

#### SIMPLEX BASKET STRAINER \* FLANGED ENDS - FLAT FACE

#### ASME CLASS 125 \* CAST IRON \* CLAMPED & BOLTED COVER

TITAN FLOW CONTROL, INC.

### MODELS: BS 55-CI

(CLAMPED COVER)

### **BS 65-CI**

(BOLTED COVER)

SIZES: 2" ~ 20"

BS 55-Cl is shown with clamp cover and removable leg brackets

Side drain is standard, an optional bottom drain is available



## **FEATURES**

O VERSATILE - HIGH QUALITY DESIGN

THIS BASKET STRAINER IS AVAILABLE WITH EITHER A FULL RATED BOLTED COVER (BS65) OR CLAMPED COVER (BSSS). BOTH MODELS ARE EPOXY PAINTED AND COME STANDARD WITH A PLUGGED SIDE DRAIN CONNECTION. LARGER SIZES (8" ~ 20") ALSO FEATURE REMOVABLE/ ADJUSTABLE LEG BRACKETS.

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PRESSURE LOSS IS MINIMIZED BY PROVIDING A SLANTED STRAINING ELEMENT DESIGN, A STRAIGHT-THROUGH FLOW PATH, AND A LARGE OPEN AREA RATIO. INLET AND OUTLET BOSSES ARE PROVIDED TO FACILITATE THE MOUNTING OF PRESSURE GAUGES TO MONITOR PRESSURE LOSS.

#### LARGE STRAINING CAPACITY

WITH ITS LARGE BODY AND SIZEABLE STRAINING ELEMENT, THIS BASKET STRAINER 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.

#### O POTABLE WATER/FDA APPROVED COATINGS AVAILABLE



ADDITION TO ITS LEAD FREE, CAST IRON BODY, TITAN CAN PROVIDE NSF/ASME AND FDA APPROVED EPOXY COATINGS WHICH MAKE THIS PRODUCT SUITABLE FOR POTABLE WATER AND FOOD CONTACT APPLICATIONS. NUMEROUS OPTIONS ARE AVAILABLE. PLEASE CONTACT US FOR MORE DETAILS.

### **TECHNICAL**

#### PRESSURE/TEMPERATURE RATING CAST IRON ASTM A 126 GR. B - CLASS 125

BS 55-CI (Clamped Cover) (2" ~ 12") WOG (Non-shock): 200 PSI @ 100 °F

BS 65-CI (Bolted Cover) (2" ~ 12") WOG (Non-shock): 200 PSI @ 150 °F

BS 55-CI (Clamped Cover) (14" ~ 20") WOG (Non-shock): 100 PSI @ 100 °F

BS 65-CI (Bolted Cover) (14" ~ 20") WOG (Non-shock): 150 PSI @ 150 °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

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#### **SIMPLEX BASKET STRAINER**

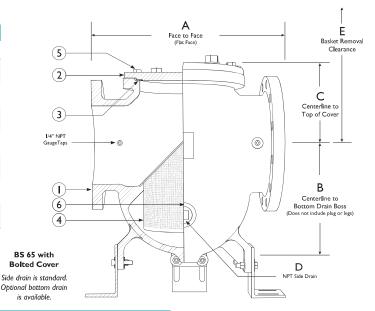
BS 55-CI - (Clamped Cover)
BS 65-CI - (Bolted Cover)

Flanged Ends • Flat Face • Cast Iron Body

ASME Class 125

BILL OF MATERIALS (1)								
No.	PART	BS 65-CI	BS 55-CI					
I	Body (2)	Cast Iron AS	ΓM A 126 Gr. B					
2	Cover	Cast Iron AST	ΓM A I 26 Gr. B					
3	Cover Gasket (3)	Non-Asbestos - BS65 <sup>(4)</sup>	Buna-N O-Ring - BS55					
4	Straining Element (3)	Type 304 St	cainless Steel					
5	Cap Screws	Zinc Plated	Carbon Steel					
6	Plugs (Boss/Drain)	Cast	: Iron					
7	Clamp (5)	N/A	Cast Steel					

- I. Equivalent or better materials may be substituted at the manufacturer's discretion.
- 2. Cast Iron bodies are epoxy painted.
- 3. Denotes recommended spare parts.
- 4. Carbon Fiber Compressed gasket may be substituted at the manufacturer's discretion.
- 5. Clamp cover for BS55 only.



#### **DIMENSIONS AND PERFORMANCE DATA (1)** in 2 2 1/2 3 4 5 6 8 10 12 14 16 20 SIZE mm 50 65 80 100 125 150 200 250 300 350 400 500 A DIMENSION (2) 8.625 7.562 8.75 11.25 12.25 14.00 17.125 22.00 25.25 29.00 31.875 36.49 FACE TO FACE 220 193 223 286 311 356 435 559 642 737 810 927 mm **B** DIMENSION (3) 4.88 5.12 4.63 7.00 7.88 8.00 11.38 14.12 20.25 30.00 36.66 38.44 CTR, LINE TO BOTTOM 124 130 118 178 200 204 289 359 515 762 931 976 mm 3.83 3.75 5.125 5.375 4.75 7.00 15.00 16.00 **C** DIMENSION 8.00 8.82 10.32 15.75 CTR. LINE TO TOP 97 96 131 137 121 178 203 224 262 381 406 400 3/4 2 2 1/2 3/4 1 1 1/4 1 1/2 1 1/2 2 2 **D** DIMENSION NPT BLOW-OFF 40 20 20 25 25 32 40 50 50 50 50 **E** DIMENSION in 10.875 10.875 11.25 15.50 15.50 18.25 23.375 27.50 35.00 45.00 55.00 65.00 SCREEN REMOVAL 286 394 394 464 594 699 889 1143 1397 1651 277 277 mm 27.0 30.0 40.0 64.0 84.0 142.0 244.0 416.0 732.0 992 1735 C/F **ASSEMBLED** WEIGHT (BS65) 12.2 13.6 18.1 29.0 38. I 64.4 110.6 188.5 332.0 450.0 787.0 C/F kg 42.0 C/F C/F 31.0 34.0 81.0 84.0 150.0 275.0 436.8 768.0 1246 **ASSEMBLED** WEIGHT (BS55) 19.0 C/F 14.0 15.4 36.7 38. I 68.0 197.8 348.4 565.2 C/F 124.7 Flow Coefficient 90 140 290 500 800 1600 2800 3700 5100 6800 10900

- 1. Dimensions, weights, and flow coefficients are provided for reference only. When required request certified drawings.
- 2. Face to face values have a tolerance of  $\pm 0.06$  in ( $\pm 2.0$  mm) for sizes 10" and lower and a tolerance of  $\pm 0.12$  in ( $\pm 3.0$  mm) for sizes 12" and larger.
- 3. Removable adjustable leg brackets are standard on sizes 8" through 20". Centerline to bottom dimension does not include removable legs, which can extend approximately three to five inches beyond the bottom boss drain.

#### Additional Design & Technical Notes:

- Inlet and outlet bosses are standard on sizes 8" through 14".
- Inlet and outlet 1/4" NPT gauge taps with plugs are standard on sizes 2" through 20".
- 1/4" cover vent taps with plugs are standard on all sizes.
- Straining element features a bow shaped handle that presses against the cover to help ensure the straining element remains securely seated during operation.
- Clamped cover design:
   Sizes 2" ~ 4" are designed with (1) Tee Bolt
   Size 6" is designed with (2) Tee Bolts
   Sizes 8" ~ 16" are designed with (4) Tee Bolts
   Size 20" is designed with (6) Tee Bolts



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220	SOLIRCE: A	SME B16.1-	1998						~ <b>12"</b> 26 Gr. B AS	ME Class I	25
200				_						<b>S 65 (Bolt</b> ME Class <b>I</b>	
180 -										S 55 (Clan IME Class I	
Pressure (PSI)											
Pressur 140											
120 -									`		
100 -	777777	(77777)		7777n.							
80					11/1/1822						
-50	0	50	100	<b>I</b> 50	200 Temperat	250 ure (°F)	300	350	400	450	500

PRESSURE - TEMPERATURE RATING							
ASME CLASS 125 BS 65-Cl (2 ~ 12") BS 55-Cl (2 ~ 12")							
WOG (Non-shock)	200 PSI @ 150 °F	200 PSI @ 100 °F					
ASME CLASS 125	BS 65-CI (14 ~ 20")	BS 55-CI (14 ~ 20")					
WOG (Non-shock)	150 PSI @ 150 °F	100 PSI @ 100 °F					

CODE	DESCRIPTION		
ASME B16.1	Cast Iron Pipe Flanges and Flanged Fittings		

**REFERENCED STANDARDS & CODES** 

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%	3/64 (.045) <sup>(I)</sup>	36%			

For 10" and above, consult factory on screen selections for steam.

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.