

# User's Guide







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## INTRODUCTION

PIPETMAN® Classic, the pipetting standard, is a fully adjustable, air-displacement pipette that is used with disposable tips. The PIPETMAN Classic offers a large range of accurate and precise pipettes.

Eight single channel models cover a volume range from 0.2  $\mu L$  to 10 mL for many applications:

- P2 and P10: measurement and transfer of microliter volumes, DNA sequencing, and enzyme assays.
- **P20, P100, P200, and P1000**: measurement and transfer of general aqueous solutions, acids, and bases.
- P5000 and P10mL: measurement and transfer of large volumes.

### Parts Checklist

After unpacking the pipette, verify that the following items were included and are undamaged:

- PIPETMAN Classic
- PIPETMAN Classic Quick Guide
- P2 and P10 dual-position adapter
- Safety bag
- Certificate of Conformity (including barcode sticker)

### **GLP Compliant**

The **serial number** is engraved on the body of the pipette. It provides unique identification of your pipette and the date of manufacture.

#### Ex: **QG10369**

NOTE

The **barcode** on the box and the Certificate of Conformity provide traceability of your pipette.

#### The updated line of PIPETMAN Classic is identified with an underlined serial number starting from <u>QG</u>.



Serial Number

Figure 1 Serial number location



#### Figure 2

INTRODUCTION

PIPETMAN® Classic single channel model

### Specifications

PIPETMAN Classic is a high quality pipette that offers excellent accuracy and precision. The data provided in the <u>Maximum Permissible Errors</u> table were obtained using PIPETMAN<sup>®</sup> DIAMOND Tips. These values are guaranteed only when genuine PIPETMAN<sup>®</sup> DIAMOND Tips are used.

Each pipette is inspected and validated by qualified technicians in accordance with the Gilson Quality System. Gilson declares that its manufactured pipettes comply with the requirements of the ISO 8655 standard by type testing. The adjustment is carried out under strictly defined and monitored conditions (ISO 8655-6).

\*Plastic tip ejector available as an accessory. Refer to ACCESSORIES on page 11.

#### 4 INTRODUCTION | PIPETMAN® CLASSIC

### **Maximum Permissible Errors**

The data provided in the following tables conform to the ISO 8655-2 standard. With a precise pipetting technique (refer to <u>Guidelines for Good Pipetting</u> on page 9), the P2 model may be used to aspirate volumes as low as 0.1  $\mu$ L and the P10 model as low as 0.5  $\mu$ L.

VOLUME (µL)         OLESON         RANDOM ERROR(µL)         SYSTEMATIC ERROR (µL)         RANDOM ERROR (µL)           92 (P/N F14/EXD)///////////////////////////////////	α5 0.1 με τ	GILSON		ISO 8655	ο.ο με.																																																																																																																																																												
ERROR (µL)         ERROR (µL)         ERROR (µL)         ERROR (µL)         ERROR (µL)           P2 (P/N F144801) WITH         50.012         \$0.08         \$0.04           0.2         \$0.025         \$0.012         \$0.08         \$0.04           0.5         \$0.025         \$0.012         \$0.08         \$0.04           2         \$0.030         \$0.012         \$0.08         \$0.04           2         \$0.030         \$0.012         \$0.08         \$0.04           PIO (P/N F144802)         #0.025         \$0.012         \$0.08         \$0.04           PIO (P/N F144802)         #0.025         \$0.012         \$0.08         \$0.01           10         \$0.025         \$0.030         \$0.12         \$0.08           5         \$0.075         \$0.030         \$0.12         \$0.08           10         \$0.100         \$0.030         \$0.12         \$0.10           \$0.10         \$0.030         \$0.2         \$0.10         \$0.10           \$0.10         \$0.030         \$0.2         \$0.10         \$0.3           \$0.00         \$0.10         \$0.8         \$0.3         \$0.3           \$0.00         \$0.10         \$0.8         \$0.3         \$0.3			1																																																																																																																																																														
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  <math>\pm</math></td><td>P20 (P/N F</td><td>123600) WI</td><td>TH D200 TI</td><td>PS</td><td></td></tr> <tr><td>10<math>\pm 0.10</math><math>\le 0.050</math><math>\pm 0.10</math><math>\le 0.050</math><math>\pm 0.20</math><math>\le 0.050</math><math>\pm 0.20</math><math>\le 0.050</math><math>\pm 0.20</math><math>\le 0.050</math><math>\pm 0.20</math><math>\le 0.050</math><math>\pm 0.20</math><math>\le 0.11</math>20<math>\pm 0.20</math><math>\le 0.060</math><math>\pm 0.2</math><math>\le 0.1</math><math>\pm 0.10</math><math>\pm 0.20</math><math>\le 0.10</math><math>\pm 0.20</math><math>\le 0.1</math><b>PIO0 (P/N = 123615)</b> WTH D200 TEV10<math>\pm 0.35</math><math>\le 0.10</math><math>\pm 0.8</math><math>\le 0.3</math>50<math>\pm 0.40</math><math>\le 0.12</math><math>\pm 0.8</math><math>\le 0.3</math>100<math>\pm 0.80</math><math>\le 0.15</math><math>\pm 0.8</math><math>\le 0.3</math><b>P200 (P/N = 123601)</b> WTH D200 TEV20<math>\pm 1.60</math><math>\le 0.25</math><math>\pm 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6.0</math><math>\le 3.0.0</math>2000<math>\pm 4.0</math><math>\le 10</math><math>\pm 6.0</math>&lt;</td><td>2</td><td>± 0.10</td><td>≤ 0.030</td><td>± 0.2</td><td>≤ 0.1</td></tr> <tr><td><math>\pm 0.20</math> <math>\pm 0.20</math> <math>\pm 0.20</math> <math>\pm 0.2</math> <math>\pm 0.1</math>           P100 (P/N F123615)         <math>\mp H</math> D200 TFF         <math>\pm 0.8</math> <math>\leq 0.3</math>           10         <math>\pm 0.35</math> <math>\leq 0.10</math> <math>\pm 0.8</math> <math>\leq 0.3</math>           50         <math>\pm 0.40</math> <math>\leq 0.12</math> <math>\pm 0.8</math> <math>\leq 0.3</math>           100         <math>\pm 0.80</math> <math>\leq 0.15</math> <math>\pm 0.8</math> <math>\leq 0.3</math>           100         <math>\pm 0.80</math> <math>\leq 0.15</math> <math>\pm 0.8</math> <math>\leq 0.3</math>           P200 (P/N F123601)         <math>\mp 1.60</math> <math>\leq 0.6</math> <math>\leq 0.6</math>           100         <math>\pm 0.80</math> <math>\leq 0.25</math> <math>\pm 1.6</math> <math>\leq 0.6</math>           200         <math>\pm 0.60</math> <math>\leq 0.30</math> <math>\pm 1.6</math> <math>\leq 0.6</math>           100         <math>\pm 0.80</math> <math>\leq 0.25</math> <math>\pm 1.6</math> <math>\leq 0.6</math>           200         <math>\pm 1.60</math> <math>\leq 0.30</math> <math>\pm 1.6</math> <math>\leq 0.6</math>           100         <math>\pm 3.0</math> <math>\leq 0.6</math> <math>\pm 8.0</math> <math>\leq 3.0</math>           1000         <math>\pm 1.0</math> <math>\leq 1.5</math> <math>\pm 8.0</math> <math>\leq 1.50</math>           5000         <math>\pm 12</math> <math>\leq 3</math> <math>\pm 4.0</math> <math>\pm 15.0</math>           5000         <math>\pm 15</math> <math>\leq 5</math>&lt;</td><td>5</td><td>± 0.10</td><td>≤0.040</td><td>± 0.2</td><td>≤ 0.1</td></tr> <tr><td>P100 (P/N F123615) WITH D200 TIPS10<math>\pm</math> 0.35<math>\leq</math> 0.10<math>\pm</math> 0.8<math>\leq</math> 0.350<math>\pm</math> 0.40<math>\leq</math> 0.12<math>\pm</math> 0.8<math>\leq</math> 0.3100<math>\pm</math> 0.80<math>\leq</math> 0.15<math>\pm</math> 0.8<math>\leq</math> 0.3100<math>\pm</math> 0.80<math>\leq</math> 0.15<math>\pm</math> 0.8<math>\leq</math> 0.3P200 (P/N F123601) WITH D200 TIPS20<math>\pm</math> 0.50<math>\leq</math> 0.20<math>\pm</math> 1.6<math>\leq</math> 0.6100<math>\pm</math> 0.80<math>\leq</math> 0.25<math>\pm</math> 1.6<math>\leq</math> 0.6200<math>\pm</math> 1.60<math>\leq</math> 0.30<math>\pm</math> 1.6<math>\leq</math> 0.6P1000 (P/N F123602) WITH D100 TIPS100<math>\pm</math> 3.0<math>\leq</math> 1.6<math>\pm</math> 3.0500<math>\pm</math> 4.0<math>\leq</math> 1.0<math>\pm</math> 8.0<math>\leq</math> 3.01000<math>\pm</math> 8.0<math>\leq</math> 1.5<math>\pm</math> 8.0<math>\leq</math> 3.0P5000* (P/N F123603) WITH D500T IPS500<math>\pm</math> 12<math>\leq</math> 3<math>\pm</math> 4.0<math>\leq</math> 15.0500<math>\pm</math> 15<math>\leq</math> 5<math>\pm</math> 4.0<math>\leq</math> 15.05000<math>\pm</math> 30<math>\leq</math> 8<math>\pm</math> 4.0<math>\leq</math> 15.0P10ML* (P/N FIE1201) WITH D10M TIPS1000<math>\pm</math> 30<math>\leq</math> 6<math>\pm</math> 6.0<math>\leq</math> 30.02000<math>\pm</math> 30<math>\leq</math> 6<math>\pm</math> 6.0<math>\leq</math> 30.02000<math>\pm</math> 30<math>\leq</math> 6<math>\pm</math> 6.0<math>\leq</math> 30.02000<math>\pm</math> 4.0<math>\leq</math> 10<math>\pm</math> 30.0<math>\leq</math> 30.0</td><td>10</td><td>± 0.10</td><td>≤ 0.050</td><td>± 0.2</td><td>≤ 0.1</td></tr> <tr><td>10<math>\pm 0.35</math><math>\le 0.10</math><math>\pm 0.8</math><math>\le 0.3</math>50<math>\pm 0.40</math><math>\le 0.12</math><math>\pm 0.8</math><math>\le 0.3</math>100<math>\pm 0.80</math><math>\le 0.15</math><math>\pm 0.8</math><math>\le 0.3</math><b>P200 (P/N FUSCIONAL SCORPY SCORPSP200 (P/N FUSCIONAL SCORPSP200 (P/N FUSCIONAL SCORPSP200 (P/N FUSCIONAL SCORPSP1000 (P/N FUSCIONAL SCORPSP1001 (P/N FUSCIONAL SCORPS</b>&lt;</td><td>20</td><td>± 0.20</td><td>≤0.060</td><td>± 0.2</td><td>≤ 0.1</td></tr> <tr><td><math>50</math><math>\pm 0.40</math><math>\le 0.12</math><math>\pm 0.8</math><math>\le 0.3</math><math>100</math><math>\pm 0.80</math><math>\le 0.15</math><math>\pm 0.8</math><math>\le 0.3</math><math>P200</math> (P/N = 123601) = 1000<math>\pm 0.80</math><math>\le 0.20</math><math>\pm 1.6</math><math>\le 0.6</math><math>100</math><math>\pm 0.50</math><math>\le 0.20</math><math>\pm 1.6</math><math>\le 0.6</math><math>100</math><math>\pm 0.80</math><math>\le 0.25</math><math>\pm 1.6</math><math>\le 0.6</math><math>200</math><math>\pm 1.60</math><math>\le 0.30</math><math>\pm 1.6</math><math>\le 0.6</math><math>200</math><math>\pm 1.60</math><math>\le 0.30</math><math>\pm 1.6</math><math>\le 0.6</math><math>200</math><math>\pm 1.60</math><math>\le 0.30</math><math>\pm 1.6</math><math>\le 0.6</math><math>P1000</math> (P/N = 123602) = 114<math>= 1.6</math><math>= 3.0</math><math>= 3.0</math><math>500</math><math>\pm 8.0</math><math>\le 1.5</math><math>\pm 8.0</math><math>\le 3.0</math><math>100</math><math>\pm 8.0</math><math>\le 1.5</math><math>\pm 4.0</math><math>\le 15.0</math><math>500</math><math>\pm 12</math><math>\le 3</math><math>\pm 4.0</math><math>\le 15.0</math><math>5000</math><math>\pm 15</math><math>\le 8</math><math>\pm 4.0</math><math>\le 15.0</math><math>5000</math><math>\pm 15</math><math>\le 8</math><math>\pm 4.0</math><math>\le 15.0</math><math>5000</math><math>\pm 3.0</math><math>\le 8</math><math>\pm 4.0</math><math>\le 15.0</math><math>5000</math><math>\pm 3.0</math><math>\le 6</math><math>\pm 6.0</math><math>\le 3.0.0</math><math>2000</math><math>\pm 3.0</math><math>\le 6</math><math>\pm 6.0</math><math>\le 3.0.0</math><math>5000</math><math>\pm 4.0</math><math>\le 10.0</math><math>\pm 3.0.0</math><math>\le 3.0.0</math></td><td>P100 (P/N</td><td>F123615) WI</td><td>TH D200 T</td><td>IPS</td><td></td></tr> <tr><td>100<math>\pm 0.00</math><math>\pm 0.00</math><math>\pm 0.00</math><math>\pm 0.00</math><math>\pm 0.00</math>100<math>\pm 0.80</math><math>\leq 0.15</math><math>\pm 0.8</math><math>\leq 0.3</math><b>P200 (P/N F123601)</b> WITH D200 TIPS20<math>\pm 0.50</math><math>\leq 0.20</math><math>\pm 1.6</math><math>\leq 0.6</math>100<math>\pm 0.80</math><math>\leq 0.25</math><math>\pm 1.6</math><math>\leq 0.6</math>200<math>\pm 1.60</math><math>\leq 0.30</math><math>\pm 1.6</math><math>\leq 0.6</math>200<math>\pm 1.60</math><math>\leq 0.30</math><math>\pm 1.6</math><math>\leq 0.6</math>200<math>\pm 1.60</math><math>\leq 0.30</math><math>\pm 1.6</math><math>\leq 0.6</math>200<math>\pm 1.60</math><math>\leq 0.30</math><math>\pm 1.6</math><math>\leq 0.6</math>PIO00 (P/N F123602) WITH D100 TIPS100<math>\pm 3.0</math><math>\leq 1.5</math><math>\pm 8.0</math><math>\leq 3.0</math>500<math>\pm 4.0</math><math>\leq 1.5</math><math>\pm 8.0</math><math>\leq 3.0</math>1000<math>\pm 8.0</math><math>\leq 1.5</math><math>\pm 4.0</math><math>\leq 15.0</math>2500<math>\pm 12</math><math>\leq 3</math><math>\pm 4.0</math><math>\leq 15.0</math>2500<math>\pm 15</math><math>\leq 5</math><math>\pm 4.0</math><math>\leq 15.0</math>2500<math>\pm 15</math><math>\leq 5</math><math>\pm 4.0</math><math>\leq 15.0</math>2500<math>\pm 3.0</math><math>\leq 8</math><math>\pm 4.0</math><math>\leq 15.0</math>2000<math>\pm 3.0</math><math>\leq 6</math><math>\pm 6.0</math><math>\leq 30.0</math>2000<math>\pm 3.0</math><math>\leq 6</math><math>\pm 6.0</math><math>\leq 30.0</math>2000<math>\pm 4.0</math><math>\leq 10.0</math><math>\pm 6.0</math><math>\leq 30.0</math></td><td>10</td><td>± 0.35</td><td>≤ 0.10</td><td>± 0.8</td><td>≤ 0.3</td></tr> <tr><td>P200 (P/N F123601) WITH D200 TIPS20<math>\pm 0.50</math><math>\le 0.20</math><math>\pm 1.6</math><math>\le 0.6</math>100<math>\pm 0.80</math><math>\le 0.25</math><math>\pm 1.6</math><math>\le 0.6</math>200<math>\pm 1.60</math><math>\le 0.30</math><math>\pm 1.6</math><math>\le 0.6</math>200<math>\pm 1.60</math><math>\le 0.30</math><math>\pm 1.6</math><math>\le 0.6</math>P1000 (P/N F123602) WITH D100 TIPS100<math>\pm 3.0</math><math>\le 0.6</math><math>\pm 8.0</math><math>\le 3.0</math>500<math>\pm 4.0</math><math>\le 1.5</math><math>\pm 8.0</math><math>\le 3.0</math>1000<math>\pm 8.0</math><math>\le 1.5</math><math>\pm 8.0</math><math>\le 3.0</math>S000* (P/N F123603) WITH D500 TIPS5000<math>\pm 12</math><math>\le 3</math><math>\pm 4.0</math><math>\le 15.0</math>5000<math>\pm 12</math><math>\le 3</math><math>\pm 4.0</math><math>\le 15.0</math>5000<math>\pm 15</math><math>\le 5</math><math>\pm 4.0</math><math>\le 15.0</math>5000<math>\pm 3.0</math><math>\le 8</math><math>\pm 4.0</math><math>\le 15.0</math>5000<math>\pm 3.0</math><math>\le 6</math><math>\pm 6.0</math><math>\le 30.0</math>2000<math>\pm 3.0</math><math>\le 6</math><math>\pm 6.0</math><math>\le 30.0</math>5000<math>\pm 4.0</math><math>\le 10</math><math>\pm 6.0</math><math>\le 30.0</math></td><td>50</td><td>± 0.40</td><td>≤ 0.12</td><td>± 0.8</td><td>≤ 0.3</td></tr> <tr><td><math>20</math><math>\pm 0.50</math><math>\le 0.20</math><math>\pm 1.6</math><math>\le 0.6</math><math>100</math><math>\pm 0.80</math><math>\le 0.25</math><math>\pm 1.6</math><math>\le 0.6</math><math>200</math><math>\pm 1.60</math><math>\le 0.30</math><math>\pm 1.6</math><math>\le 0.6</math><math>200</math><math>\pm 1.60</math><math>\le 0.30</math><math>\pm 1.6</math><math>\le 0.6</math><math>P1000</math> (P/&gt;F123602)<math>VITH</math> D100/// E8.0<math>\le 3.0</math><math>500</math><math>\pm 4.0</math><math>\le 1.0</math><math>\pm 8.0</math><math>\le 3.0</math><math>500</math><math>\pm 4.0</math><math>\le 1.5</math><math>\pm 8.0</math><math>\le 3.0</math><math>P5000^{*}</math> (P/&gt;F123603)<math>VITH</math> D50/// E8.0<math>\le 3.0</math><math>500</math><math>\pm 12</math><math>\le 3</math><math>\pm 4.0</math><math>\le 15.0</math><math>500</math><math>\pm 12</math><math>\le 3</math><math>\pm 4.0</math><math>\le 15.0</math><math>5000</math><math>\pm 30</math><math>\le 8</math><math>\pm 4.0</math><math>\le 15.0</math><math>P10mL^{*}</math> (P/&gt;F161201)<math>VITH</math> D10/// TIPS<math>VITH</math><math>1000</math><math>\pm 3.0</math><math>\le 6</math><math>\pm 6.0</math><math>\le 30.0</math><math>2000</math><math>\pm 3.0</math><math>\le 6</math><math>\pm 6.0</math><math>\le 30.0</math><math>5000</math><math>\pm 4.0</math><math>\le 10</math><math>\pm 6.0</math><math>\le 30.0</math></td><td>100</td><td>± 0.80</td><td>≤ 0.15</td><td>± 0.8</td><td>≤ 0.3</td></tr> <tr><td>100<math>\pm 0.80</math><math>\le 0.25</math><math>\pm 1.6</math><math>\le 0.6</math>200<math>\pm 1.60</math><math>\le 0.30</math><math>\pm 1.6</math><math>\le 0.6</math>PIOO0 (P/&gt;FI23602) FITH DIOOTHER100<math>\pm 3.0</math><math>\le 0.6</math><math>\pm 8.0</math><math>\le 3.0</math>500<math>\pm 4.0</math><math>\le 1.0</math><math>\pm 8.0</math><math>\le 3.0</math>1000<math>\pm 8.0</math><math>\le 1.5</math><math>\pm 8.0</math><math>\le 3.0</math>1000<math>\pm 8.0</math><math>\le 1.5</math><math>\pm 8.0</math><math>\le 3.0</math>1000<math>\pm 8.0</math><math>\le 1.5</math><math>\pm 4.0</math><math>\le 3.0</math>500<math>\pm 12</math><math>\le 3</math><math>\pm 4.0</math><math>\le 15.0</math>500<math>\pm 15</math><math>\le 5</math><math>\pm 4.0</math><math>\le 15.0</math>5000<math>\pm 3.0</math><math>\le 8</math><math>\pm 4.0</math><math>\le 15.0</math>1000<math>\pm 3.0</math><math>\le 6</math><math>\pm 6.0</math><math>\le 30.0</math>2000<math>\pm 3.0</math><math>\le 6</math><math>\pm 6.0</math><math>\le 30.0</math>5000<math>\pm 4.0</math><math>\le 10</math><math>\pm 6.0</math><math>\le 30.0</math></td><td>P200 (P/N</td><td>F123601) W</td><td>ITH D200 T</td><td>IPS</td><td></td></tr> <tr><td>200         ± 1.60         ≤ 0.30         ± 1.6         ≤ 0.6           P1000 (P/N F123602) **TH D100**         TIPS           100         ± 3.0         ≤ 0.6         ± 8.0         ≤ 3.0           500         ± 4.0         ≤ 1.0         ± 8.0         ≤ 3.0           1000         ± 8.0         ≤ 1.5         ± 8.0         ≤ 3.0           1000         ± 8.0         ≤ 1.5         ± 8.0         ≤ 3.0           P5000* (P/N F123603) **ITH D50**         TIPS         ≤ 3.0           5000         ± 12         ≤ 3         ± 40         ≤ 15.0           2500         ± 15         ≤ 5         ± 40         ≤ 15.0           5000         ± 30         ≤ 8         ± 40         ≤ 15.0           5000         ± 30         ≤ 6         ± 60         ≤ 30.0           1000         ± 30         ≤ 6         ± 60         ≤ 30.0           2000         ± 30         ≤ 6         ± 60         ≤ 30.0           5000         ± 40         ≤ 10         ± 60         ≤ 30.0</td><td>20</td><td>± 0.50</td><td>≤ 0.20</td><td>± 1.6</td><td>≤ 0.6</td></tr> <tr><td>P1000 (P/N F123602) WITH D100 TIPS100<math>\pm 3.0</math><math>\leq 0.6</math><math>\pm 8.0</math><math>\leq 3.0</math>500<math>\pm 4.0</math><math>\leq 1.0</math><math>\pm 8.0</math><math>\leq 3.0</math>1000<math>\pm 8.0</math><math>\leq 1.5</math><math>\pm 8.0</math><math>\leq 3.0</math>1000<math>\pm 8.0</math><math>\leq 1.5</math><math>\pm 8.0</math><math>\leq 3.0</math>P5000* (P/N F123603) WITH D500T TIPS500<math>\pm 12</math><math>\leq 3</math><math>\pm 40</math><math>\leq 15.0</math>2500<math>\pm 15</math><math>\leq 5</math><math>\pm 40</math><math>\leq 15.0</math>5000<math>\pm 30</math><math>\leq 8</math><math>\pm 40</math><math>\leq 15.0</math>PIOML* (P/N F161201) WITH D10M TIPS1000<math>\pm 30</math><math>\leq 6</math><math>\pm 60</math><math>\leq 30.0</math>2000<math>\pm 30</math><math>\leq 6</math><math>\pm 60</math><math>\leq 30.0</math>5000<math>\pm 40</math><math>\leq 10</math><math>\pm 60</math><math>\leq 30.0</math></td><td>100</td><td>± 0.80</td><td>≤ 0.25</td><td>± 1.6</td><td>≤ 0.6</td></tr> <tr><td>100         ± 3.0         ≤ 0.6         ± 8.0         ≤ 3.0           500         ± 4.0         ≤ 1.0         ± 8.0         ≤ 3.0           1000         ± 8.0         ≤ 1.5         ± 8.0         ≤ 3.0           1000         ± 8.0         ≤ 1.5         ± 8.0         ≤ 3.0           <b>P5000' (P/ F123603) WITH D500' UP/ F123603 S000</b>         ± 12         ≤ 3         ± 40         ≤ 15.0           2500         ± 15         ≤ 5         ± 40         ≤ 15.0           5000         ± 30         ≤ 8         ± 40         ≤ 15.0           <b>P10mL' (P/ F161201) WITH D10mL TIPS S000</b>         ± 30         ≤ 6         ± 60         ≤ 30.0           2000         ± 30         ≤ 6         ± 60         ≤ 30.0         ≤ 30.0         ≤ 30.0           5000         ± 40         ≤ 10         ± 60         ≤ 30.0</td><td>200</td><td>± 1.60</td><td>≤0.30</td><td>± 1.6</td><td>≤ 0.6</td></tr> <tr><td>500         ± 4.0         ≤ 1.0         ± 8.0         ≤ 3.0           1000         ± 8.0         ≤ 1.5         ± 8.0         ≤ 3.0           <b>P5000' (P/ F123603) UITH D500' TIPS S000</b>         ± 12         ≤ 3         ± 4.0         ≤ 15.0           500         ± 12         ≤ 3         ± 4.0         ≤ 15.0           2500         ± 15         ≤ 5         ± 4.0         ≤ 15.0           5000         ± 30         ≤ 8         ± 4.0         ≤ 15.0           <b>P10mL* (P/ F161201) UITH D10mL* TIPS</b>           1000         ± 30         ≤ 6         ± 60         ≤ 30.0           2000         ± 30         ≤ 6         ± 60         ≤ 30.0           5000         ± 40         ≤ 10         ± 60         ≤ 30.0</td><td>P1000 (P/N</td><td>F123602)</td><td>NITH D1000</td><td>) TIPS</td><td></td></tr> <tr><td>1000         ± 8.0         ≤ 1.5         ± 8.0         ≤ 3.0           P5000* (P/× F123603)         VITH D50× TIPS           500         ± 12         ≤ 3         ± 40         ≤ 15.0           2500         ± 12         ≤ 5         ± 40         ≤ 15.0           2500         ± 15         ≤ 5         ± 40         ≤ 15.0           5000         ± 30         ≤ 8         ± 40         ≤ 15.0           PIOML* (P/× F161201)         VITH D10m× TIPS         1000         ± 30         ≤ 6         ± 60         ≤ 30.0           2000         ± 30         ≤ 6         ± 60         ≤ 30.0         ≤ 30.0         ≤ 30.0         ≤ 30.0           5000         ± 40         ≤ 10         ± 60         ≤ 30.0         ≤ 30.0         ≤ 30.0</td><td>100</td><td>± 3.0</td><td>≤ 0.6</td><td>± 8.0</td><td>≤ 3.0</td></tr> <tr><td>P5000* (P/N F123603) WITH D500 TIPS<math>500</math><math>\pm 12</math><math>\leq 3</math><math>\pm 40</math><math>\leq 15.0</math><math>2500</math><math>\pm 15</math><math>\leq 5</math><math>\pm 40</math><math>\leq 15.0</math><math>2500</math><math>\pm 30</math><math>\leq 8</math><math>\pm 40</math><math>\leq 15.0</math><math>5000</math><math>\pm 30</math><math>\leq 8</math><math>\pm 40</math><math>\leq 15.0</math>PIONL* (P/N FI61201) WITH D10M TIPS<math>1000</math><math>\pm 30</math><math>\leq 6</math><math>\pm 60</math><math>\leq 30.0</math><math>2000</math><math>\pm 30</math><math>\leq 6</math><math>\pm 60</math><math>\leq 30.0</math><math>5000</math><math>\pm 40</math><math>\leq 10</math><math>\pm 60</math><math>\leq 30.0</math></td><td>500</td><td>± 4.0</td><td>≤ 1.0</td><td>± 8.0</td><td>≤ 3.0</td></tr> <tr><td><math>500</math> <math>\pm 12</math> <math>\leq 3</math> <math>\pm 40</math> <math>\leq 15.0</math> <math>2500</math> <math>\pm 15</math> <math>\leq 5</math> <math>\pm 40</math> <math>\leq 15.0</math> <math>5000</math> <math>\pm 30</math> <math>\leq 8</math> <math>\pm 40</math> <math>\leq 15.0</math> <math>5000</math> <math>\pm 30</math> <math>\leq 8</math> <math>\pm 40</math> <math>\leq 15.0</math> <math>P10mt^*(P/V = F1201) = F1201</math> <math>T1PS</math> <math>T1S</math> <math>1000</math> <math>\pm 30</math> <math>\leq 6</math> <math>\pm 60</math> <math>\leq 30.0</math> <math>2000</math> <math>\pm 30</math> <math>\leq 6</math> <math>\pm 60</math> <math>\leq 30.0</math> <math>5000</math> <math>\pm 40</math> <math>\leq 10</math> <math>\pm 60</math> <math>\leq 30.0</math></td><td>1000</td><td>± 8.0</td><td>≤ 1.5</td><td>± 8.0</td><td>≤ 3.0</td></tr> <tr><td>2500<math>\pm 15</math><math>\le 5</math><math>\pm 40</math><math>\le 15.0</math>5000<math>\pm 30</math><math>\le 8</math><math>\pm 40</math><math>\le 15.0</math>P10mL* (P/V F161201) WITH D10mL TIPS1000<math>\pm 30</math><math>\le 6</math><math>\pm 60</math><math>\le 30.0</math>2000<math>\pm 30</math><math>\le 6</math><math>\pm 60</math><math>\le 30.0</math>5000<math>\pm 40</math><math>\le 10</math><math>\pm 60</math><math>\le 30.0</math></td><td>P5000* (P/</td><td>N F123603)</td><td>WITH D50</td><td>00 TIPS</td><td></td></tr> <tr><td>5000         ± 30         ≤ 8         ± 40         ≤ 15.0           PIOML* (P/N FIG1201) WITH DIOML TIPS           1000         ± 30         ≤ 6         ± 60         ≤ 30.0           2000         ± 30         ≤ 6         ± 60         ≤ 30.0           5000         ± 40         ≤ 10         ± 60         ≤ 30.0</td><td>500</td><td>± 12</td><td>≤ 3</td><td>±40</td><td>≤15.0</td></tr> <tr><td>P10mL* (P/N F161201) WITH D10mL TIPS           1000         ± 30         ≤ 6         ± 60         ≤ 30.0           2000         ± 30         ≤ 6         ± 60         ≤ 30.0           5000         ± 40         ≤ 10         ± 60         ≤ 30.0</td><td>2500</td><td>± 15</td><td>≤ 5</td><td>±40</td><td>≤15.0</td></tr> <tr><td>1000         ± 30         ≤ 6         ± 60         ≤ 30.0           2000         ± 30         ≤ 6         ± 60         ≤ 30.0           5000         ± 40         ≤ 10         ± 60         ≤ 30.0</td><td>5000</td><td>± 30</td><td>≤8</td><td>±40</td><td>≤15.0</td></tr> <tr><td>2000         ± 30         ≤ 6         ± 60         ≤ 30.0           5000         ± 40         ≤ 10         ± 60         ≤ 30.0</td><td>P10mL* (P/</td><td>N F161201) \</td><td>VITH D10m</td><td>L TIPS</td><td></td></tr> <tr><td>5000 ± 40 ≤ 10 ± 60 ≤ 30.0</td><td>1000</td><td>± 30</td><td>≤ 6</td><td>±60</td><td>≤ 30.0</td></tr> <tr><td></td><td>2000</td><td>± 30</td><td>≤ 6</td><td>±60</td><td>≤ 30.0</td></tr> <tr><td>10000 <math>\pm 60</math> <math>\leq 16</math> <math>\pm 60</math> <math>\leq 30.0</math></td><td>5000</td><td>± 40</td><td>≤10</td><td>±60</td><td>≤ 30.0</td></tr> <tr><td></td><td>10000</td><td>± 60</td><td>≤16</td><td>±60</td><td>≤ 30.0</td></tr>	10	± 0.100	≤ 0.040	± 0.12	≤ 0.08	5 $\pm$ 0.10 $\leq$ 0.040 $\pm$ 0.2 $\leq$ 0.1           10 $\pm$ 0.10 $\leq$ 0.050 $\pm$ 0.2 $\leq$ 0.1           20 $\pm$ 0.20 $\leq$ 0.060 $\pm$ 0.2 $\leq$ 0.1           20 $\pm$ 0.20 $\leq$ 0.060 $\pm$ 0.2 $\leq$ 0.1           POO (P/N F123615) WTF D200 TFF           10 $\pm$ 0.35 $\leq$ 0.12 $\pm$ 0.8 $\leq$ 0.3           50 $\pm$ 0.40 $\leq$ 0.12 $\pm$ 0.8 $\leq$ 0.3           100 $\pm$ 0.80 $\leq$ 0.12 $\pm$ 0.8 $\leq$ 0.3           100 $\pm$ 0.80 $\leq$ 0.15 $\pm$ 0.8 $\leq$ 0.3           POO (P/N F123601) WTH D200 TFF           200 $\pm$ 0.80 $\leq$ 0.20 $\pm$ 1.6 $\leq$ 0.6           100 $\pm$ 0.80 $\leq$ 0.25 $\pm$ 1.6 $\leq$ 0.6           200 $\pm$ 1.60 $\leq$ 0.30 $\pm$ 1.6 $\leq$ 0.6           100 $\pm$ 0.80 $\leq$ 0.25 $\pm$ 1.6 $\leq$ 3.0           100 $\pm$ 3.0 $\leq$ 1.0 $\pm$ 3.0 $\leq$ 3.0           500 $\pm$	P20 (P/N F	123600) WI	TH D200 TI	PS		10 $\pm 0.10$ $\le 0.050$ $\pm 0.10$ $\le 0.050$ $\pm 0.20$ $\le 0.11$ 20 $\pm 0.20$ $\le 0.060$ $\pm 0.2$ $\le 0.1$ $\pm 0.10$ $\pm 0.20$ $\le 0.10$ $\pm 0.20$ $\le 0.1$ <b>PIO0 (P/N = 123615)</b> WTH D200 TEV10 $\pm 0.35$ $\le 0.10$ $\pm 0.8$ $\le 0.3$ 50 $\pm 0.40$ $\le 0.12$ $\pm 0.8$ $\le 0.3$ 100 $\pm 0.80$ $\le 0.15$ $\pm 0.8$ $\le 0.3$ <b>P200 (P/N = 123601)</b> WTH D200 TEV20 $\pm 1.60$ $\le 0.25$ $\pm 1.6$ $\le 0.6$ 100 $\pm 0.80$ $\le 0.25$ $\pm 1.6$ $\le 0.6$ 200 $\pm 1.60$ $\le 0.30$ $\pm 1.6$ $\le 0.6$ <b>PIO00 (P/N = 123602)</b> WTH D100 TEVTO00 (P/N = 123602) WTH D100 TEV100 $\pm 3.0$ $\le 1.5$ $\pm 8.0$ $\le 3.0$ 500 $\pm 4.0$ $\le 1.0$ $\pm 8.0$ $\le 3.0$ 500 $\pm 12$ $\le 3$ $\pm 4.0$ $\le 1.50$ 5000 $\pm 15$ $\le 5$ $\pm 4.0$ $\le 1.50$ 5000 $\pm 3.0$ $\le 8$ $\pm 4.0$ $\le 1.50$ 5000 $\pm 3.0$ $\le 6$ $\pm 6.0$ $\le 3.0.0$ 2000 $\pm 3.0$ $\le 6$ $\pm 6.0$ $\le 3.0.0$ 2000 $\pm 3.0$ $\le 10$ $\pm 6.0$ $\le 3.0.0$ 2000 $\pm 3.0$ $\le 10$ $\pm 6.0$ $\le 3.0.0$ 2000 $\pm 4.0$ $\le 10$ $\pm 6.0$ <	2	± 0.10	≤ 0.030	± 0.2	≤ 0.1	$\pm 0.20$ $\pm 0.20$ $\pm 0.20$ $\pm 0.2$ $\pm 0.1$ P100 (P/N F123615) $\mp H$ D200 TFF $\pm 0.8$ $\leq 0.3$ 10 $\pm 0.35$ $\leq 0.10$ $\pm 0.8$ $\leq 0.3$ 50 $\pm 0.40$ $\leq 0.12$ $\pm 0.8$ $\leq 0.3$ 100 $\pm 0.80$ $\leq 0.15$ $\pm 0.8$ $\leq 0.3$ 100 $\pm 0.80$ $\leq 0.15$ $\pm 0.8$ $\leq 0.3$ P200 (P/N F123601) $\mp 1.60$ $\leq 0.6$ $\leq 0.6$ 100 $\pm 0.80$ $\leq 0.25$ $\pm 1.6$ $\leq 0.6$ 200 $\pm 0.60$ $\leq 0.30$ $\pm 1.6$ $\leq 0.6$ 100 $\pm 0.80$ $\leq 0.25$ $\pm 1.6$ $\leq 0.6$ 200 $\pm 1.60$ $\leq 0.30$ $\pm 1.6$ $\leq 0.6$ 100 $\pm 3.0$ $\leq 0.6$ $\pm 8.0$ $\leq 3.0$ 1000 $\pm 1.0$ $\leq 1.5$ $\pm 8.0$ $\leq 1.50$ 5000 $\pm 12$ $\leq 3$ $\pm 4.0$ $\pm 15.0$ 5000 $\pm 15$ $\leq 5$ <	5	± 0.10	≤0.040	± 0.2	≤ 0.1	P100 (P/N F123615) WITH D200 TIPS10 $\pm$ 0.35 $\leq$ 0.10 $\pm$ 0.8 $\leq$ 0.350 $\pm$ 0.40 $\leq$ 0.12 $\pm$ 0.8 $\leq$ 0.3100 $\pm$ 0.80 $\leq$ 0.15 $\pm$ 0.8 $\leq$ 0.3100 $\pm$ 0.80 $\leq$ 0.15 $\pm$ 0.8 $\leq$ 0.3P200 (P/N F123601) WITH D200 TIPS20 $\pm$ 0.50 $\leq$ 0.20 $\pm$ 1.6 $\leq$ 0.6100 $\pm$ 0.80 $\leq$ 0.25 $\pm$ 1.6 $\leq$ 0.6200 $\pm$ 1.60 $\leq$ 0.30 $\pm$ 1.6 $\leq$ 0.6P1000 (P/N F123602) WITH D100 TIPS100 $\pm$ 3.0 $\leq$ 1.6 $\pm$ 3.0500 $\pm$ 4.0 $\leq$ 1.0 $\pm$ 8.0 $\leq$ 3.01000 $\pm$ 8.0 $\leq$ 1.5 $\pm$ 8.0 $\leq$ 3.0P5000* (P/N F123603) WITH D500T IPS500 $\pm$ 12 $\leq$ 3 $\pm$ 4.0 $\leq$ 15.0500 $\pm$ 15 $\leq$ 5 $\pm$ 4.0 $\leq$ 15.05000 $\pm$ 30 $\leq$ 8 $\pm$ 4.0 $\leq$ 15.0P10ML* (P/N FIE1201) WITH D10M TIPS1000 $\pm$ 30 $\leq$ 6 $\pm$ 6.0 $\leq$ 30.02000 $\pm$ 30 $\leq$ 6 $\pm$ 6.0 $\leq$ 30.02000 $\pm$ 30 $\leq$ 6 $\pm$ 6.0 $\leq$ 30.02000 $\pm$ 4.0 $\leq$ 10 $\pm$ 30.0 $\leq$ 30.0	10	± 0.10	≤ 0.050	± 0.2	≤ 0.1	10 $\pm 0.35$ $\le 0.10$ $\pm 0.8$ $\le 0.3$ 50 $\pm 0.40$ $\le 0.12$ $\pm 0.8$ $\le 0.3$ 100 $\pm 0.80$ $\le 0.15$ $\pm 0.8$ $\le 0.3$ <b>P200 (P/N FUSCIONAL SCORPY SCORPSP200 (P/N FUSCIONAL SCORPSP200 (P/N FUSCIONAL SCORPSP200 (P/N FUSCIONAL SCORPSP1000 (P/N FUSCIONAL SCORPSP1001 (P/N FUSCIONAL SCORPS</b> <	20	± 0.20	≤0.060	± 0.2	≤ 0.1	$50$ $\pm 0.40$ $\le 0.12$ $\pm 0.8$ $\le 0.3$ $100$ $\pm 0.80$ $\le 0.15$ $\pm 0.8$ $\le 0.3$ $P200$ (P/N = 123601) = 1000 $\pm 0.80$ $\le 0.20$ $\pm 1.6$ $\le 0.6$ $100$ $\pm 0.50$ $\le 0.20$ $\pm 1.6$ $\le 0.6$ $100$ $\pm 0.80$ $\le 0.25$ $\pm 1.6$ $\le 0.6$ $200$ $\pm 1.60$ $\le 0.30$ $\pm 1.6$ $\le 0.6$ $200$ $\pm 1.60$ $\le 0.30$ $\pm 1.6$ $\le 0.6$ $200$ $\pm 1.60$ $\le 0.30$ $\pm 1.6$ $\le 0.6$ $P1000$ (P/N = 123602) = 114 $= 1.6$ $= 3.0$ $= 3.0$ $500$ $\pm 8.0$ $\le 1.5$ $\pm 8.0$ $\le 3.0$ $100$ $\pm 8.0$ $\le 1.5$ $\pm 4.0$ $\le 15.0$ $500$ $\pm 12$ $\le 3$ $\pm 4.0$ $\le 15.0$ $5000$ $\pm 15$ $\le 8$ $\pm 4.0$ $\le 15.0$ $5000$ $\pm 15$ $\le 8$ $\pm 4.0$ $\le 15.0$ $5000$ $\pm 3.0$ $\le 8$ $\pm 4.0$ $\le 15.0$ $5000$ $\pm 3.0$ $\le 6$ $\pm 6.0$ $\le 3.0.0$ $2000$ $\pm 3.0$ $\le 6$ $\pm 6.0$ $\le 3.0.0$ $5000$ $\pm 4.0$ $\le 10.0$ $\pm 3.0.0$ $\le 3.0.0$	P100 (P/N	F123615) WI	TH D200 T	IPS		100 $\pm 0.00$ $\pm 0.00$ $\pm 0.00$ $\pm 0.00$ $\pm 0.00$ 100 $\pm 0.80$ $\leq 0.15$ $\pm 0.8$ $\leq 0.3$ <b>P200 (P/N F123601)</b> WITH D200 TIPS20 $\pm 0.50$ $\leq 0.20$ $\pm 1.6$ $\leq 0.6$ 100 $\pm 0.80$ $\leq 0.25$ $\pm 1.6$ $\leq 0.6$ 200 $\pm 1.60$ $\leq 0.30$ $\pm 1.6$ $\leq 0.6$ 200 $\pm 1.60$ $\leq 0.30$ $\pm 1.6$ $\leq 0.6$ 200 $\pm 1.60$ $\leq 0.30$ $\pm 1.6$ $\leq 0.6$ 200 $\pm 1.60$ $\leq 0.30$ $\pm 1.6$ $\leq 0.6$ PIO00 (P/N F123602) WITH D100 TIPS100 $\pm 3.0$ $\leq 1.5$ $\pm 8.0$ $\leq 3.0$ 500 $\pm 4.0$ $\leq 1.5$ $\pm 8.0$ $\leq 3.0$ 1000 $\pm 8.0$ $\leq 1.5$ $\pm 4.0$ $\leq 15.0$ 2500 $\pm 12$ $\leq 3$ $\pm 4.0$ $\leq 15.0$ 2500 $\pm 15$ $\leq 5$ $\pm 4.0$ $\leq 15.0$ 2500 $\pm 15$ $\leq 5$ $\pm 4.0$ $\leq 15.0$ 2500 $\pm 3.0$ $\leq 8$ $\pm 4.0$ $\leq 15.0$ 2000 $\pm 3.0$ $\leq 6$ $\pm 6.0$ $\leq 30.0$ 2000 $\pm 3.0$ $\leq 6$ $\pm 6.0$ $\leq 30.0$ 2000 $\pm 4.0$ $\leq 10.0$ $\pm 6.0$ $\leq 30.0$	10	± 0.35	≤ 0.10	± 0.8	≤ 0.3	P200 (P/N F123601) WITH D200 TIPS20 $\pm 0.50$ $\le 0.20$ $\pm 1.6$ $\le 0.6$ 100 $\pm 0.80$ $\le 0.25$ $\pm 1.6$ $\le 0.6$ 200 $\pm 1.60$ $\le 0.30$ $\pm 1.6$ $\le 0.6$ 200 $\pm 1.60$ $\le 0.30$ $\pm 1.6$ $\le 0.6$ P1000 (P/N F123602) WITH D100 TIPS100 $\pm 3.0$ $\le 0.6$ $\pm 8.0$ $\le 3.0$ 500 $\pm 4.0$ $\le 1.5$ $\pm 8.0$ $\le 3.0$ 1000 $\pm 8.0$ $\le 1.5$ $\pm 8.0$ $\le 3.0$ S000* (P/N F123603) WITH D500 TIPS5000 $\pm 12$ $\le 3$ $\pm 4.0$ $\le 15.0$ 5000 $\pm 12$ $\le 3$ $\pm 4.0$ $\le 15.0$ 5000 $\pm 15$ $\le 5$ $\pm 4.0$ $\le 15.0$ 5000 $\pm 3.0$ $\le 8$ $\pm 4.0$ $\le 15.0$ 5000 $\pm 3.0$ $\le 6$ $\pm 6.0$ $\le 30.0$ 2000 $\pm 3.0$ $\le 6$ $\pm 6.0$ $\le 30.0$ 5000 $\pm 4.0$ $\le 10$ $\pm 6.0$ $\le 30.0$	50	± 0.40	≤ 0.12	± 0.8	≤ 0.3	$20$ $\pm 0.50$ $\le 0.20$ $\pm 1.6$ $\le 0.6$ $100$ $\pm 0.80$ $\le 0.25$ $\pm 1.6$ $\le 0.6$ $200$ $\pm 1.60$ $\le 0.30$ $\pm 1.6$ $\le 0.6$ $200$ $\pm 1.60$ $\le 0.30$ $\pm 1.6$ $\le 0.6$ $P1000$ (P/>F123602) $VITH$ D100/// E8.0 $\le 3.0$ $500$ $\pm 4.0$ $\le 1.0$ $\pm 8.0$ $\le 3.0$ $500$ $\pm 4.0$ $\le 1.5$ $\pm 8.0$ $\le 3.0$ $P5000^{*}$ (P/>F123603) $VITH$ D50/// E8.0 $\le 3.0$ $500$ $\pm 12$ $\le 3$ $\pm 4.0$ $\le 15.0$ $500$ $\pm 12$ $\le 3$ $\pm 4.0$ $\le 15.0$ $5000$ $\pm 30$ $\le 8$ $\pm 4.0$ $\le 15.0$ $P10mL^{*}$ (P/>F161201) $VITH$ D10/// TIPS $VITH$ $1000$ $\pm 3.0$ $\le 6$ $\pm 6.0$ $\le 30.0$ $2000$ $\pm 3.0$ $\le 6$ $\pm 6.0$ $\le 30.0$ $5000$ $\pm 4.0$ $\le 10$ $\pm 6.0$ $\le 30.0$	100	± 0.80	≤ 0.15	± 0.8	≤ 0.3	100 $\pm 0.80$ $\le 0.25$ $\pm 1.6$ $\le 0.6$ 200 $\pm 1.60$ $\le 0.30$ $\pm 1.6$ $\le 0.6$ PIOO0 (P/>FI23602) FITH DIOOTHER100 $\pm 3.0$ $\le 0.6$ $\pm 8.0$ $\le 3.0$ 500 $\pm 4.0$ $\le 1.0$ $\pm 8.0$ $\le 3.0$ 1000 $\pm 8.0$ $\le 1.5$ $\pm 8.0$ $\le 3.0$ 1000 $\pm 8.0$ $\le 1.5$ $\pm 8.0$ $\le 3.0$ 1000 $\pm 8.0$ $\le 1.5$ $\pm 4.0$ $\le 3.0$ 500 $\pm 12$ $\le 3$ $\pm 4.0$ $\le 15.0$ 500 $\pm 15$ $\le 5$ $\pm 4.0$ $\le 15.0$ 5000 $\pm 3.0$ $\le 8$ $\pm 4.0$ $\le 15.0$ 1000 $\pm 3.0$ $\le 6$ $\pm 6.0$ $\le 30.0$ 2000 $\pm 3.0$ $\le 6$ $\pm 6.0$ $\le 30.0$ 5000 $\pm 4.0$ $\le 10$ $\pm 6.0$ $\le 30.0$	P200 (P/N	F123601) W	ITH D200 T	IPS		200         ± 1.60         ≤ 0.30         ± 1.6         ≤ 0.6           P1000 (P/N F123602) **TH D100**         TIPS           100         ± 3.0         ≤ 0.6         ± 8.0         ≤ 3.0           500         ± 4.0         ≤ 1.0         ± 8.0         ≤ 3.0           1000         ± 8.0         ≤ 1.5         ± 8.0         ≤ 3.0           1000         ± 8.0         ≤ 1.5         ± 8.0         ≤ 3.0           P5000* (P/N F123603) **ITH D50**         TIPS         ≤ 3.0           5000         ± 12         ≤ 3         ± 40         ≤ 15.0           2500         ± 15         ≤ 5         ± 40         ≤ 15.0           5000         ± 30         ≤ 8         ± 40         ≤ 15.0           5000         ± 30         ≤ 6         ± 60         ≤ 30.0           1000         ± 30         ≤ 6         ± 60         ≤ 30.0           2000         ± 30         ≤ 6         ± 60         ≤ 30.0           5000         ± 40         ≤ 10         ± 60         ≤ 30.0	20	± 0.50	≤ 0.20	± 1.6	≤ 0.6	P1000 (P/N F123602) WITH D100 TIPS100 $\pm 3.0$ $\leq 0.6$ $\pm 8.0$ $\leq 3.0$ 500 $\pm 4.0$ $\leq 1.0$ $\pm 8.0$ $\leq 3.0$ 1000 $\pm 8.0$ $\leq 1.5$ $\pm 8.0$ $\leq 3.0$ 1000 $\pm 8.0$ $\leq 1.5$ $\pm 8.0$ $\leq 3.0$ P5000* (P/N F123603) WITH D500T TIPS500 $\pm 12$ $\leq 3$ $\pm 40$ $\leq 15.0$ 2500 $\pm 15$ $\leq 5$ $\pm 40$ $\leq 15.0$ 5000 $\pm 30$ $\leq 8$ $\pm 40$ $\leq 15.0$ PIOML* (P/N F161201) WITH D10M TIPS1000 $\pm 30$ $\leq 6$ $\pm 60$ $\leq 30.0$ 2000 $\pm 30$ $\leq 6$ $\pm 60$ $\leq 30.0$ 5000 $\pm 40$ $\leq 10$ $\pm 60$ $\leq 30.0$	100	± 0.80	≤ 0.25	± 1.6	≤ 0.6	100         ± 3.0         ≤ 0.6         ± 8.0         ≤ 3.0           500         ± 4.0         ≤ 1.0         ± 8.0         ≤ 3.0           1000         ± 8.0         ≤ 1.5         ± 8.0         ≤ 3.0           1000         ± 8.0         ≤ 1.5         ± 8.0         ≤ 3.0 <b>P5000' (P/ F123603) WITH D500' UP/ F123603 S000</b> ± 12         ≤ 3         ± 40         ≤ 15.0           2500         ± 15         ≤ 5         ± 40         ≤ 15.0           5000         ± 30         ≤ 8         ± 40         ≤ 15.0 <b>P10mL' (P/ F161201) WITH D10mL TIPS S000</b> ± 30         ≤ 6         ± 60         ≤ 30.0           2000         ± 30         ≤ 6         ± 60         ≤ 30.0         ≤ 30.0         ≤ 30.0           5000         ± 40         ≤ 10         ± 60         ≤ 30.0	200	± 1.60	≤0.30	± 1.6	≤ 0.6	500         ± 4.0         ≤ 1.0         ± 8.0         ≤ 3.0           1000         ± 8.0         ≤ 1.5         ± 8.0         ≤ 3.0 <b>P5000' (P/ F123603) UITH D500' TIPS S000</b> ± 12         ≤ 3         ± 4.0         ≤ 15.0           500         ± 12         ≤ 3         ± 4.0         ≤ 15.0           2500         ± 15         ≤ 5         ± 4.0         ≤ 15.0           5000         ± 30         ≤ 8         ± 4.0         ≤ 15.0 <b>P10mL* (P/ F161201) UITH D10mL* TIPS</b> 1000         ± 30         ≤ 6         ± 60         ≤ 30.0           2000         ± 30         ≤ 6         ± 60         ≤ 30.0           5000         ± 40         ≤ 10         ± 60         ≤ 30.0	P1000 (P/N	F123602)	NITH D1000	) TIPS		1000         ± 8.0         ≤ 1.5         ± 8.0         ≤ 3.0           P5000* (P/× F123603)         VITH D50× TIPS           500         ± 12         ≤ 3         ± 40         ≤ 15.0           2500         ± 12         ≤ 5         ± 40         ≤ 15.0           2500         ± 15         ≤ 5         ± 40         ≤ 15.0           5000         ± 30         ≤ 8         ± 40         ≤ 15.0           PIOML* (P/× F161201)         VITH D10m× TIPS         1000         ± 30         ≤ 6         ± 60         ≤ 30.0           2000         ± 30         ≤ 6         ± 60         ≤ 30.0         ≤ 30.0         ≤ 30.0         ≤ 30.0           5000         ± 40         ≤ 10         ± 60         ≤ 30.0         ≤ 30.0         ≤ 30.0	100	± 3.0	≤ 0.6	± 8.0	≤ 3.0	P5000* (P/N F123603) WITH D500 TIPS $500$ $\pm 12$ $\leq 3$ $\pm 40$ $\leq 15.0$ $2500$ $\pm 15$ $\leq 5$ $\pm 40$ $\leq 15.0$ $2500$ $\pm 30$ $\leq 8$ $\pm 40$ $\leq 15.0$ $5000$ $\pm 30$ $\leq 8$ $\pm 40$ $\leq 15.0$ PIONL* (P/N FI61201) WITH D10M TIPS $1000$ $\pm 30$ $\leq 6$ $\pm 60$ $\leq 30.0$ $2000$ $\pm 30$ $\leq 6$ $\pm 60$ $\leq 30.0$ $5000$ $\pm 40$ $\leq 10$ $\pm 60$ $\leq 30.0$	500	± 4.0	≤ 1.0	± 8.0	≤ 3.0	$500$ $\pm 12$ $\leq 3$ $\pm 40$ $\leq 15.0$ $2500$ $\pm 15$ $\leq 5$ $\pm 40$ $\leq 15.0$ $5000$ $\pm 30$ $\leq 8$ $\pm 40$ $\leq 15.0$ $5000$ $\pm 30$ $\leq 8$ $\pm 40$ $\leq 15.0$ $P10mt^*(P/V = F1201) = F1201$ $T1PS$ $T1S$ $1000$ $\pm 30$ $\leq 6$ $\pm 60$ $\leq 30.0$ $2000$ $\pm 30$ $\leq 6$ $\pm 60$ $\leq 30.0$ $5000$ $\pm 40$ $\leq 10$ $\pm 60$ $\leq 30.0$	1000	± 8.0	≤ 1.5	± 8.0	≤ 3.0	2500 $\pm 15$ $\le 5$ $\pm 40$ $\le 15.0$ 5000 $\pm 30$ $\le 8$ $\pm 40$ $\le 15.0$ P10mL* (P/V F161201) WITH D10mL TIPS1000 $\pm 30$ $\le 6$ $\pm 60$ $\le 30.0$ 2000 $\pm 30$ $\le 6$ $\pm 60$ $\le 30.0$ 5000 $\pm 40$ $\le 10$ $\pm 60$ $\le 30.0$	P5000* (P/	N F123603)	WITH D50	00 TIPS		5000         ± 30         ≤ 8         ± 40         ≤ 15.0           PIOML* (P/N FIG1201) WITH DIOML TIPS           1000         ± 30         ≤ 6         ± 60         ≤ 30.0           2000         ± 30         ≤ 6         ± 60         ≤ 30.0           5000         ± 40         ≤ 10         ± 60         ≤ 30.0	500	± 12	≤ 3	±40	≤15.0	P10mL* (P/N F161201) WITH D10mL TIPS           1000         ± 30         ≤ 6         ± 60         ≤ 30.0           2000         ± 30         ≤ 6         ± 60         ≤ 30.0           5000         ± 40         ≤ 10         ± 60         ≤ 30.0	2500	± 15	≤ 5	±40	≤15.0	1000         ± 30         ≤ 6         ± 60         ≤ 30.0           2000         ± 30         ≤ 6         ± 60         ≤ 30.0           5000         ± 40         ≤ 10         ± 60         ≤ 30.0	5000	± 30	≤8	±40	≤15.0	2000         ± 30         ≤ 6         ± 60         ≤ 30.0           5000         ± 40         ≤ 10         ± 60         ≤ 30.0	P10mL* (P/	N F161201) \	VITH D10m	L TIPS		5000 ± 40 ≤ 10 ± 60 ≤ 30.0	1000	± 30	≤ 6	±60	≤ 30.0		2000	± 30	≤ 6	±60	≤ 30.0	10000 $\pm 60$ $\leq 16$ $\pm 60$ $\leq 30.0$	5000	± 40	≤10	±60	≤ 30.0		10000	± 60	≤16	±60	≤ 30.0
10	± 0.100	≤ 0.040	± 0.12	≤ 0.08																																																																																																																																																													
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4

INTRODUCTION

\*P5000 and P10mL do not have tip ejectors.



The volume of liquid to be aspirated is set using the volumeter. The dials are colored either black or red to indicate the position of the decimal point, depending on the model (refer to Figure 3).

The volume is set by turning the thumbwheel or the push button. The push button makes it easier and faster to set volumes, especially when wearing gloves. The thumbwheel may be turned to slowly reach the required setting.



100	P200	1
0	1	(
7	2	
5	5	(
75 µL	125 μL	0

P1000	)
0	
7	
5	
0.75 m	L

P5000	P10mL
1	0
2	7
5	5
1.25 mL	7.5 mL

#### Figure 3 Dial colors by model

MODEL	COLOR OF VOLUMETER NUMBERS		
MODEL	BLACK	RED	INCREMENT
P2	μL	0.01 µL	0.002 µL
P10-P20	μL	0.1 µL	0.02 μL
P100-P200	μL	-	0.2 μL
P1000-P5000	0.01 mL	mL	0.002 mL
P10mL	mL	0.1 mL	0.02 mL

To obtain maximum accuracy when setting the volume:

- When decreasing the volume setting, slowly reach the required setting, making sure to not pass the setting.
- When increasing the volume setting, pass the required value by 1/3 of a turn and then slowly decrease to reach the volume, making sure to not pass the setting.



Figure 4 Location of push button and thumbwheel

## Chapter 3 PIPETTING

While many brands of tips can be used with the PIPETMAN® Classic, it is recommended to use PIPETMAN® DIAMOND Tips for optimum performance. These tips are made from pure polypropylene. Plastic tips are for a single application—they should not be cleaned for reuse.

### **Fitting the Tips**

To fit a new PIPETMAN DIAMOND Tip, push the tip holder into the tip using a slight twisting motion to ensure a firm, airtight seal.

### Fitting the Tips on P2 and P10 Models



For the P2 and P10 models, a dualposition adapter (plastic) is required to fit DL10 tips (long tips) or D10 tips (short tips). The metallic rod of the tip ejector is shaped so the adapter may be clipped to it in either position.

P2 and P10 models are delivered with the adapter in place, positioned in the longer slot,

and ready to use DL10 tips. When D10 tips are used, the adapter must be repositioned in the shorter slot as follows:

- 1. Pull the adapter down from the metallic rod.
- 2. Turn the adapter 180°.
- Refit the adapter so the end of the metallic rod engages the shorter slot of the adapter.

NOTE

Dual-position adapter is autoclavable.



Short Long tips tips

Figure 5 Dual-position adapter for P2 and P10



PIPETTING



An autoclavable tip ejector extension can be ordered as an accessory for P2 and P10 equipped with a plastic tip ejector (part number F107027; refer to <u>ACCESSORIES</u> on page 11).

#### To fit a tip ejector extension:

- 1. Slide the extension over the tip holder.
- Push the extension firmly onto the end of the tip ejector until it clicks into place.

#### To remove a tip ejector extension:

- 1. Gently twist the extension.
- 2. Pull it away from the pipette.

### **Pre-Rinse the Tips**

Some liquids (e.g., protein-containing solutions and organic solvents) can leave a film of liquid on the inside wall of the tip. Pre-rinse the tip to minimize any errors that may be related to this phenomenon.

Pre-rinsing consists of aspirating the first volume of liquid and then dispensing it back to waste. Subsequent volumes you pipette will have levels of accuracy and precision within specifications.

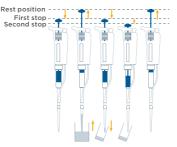
### Aspirate

- Press the push button to the **first stop** (this corresponds to the set volume of liquid).
- Hold the pipette vertically and immerse the tip in the liquid (refer to <u>Guidelines for Good Pipetting</u> on page 9).
- Release the push button slowly and smoothly (to the top position) to aspirate the set volume of liquid.
- 4. Wait one second. The time depends on the model (refer to the table). Then, withdraw the pipette tip from the liquid. You may wipe any droplets away from the outside of the tip using a medical wipe; however, if you do so, take care to avoid touching the tip's orifice.



### Dispense

- Place the end of the tip against the inside wall of the recipient vessel at an angle of 10° to 40°.
- 2. Press the push button slowly and smoothly to the **first stop**.
- 3. Wait for at least one second, then press the push button to the **second stop** to expel any residual liquid from the tip. Keep the push button pressed fully down and (while removing the pipette) draw the tip along the inside surface of the vessel.
- 4. Release the push button smoothly. Eject the tip by pressing firmly on the tip of the ejector button.



#### Figure 6

Pipetting motion - aspirate and dispense

### **Guidelines for Good Pipetting**

- Make sure you operate the push button slowly and smoothly.
- When aspirating, keep the tip at a constant depth below the surface of the liquid (refer to the table).

MODEL	IMMERSION DEPTH (MILLIMETERS)	WAIT TIME (SECONDS)
P2	1	1
P10	1	1
P20	2-3	1
P100	2-4	1
P200	2-4	1
P1000	2-4	2-3
P5000	3-6	4-5
P10mL	5-7	4-5

- Change the tip before aspirating a different liquid, sample, or reagent.
- Change the tip if a droplet remains at the end of the tip from the previous pipetting operation.

- Each new tip should be pre-rinsed with the liquid to be pipetted.
- Liquid should never enter the tip holder. To prevent this:
  - Press and release the push button slowly and smoothly.
  - Never turn the pipette upside down.
  - Never lay the pipette on its side when there is liquid in the tip.
- If you use the same tip with a larger volume, pre-rinse the tip.
- For volatile solvents, saturate the air cushion in your pipette by aspirating and dispensing the solvent repeatedly before aspirating the sample.
- When the temperature of the liquid is different from the ambient temperature, pre-rinse the tip several times before use.
- You may remove the tip ejector (refer to Changing the Tip Ejector on page 15) to aspirate from very narrow tubes.
- After pipetting acids or other corrosive liquids that emit vapors, remove the tip holder; then rinse the piston, O-ring, and seal with distilled water. For the P1000 model, use a specific tip holder equipped with a filter to increase the lifetime of the piston (refer to <u>ACCESSORIES</u> on page 11).
- Do not pipette liquids with temperatures above 70°C or below 4°C. The pipette can be used between 4°C and 40°C, but the specifications may vary according to the temperature (refer to the ISO 8655-2 standard for conditions of use).



## ACCESSORIES

To make pipetting more comfortable and secure, Gilson has developed several accessories.

DESCRIPTION	PART NUMBER
Plastic ejector P2/P10 with adapter	F107027
Plastic ejector P20	F107028
Plastic ejector P100	F107029
Plastic ejector P200	F107030
Plastic ejector P1000	F107031

Pipette stands allow users to store pipettes vertically to avoid the possibility of liquid running back into the pipette.

DESCRIPTION	PART NUMBER
CARROUSEL™ Pipette Stand (7 pipettes)	F161401
TRIO <sup>™</sup> Stand (3 pipettes)	F161405
SINGLE™ Pipette Holder	F161406

COLORIS<sup>™</sup> Identification Clips identify or personalize your pipette. Write your name or application to avoid mix-ups and then snap into place.

DESCRIPTION	PART NUMBER
COLORIS clips (mixed colors set of 10)	F161301
COLORIS clips (red, set of 10)	F161302
COLORIS clips (yellow, set of 10)	F161303
COLORIS clips (green, set of 10)	F161304
COLORIS clips (blue, set of 10)	F161305
COLORIS clips (white, set of 10)	F161306

With The JIMMY<sup>TM</sup>, hands-free microtube opener, you can open both snap-cap and screw-cap microtubes to increase pipetting efficiency and reduce the fatigue associated with manual tube opening.

DESCRIPTION	PART NUMBER
THE JIMMY (set of 3)	F144983

To protect the piston when pipetting corrosive liquids, you can use a specific tip holder and filter for the model P1000.

DESCRIPTION	PART NUMBER
Corrosion Protection Kit (tip holder + a bag of 10 filters)	F144570



## TROUBLESHOOTING

A quick inspection of the pipette may help you to detect a problem.

ΝΟΤΕ	You may download the Two Minute Inspection Poster from the Gilson website ( <u>www.gilson.com</u> ), which shows how to perform a quick diagnosis of your pipette.
AWARNING	Before returning any pipette to your local Gilson Service Center, ensure that it is completely free of chemical, biological, or radioactive contamination (refer to <u>Cleaning</u> <u>and Decontamination</u> on page 18). Please use the included safety bag to return the pipette to your local Gilson Service Center.

### **Troubleshooting Table**

The following table may help you to identify and correct issues you might encounter.

SYMPTOM	POSSIBLE CAUSE	ACTION	
Pipette is	Damaged tip holder	Replace the tip holder	
leaking sample	Worn O-ring or seal	Replace both parts	
	Worn O-ring or seal	Replace both parts	
Pipette won't aspirate	Damaged tip holder	Replace the tip holder	
	Connecting nut is loose	Tighten connecting nut	
	Damaged or corroded piston	Return pipette to supplier	
	Improper repair or assembly	Refer to page 15	
	Improper repair or assembly	Refer to page 15	
Pipette is inaccurate	Unscrew tip holder	Tighten connecting nut	
	Connecting nut is loose	Tighten connecting nut	

SYMPTOM	POSSIBLE CAUSE	ACTION
	Tip holder is loose	Tighten connecting nut
	Connecting nut is loose	Tighten connecting nut
Pipette is not	Incorrect operator technique	Operator training
precise	Damaged or corroded piston	Return pipette to supplier
	Damaged tip holder	Replace the tip holder
	Worn O-ring or seal	Replace both parts
	Low quality tips	Use PIPETMAN DIAMOND Tips
	Damaged tip holder	Replace the tip holder
	Damaged tip ejector	Replace tip ejector
Tips fall off or do not fit correctly	Ejector spacer is missing	Mount the spacer on the tip ejector
	The ejector spacer is damaged	Replace the ejector spacer
	The tip ejector is loose	Assemble the tip ejector properly
	The ejector lock is misaligned	Align the ejector lock

If you are not able to resolve the issue, contact your Gilson representative.



### Leak Test

This test may be performed at any time to check that the pipette does not leak, especially after performing a maintenance or decontamination procedure. If a pipette fails this test, replace the O-ring and seal. After making sure that the pipette is correctly reassembled, repeat this test.

### P2 to P200 Models

- 1. Fit a PIPETMAN® DIAMOND Tip.
- 2. Set the pipette to the maximum volume, given in the specifications and pre-rinse.
- 3. Aspirate the set volume from a beaker of distilled water.
- 4. Maintain the pipette in the vertical position and wait for 20 seconds.
- 5. If a water droplet appears at the end of the tip, there is a leak.
- 6. If you do not see a droplet, re-immerse the tip below the surface of water.
- The water level inside the tip should remain constant. If the level goes down, there is a leak.

### P1000 to P10mL Models

- 1. Fit a PIPETMAN DIAMOND Tip.
- 2. Set the pipette to the maximum volume given in the specifications.
- 3. Aspirate the set volume from a beaker of distilled water.
- 4. Maintain the pipette in the vertical position and wait for 20 seconds.
- 5. If a water droplet appears at the end of the tip, there is a leak.

## Chapter 6 MAINTENANCE

Routine maintenance will help keep your pipette in good condition, ensuring a continued high level of performance. Maintenance is limited to cleaning or autoclaving the parts as specified under Cleaning and Decontamination on page 18 or to replacing the push button. connecting nut, tip ejector, tip holder, seal, and O-ring.

> PIPETMAN P2 and P10 should not be disassembled. You may only replace the push button, tip ejector, and its dual-position adapter. With these pipettes, if the tip holder is damaged, the piston may also be damaged. After replacing any parts you should verify the performance of your pipette following the verification procedure available on the Gilson website (www.gilson.com). If the pipette needs to be readjusted, please contact your authorized Gilson Service Center.

## Changing the Tip Ejector

#### To remove:

NOTICE

- Push the ejection button.
- 2 Laterally push the tip ejector.
- 3 Slide and remove the tip eiector.

#### To refit:

Push the ejection button.



3 Clip the tip ejector on the body of the pipette.











Figure 7 Piston assembly (disassembled)

### Changing the Tip Holder – No Tools Required

- Remove the tip ejector (refer to Changing the Tip Ejector on page 15).
- 2. Unscrew the connecting nut by turning it counter-clockwise.
- 3. Carefully separate the lower and upper parts.
- Remove the piston assembly, O-ring, and seal.
- 5. Clean, autoclave, or replace the tip holder.
- 6. Reassemble the pipette (refer to <u>Piston Assembly (Disassembled)</u> on page 16).
- 7. Tighten the connecting nut (turn clockwise).
- Refit the tip ejector (refer to Changing the Tip Ejector on page 15).

### Servicing the Piston Assembly

You may remove the piston assembly for cleaning purposes only. If the piston assembly is changed, the pipette must be adjusted and calibrated in a Gilson authorized Service Center.

### NOTICE

The piston assembly must not be autoclaved.

- Remove the tip ejector (refer to Changing the Tip Ejector on page 15).
- 2. Unscrew the connecting nut by turning it counterclockwise.
- 3. Carefully separate the lower and upper parts.
- 4. Remove the piston assembly, O-ring, and seal.
- 5. Clean and decontaminate the piston assembly.
- 6. Reassemble the pipette (refer to Figure 7 on page 16).
- 7. Tighten the connecting nut (turn clockwise).
- Refit the tip ejector (refer to Changing the Tip Ejector on page 15).



MAINTENANCE

### **Changing the O-Ring**

The O-ring and seal on the piston must not be autoclaved. If worn or damaged in any way (chemical or mechanical), they must be replaced. The dimensions of the O-ring vary depending on the model of pipette.

- Remove the tip ejector (refer to Changing the Tip Ejector on page 15).
- 2. Unscrew the connecting nut by turning it counterclockwise.
- 3. Carefully separate the lower and upper parts.
- Remove the piston assembly, O-ring, and seal.
- 5. Clean or replace the seal followed by the O-ring.
- 6. Reassemble the pipette (refer to Figure 7 on page 16).
- 7. Tighten the connecting nut (turn clockwise).
- Refit the tip ejector (refer to Changing the Tip Ejector on page 15).

### **Cleaning and Decontamination**

PIPETMAN Classic is designed so that the parts normally in contact with liquid contaminants can easily be cleaned and decontaminated. However, because the models P2 and P10 contain miniaturized parts, it is best not to disassemble these pipettes yourself. Please contact your authorized Gilson Service Center.



You can refer to the decontamination procedure available on the Gilson website (<u>www.gilson.com</u>). Liquid must never enter the upper part (handle) of any pipette.

### Cleaning

The pipette must be cleaned, as described below, before it is decontaminated. Soap solution is recommended for cleaning PIPETMAN Classic.

#### EXTERNAL

- 1. Remove the tip ejector.
- Wipe the tip ejector with a soft cloth or lint-free tissue soaked with soap solution.
- Wipe the entire pipette with a soft cloth or lint-free tissue soaked with soap solution to remove all dirty marks. If the pipette is very dirty, a brush with soft plastic bristles may be used.
- Wipe the entire pipette and the tip ejector with a soft cloth or lint-free tissue soaked with distilled water.
- 5. Refit the tip ejector and allow the pipette to dry.

#### INTERNAL

Only the following components can be immersed in a cleaning solution: connecting nut, tip ejector, tip holder, piston assembly, seal, and O-ring.

- 1. Disassemble the pipette (refer to Figure 7 on page 16).
- Set aside the upper part in a clean, dry place.
- Clean the individual components of the lower part of the pipette using an ultrasonic bath (20 minutes at 50°C) or with a soft cloth and brushes. Small round brushes with soft plastic bristles may be used to clean the interior of the tip holder.
- 4. Rinse the individual components with distilled water.
- 5. Let the parts dry by evaporation or wipe them with a clean soft cloth, or lint-free tissue.
- 6. Reassemble the pipette (refer to Figure 7 on page 16).



**MAINTENANCE** 

### Autoclaving

The upper part (body) and the piston assembly of the pipette are not autoclavable. Only the following parts may be autoclaved: tip ejector, tip holder, and connecting nut. The O-ring and seal are not autoclavable. They may be cleaned or replaced with the ones found in <u>SPARE PARTS</u> on page 21.

- 1. Clean the parts to be autoclaved, especially the tip holder.
- 2. Put the parts in an autoclaving sack.
- 3. Autoclave for 20 minutes at 121°C, 0.1 MPa.
- Check that the parts are dry before reassembling the pipette.
- 5. Set the pipette aside equilibrate at room temperature.
- 6. Reassemble the pipette (refer to Figure 7 on page 16).

### **Chemical Decontamination**

You may choose to decontaminate your pipette chemically, in accordance with your own procedures. Whatever decontaminant you use, check with the supplier of the decontaminant to verify it is compatible with stainless steel and the plastics used in the construction of the pipette: PA (Polyamide), PBT (Polybutylene Terephtalate), PC (Polycarbonate), PC/PBT (Polycarbonate/ Polybutylene Terephtalate), POM (Polyoxymethylene), or PVDF (Polyvinylidene Fluoride).

### Upper Part (handle)

- Wipe the upper part (handle) of the pipette with a soft cloth or lint-free tissue soaked with the chosen decontaminant.
- Wipe the upper part of the pipette with a soft cloth or lint-free tissue soaked with distilled water or sterile water.

#### Lower Part (volumetric module)

Only the following components can be immersed in a decontaminant solution: connecting nut, tip ejector, tip holder, piston assembly, seal, and O-ring.

### Chapter 7

## SPARE PARTS

#### Service Kit 1st level includes:

- 3 piston seals\*
- 3 O-rings\*
- 1 tip holder

#### Service Kit 2nd level includes:

- 1 push button
- 1 connecting nut
- 1 tip ejector

#### For only: P2 and P10 models

- 1 tip ejector
- 1 adapter
- \* Only two seals and O-ring are provided for P5000mL



SPARE PARTS

### P2 (F144801) and P10 (F144802)

LABEL	DESCRIPTION	P2	P10
C+D+E	Service Kit 1st level	F144501	F144502
A+B+F1+F2	Service Kit 2nd level	F107012	F107013
C+D	Seal Guide + O-Ring (5 sets)	F144861	F144862
F2	Dual-Position Adapter (x5)	F144879	F144879

### P20 (F123600) and P100 (F123615)

LABEL	DESCRIPTION	P20	P100
C+D+E	Service Kit 1st level	F144495	F144496
A+B+F	Service Kit 2nd level	F107014	F107015
C+D	Seal Guide + O-ring (5 sets)	F144863	F144864

### P200 (F123601) and P1000 (F123602)

LABEL	DESCRIPTION	P200	P1000
C+D+E	Service Kit 1st level	F144497	F144498
A+B+F	Service Kit 2nd level	F107016	F107017
C+D	Seal Guide + O-ring (5 sets)	F144865	F144866

### P5000 (F123603) and P10mL (F161201)

LABEL	DESCRIPTION	P5000	P10ML
C+D+E	Service Kit 1st level	F144499	F144503
C+D	Seal Guide + O-ring (5 sets)	F144867	F161829
А	Push Button	F107009	F107010

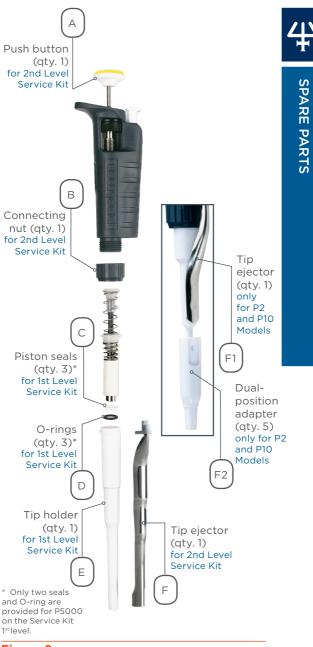


Figure 8 Spare parts identified





Gilson warrants this pipette against defects in material under normal use and service for a period of **three years** from the date of purchase.

This warranty shall not apply to pipettes which are subject to abnormal use and/or improper or inadequate maintenance (contrary to the recommendations given in the user's guide), including, but not limited to pipettes which have been subjected to physical damage, improper handling, or spillage or exposure to any corrosive environment. This warranty shall also be void in the event pipettes are altered or modified by any party other than Gilson or its designates. Gilson's sole liability under this warranty shall be limited to, at Gilson's sole option, repair, or replacement of any defective components of pipettes or refund of the purchase price paid for such pipettes. Routine cleaning, control, and recalibration are not covered under the warranty. The replacement of wearing parts such as seals, o-rings, broken pistons assembly, and broken tip holders are not covered under the warranty.



Yearly routine maintenance is highly recommended to keep your pipette in good condition, ensuring a continued high level of performance.

Do not lubricate this pipette. The use of lubricant cancels the warranty of this pipette.

THE FOREGOING WARRANTY IS EXCLUSIVE AND GILSON HEREBY DISCLAIMS ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING ANY WARRANTIES OF MERCHANTABILITY AND ANY WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE, UNDER NO CIRCUMSTANCES SHALL GILSON BE LIABLE FOR ANY CONSEQUENTIAL, PUNITIVE, INDIRECT OR INCIDENTAL DAMAGES ARISING OUT OF ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTY.

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