

SIMPLEX BASKET STRAINER * FLANGED ENDS

ANSI CLASS 300 * CARBON AND STAINLESS STEEL

TITAN FLOW CONTROL, INC.

MODELS: BS 86-CS

(CARBON STEEL)

BS 86-SS

(STAINLESS STEEL)

SIZES: 2" ~ 12" **FEATURES**



♦ RUGGED, HIGH QUALITY CONSTRUCTION

THE MODEL BS 86-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.

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 86-CS/SS HAS THE ABILITY TO STORE LARGE QUANTITIES OF DEBRIS WITHOUT AFFECTING PRESSURE LOSS - THUS MAXIMIZING TIME BETWEEN SERVICING.

O 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, DRILLED PERFORATIONS, AND PLEATED STRAINING ELEMENTS. THE STANDARD MATERIAL FOR STRAINING ELEMENTS IS TYPE 304 STAINLESS STEEL.

SELF-CLEANING OPTION

UTILIZING A MODIFIED STRAINING ELEMENT, THE BOTTOM DRAIN CAN BE FITTED WITH A TITAN FCI BALL VALVE TO ALLOW FOR THE AUTOMATIC CLEANING OR FLUSHING OF THE STRAINING ELEMENT WHILE KEEPING THE PIPELINE IN SERVICE.

TECHNICAL

PRESSURE/TEMPERATURE RATING CS - ASTM A216 GR. WCB - CLASS 300

WOG: 740 PSI @ 100 °F

Saturated Steam: 300 PSI @ 420 °F Maximum Liquid: 400 PSI @ 800 °F

PRESSURE/TEMPERATURE RATING SS - ASTM A351 GR. CF8M - CLASS 300

WOG: 720 PSI @ 100 °F

Saturated Steam: 300 PSI @ 420 °F Maximum Liquid: 350 PSI @ 1000 °F

- Carbon Steel not recommended for prolonged use above 800 °F.
- Stainless Steel not recommended for prolonged use above 1000 °F.

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 PIPFLINE TO THE FUTURE!

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SIMPLEX BASKET STRAINER

BS 86-CS - (Carbon Steel)
BS 86-SS - (Stainless Steel)

Flanged Ends • Raised Face • Carbon & Stainless Steel

ANSI Class 300 lb

BILL OF MATERIALS (1)						
No.	PART	BS 86-CS (2)	BS 86-SS			
I	Body	Carbon Steel A216 Gr.WCB	Stainless Steel A351 Gr. CF8M			
2	Cover	Carbon Steel A216 Gr.WCB	Stainless Steel A351 Gr. CF8M			
3	Cover Gasket (3) (4)	Spiral Wound Stainless Steel Non-Asbestos				
4	Straining (3) Element	Type 304 Stainless Steel (Other materials are available)				
5	Stud	Alloy Steel A193-B7	Stainless Steel 18-8 Series 300			
6	Nut	Carbon Steel A194-2H	Stainless Steel 18-8 Series 300			
7	Plug	Carbon Steel	Stainless Steel			

- 1. Equivalent or better materials may be substituted at the manufacturer's discretion.
- 2. Carbon Steel bodies are epoxy painted.
- Denotes recommended spare parts.
- 4. Gasket is for bolted cover. For special cover designs, different gasket may be used.

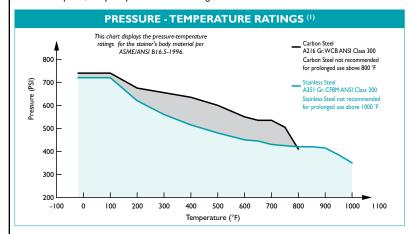
Body Material Application Notes:

- <u>Carbon Steel</u> 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.
- <u>Stainless Steel</u> is highly corrosion resistant, extremely strong, and is commonly specified fo
 high temperature service, up to 1000 °F in continuous service. Stainless Steel strainers are
 commonly found in the chemical, food, and pharmaceutical industries.

Includes Raised Face	E Basket Removal Clearance
S NPT Cover Vent	
3	C Centerline to Top of Cover
1/4" NPT Gauge Taps	
	B Centerline to Bottom Drain Boss
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s are D	

DIMENSIONS AND PERFORMANCE DATA (1) in 2 2 1/2 3 4 5 6 8 10 12 SIZE 65 mm 50 80 100 125 150 200 250 300 **A** DIMENSION 8.50 8.687 9.562 11.875 C/F 14.75 18.125 22.875 25.375 in FACE TO FACE mm 216 221 243 302 C/F 375 461 582 645 **B** DIMENSION 6.125 6.25 8.00 8.531 C/F 12.75 15.625 16.515 24.515 in CTR. LINE TO BOTTOM 156 159 204 217 C/F 324 397 420 623 mm 5.453 4 906 6.078 5.312 C/F 6.375 8.078 9.703 11.703 **C** DIMENSION in CTR. LINE TO TOP 125 139 155 135 C/F 162 206 247 298 mm 75 75 75 1.00 C/F 1 25 125 **D** DIMENSION in 1.50 2 00 NPT BLOW-OFF 20 20 20 25 C/F 32 32 40 50 9.00 10.00 10.00 10.00 C/F 20.00 20.00 26.00 35.00 **E** DIMFNSION in SCREEN REMOVAL 229 254 254 254 C/F 508 508 mm 661 889 lb 55.0 70.0 0.18 120.0 C/F 230.0 377.0 600.0 C/F **ASSEMBLED** WEIGHT 24.9 31.7 36.7 54.4 C/F 104.2 170.8 271.9 C/F kg Flow Coefficient C_{v} 43 86 135 290 490 780 1600 3250 5200

 Dimensions, weights, and flow coefficients are provided for reference only. When required, always request certified drawings.



Additional Design & Technical Notes:

- Cover vent provided on all sizes.
 Cover vent is I/4" NPT on all sizes and is furnished with plug.
- Bottom drain is furnished with plug. See table to the right for sizes
- I/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.
- Optional cover designs are available C/F.
- 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 DESCRIPTION

Pipe Flanges and Flanged Fittings

PRESSURE - TEMPERATURE RATING						
ANSI CLASS 300	A216 Gr.WCB	A351 Gr. CF8M				
WOG (water, oil, gas)	740 PSI @ 100 °F	720 PSI @ 100 °F				
Saturated Steam	300 PSI @ 420 °F	300 PSI @ 420 °F				
Max Liquid	400 PSI @ 800 °F	350 PSI @ 1000 °F				

STANDARD SCREEN SELECTIONS						
Size	Liquid	Open Area	Steam	Open Area		
2" ~ 4"	1/16 (.0625)	41%	3/64 (.045)	36%		
5" ~ 12"	1/8 (.125)	40%	30 Mesh	44.8 %		

Titan FCI makes every effort to ensure the information presented on our literature accurately reflects exact product specifications. However, as 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.

CODE

ASME/ANSI B16.5