"Y" (WYE) STRAINER ♦ BUTTWELD ENDS
ASME CLASS 600 ♦ CARBON AND STAINLESS STEEL

MODELS:  
YS 65-CS  
(CARBON STEEL)

YS 65-SS  
(STAINLESS STEEL)

FEATURES

- LARGE STRAINING CAPACITY
  With its large body and sizable straining element, the YS65 provides excellent open area ratios that are typically two-and-a-half times larger than the corresponding pipeline.

- PRECISION MACHINED SEATS
  Precision machined screen seats in both the body and cap help to ensure accurate positioning of the screen during reassembly after cleaning. Also, the machined body seats enable finer filtration by preventing debris bypass.

- ENCAPSULATED "CG" STYLE GASKET
  The "CG" style cover gasket provides additional radial strength to prevent gasket blowout. It also acts as a compression stop.

- SELF-CLEANING CAPABILITY
  With a tapped NPT blow-off connection, this unit can be fitted with a blow-down valve which facilitates cleaning of the straining element. Please contact factory for more information.

- EPOXY PAINTED
  Carbon steel units are epoxy painted to help resist rust and corrosion. TITAN FCI also offers epoxy coating as an option for the YS65.

- OPTIONAL COVER DESIGNS
  TITAN® unit YS65 is available with different cover options including swing, clamp, and hinge type covers. Please consult factory for more information on these options.

APPLICATIONS

- CARBON STEEL PROPERTIES: Carbon steel performs exceptionally well in high temperatures, up to 800°F in continuous service. It provides high resistance to shock, vibration, piping strains, and fire and freezing hazards. Carbon steel strainers are often used in the oil and petrochemical industries.

- STAINLESS STEEL PROPERTIES: Stainless steel is commonly specified for high temperature service, up to 1000°F in continuous service. Stainless steel strainers are commonly found in the chemical, food, and pharmaceutical industries.

The above data represents common market and service applications. No representation or guarantee, expressed or implied, is given due to the numerous variations of concentrations, temperatures and flow conditions that may occur during actual service.

TECHNICAL

<table>
<thead>
<tr>
<th>PRESSURE/TEMPERATURE RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS - ASTM A216 GR. WCB - CLASS 600</td>
</tr>
<tr>
<td>WOG (Non-shock): 1480 PSI @ 100 °F</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>PRESSURE/TEMPERATURE RATING</th>
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</thead>
<tbody>
<tr>
<td>SS - ASTM A351 GR. CF8M - CLASS 600</td>
</tr>
<tr>
<td>WOG (Non-shock): 1440 PSI @ 100 °F</td>
</tr>
</tbody>
</table>

- The above listed temperatures are theoretical and may vary during actual operating conditions.
- Carbon Steel not recommended for prolonged use above 800 °F.
- Stainless Steel not recommended for prolonged use above 1000 °F.

SIZE RANGE: 1/2" ~ 12"
**BILL OF MATERIALS**

<table>
<thead>
<tr>
<th>No.</th>
<th>PART</th>
<th>YS 65-CS</th>
<th>YS 65-SS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Body</td>
<td>Carbon Steel A216 Gr. WCB</td>
<td>Stainless Steel A351 Gr. CF8M</td>
</tr>
<tr>
<td>2</td>
<td>Cover</td>
<td>Carbon Steel A216 Gr. WCB</td>
<td>Stainless Steel A351 Gr. CF8M</td>
</tr>
<tr>
<td>3</td>
<td>Straining Element</td>
<td>Stainless Steel</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>4</td>
<td>Gasket</td>
<td>Stainless Steel “CG” Style</td>
<td>Stainless Steel “CG” Style</td>
</tr>
<tr>
<td>5</td>
<td>Nuts</td>
<td>Carbon Steel</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>6</td>
<td>NPT Plug Blow-off</td>
<td>Carbon Steel</td>
<td>Stainless Steel</td>
</tr>
</tbody>
</table>

1. Bill of Materials represents standard materials. Equivalent or better materials may be substituted at the manufacturer's discretion.
2. Available in additional body materials, such as LCB, WC6, WC9, 316L, Alloy 20, and Monel.
3. Denotes recommended spare parts.
4. The cover gasket is encapsulated in a machined recessed seat. A wide range of gasket materials are available; contact factory.
5. Carbon Steel bodies are epoxy painted.

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**PRESSURE - TEMPERATURE RATINGS**

**Carbon Steel**

- **A216 Gr. WCB ANSI Class 600**
- **A351 Gr. CF8M**

**Stainless Steel**

- **A351 Gr. CF8M ANSI Class 600**

**WOG (Non-shock):**

- **1480 PSI @ 100 °F**
- **1440 PSI @ 100 °F**

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- **REFERENCES:**
  - **Buttwelding Ends**
  - **Flanged, Threaded, and Welding End**

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**SCREEN SELECTION GUIDELINES**

<table>
<thead>
<tr>
<th>Size</th>
<th>Liquid</th>
<th>Open Area</th>
<th>Steam</th>
<th>Open Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2” - 4”</td>
<td>1/16 (.0625)</td>
<td>41%</td>
<td>1/32 (.033)</td>
<td>28%</td>
</tr>
<tr>
<td>5” - 8”</td>
<td>1/8 (.125)</td>
<td>40%</td>
<td>3/64 (.045)</td>
<td>36%</td>
</tr>
<tr>
<td>10” - 12”</td>
<td>1/8 (.125)</td>
<td>40%</td>
<td>30 Mesh Lined</td>
<td>44.8%</td>
</tr>
</tbody>
</table>

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**PRESSURE - TEMPERATURE RATING**

- **Carbon Steel**
  - **A216 Gr. WCB ANSI Class 600**
  - **A351 Gr. CF8M**

- **Stainless Steel**
  - **A351 Gr. CF8M ANSI Class 600**

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