TECHNICAL GUIDANCE

OUTLINE

The P-771 is an all-fluoresin, ultra-clean purgermeter. All parts from wetted parts to structural parts are made of non-metallic material. In particular, the wetted parts and tapered tube are PFA integral mold, preventing the purgermeter from rusting even in the atmosphere. Tube end connection is available.

The P-771 is ideal for the pure/ultra-pure water process and chemical injection process in semiconductor production facilities.

MAJOR APPLICATIONS

Pure/ultra-pure water lines and chemical injection lines in the semiconductor production process.

STANDARD SPECIFICATIONS

<table>
<thead>
<tr>
<th>Measuring fluid</th>
<th>Water</th>
<th>Liquids</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring range</td>
<td>Min. 3 to 15 mL/min</td>
<td>Max. 0.2 to 2 L/min</td>
</tr>
</tbody>
</table>

- When selecting a range, refer to "Index & Quick Reference for P Series Purgermeters" (TG-50001).
- When selecting a flow range, refer to the standard flow rate table.

<table>
<thead>
<tr>
<th>Range ability</th>
<th>10 : 1 (10 : 2 for some models)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indication accuracy</td>
<td>±5% F.S.</td>
</tr>
<tr>
<td>Fluid pressure</td>
<td>Max. 0.5MPa</td>
</tr>
<tr>
<td>Fluid temperature</td>
<td>Max. 60°C</td>
</tr>
</tbody>
</table>

Material

- Wetted part: PFA
- Tapered tube: PFA
- Gasket: PTFE (For models with a valve)
- Scale plate: PVC

Process Connection

- Tube end: φ6.35x11 (Standard), φ6x11, φ8x11
- Piller fitting (Super 300 type): φ6x11 Tube connection, φ8x11 Tube connection (Rc: 1/8”)

Mounting

- Screw mount on the panel front

Mass

- approx. 0.2 kg

The maximum operating temperature for each material may vary depending on usage and ambient conditions.

ALARM CONTACT AND OUTPUT

- Reed switch type alarm unit: General
- UL-approved: x
- PAU optical alarm unit: ○

For CE approval, refer to "Index & Quick Reference for P Series Purgermeters" (TG-50001).

STANDARD FLOW RATE TABLE

<table>
<thead>
<tr>
<th>Fluid</th>
<th>3 to 15 mL/min *</th>
<th>2 to 20 mL/min *</th>
<th>3 to 30 mL/min *</th>
<th>5 to 50 mL/min</th>
<th>10 to 100 mL/min</th>
<th>20 to 200 mL/min</th>
<th>30 to 300 mL/min</th>
<th>50 to 500 mL/min</th>
<th>0.1 to 1 L/min</th>
<th>0.2 to 2 L/min</th>
</tr>
</thead>
</table>

Although other flow rate specifications are available, some flow ranges need to be changed. Contact us for details.

* When the density and viscosity of liquid are different from 1.0 g/cm³ and 1.0 mPa.s respectively, the indication accuracy will be larger than ±8% F.S.

BASIC MODEL CODE

<table>
<thead>
<tr>
<th>Model Code</th>
<th>Descriptions</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valve</td>
<td>Not provided</td>
<td>Refer to &quot;Index &amp; Quick Reference for P Series Purgermeters&quot; (TG-50001).</td>
</tr>
<tr>
<td>U</td>
<td>Outlet</td>
<td></td>
</tr>
<tr>
<td>Alarm output</td>
<td>E</td>
<td>PAU alarm unit provided</td>
</tr>
<tr>
<td>Z</td>
<td>Special</td>
<td></td>
</tr>
</tbody>
</table>

Wetted parts material

- T: PFA

Gasket material

- W: No provided/welded structure (Standard)
- PTFE with valve

Process connection

- A: Tube end connection (Standard)
- B: φ6x11 Tube connection
- C: φ8x11 Tube connection
- P: φ6x11 Tube connection (Super 300 type)

OTHER AVAILABLE OPTIONS

You can specify the following options:

Double gradations, special graduations, etc. For details, refer to "Index & Quick Reference for P Series Purgermeters" (TG-50001).
# ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Basic model code</th>
<th>Items to be specified</th>
</tr>
</thead>
<tbody>
<tr>
<td>P - 771 -</td>
<td></td>
</tr>
<tr>
<td>(Select in the model code table.)</td>
<td></td>
</tr>
</tbody>
</table>

(Refer to Index & Quick Reference for P Series Purgeometers (TG-S0001).)

### DIMENSIONS

- **Tube end type**
  - P - 771 - U0 - TW - TA
    - Screw mounting on the panel front
    - Valve at the outlet

- **Rc type**
  - P - 771 - 00 - TW - R1
    - Screw mounting on the panel front
    - Without a valve

- **Piller fitting (Super 300 type)**
  - P - 771 - U0 - TW - PB
    - Screw mounting on the panel front
    - Valve at the outlet

  - P - 771 - 00 - TW - PC
    - Screw mounting on the panel front
    - Without a valve

### Standard material

<table>
<thead>
<tr>
<th>Parts name</th>
<th>Standard material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body, tapered tube</td>
<td>PFA integral mold</td>
</tr>
<tr>
<td>Float</td>
<td>PTFE</td>
</tr>
<tr>
<td>Float stopper</td>
<td>PFA</td>
</tr>
<tr>
<td>Valve body</td>
<td>PCTFE</td>
</tr>
<tr>
<td>Valve needle / gasket</td>
<td>PCTFE / PTFE</td>
</tr>
<tr>
<td>Fitting</td>
<td>PFA</td>
</tr>
<tr>
<td>Scale plate</td>
<td>Transparent PVC</td>
</tr>
</tbody>
</table>

Parts marked “○” come in contact with the measuring fluid.

* Specification is subject to change without notice.

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