Highly efficient, self-cleaning liquid bypass filters!

The Tornado Model 602 is a continuously self-cleaning filter that protects analyzers from particulate in liquid samples. In normal operation, components of interest flow through the Tornado’s element to the analyzer. Contaminants are shed by the element and removed through the Bypass port. The G.U.T.S.™ (Genie® Ultimate Thermoplastic Seal) gasket is an excellent alternative to expensive elastomers. It withstands radical temperature cycles without leaks due to its ability to maintain a bubble-tight seal even when thermocycled repeatedly from 0-300 °F. The multi-layer filter media consists of the support screen and flow screen. This results in more efficiency and easier installation and handling. The elements are self-cleaned by the flow of sample across them.

### Technical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum pressure rating</td>
<td>1,500 psig (103.4 barg)</td>
</tr>
<tr>
<td>Maximum temperature</td>
<td>300 °F (149 °C)</td>
</tr>
<tr>
<td>Minimum Bypass flow</td>
<td>1.5 gal/min</td>
</tr>
<tr>
<td>Internal volume</td>
<td>70 cc</td>
</tr>
<tr>
<td>Wetted materials</td>
<td>Machined parts: 316/316L stainless steel / NACE compliant&lt;br&gt;All other metal parts: stainless steel / NACE compliant&lt;br&gt;Sealing material: Kynar®</td>
</tr>
</tbody>
</table>

### Applications
- Continuous liquid sampling in any process industry including natural gas, petrochemical, and oil refining
- Analyzer protection against particulate
- Liquid sample pre-conditioning

### Benefits
- Helps preserve sample integrity
- Analyzer protection
- Quick and easy to install and maintain
- Quick and easy element inspection
- Economical

### Features
- Self-cleaning tornado action
- Single element, multi-layer stainless steel filter media
- All connection ports on the housing
- Sample ports located at 90° angles
- G.U.T.S.™ seal
- Back mounting
**Model Numbering & Additional Part Numbers**

*Your model number is determined by your specific needs. Choose options below.*

<table>
<thead>
<tr>
<th>Element rating</th>
<th>0.5 = 0.5 micron</th>
<th>2 = 2 micron</th>
<th>10 = 10 micron</th>
<th>25 = 25 micron</th>
<th>50 = 50 micron</th>
<th>100 = 100 micron</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kit quantity</td>
<td>Blank = Kit of 5</td>
<td>1 = Kit of 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mounting bracket accessory</td>
<td>Part # 602-509-SS (sold separately)</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

**How to build the model number:**

```
602 T SS
```

*Element rating (0.5 is porous metal. All others are screens.)*

**How to build the replacement filter element assembly and seal kit part number:**

```
602 5 T
```

*Element rating (0.5 is porous metal. All others are screens.)*

*Kit quantity*

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**Dimensions**

**Side View**

- **Front View**
  - **Outlet**
  - **Bypass**
  - **INLET**
  - **OUTLET**
  - **Dimensions:**
    - 4.37" x 4.37" x 5.30" (Side View)
    - 4.85" x 3.00" x 2.25" (Front View)

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Contact us for expert product application assistance.

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