"Y" (WYE) STRAINER ∘ BUTT WELD ENDS

ASME CLASS 2500 ∘ CARBON AND STAINLESS STEEL

MODELS:  YS 71-CS
(CARBON STEEL)

YS 71-SS
(STAINLESS STEEL)

SIZES:  1" ~ 10"

FEATURES

◊ RUGGED - HIGH QUALITY DESIGN
TITAN® UNIT YS71 IS IDEAL FOR POWER GENERATION AND OTHER DEMANDING INDUSTRIAL APPLICATIONS THAT HAVE HIGHER PRESSURE AND TEMPERATURE REQUIREMENTS. THIS UNIT EMPLOYS HEAVY GAUGE, REINFORCED SCREENS TO PREVENT DAMAGE TO THE STRAINING ELEMENT. BOLT HOLES ARE BACK OR SPOT FACED.

◊ LARGE STRAINING CAPACITY
WITH ITS LARGE BODY AND SIZABLE STRAINING ELEMENT, THE YS71 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.

◊ REUSABLE RTJ GASKET
PRECISION MACHINED, RTJ GASKETS ARE PREFERRED FOR HIGH PRESSURE AND HIGH TEMPERATURE SERVICES BECAUSE THEY PROVIDE A TIGHT, EFFICIENT SEAL AND A LONG SERVICE LIFE.

◊ SELF-CLEANING CAPABILITY
WITH THE OPTIONAL SOCKET WELD 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 UNITS ARE EPOXY PAINTED TO HELP RESIST RUST AND CORROSION. TITAN FCI ALSO OFFERS EPOXY COATING. PLEASE CONTACT FACTORY FOR MORE INFORMATION.

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.

TITAN® FLOW CONTROL, INC.
YOUR PIPELINE TO THE FUTURE!
Tel: 910-735-0000  Fax: 910-738-3848  titan@titanfci.com  www.titanfci.com
290 Corporate Drive  PO Box 7408  Lumberton, NC 28358

TECHNICAL

PRESSURE/TEMPERATURE RATING
CS - ASTM A216 GR. WCB - CLASS 2500
WOG (Non-shock):  6170 PSI @ 100 °F

PRESSURE/TEMPERATURE RATING
SS - ASTM A351 GR. CF8M - CLASS 2500
WOG (Non-shock):  6000 PSI @ 100 °F

• 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.
**BILL OF MATERIALS (1)**

<table>
<thead>
<tr>
<th>No.</th>
<th>PART</th>
<th>YS 71-CS (1)</th>
<th>YS 71-SS</th>
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<tbody>
<tr>
<td>1</td>
<td>Body</td>
<td>Carbon Steel</td>
<td>Stainless Steel</td>
</tr>
<tr>
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<td></td>
<td>A216 Gr.WCB</td>
<td>A351 Gr.CF8M</td>
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<td>2</td>
<td>Cover</td>
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<td></td>
<td></td>
<td>A216 Gr.WCB</td>
<td>A351 Gr.CF8M</td>
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<tr>
<td>3</td>
<td>Straining Element</td>
<td>Stainless Steel</td>
<td>Stainless Steel</td>
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<tr>
<td>4</td>
<td>Gasket</td>
<td>RTJ Gasket</td>
<td>RTJ Gasket</td>
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<tr>
<td>5</td>
<td>Studs</td>
<td>Alloy Steel</td>
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<td>6</td>
<td>Nuts</td>
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1. Bill of Materials represents standard materials. Equivalent or better materials may be substituted at the manufacturer’s discretion.
2. Denotes recommended spare parts.
3. Carbon Steel bodies are epoxy painted.

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**PRESSURE - TEMPERATURE RATINGS**

- **Carbon Steel**
  - A216 Gr.WCB ANSI Class 2500
  - Stainless Steel not recommended for prolonged use above 800°F
- **Stainless Steel**
  - A351 Gr.CF8M ANSI Class 2500
  - Stainless Steel not recommended for prolonged use above 1000°F

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**DIMENSIONS AND PERFORMANCE DATA (1)**

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<tr>
<th>SIZE</th>
<th>in</th>
<th>1</th>
<th>1 1/2</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>6</th>
<th>8</th>
<th>10 (2)</th>
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<tr>
<td></td>
<td>mm</td>
<td>25</td>
<td>40</td>
<td>50</td>
<td>80</td>
<td>100</td>
<td>150</td>
<td>200</td>
<td>250</td>
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<td>A DIMENSION FACE TO FACE</td>
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<td>12.0</td>
<td>12.0</td>
<td>18.0</td>
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<td>457</td>
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<td>307</td>
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<td>160</td>
<td>375</td>
<td>600</td>
<td>C/F</td>
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</tbody>
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**PRESSURE - TEMPERATURE RATING**

- **Body Material**
  - A216 Gr.WCB
  - A351 Gr.CF8M

| WOG (Non-shock) | 6170 PSI @ 100 °F | 6000 PSI @ 100 °F |

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**SCREEN SELECTION GUIDELINES**

<table>
<thead>
<tr>
<th>Size</th>
<th>Liquid Open Area</th>
<th>Steam Open Area</th>
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</thead>
<tbody>
<tr>
<td>1” ~ 4”</td>
<td>1/16 (.0625)</td>
<td>1/32 (.033)</td>
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<tr>
<td>5” ~ 8”</td>
<td>1/8 (.125)</td>
<td>3/64 (.045)</td>
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</tbody>
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**ADDITIONAL DESIGN & TECHNICAL NOTES:**

- An optional socket weld blow-off is available. Please contact factory.
- NPT blow-offs are not recommended for ASME Class 2500 strainers.
- Bodies are also available in high temperature steel A217 Gr. WC6 and WC9. Please contact factory for price and delivery.
- Socket Weld End Connections are available for sizes 2” and under; ask about Titan’s ASME 2500 YS 86 y-strainers.

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