E	96	10	960	**F148314**
	Capillary Piston 250 µL (CP250)	50-250 µL	M250E	96	10	960	**F148014**
	Capillary Piston 1000 µL (CP1000)	100-1000 µL	M1000E	91	2	182	**F148560**
TIPACK - Assembled Sterilized CP	Sterilized Capillary Piston 10 µL (CP10ST)	1-10 µL	M10E	96	10	960	**F148313**
	Sterilized Capillary Piston 25 µL (CP25ST)	3-25 µL	M25E	96	6	576	**F148712**
	Sterilized Capillary Piston 50 µL (CP50ST)	20-50 µL	M50E	96	6	576	**F148713**
	Sterilized Capillary Piston 100 µL (CP100ST)	10-100 µL	M100E	96	10	960	**F148315**
	Sterilized Capillary Piston 250 µL (CP250ST)	50-250 µL	M250E	96	6	576	**F148714**
	Sterilized Capillary Piston 1000 µL (CP1000ST)	100-1000 µL	M1000E	91	2	182	**F148180**

DESCRIPTION AND MATERIALS

MICROMAN® E				
Model	Spring (A)	Clamp (B)	Shaft (C)	Body (D)
M10E	SS	Be Alloy	PBT	PVDF/PP
M25E	SS	Be Alloy	PVDF	PVDF/PP
M50E	SS	Be Alloy	PVDF	PVDF/PP
M100E	SS	Be Alloy	PBT	PVDF/PP
M250E	SS	Be Alloy	PVDF	PVDF/PP
M1000E	SS	Be Alloy	PVDF	PVDF/PP

CAPILLARY PISTONS		
Model	Capillary (E)	Piston (F)
CP10	PP	LCP
CP25	PP	LCP
CP50	PP	LCP
CP100	PP	PE
CP250	PP	PE
CP1000	PP	POM





Abbreviations
SS = Stainless Steel
Be = Beryllium
PBT = Polybutylene Terephthalate
PP = Polypropylene
PVDF = Polyvinylidene Fluoride
LCP = Liquid Crystal Polymer
PE = Polyethylene
POM = Polyacetal

NOTE For information on chemical resistance of plastic materials, please refer to the LT800550 Gilson Guide to Pipetting - Appendix E on www.gilson.com.

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