"Y" (WYE) STRAINER • SOCKET WELD ENDS
ASME CLASS 2500 • CARBON AND STAINLESS STEEL

MODELS:  YS 86-CS
          (CARBON STEEL)
          YS 86-SS
          (STAINLESS STEEL)

FEATURES

◊ RUGGED - HIGH QUALITY DESIGN
TITAN\(^1\) UNIT YS86 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 ALSO BACK OR
SPOT FACED.

◊ LARGE STRAINING CAPACITY
WITH ITS LARGE BODY AND SIZABLE STRAINING ELEMENT, THE YS86 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 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.

APPLICATIONS

CARBON STEEL PROPERTIES: CARBON STEEL PERFORMS EXCEPTIONALLY WELL IN HIGH TEMPERATURES, UP TO 800\(^\circ\)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\(^\circ\)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

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.

YS86-1015
Also available in
WC6, WC9, 316L, and Alloy 20!

Tel: 910-735-0000 Fax: 910-738-3848 titan@titanfci.com www.titanfci.com
290 Corporate Drive PO Box 7408 Lumberton, NC 28358

TITAN® FLOW CONTROL, INC.
YOUR PIPELINE TO THE FUTURE!
**WYE STRAINER**

**YS 86-CS** - (Carbon Steel)

**YS 86-SS** - (Stainless Steel)

Socket Weld Ends • Carbon & Stainless Steel

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**BILL OF MATERIALS**

<table>
<thead>
<tr>
<th>No.</th>
<th>PART</th>
<th>YS 86-CS</th>
<th>YS 86-SS</th>
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<tr>
<td>1</td>
<td>Body</td>
<td>Carbon Steel</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A216 Gr. WCB</td>
<td>A351 Gr. CF8M Type 316</td>
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<td>2</td>
<td>Cover</td>
<td>Carbon Steel</td>
<td>Stainless Steel</td>
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<td></td>
<td></td>
<td>A216 Gr. WCB</td>
<td>A351 Gr. CF8M Type 316</td>
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<tr>
<td>3</td>
<td>Straining Element</td>
<td>Stainless Steel</td>
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<td>4</td>
<td>Gasket</td>
<td>RTJ Gasket</td>
<td>RTJ Gasket</td>
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<td></td>
<td></td>
<td>Stainless Steel</td>
<td>Stainless Steel</td>
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<tr>
<td>5</td>
<td>Studs</td>
<td>Alloy Steel</td>
<td>Alloy Steel</td>
</tr>
<tr>
<td>6</td>
<td>Nuts</td>
<td>Alloy Steel</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.

**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 WC6, WC9, 316L, and Alloy 20. Please contact factory for price and delivery.

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**DIMENSIONS AND PERFORMANCE DATA**

<table>
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<tr>
<th>SIZE</th>
<th>in</th>
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<th>1</th>
<th>1 1/2</th>
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<tr>
<td></td>
<td>mm</td>
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<td>A DIMENSION</td>
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<td>B DIMENSION</td>
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<td>C DIMENSION</td>
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<td>SCREEN REMOVAL</td>
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<td>217</td>
<td>229</td>
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<tr>
<td>APPROXIMATE ASSEMBLED WEIGHT</td>
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<td>FLOW COEFFICIENT Cv</td>
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<td>297</td>
<td>356</td>
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</table>
| 1. Dimensions, weights, and flow coefficients are for reference only. When required, request certified drawings.
2. Face to face values have a tolerance of ±0.06 in (±2.0 mm).|

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**PRESSURE - TEMPERATURE RATINGS**

- Carbon Steel A216 Gr. WCB ANSI Class 2500
- Carbon 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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**PRESSURE - TEMPERATURE RATING**

<table>
<thead>
<tr>
<th>Body Material</th>
<th>A216 Gr. WCB</th>
<th>A351 Gr. CF8M</th>
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<td>VOG (Non-shock): 6170 PSI @ 100 °F</td>
<td>6000 PSI @ 100 °F</td>
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**SCREEN SELECTION GUIDELINES**

Size | Liquid Open Area | Steam Open Area |
<table>
<thead>
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<tr>
<td>3/4&quot; ~ 2&quot;</td>
<td>1/16 (.0625)</td>
<td>1/32 (.033)</td>
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**REFERENCED STANDARDS & CODES**

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<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>ASME B16.11</td>
<td>Forged Steel Fittings, Socket-Welding and Threaded</td>
</tr>
<tr>
<td>ASME B16.34</td>
<td>Flanged, Threaded, and Welding End</td>
</tr>
</tbody>
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As Titan product changes occur, there may be short-term differences between actual product specifications and the information contained within our literature. Titan FCI reserves the right to make design and specification changes to improve our products without prior notification. When required, request certified drawings. TITAN is a registered trademark of Titan Flow Control Incorporated.