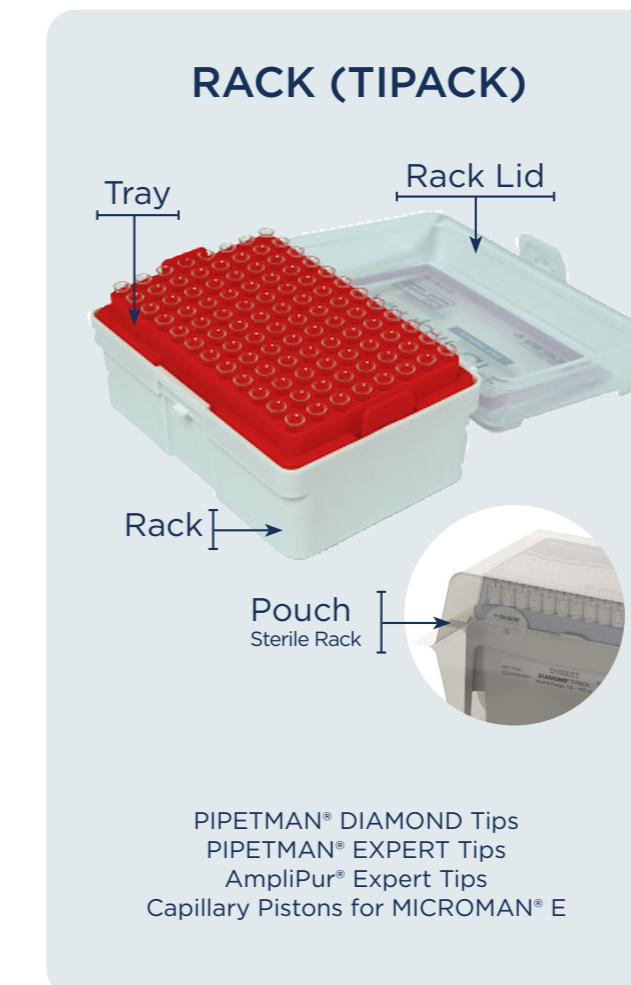




# Gilson Consumable Data

Gilson Consumable	Nominal Volume	Volume Range	With or Without Filter	RACK (TIPACK)		REFILL (RELOAD)		TOWERPACK (RELOAD)		BULK (ECOPACK & EASYPACK)		INDIVIDUALLY PACKED (STERILPACK)	Consumable Length (mm)	Inner Diameter Tip Point (mm)	Component Materials	Sterilization Method* (Sterile References Only)
				Gilson Standard	Sterile	Gilson Standard	Sterile	Gilson Standard	Sterile	Gilson Standard	Sterile	Sterile				
				Autoclavable, No Trace of Metal	Free of RNase, DNase, RNA, DNA, Pyrogens & Metal	Autoclavable, No Trace of Metal	Free of RNase, DNase, RNA, DNA, Pyrogens & Metal	Autoclavable, No Trace of Metal	Free of RNase, DNase, RNA, DNA, Pyrogens & Metal	No Trace of Metal	Free of RNase, DNase, RNA, DNA, Pyrogens & Metal	Free of RNase, DNase, RNA, DNA, Pyrogens & Metal				
PIPETMAN® DIAMOND Tips	10 µL (short collar)	0.1-10 µL	Filter tips	-	F171103	-	-	-	-	-	-	-	30	0.4	Tips: Polypropylene Filter: Polyethylene Rack: Polypropylene Tray: Polypropylene Rack lid: Polypropylene	Sterility Assurance Level SAL 10 <sup>-6</sup> by gamma or x-Ray radiation
	10 µL (long collar)	0.1-10 µL	Filter tips	-	F171203	-	-	-	-	-	-	-	45	0.4		
		0.1-20 µL	Non filter tips	F171200	F171201	F167012, F172200, F172210	F172201, F172211	F167102	F167202	F161450, F161451	-	-	51	0.4		
	30 µL	2-30 µL	Filter tips	-	F171303	-	-	-	-	-	-	-	51	0.4		
	100 µL	10-100 µL	Filter tips	-	F171403	-	-	-	-	-	-	-	51	0.4		
	200 µL	20-200 µL	Filter tips	-	F171503	-	-	-	-	-	-	-	51	0.4		
		2-200 µL	Non filter tips	F171300	F171301	F167013, F172300, F172310	F172301, F172311	F167103	F167203	F161930, F161931	-	-	51	0.4		
	300 µL	10-300 µL	Filter tips	-	F171603	-	-	-	-	-	-	-	51	0.4		
		10-300 µL	Non filter tips	F171400	F171401	F172400	F172401	F167105	F167205	F161730, F161731	-	-	51	0.4		
	1000 µL	100-1000 µL	Filter tips	-	F171703	-	-	-	-	-	-	-	66	0.85		
		100-1000 µL	Non filter tips	F171500	F171501	F167014, F172500, F172510	F172501, F172511	F167104	F167204	F161670, F161671	-	-	66	0.85		
	1200 µL	100-1200 µL	Filter tips	-	F171803	-	-	-	-	-	-	-	84	0.75		
	100-1200 µL	Non filter tips	F171600	F171601	F172800	F172801	-	-	F161110, F161111	-	-	84	0.75			
5 mL	0.5-5 mL	Non filter tips	F161370	-	-	-	-	-	F161571	-	-	104	1.5			
10 mL	1-10 mL	Non filter tips	F161230	-	-	-	-	-	F161210	-	-	160	1.9			

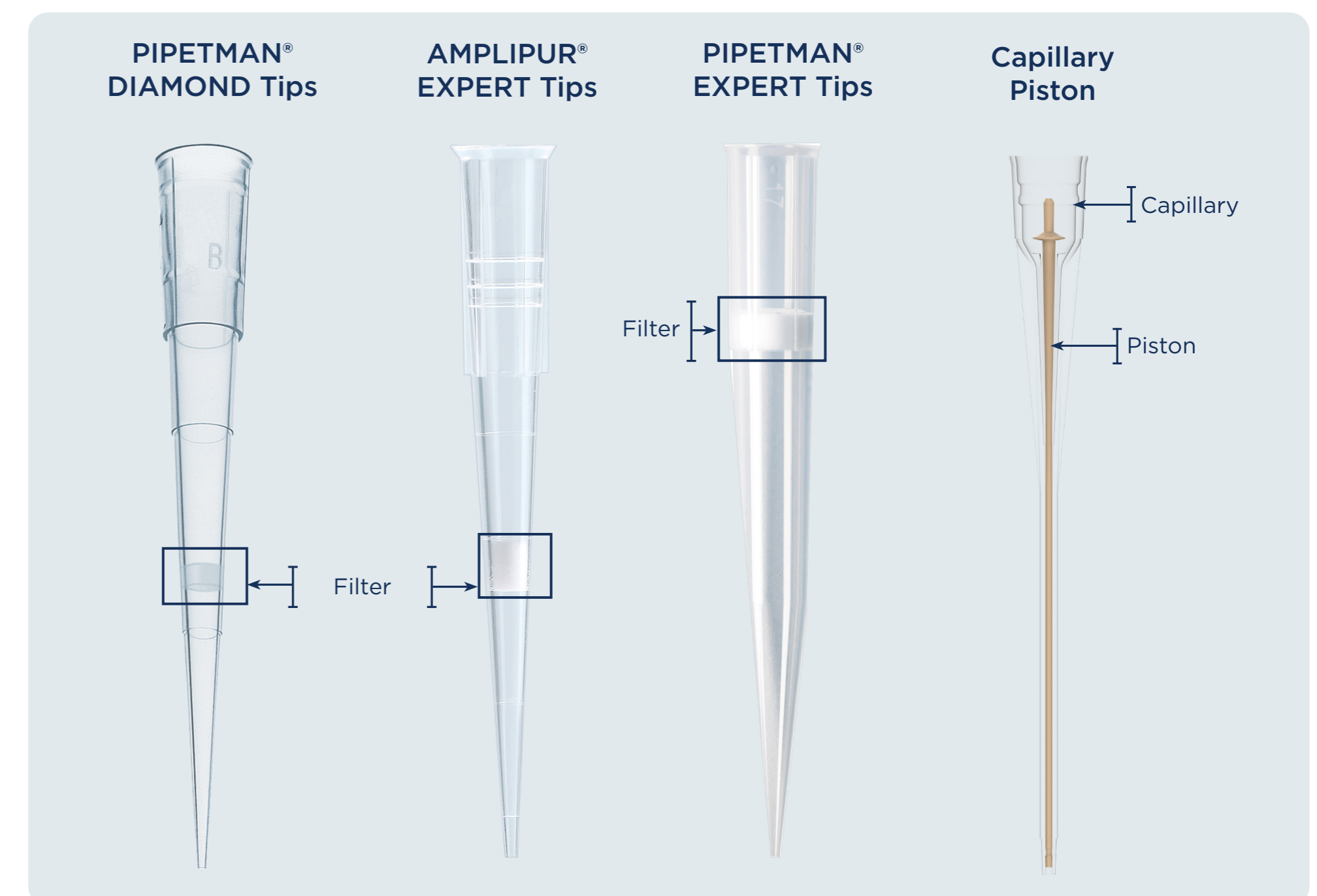
Gilson Consumable	Nominal Volume	Volume Range	With or Without Filter	RACK (TIPACK)		TOWERPACK (RELOAD)	BULK (MEGAPACK & EASYPACK)	Consumable Length (mm)	Inner Diameter Tip Point (mm)	Component Materials	Sterilization Method* (Sterile References Only)
				Gilson Standard	Sterile	Gilson Standard	Gilson Standard				
				Autoclavable, Free of RNase, DNase, Human DNA, Pyrogens, PCR Inhibitors	Free of RNase, DNase, RNA, DNA, Pyrogens, PCR Inhibitors	Autoclavable, Free of RNase, DNase, Human DNA, Pyrogens, PCR Inhibitors	Autoclavable, Free of RNase, DNase, Human DNA, Pyrogens, PCR Inhibitors				
PIPETMAN® EXPERT Tips	10 µL (short collar)	0.1-10 µL	Filter tips	-	F1731031, F1731032	-	-	28.83	Tips: Polypropylene Filter: Polyethylene Rack: Polypropylene Tray: Polypropylene Rack lid: Polypropylene	Sterility Assurance Level SAL 10 <sup>-6</sup> by gamma radiation	
		0.1-10 µL	Non filter tips	F1731001, F1731002, F1731181, F1731182, F1731281, F1731282	F1731011, F1731012	-	-	28.83 (TIPACK/STERILIZED TIPACK) 45.72 (GEL LOADING TIPS)			0.38
	10 µL (long collar)	0.1-10 µL	Filter tips	-	F1732031, F1731032	-	-	45.34			0.38
		0.1-20 µL	Non filter tips	F1732001, F1732002	F1732011, F1732012	F1732051, F1732052, F1732061	F1732071, F1732072, F1734511, F1734512	51.44			0.45
	20 µL	1-20 µL	Filter tips	-	F1733031, F1733032	-	-	51.44			0.45
	100 µL	1-100 µL	Filter tips	-	F1734031, F1734032	-	-	58.57			0.45
		1-100 µL	Non filter tips	F1733001, F1733002, F1733181, F1733182, F1733281, F1733282	F1733011, F1733012, F1733381, F1733382, F1733481, F1733482	F1733051, F1733052, F1733061	F1733071, F1733072, F1739311, F1739312	51.44 (TIPACK/STERILIZED TIPACK/TOWERPACK/MEGAPACK/EASYPACK) 82.55 (GEL LOADING TIPS)			0.45
	300 µL	1-300 µL	Filter tips	-	F1736031, F1736032	-	-	77.50			0.5
		1-300 µL	Non filter tips	F1736001, F1736002	F1736011, F1736012	F1736051, F1736052, F1736061	-	58.57			0.5
	1000 µL	50-1250 µL	Filter tips	-	F1737031, F1737032	-	-	102.2			0.81
	50-1250 µL	Non filter tips	F1735001, F1735002	F1735011, F1735012	F1735051, F1735052, F1735061	-	102.2	0.81			



PIPETMAN EXPERT TIPS are available in select countries only.

Gilson Consumable	Nominal Volume	Volume Range	With or Without Filter	RACK (TIPACK)	Consumable Length (mm)	Inner Diameter Tip Point (mm)	Component Materials
				Gilson Standard			
				Free of RNase, DNase			
Amplipur® Expert Tips	10 µL	0.5-10 µL	Filter tips	F174101	39.1	0.4	Tips: Polypropylene Filter: Polyethylene Rack: Polypropylene Tray: Polypropylene Rack lid: Polypropylene
	20 µL	1-20 µL	Filter tips	F174201	52	0.5	
	200 µL	10-200 µL	Filter tips	F174301	59.3	0.5	
	1000 µL	100-1000 µL	Filter tips	F174401	88	0.9	
	1200 µL	100-1200 µL	Filter tips	F174501	101.5	0.9	

Gilson Consumable	Volume Range	RACK (TIPACK ASSEMBLED)		BULK (TO BE ASSEMBLED)		Consumable Length (mm)	Inner Diameter Tip Point (mm)	Component Materials	Sterilization Method* (Sterile References Only)
		Gilson Standard	Sterile	Gilson Standard	Gilson Standard				
		No Trace of Metal	Free of DNA, RNA, RNase, DNase, Pyrogens	No Trace of Metal	No Trace of Metal				
Capillary Piston	1-10 µL	F148412, F148312	F148413, F148313	-	-	45.1	0.66	Capillary: Polypropylene Piston: Liquid Crystal Polymer	Sterility Assurance Level SAL 10 <sup>-6</sup> by beta radiation
	3-25 µL	F148012	F148712	F148112	-	86.2	0.89	Rack: Polypropylene	Sterility Assurance Level SAL 10 <sup>-6</sup> by ETO (Ethylene Oxide)
	20-50 µL	F148013	F148713	F148113	-	86.35	1.26	Tray: Polypropylene Rack lid: Polypropylene	
	10-100 µL	F148414, F148314	F148415, F148315	-	-	41.8	0.5	Capillary: Polypropylene Piston: High Density Polyethylene	Sterility Assurance Level SAL 10 <sup>-6</sup> by ETO (Ethylene Oxide)
	50-250 µL	F148014	F148714	F148114	-	86.45	0.9	Rack: Polypropylene Tray: Polypropylene Rack lid: Polypropylene	
	100-1000 µL	F148560	F148180	-	-	70.4	1.02	Capillary: Polypropylene Piston: Polyoxyethylene Rack: Polypropylene Tray: Polypropylene Rack lid: Polypropylene	Sterility Assurance Level SAL 10 <sup>-6</sup> by beta radiation



Gilson Consumable	Volume Range	BULK	INDIVIDUALLY WRAPPED	Consumable Length (mm)	Inner Diameter Tip Point (mm)	Component Materials	Sterilization Method* (Sterile References Only)
		Gilson standard	Pre-Sterile				
		No Trace of Metal Free of RNase, DNase**	Free of DNA, RNA, RNase, DNase, Pyrogens				
DISTRITIPS	125 µL Aliquot: 1-12.5 µL	F164100	F164130	102	0.4	Capillary: Polypropylene Piston: High Density Polyethylene	Sterility Assurance Level between SAL 10 <sup>-2</sup> and SAL 10 <sup>-3</sup> by gamma radiation
	1250 µL Aliquot: 10-125 µL	F164110	F164140	93.5	0.5	Capillary: Polypropylene Piston: High Density Polyethylene	
	12.5 mL Aliquot: 0.1-1.25 mL	F164120	F164150	112	1	Capillary: Polypropylene Piston: High Density Polyethylene	

Gilson Consumable	Volume Range	BULK	INDIVIDUALLY WRAPPED	Consumable Length (mm)	Inner Diameter Tip Point (mm)	Component Materials	Sterilization Method* (Sterile References Only)
		Gilson Standard	Sterile				
		No Trace of Metal Free of RNase, DNase**	Free of DNA, RNA, RNase, DNase, Pyrogens				
REPET-TIPS	0.1 mL	F164510	F164515	95.6	-	Capillary: Liquid Crystal Polymer Piston: High Density Polyethylene	Sterility Assurance Level SAL 10 <sup>-6</sup> by beta radiation
	0.5 mL	F164520	F164525	96	3.2	Capillary: Polypropylene Piston: High Density Polyethylene	
	1 mL	F164527	F164528	109.5	5.3		
	1.25 mL	F164530	F164535	109.5	5.3		
	2.5 mL	F164540	F164545	109.5	5.3		
	5 mL	F164550	F164555	127	6.2		
	10 mL	F164557	F164558	127.5	6.2		
	12.5 mL	F164560	F164565	127.5	1.5		
	25 mL	F164570	F164575	154.7	2.3		
	50 mL	F164580	F164585	156.7	2.5		

REPET-TIPS are not available in US.

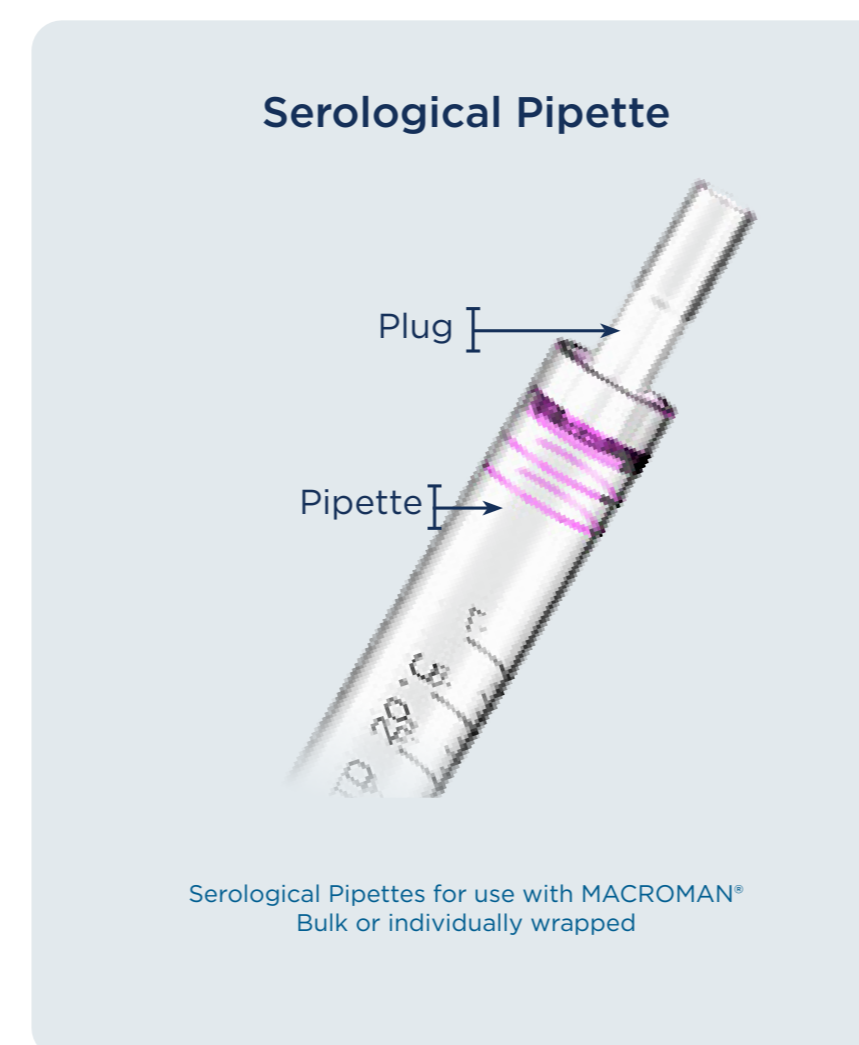
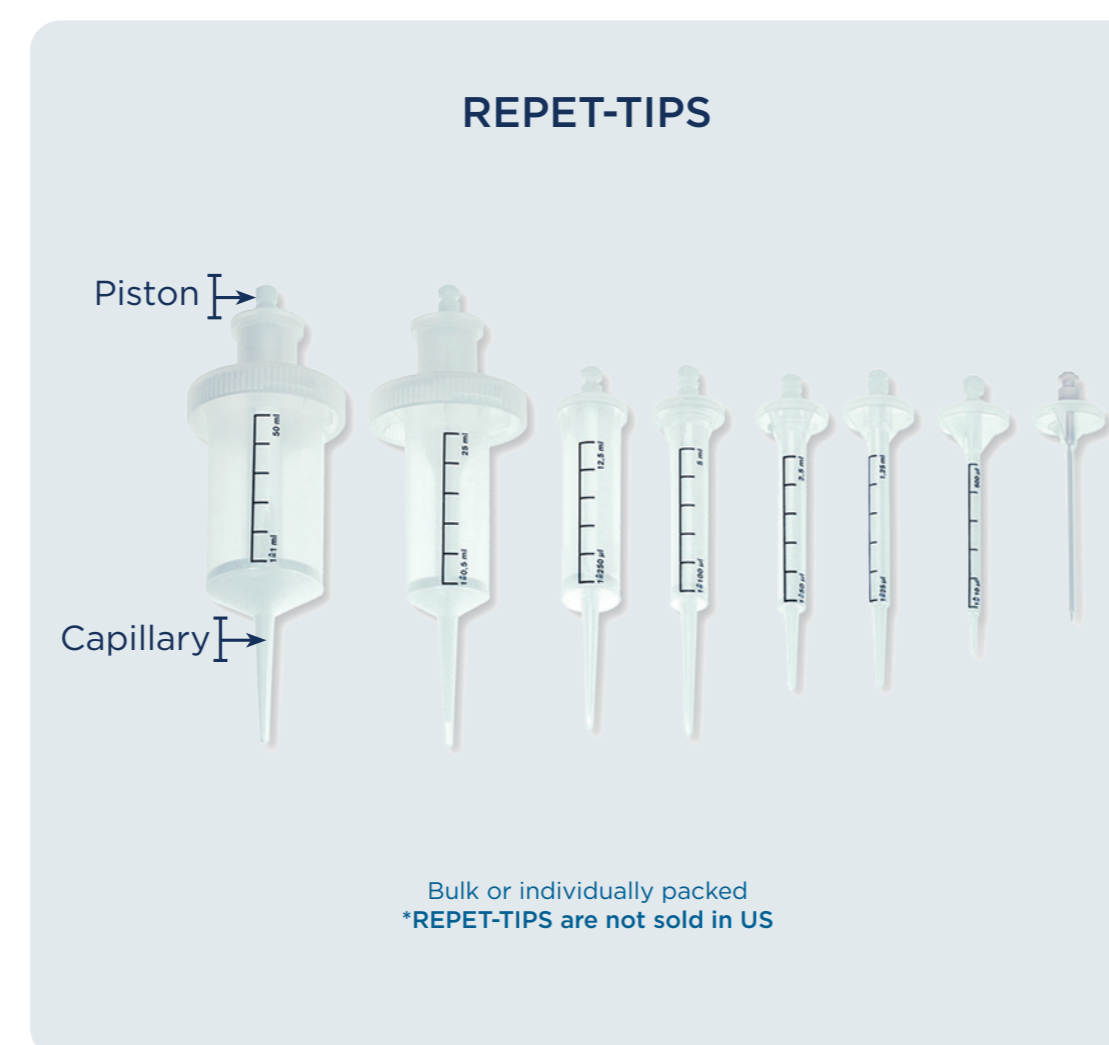
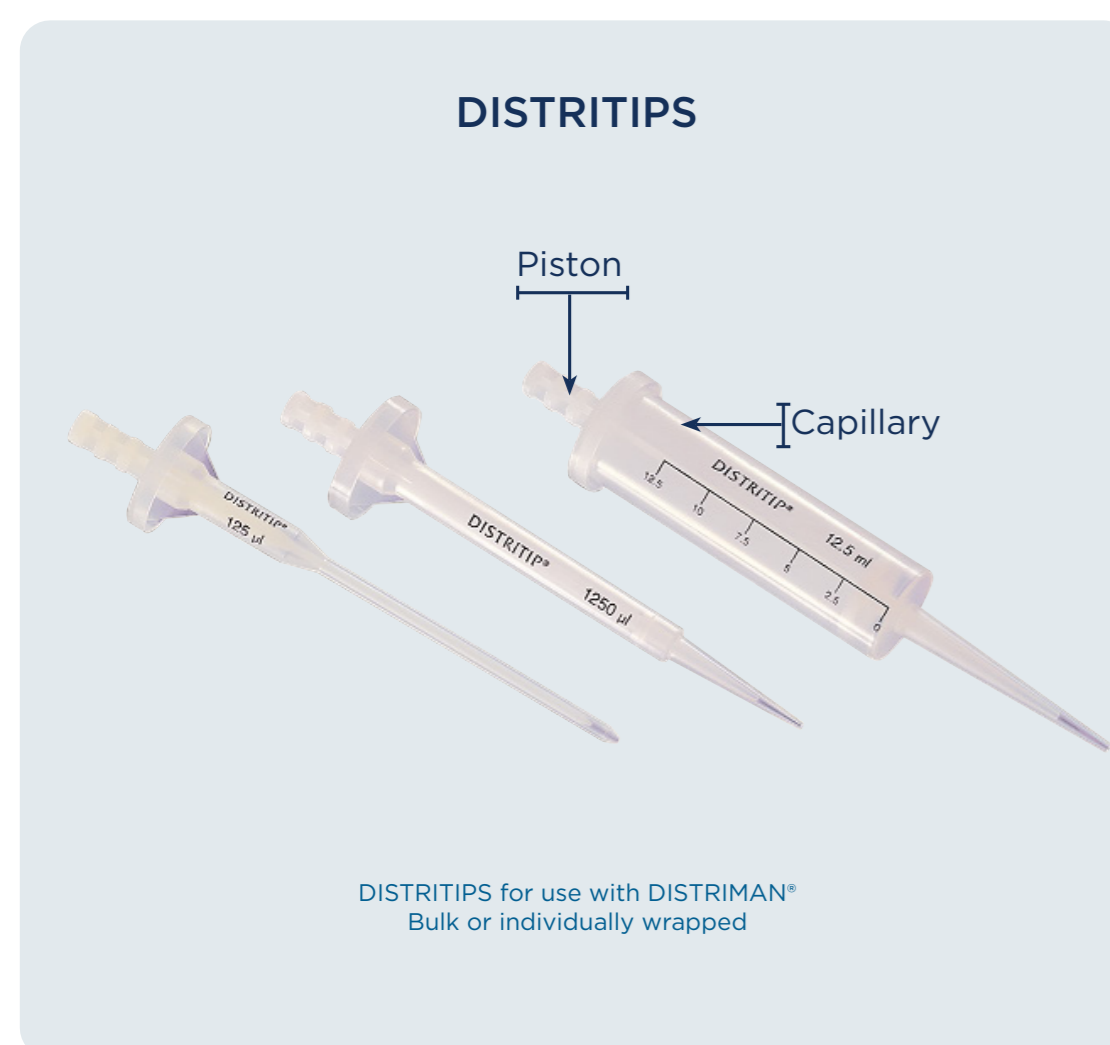
Gilson Consumable	Volume Range	BULK	INDIVIDUALLY WRAPPED	Consumable Length (mm)	Inner Diameter Tip Point (mm)	Component Materials	Sterilization Method* (Sterile References Only)
		Sterile	Sterile				
		Free of RNase, DNase, Pyrogens	Free of RNase, DNase, Pyrogens				
Serological pipettes	1 mL	F110121	F110122	279.40	1.67	Pipette: USP Class VI Polystyrene Plug: Polyester	Sterility Assurance Level SAL 10 <sup>-3</sup> by gamma radiation
	2 mL	F110123	F110124	282.58	1.63		
	5 mL	F110125	F110126	348.15	1.57		
	10 mL	F110127	F110128	346.81	1.57		
	25 mL	F110129	F110130	310.90	2.36		
	50 mL	-	F110131	368.17	3.18		

## Chemical Resistance of Plastics

Product	Steel	PET	Nitril	EPDM	LCP	PA	PBT	PC	PE	PVDF	TPX	POM	PP
Acetamide		++	N/A	++	++	N/A	++	N/A	++	N/A	N/A	++	++
Ethyl acetate		++	+	-	++	++	++	++	++	++	+	N/A	++
Acetone		++	+	-	++	++	++	-	++	++	+	+	++
Acetonitrile		++	N/A	+	++	+	N/A	N/A	-	++	+	N/A	++
Acetic acid	20 %	++	++	+	++	++	++	N/A	++	++	++	++	++
	50 %	++	++	+	++	++	-	N/A	+	++	++	++	++
	100 %	++	++	-	++	+	-	N/A	-	++	++	+	++
Hydrochloric acid	10 %	-	++	++	++	++	-	++	++	++	++	++	++
	20 %	-	+	+	++	++	-	+	++	++	++	++	++
	37 %	-	-	-	++	++	-	+	++	++	++	-	++
Hydrofluoric acid	20 %	+	+	-	++	+	-	+	++	++	++	+	++
	40 %	-	+	-	++	-	-	+	++	++	++	+	++
Formic acid	100 %	++	N/A	-	++	++	-	+	-	++	++	N/A	+
Nitric acid	10 %	++	++	+	++	++	-	++	++	++	++	+	++
	30 %	++	+	-	+	++	-	+	++	++	++	-	++
	65 %	++	-	-	-	+	-	+	+	++	++	-	-
Phosphoric acid	20 %	++	N/A	+	++	N/A	-	++	++	++	++	+	++
	85 %	++	N/A	-	++	N/A	-	++	++	++	++	-	++
Propionic acid	50 %	++	-	+	N/A	N/A	++	++	+	++	++	N/A	-
	100 %	++	-	-	N/A	N/A	+	++	-	++	++	N/A	-
Sulfuric acid	20 %	++	++	+	+	++	+	++	++	++	++	+	++
	50 %	++	++	-	+	++	-	+	++	++	++	-	++
	95 %	++	+	-	-	-	-	+	+	+	++	-	+
Trifluoroacetic acid	20 %	++	N/A	-	N/A	N/A	+	N/A	++	++	++	++	++
	80 %	++	N/A	-	N/A	N/A	-	N/A	+	++	++	N/A	+
	100 %	++	N/A	-	N/A	N/A	-	N/A	-	++	++	N/A	-
Benzyl alcohol		++	++	-	N/A	N/A	+	N/A	-	++	++	-	++
Aniline		++	-	+	++	N/A	++	N/A	-	+	++	N/A	++
Butanol / Butyl alcohol		++	++	++	++	N/A	++	++	++	++	++	N/A	++
Chloroform		++	-	-	-	N/A	+	-	-	+	++	+	-
Cyclohexane		++	++	++	-	N/A	++	N/A	++	++	-	+	++
Diacetone alcohol		++	++	+	N/A	N/A	N/A	N/A	N/A	+	N/A	N/A	++
Methylene chloride		++	+	-	-	N/A	-	-	-	+	++	++	+
Diethylene glycol		++	N/A	++	++	++	N/A	N/A	++	++	++	++	++
Dimethylformamide (DMF)		++	++	-	+	++	++	++	++	++	++	++	++
Dimethylsulfoxide (DMSO)		++	N/A	-	N/A	N/A	+	N/A	-	++	N/A	N/A	N/A
Dioxane (1,4)		++	++	-	+	N/A	++	++	-	++	+	N/A	++
Ethanol		++	++	++	++	++	++	++	++	++	++	++	++
Ether		++	++	++	+	N/A	++	++	++	+	++	+	++
Formaldehyde		++	++	++	++	N/A	++	N/A	++	++	++	++	++
Hexane		++	N/A	++	-	+	++	++	++	+	++	+	++
Hydrogen peroxide	50 %	++	N/A	+	++	N/A	++	++	++	++	++	++	++
Ammonium hydroxide	20 %	++	++	++	++	N/A	N/A	+	-	++	N/A	++	++
Sodium hydroxide	10 %	++	+	++	++	++	++	+	-	++	++	++	++
	40 %	++	-	+	++	++	++	+	-	++	++	++	++
Sodium hypochlorite	15 % Cl	+	N/A	+	++	++	++	++	++	++	++	-	+
Methanol		++	++	++	++	+	++	++	+	++	++	++	++
Methyl ethyl ketone		++	++	-	+	++	++	++	-	++	-	+	++
Pentane		++	N/A	++	-	N/A	N/A	++	++	++	++	+	++
Tetrahydrofuran (TH-)		++	++	+	+	+	++	+	-	-	+	+	N/A
Urea		++	++	N/A	N/A	-	++	++	N/A	++	++	N/A	++

PET = Polyethylene Terephthalate  
Nitril = Nitrile  
EPDM = Ethylene Propylene  
LCP = Liquid Cristal Polymer  
PA = Polyamide  
PBT = Polybutylene Terephthalate  
PC = Polycarbonate  
PE = Polyethylene  
PVDF = Polyvinylidene fluoride

TPX = Polymethylpentene  
POM = Polyoxymethylene  
PP = Polypropylene  
++ No chemical degradation  
+ Medium resistance to chemical agents  
- Low resistance to chemical agents  
N/A No data available



For additional information, please contact your local Gilson sales representative.

\*Sterility Assurance Level SAL (ISO 11137): quantitative value to assure sterility SAL 10<sup>-6</sup>. Probability of 1 in 1.000.000 of finding a non-sterile unit.

\*\*Tips have been verified to be free of RNase and DNase.

More details are available in the Gilson Product Guide.