SIMPLEX BASKET STRAINER • FLANGED ENDS

ASME CLASS 600 • CARBON AND STAINLESS STEEL

MODELS:  
BS 89-CS  
(CARBON STEEL)  
BS 89-SS  
(STAINLESS STEEL)

FEATURES

◇ RUGGED, HIGH QUALITY CONSTRUCTION
THE MODEL BS 89-CS/SS IS A HEAVY DUTY BASKET STRAINER DESIGNED WITH EXCEPTIONAL WALL THICKNESS. IT IS AVAILABLE IN BOTH CARBON STEEL AND STAINLESS STEEL. IT IS A LOGICAL CHOICE FOR SERVICE APPLICATIONS THAT HAVE HIGHER TEMPERATURE AND PRESSURE REQUIREMENTS.

◇ MINIMAL PRESSURE LOSS
PRESSURE LOSS IS MINIMIZED BY PROVIDING A SLANTED STRAINING ELEMENT DESIGN AND STRAIGHT FLOW PATH. PLUGGED NPT TAPS ARE PROVIDED (NEAR THE INLET AND OUTLET ON BOTH SIDES) ALLOWING FOR THE QUICK MOUNTING OF PRESSURE GAUGES TO MONITOR PRESSURE LOSS.

◇ LARGE STRAINING CAPACITY
WITH ITS LARGE BODY AND SIZEABLE STRAINING ELEMENT, THE BS 89-CS/SS HAS THE ABILITY TO STORE LARGE QUANTITIES OF DEBRIS WITHOUT AFFECTING PRESSURE LOSS - THUS MAXIMIZING TIME BETWEEN SERVICING.

◇ NUMEROUS STRAINING ELEMENT OPTIONS
STRAINING ELEMENTS ARE AVAILABLE IN A VARIETY OF PERFORATIONS, MESHES, AND MATERIALS. SPECIAL DESIGNS ARE ALSO AVAILABLE INCLUDING MAGNETIC, WEDGE WIRE AND DRILLED PERFORATIONS. THE STANDARD MATERIAL FOR STRAINING ELEMENTS IS TYPE 304 STAINLESS STEEL.

◇ CUSTOM-DESIGNED OPTION
WHEN AN OFF-THE-SHELF UNIT WILL NOT WORK, TITAN™ CAN FABRICATE A CUSTOM DESIGNED UNIT THAT WILL MEET YOUR EXACT PIPING REQUIREMENTS. THIS COULD INCLUDE A CUSTOM COVER OPTION FOR EASE OF MAINTENANCE OR A LARGER BODY FOR INCREASED DEBRIS LOADING CAPACITY.

MARKETS:  
WATER & WASTEWATER, PULP & PAPER, CHEMICAL & PETROCHEMICAL, PETROLEUM, OIL & GAS, TRANSPORTATION, MARINE INDUSTRY, AND FOOD INDUSTRY

GENERAL APPLICATION:  
SIMPLEX BASKET STRAINERS ARE INSTALLED INTO A PIPELINE SYSTEM TO REMOVE UNWANTED DEBRIS FROM THE PIPELINE FLOW. BASKET STRAINERS ARE COMMONLY USED IN HORIZONTAL PIPELINES WHERE DEBRIS LOADING IS HIGH AND THE COLLECTION OF SOLIDS IS REQUIRED. STRAINING IS ACCOMPLISHED VIA A PERFORATED OR MESH LINED STRAINING ELEMENT, INTERNAL TO THE BASKET STRAINER. IN GENERAL, THE SIZE OF THE PERFORATION OR MESH SHOULD BE SLIGHTLY SMALLER THAN THE SMALLEST DEBRIS PARTICLE TO BE REMOVED. IT IS IMPORTANT TO NOTE THAT THE CORRECT SIZE OF A BASKET STRAINER IS DETERMINED BY ITS JOB FUNCTION, NOT BY THE SIZE OF THE PIPELINE.

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
SIMPLEX BASKET STRAINER
BS 89-CS - (Carbon Steel)
BS 89-SS - (Stainless Steel)
Flanged Ends • Raised Face • Carbon & Stainless Steel

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BS89-0320

TITAN® FLOW CONTROL, Inc.

Bill of Materials (1)

<table>
<thead>
<tr>
<th>No.</th>
<th>PART</th>
<th>BS 89-CS (2)</th>
<th>BS 89-SS</th>
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<tbody>
<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</td>
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<tr>
<td>2</td>
<td>Cover</td>
<td>Carbon Steel</td>
<td>Stainless Steel</td>
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<tr>
<td></td>
<td></td>
<td>A216 Gr.WCB</td>
<td>A351 Gr.CF8M</td>
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<tr>
<td>3</td>
<td>Cover</td>
<td>Carbon Steel</td>
<td>Stainless Steel</td>
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<tr>
<td></td>
<td></td>
<td>A193-B7</td>
<td>A-193-B8</td>
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<td>4</td>
<td>Studs</td>
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<tr>
<td></td>
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<td>A194-2H</td>
<td>A-193-B8</td>
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<tr>
<td>5</td>
<td>Nut</td>
<td>Carbon Steel</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>6</td>
<td>Plug</td>
<td>Carbon Steel</td>
<td>Stainless Steel</td>
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</table>

1. Equivalent or better materials may be substituted at the manufacturer's discretion.
2. Carbon Steel bodies are epoxy painted.
3. Denotes recommended spare parts.
4. Carbon Fiber Compressed gasket may be substituted at the manufacturer's discretion.

Body Material Application Notes:
- 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 is highly corrosion resistant, extremely strong, and 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.

Illustrations are representative of a 10" BS89-CS. Please ask for certified drawings when required.

Dimensions and Performance Data (1)

<table>
<thead>
<tr>
<th>SIZE</th>
<th>2</th>
<th>2 ½</th>
<th>3</th>
<th>4</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
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<tbody>
<tr>
<td>in</td>
<td>50</td>
<td>65</td>
<td>80</td>
<td>100</td>
<td>150</td>
<td>200</td>
<td>250</td>
<td>300</td>
</tr>
<tr>
<td>mm</td>
<td>1275</td>
<td>165</td>
<td>203</td>
<td>254</td>
<td>381</td>
<td>508</td>
<td>635</td>
<td>762</td>
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<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
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<tr>
<td>ASME B16.5</td>
<td>Pipe Flanges and Flanged Fittings</td>
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<tr>
<td>ASME/MSS SP-55</td>
<td>Quality Standard - Visual Inspection</td>
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Pressure - Temperature Ratings

1. Dimensions, weights, and fl ow coefficients are provided for reference only. When required, always request certified drawings.
2. Face to face values have a tolerance of ±0.06 in (±2 mm).

SCREEN SELECTION GUIDELINES

Additional Design & Technical Notes:
- Cover vent provided on all sizes. Cover vent is 1/8" NPT on 2" - 4" sizes and 1/4" on sizes 6" - 12" all are furnished with plug.
- Bottom drain is furnished with plug. See table to the left for sizes.
- 1/4" NPT gauge taps are provided on all sizes and are furnished with plugs.
- Adjustable/Removable Support legs are provided on sizes 4" and larger.
- Steam jacketed designs are available - C/F.
- Epoxy coating is available - C/F.
- Designed for horizontal pipelines only.
- Standard material for straining elements is Type 304 Stainless Steel. Other materials are available upon request.

Referenced Standards & Codes

<table>
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<tr>
<th>Size</th>
<th>Liquid</th>
<th>Open Area</th>
<th>Steam</th>
<th>Open Area</th>
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</thead>
<tbody>
<tr>
<td>2&quot; - 4&quot;</td>
<td>1/16 (.0625)</td>
<td>41%</td>
<td>3/16 (.045)</td>
<td>36%</td>
</tr>
<tr>
<td>6&quot; - 12&quot;</td>
<td>1/8 (.125)</td>
<td>40%</td>
<td>3/8 (.375)</td>
<td>44.8%</td>
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As Titan FCI 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.