Description:

The GEMU Sampling System is designed to transport sterile samples from your production areas to lab or QA/QVC locations without exposure to contamination. The complete sampling path is easily sterilized prior to taking the sample.

Benefits & Features

- Valve body is machined from a variety of materials: 316L, Hastelloy, AL6XN
- The one piece design eliminates the use of a secondary transition piece between the body and bottle. This saves space and reduces the number of connections and possible areas of contamination.
- The compact design incorporates both a product sampling and steam bleed path.
- Lightweight
- Removable handle for autoclaving
- Smallest valve chamber available on the market reducing product hold up and waste
- Standard clamp connections
- Maximum temperature - 285°F (limit of the filling container)
- Variety of bottle sizes available - 100 to 1000 ml
- Standard GL 45 bottle thread connection

Typical Applications

- Pharmaceutical manufacturing
- Bioprocessing
- Cosmetic
- Brewery Service
- Food and Beverage
- Semiconductor
- High Purity Chemicals
Sampling Bottle Assembly

**Body Configuration**

- Multiported valve body

**Connection**

- Tri-clamp®
- Specials available upon request

**Body Material**

- Machined block
- Stainless steel 316 L (1.4435 (ASTM A 479))

**Special versions**

- (Consult factory for special material reference numbers)

**Diaphragm Material**

- Ethylene-propylene Rubber for saturated steam max 302° F
- 2nd generation, modified PTFE with Ethylene-propylene backing
- Ethylene-propylene Rubber for saturated steam max 302° F

**Control Function**

- Manually operated

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"**Working pressure**: 0 - 150 psi is the max. pressure on the valves; however, the container, under any conditions, should not be pressurized. Over filling the container could result in a rupture and/or bodily harm.

**Max. perm. Temperature of working medium on diaphragm**: 302°F (depending on diaphragm material/cycle time) container material may lower max. temp.

**Single entry flow path. NOTE THERE IS NO AUTOMATIC SHUT OFF TO PREVENT OVERFLOW.**

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**Surface Finish**

<table>
<thead>
<tr>
<th>µ-in.</th>
<th>BPE Surface Designation</th>
<th>Ra Average</th>
<th>Ra Max</th>
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<tbody>
<tr>
<td>µ-in.</td>
<td>µm</td>
<td>µm</td>
<td>µm</td>
</tr>
<tr>
<td>32</td>
<td>Mechanical</td>
<td>0.625</td>
<td>30</td>
</tr>
<tr>
<td>25</td>
<td>Mechanical</td>
<td>0.500</td>
<td>25</td>
</tr>
<tr>
<td>20</td>
<td>Mechanical</td>
<td>0.500</td>
<td>25</td>
</tr>
<tr>
<td>15</td>
<td>Mechanical</td>
<td>0.375</td>
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</tr>
<tr>
<td>11</td>
<td>Mechanical</td>
<td>0.375</td>
<td>20</td>
</tr>
<tr>
<td>10</td>
<td>E-pol</td>
<td>0.250</td>
<td>15</td>
</tr>
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</table>

**Sample Bottle Versions**

<table>
<thead>
<tr>
<th>Ref.no.</th>
<th>Special versions</th>
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<tbody>
<tr>
<td>U7794</td>
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**Order Example**

<table>
<thead>
<tr>
<th>Type of valve</th>
<th>Size DN</th>
<th>Body configuration</th>
<th>Connection (valve body)</th>
<th>Body Material</th>
<th>Diaphragm Material</th>
<th>Control Function</th>
<th>Actuator size</th>
<th>Locking device</th>
<th>Pipe main size</th>
<th>Pipe main connection</th>
<th>Surface finish</th>
<th>Special versions (XXXX)</th>
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</thead>
<tbody>
<tr>
<td>-601</td>
<td>015</td>
<td>M</td>
<td>80</td>
<td>41</td>
<td>3A</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1537</td>
<td>U7794</td>
</tr>
</tbody>
</table>

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All pressures are gauge pressures when applied upstream. The C values vary due to differences in valve construction (i.e., Port size, body material, diaphragm material, etc.)