

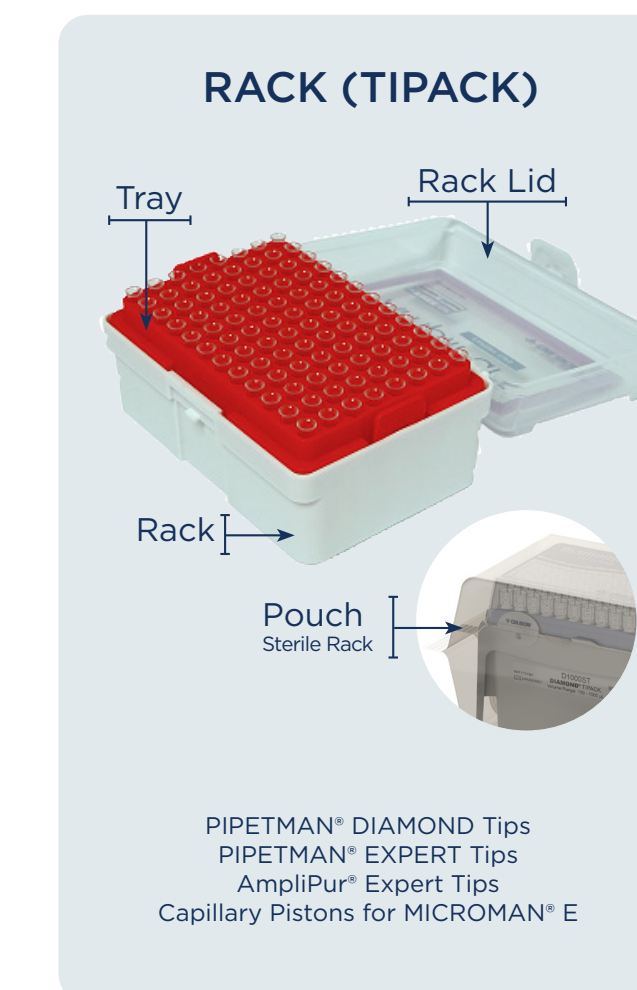


Gilson Consumable Data

| 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) | | |
|------------------------|----------------------|------------------------|--------------------------------|---------------------------------|--------------------|---------------------------------|-----------------------|---------------------------------|--------------|---------------------------|---|---|------------------------|-------------------------------|--|--|------------------------|--|
| | | | | Autoclavable, No Trace of Metal | Sterile | Autoclavable, No Trace of Metal | Sterile | Autoclavable, No Trace of Metal | Sterile | No Trace of Metal | Free of Nucleic Acid, Nuclease, Pyrogens, & Metal | Free of Nucleic Acid, Nuclease, Pyrogens, & Metal | | | | | | |
| | | | | | | | | | | | | | | | | | Free of RNase, DNase** | |
| | | | | | | | | | | | | | | | | | Free of RNase, DNase** | |
| PIPETMAN® DIAMOND Tips | 10 µL (short collar) | 0.1-10 µL | Filter tips Non filter tips | - F171100 | F171103 F171101 | - F171100 | - F171101 | - F167101 | - F167201 | - F161630, F161631 | - - | - - | 30 45 | 0.4 0.4 | Tips: Polypropylene Filter: Polyethylene Rack: Polypropylene Tray: Polypropylene Rack lid: Polypropylene | Sterility Assurance Level SAL 10 ⁻⁶ by gamma or x-Ray radiation | | |
| | 10 µL (long collar) | 0.1-10 µL 0.1-20 µL | Filter tips Non filter tips | - F171200 | - F171201 | - F167012, F172200, F172210 | - F172203, F172213 | - F167102 | - F167202 | - F161450, F161451 | - - | - - | 51 | 0.4 | | | | |
| | 30 µL | 2-30 µL | Filter tips | - | F171303 | - | F172303, F172313 | - | - | - | - | - | 51 | 0.4 | | | | |
| | 100 µL | 10-100 µL | Filter tips | - | F171403 | - | F172403 | - | - | - | - | - | 51 | 0.4 | | | | |
| | 200 µL | 20-200 µL | Filter tips Non filter tips | - F171300 | - F171301 | - F167013, F172300, F172310 | - F172301, F172311 | - F167103 | - F167203 | - F161930, F161931 | - - | - F161330 | 51 | 0.4 | | | | |
| | 300 µL | 10-300 µL | Filter tips Non filter tips | - F171400 | - F171401 | - F172400 | - F172401 | - F167105 | - F167205 | - F161730, F161731 | - - | - - | 51 | 0.4 | | | | |
| | 1000 µL | 100-1000 µL | Filter tips Non filter tips | - F171500 | - F171501 | - F167014, F172500, F172510 | - F172501, F172511 | - F167104 | - F167204 | - F161670, F161671 | - - | - F161340 | 66 | 0.85 | | | | |
| | 1200 µL | 50-1200 µL | Filter tips 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 | | | | |

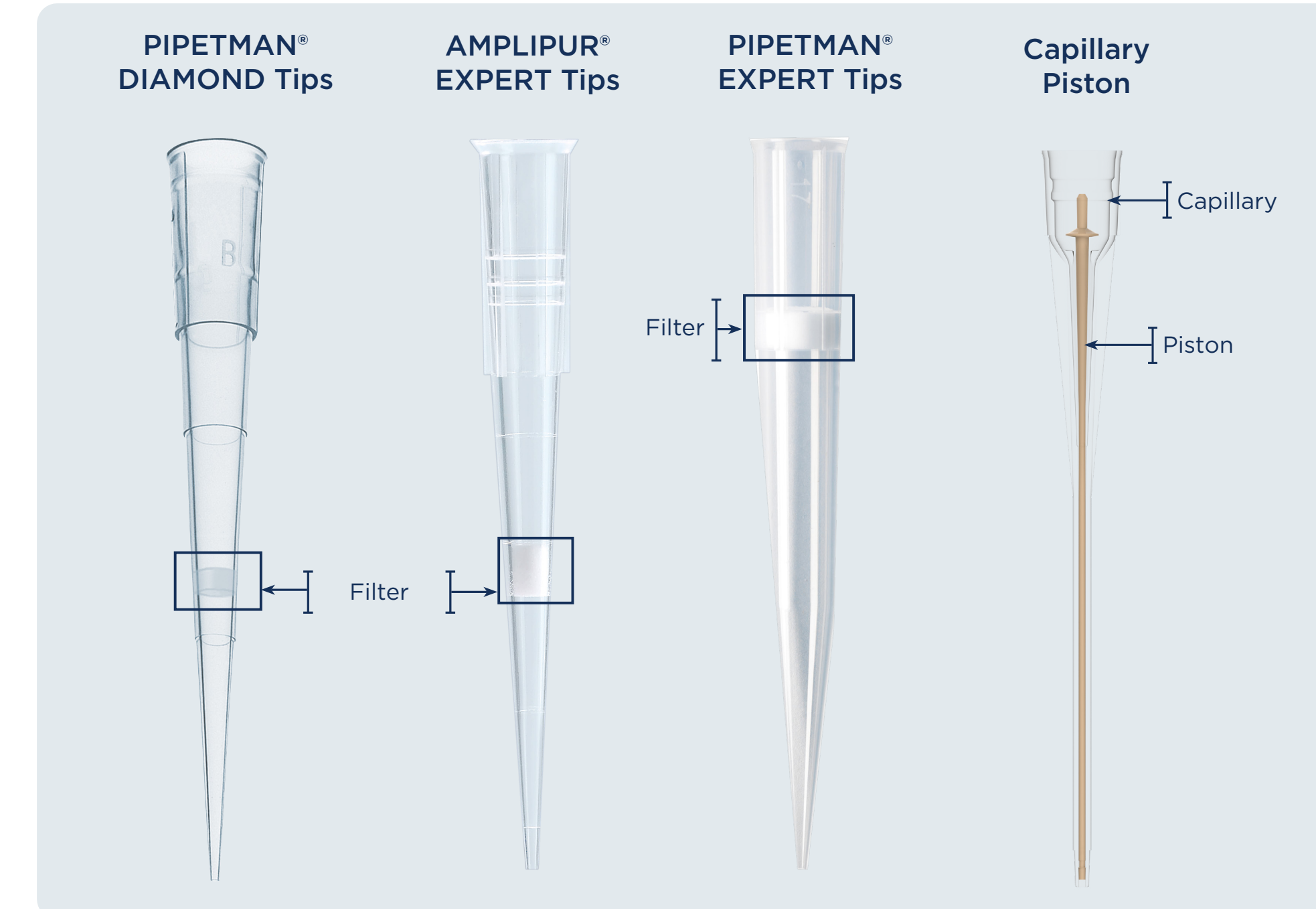
| Gilson Consumable | Nominal Volume | Volume Range | With or Without Filter | RACK (TIPACK) | | TOWERPACK (RELOAD) | BULK (MEGAPACK & EASYPACK) | Consumable Length (mm) | Inner Diameter Tip Point (mm) | Component Materials | Sterilization Method* (Sterile References Only) |
|-----------------------|----------------------|------------------------|--------------------------------|---|---|---|---|--|-------------------------------|--|---|
| | | | | Free of RNase, DNase, Human DNA, Pyrogens, PCR Inhibitors | Free of RNase, DNase, Human DNA, Pyrogens, PCR Inhibitors | Free of RNase, DNase, Human DNA, Pyrogens, PCR Inhibitors | Free of RNase, DNase, Human DNA, Pyrogens, PCR Inhibitors | | | | |
| | | | | | | Free of RNase, DNase, Human DNA, Pyrogens, PCR Inhibitors | Free of RNase, DNase, Human DNA, Pyrogens, PCR Inhibitors | | | | |
| PIPETMAN® EXPERT Tips | 10 µL (short collar) | 0.1-10 µL | Filter tips Non filter tips | - F1731001, F1731002, F1731181, F1731182, F1731281, F1731282 | F1731031, F1731032 | - | - | 28.83 28.83 (TIPACK/STERILIZED TIPACK) 45.72 (GEL LOADING TIPS) | 0.38 | Tips: Polypropylene Filter: Polyethylene Rack: Polypropylene Tray: Polypropylene Rack lid: Polypropylene | Sterility Assurance Level SAL 10 ⁻⁶ by gamma radiation |
| | 10 µL (long collar) | 0.1-10 µL 0.1-20 µL | Filter tips Non filter tips | - F1732001, F1732002 | F1732031, F1731032 | - F1732051, F1732052, F1732061 | F1732071, F1732072, F1734511, F1734512 | 45.34 | 0.38 | | |
| | 20 µL | 1-20 µL | Filter tips | - | F1733031, F1733032 | - | - | 51.44 | 0.45 | | |
| | 100 µL | 1-100 µL | Filter tips | - | F1734031, F1734032 | - | - | 51.44 | 0.45 | | |
| | 200 µL | 1-200 µL | Filter tips Non filter tips | - F1733001, F1733002, F1733181, F1733182, F1733281, F1733282 | F1735031, F1735032 | - F1733051, F1733052, F1733061 | F1733071, F1733072, F1733931, F1733932 | 51.44 (TIPACK/STERILIZED TIPACK/TOWERPACK/MEGAPACK/EASYPACK) 82.55 (GEL LOADING TIPS) | 0.45 | | |
| | 300 µL | 1-300 µL | Filter tips Non filter tips | - F1736001, F1736002 | F1736031, F1736032 | - F1736051, F1736052, F1736061 | - | 77.50 58.57 | 0.5 | | |
| | 1000 µL | 50-1250 µL | Filter tips Non filter tips | - F1735001, F1735002 | F1737031, F1737032 | - 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) | | Consumable Length (mm) | Inner Diameter Tip Point (mm) | Component Materials | Sterilization Method* (Sterile References Only) | |
|-------------------|--------------|-------------------------|------------------|------------------------|--|---|--|--|
| | | No Trace of Metal | Sterile | | | | | |
| | | | | | | | | Free of DNA, RNA, RNase, DNase, Pyrogens |
| | | | | | | | | |
| Capillary Piston | 1-10 µL | F148412, F148312 | F148413, F148313 | 45.1 | 0.66 | Capillary: Polypropylene Piston: Liquid Crystal Polymer | Sterility Assurance Level SAL 10 ⁻⁶ by beta radiation | |
| | 3-25 µL | F148012 | F148712 | 86.2 | 0.89 | Rack: Polypropylene Tray: Polypropylene Rack lid: Polypropylene | Sterility Assurance Level SAL 10 ⁻⁶ by ETO (Ethylene Oxide) | |
| | 20-50 µL | F148013 | F148713 | 86.35 | 1.26 | | | |
| | 10-100 µL | F148414, F148314 | F148415, F148315 | 41.8 | 0.5 | Capillary: Polypropylene Piston: High Density Polyethylene | Sterility Assurance Level SAL 10 ⁻⁶ by ETO (Ethylene Oxide) | |
| | 50-250 µL | F148014 | F148714 | 86.45 | 0.9 | Rack: Polypropylene Tray: Polypropylene Rack lid: Polypropylene | | |
| 100-1000 µL | F148560 | F148180 | 70.4 | 1.02 | Capillary: Polypropylene Piston: Polyoxymethylene | Sterility Assurance Level SAL 10 ⁻⁶ by beta radiation | | |

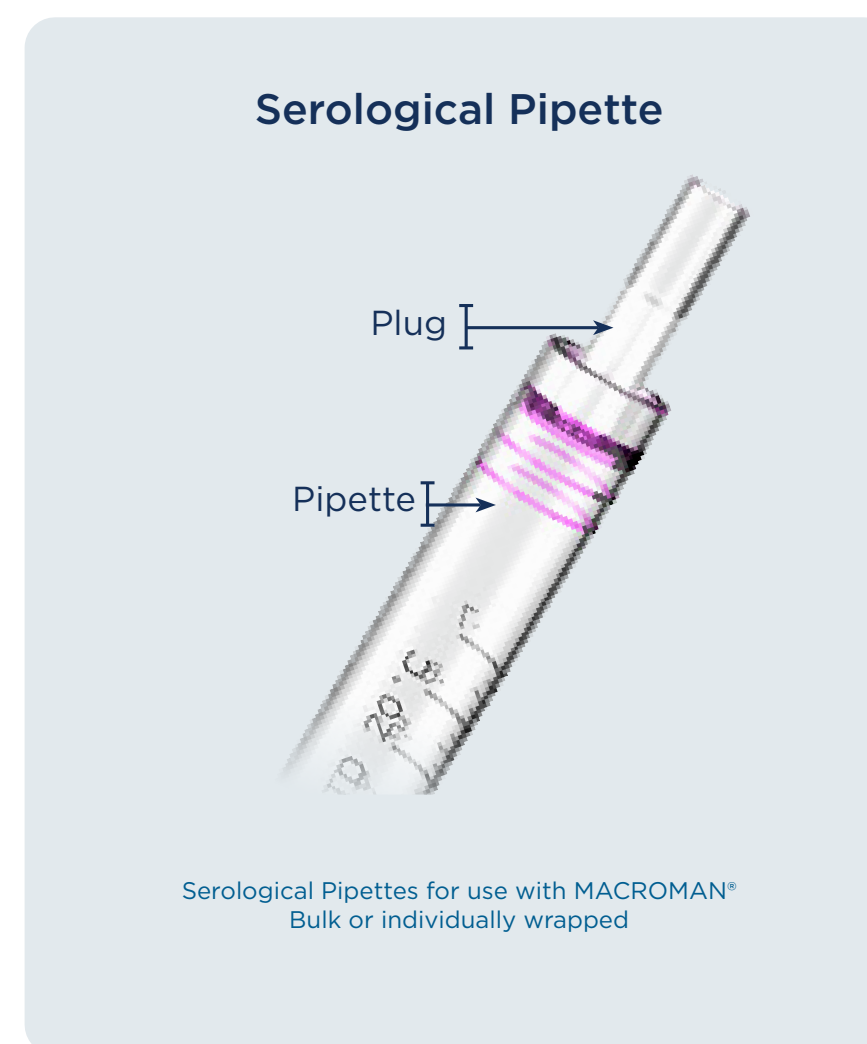
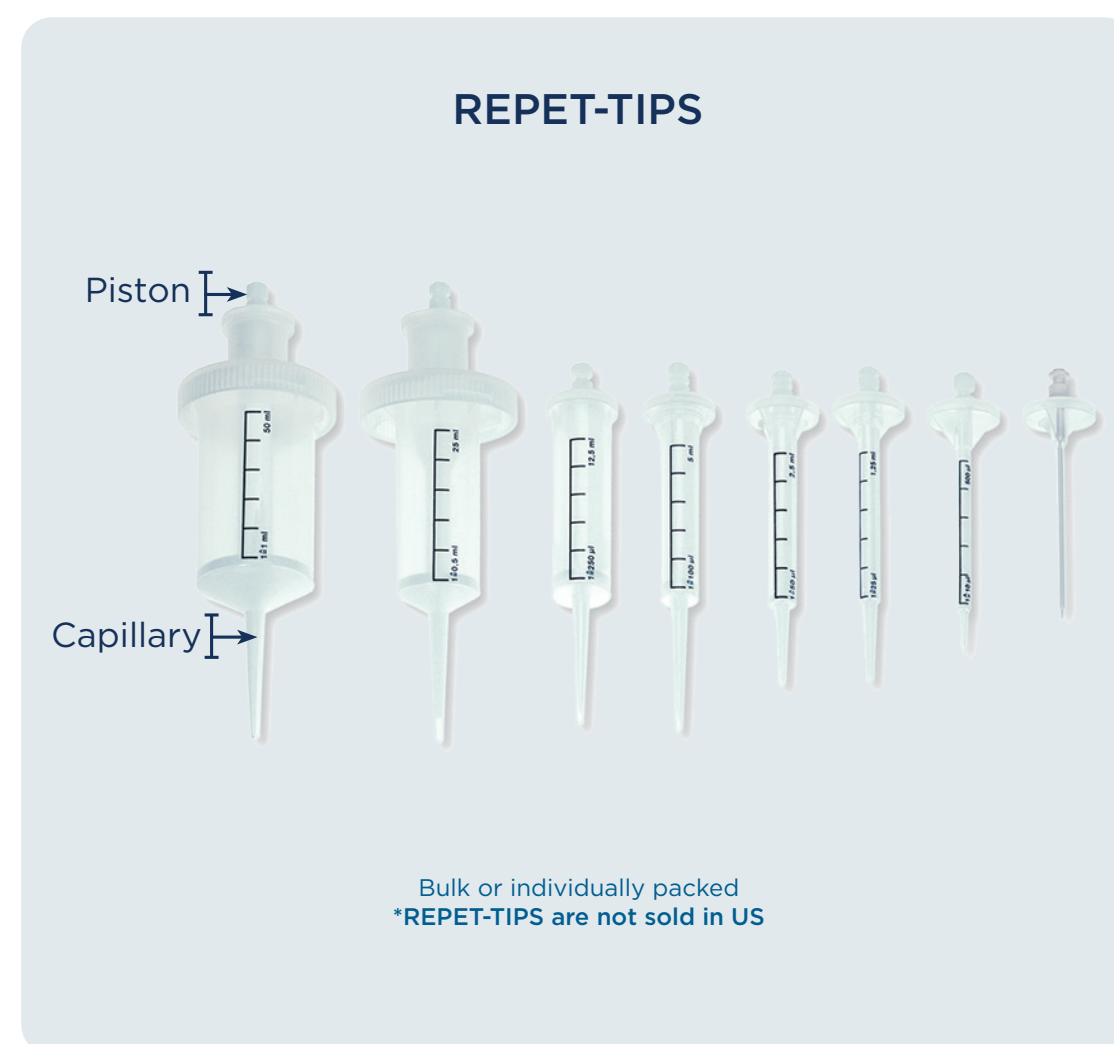
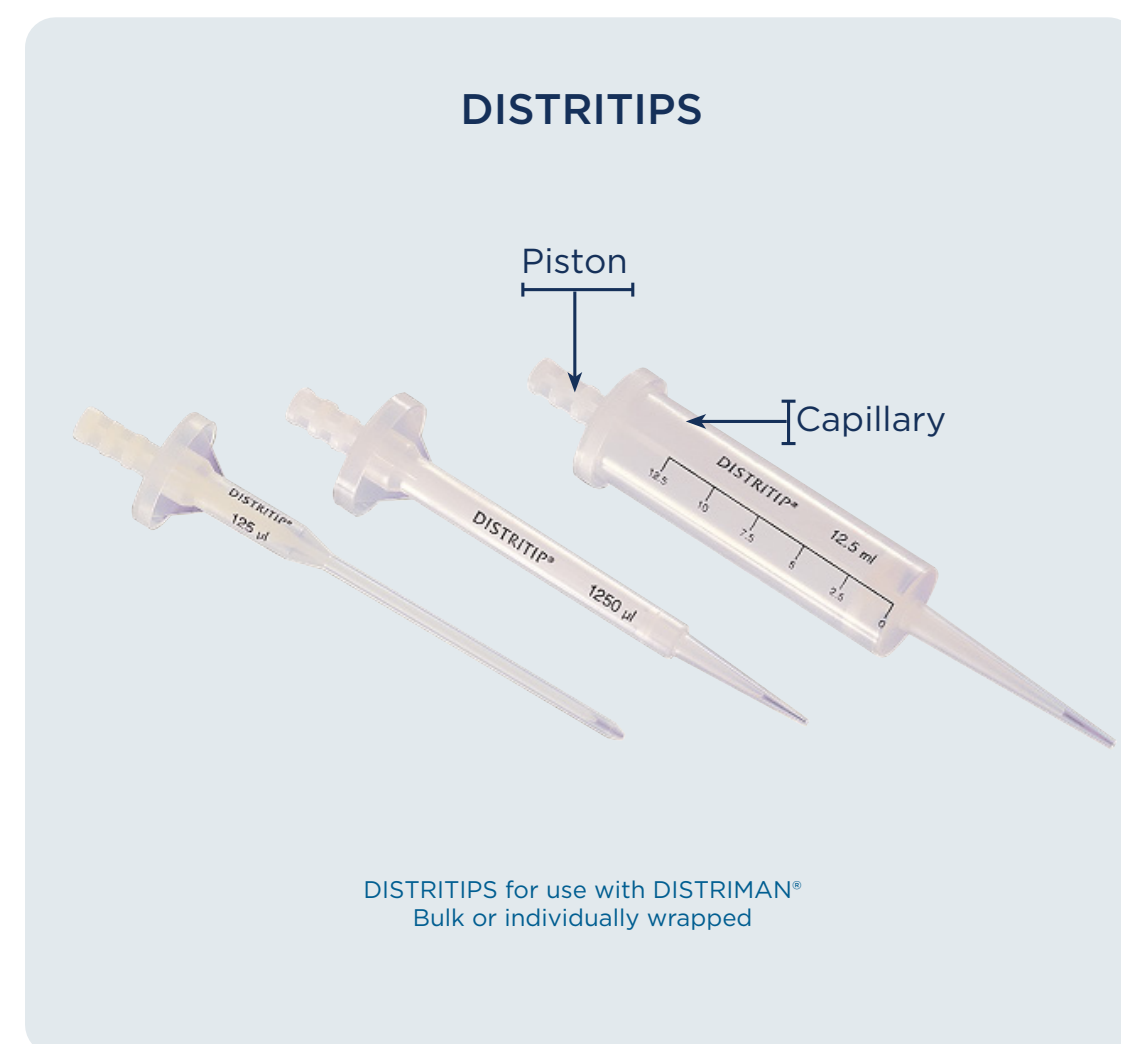


| Gilson Consumable | Volume Range | BULK | INDIVIDUALLY WRAPPED | Consumable Length (mm) | Inner Diameter Tip Point (mm) | Component Materials | Sterilization Method* (Sterile References Only) |
|-------------------|---------------------------------|---|--|------------------------|-------------------------------|---|--|
| | | 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 ⁻² and SAL 10 ⁻³ 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 ⁻⁶ by beta radiation |
| | 0.5 mL | F164520 | F164525 | 96 | 3.2 | | |
| | 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 | Capillary: Polypropylene Piston: High Density Polyethylene | |
| | 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 ⁻³ 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 | N/A | ++ | ++ |
| Ethyl acetate | | ++ | + | - | ++ | ++ | ++ | ++ | ++ | ++ | + | N/A | ++ | ++ |
| Acetone | | ++ | + | - | ++ | ++ | ++ | - | ++ | ++ | + | + | ++ | ++ |
| Acetonitrile | | ++ | N/A | + | ++ | + | 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 | ++ | ++ | ++ | 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 | N/A | ++ | ++ | ++ | ++ | ++ |
| Dimethylformamide (DMF) | | ++ | ++ | - | + | ++ | ++ | ++ | - | ++ | - | ++ | ++ | ++ |
| Dimethylsulfoxide (DMSO) | | ++ | N/A | - | 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 | 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 10⁻⁶. 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.