

SIMPLEX BASKET STRAINER * FLANGED ENDS (RF)

ASME CLASS 150 * CARBON AND STAINLESS STEEL

MODELS: BS 87F-CS

(CARBON STEEL)

BS 87F-SS

(STAINLESS STEEL)

All Sizes Equipped: Quick-Open Cover

Large Sizes in Stock Ready to Ship!

FEATURES

SIZES: I" ~ 16"

BETTER FLOW CHARACTERISTICS

WITH ITS DUAL ANNULUS DESIGN, THE BS87 SERIES PROVIDES A STRAIGHTER FLOW PATH. DURING FLOW SIMULATION TESTING, THE BS87F ACHIEVED A 10 PERCENT REDUCTION IN PRESSURE LOSS WHEN COMPARED TO "OVER-THE-TOP" STYLE BASKET STRAINERS.

FINER FILTRATIONS

THE BS87 SERIES IS DESIGNED WITH A MACHINED, FLAT SEAT FOR THE STRAINING ELEMENT. THIS ALLOWS AN O-RING TO BE INSTALLED UNDERNEATH THE LIP OF THE STRAINING ELE-MENT, CREATING A TIGHT SEAL. THIS FEATURE PREVENTS DEBRIS FROM SLIPPING PAST THE STRAINING ELEMENT LIP- AS IS OFTEN THE CASE WITH 'SLANT-TYPE' BASKET STRAINERS THAT CANNOT UTILIZE AN O-RING.

LARGE STRAINING CAPACITY

WITH ITS LARGE BODY AND SIZEABLE STRAINING ELEMENT, THE BS 87F 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, WEDGEWIRE, DRILLED PERFORATIONS, AND PLEATED STRAINING ELEMENTS.

HIGH QUALITY CONSTRUCTION

THE BS87 SERIES IS AVAILABLE IN CARBON AND STAINLESS STEEL WITH EITHER THREADED OR FLANGED (RF) END CONNECTIONS. 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. STAINLESS STEEL IS HIGHLY CORROSION RESISTANT, EXTREMELY STRONG, AND IS COMMONLY SPECIFIED FOR HIGH TEMPERATURE SERVICE, UP TO 1000 °F IN CONTINUOUS SERVICE.

TECHNICAL

PRESSURE/ TEMPERATURE RATING CS - ASTM A216 GR.WCB - CLASS 150

WOG (Non-shock): 285 PSI @ 100 °F

PRESSURE/ TEMPERATURE RATING SS - ASTM A351 GR. CF8M - CLASS 150

WOG (Non-shock): 275 PSI @ 100 °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 DERRIS FROM THE PIPELINE FLOW. BASKET STRAINERS ARE COMMONLY LISED IN HORIZONTAL PIPELINES WHERE DERRIS 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 \diamond PO Box 7408 \diamond Lumberton, NC 28358



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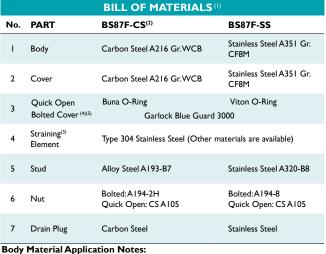
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SIMPLEX BASKET STRAINER

BS 87F-CS - (Carbon Steel) BS 87F-SS - (Stainless Steel)

Flanged Ends • Raised Face • Carbon & Stainless Steel

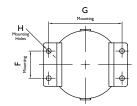
ASME Class 150



D Ε Basket Remova 2 Quick Open Cover Ċ STANDARD. Centerline to Top of Cover 0 BS87F with B **Bolted Cover** Centerline to

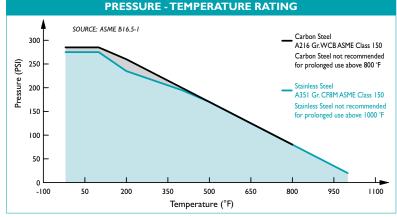
- 1. Equivalent or better materials may be substituted at the manufacturer's discretion.
- 2. Carbon Steel bodies are epoxy painted.
- 3. Denotes recommended spare parts.
- 4. Carbon Fiber Compressed gasket may be substituted at the manufacturer's discretion.
- 5. Quick-Open Cover is standard. Bolted Cover is optional.

DIMENSIONS AND PERFORMANCE DATA (1)													
Size	in	ı	I 1/2	2	2 1/2	3	4	6	8	10	12	14	16
Size	mm	25	40	50	65	80	100	150	200	250	300	350	400
A DIMENSION	in	7.62	10.50	10.50	13.13	13.13	17.25	19.63	27.00	32.00	33.75	47	47
FACETO FACE	mm	194	267	267	334	334	438	498	686	813	857	1194	1194
B DIMENSION	in	4.88	6.93	6.93	9.81	9.81	11.25	15.38	22.91	26.38	33.50	28.37	28.37
CTR. LINETO BOTTOM	mm	124	176	176	249	249	285	390	582	670	850	720	720
C DIMENSION	in	3.94	5.00	5.00	6.50	6.50	6.93	7.68	10.25	13.91	14.75	14.84	14.84
CTR. LINETO TOP	mm	100	128	128	164	164	176	195	260	353	374	377	377
D DIMENSION	in	3.81	5.25	5.25	6.56	6.56	8.62	9.81	13.50	16.00	16.87	23.5	23.5
CTR. LINE TO OUTLET	mm	97	97 133 133 166 166	219	249	343	406.5	428.5	597	597			
E DIMENSION	in	7.75	11.50	11.50	16.75	16.75	18.25	23.75	35.00	43.50	51.75	55.12	55.12
SCREEN REMOVAL	mm	197	293	293	426	426	463	601	885	1103	1315	1400	1400
F DIMENSION	in	n/a	n/a	n/a	n/a	n/a	n/a	3.94	4.72	6.44	6.44	9.50	9.50
MOUNTING	mm	n/a	n/a	n/a	n/a	n/a	n/a	100	120	164	164	240	240
G DIMENSION	in	n/a	n/a	n/a	n/a	n/a	n/a	10.63	14.56	19.68	19.68	22.5	22.5
MOUNTING	mm	n/a n/a n/a n/a n/a 270 33	370	500	500	571	571						
H DIMENSION	in	n/a	n/a	n/a	n/a	n/a	n/a	0.71	0.79	0.87	0.87	0.93	0.93
MOUNTING HOLES	mm	n/a	n/a	n/a	n/a	n/a	n/a	18	20	22	22	24	24
ASSEMBLED WEIGHT	lb	22.5	39.9	43	63.9	69.5	110.1	207	425.I	707	916.3	1763.7	1873.9
APPROXIMATE	kg	10.2	18.1	19.5	29	31.5	50	94	193	321	416	1150	1165
Flow Coefficient	C _v	24	50	78	140	210	360	780	1250	2400	3300	5100	6800



	NPT FITTING SCHEDULE:							
	SIZE	Gauge Taps	Bottom Drain	Side Drain	Cover Vent			
	1"	1/8"	1/2"	NA	1/8"			
	$1^{1}/2$ " ~ 2"	1/8"	3/4"	NA	1/8"			
	21/2" ~ 3"	1/8"	3/4"	1/2"	1/8"			
	4"	1/8"	Ι"	1/2"	1/8"			
	6"	1/4"	1"	1/2"	1/8"			
	8"	1/4"	Ι"	1/2"	1/8"			
	10"	1/4"	2"	J"(1)	1/8"			
	12"	1/4"	2"	J "(1)	1/8"			
	14"	1/4"	2"	J"(1)	1/8"			
	16"	1/4"	2"	J "(1)	1/8"			
ı	I. 10" and larger models have two side drains.							

- Dimensions, weights, and flow coefficients are provided for reference only. When required, always request certified drawings.
- 2. Face to face values have a tolerance of ± 0.06 in (± 2.0 mm) for sizes 10" and lower and a tolerance of ± 0.12 in (± 3.0 mm) for sizes 12" and larger.
- 3. Standard Vent and Gauge Plugs shall be Brass for Carbon Steel Units and Stainless Steel for Stainless Steel Units.



REFERENCED STANDARDS & CODES					
CODE DESCRIPTION					
ASME B16.5	Pipe Flanges and Flanged Fittings				
ASME B16.34	Valves - Flanged, Threaded, and Welding End.				
MSS SP-55 Quality Standard - Visual Inspection					

PRESSURE - TEMPERATURE RATING						
ASME CLASS 150	A216 Gr.WCB	A351 Gr. CF8M				
WOG (Non-shock)	285 PSI @ 100 °F	275 PSI @ 100 °F				

SCREEN SELECTION GUIDELINES						
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 Ln. (1)	44.8 %		

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

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.