

TAYFLOW SIMPLEX BASKET STRAINER * RF FLANGED & THREADED

ANSI CLASS 150/300 & CARBON AND STAINLESS STEEL

MODEL BCT1

(CARBON STEEL - THREADED - 150/300)

MODEL BST1

(STAINLESS STEEL - THREADED - 150/300)

 Quick-opening cover designs are available. Quick-opening, two bolt cover option is rated at 150 psi.

SIZE RANGE:

THREADED: 3/8" ~ 3"

FLANGED: I" ~ 8"



FEATURES

HIGH QUALITY CONSTRUCTION

THE SERIES BST1 BASKET STRAINER IS AVAILABLE IN CARBON OR STAINLESS STEEL WITH EITHER THREADED OR FLANGED (RF) END CONNECTIONS. IT FEATURES A MACHINED GROOVE THAT ENCAPSULATES THE COVER GASKET AND AIDS IN PREVENTING GASKET BLOW-OUTS.

MINIMAL PRESSURE LOSS

PRESSURE LOSS IS MINIMIZED BY PROVIDING AN OVER-THE-TOP FLOW PATH AND LARGE STRAINING AREA. THE STRAINING CAPACITY IS A MINIMUM OF SIX TIMES THAT OF THE CROSS SECTIONAL AREA OF THE CONNECTING PIPE.

LARGE STRAINING CAPACITY

WITH ITS LARGE BODY AND SIZEABLE STRAINING ELEMENT, THE SERIES BST BASKET STRAINER CAN STORE LARGE AMOUNTS OF DEBRIS - THUS MAXIMIZING TIME BETWEEN SERVICING. IT ALSO FEATURES A MACHINED SEAT WITH O-RING THAT ENABLES FINE FILTRATIONS - DOWN TO 40 MICRONS.

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 STAYFLOW 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 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

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

WOG (Non-shock): 740 PSI @ 100 °F

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

WOG (Non-shock): 720 PSI @ 100 °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.



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SIMPLEX BASKET STRAINER

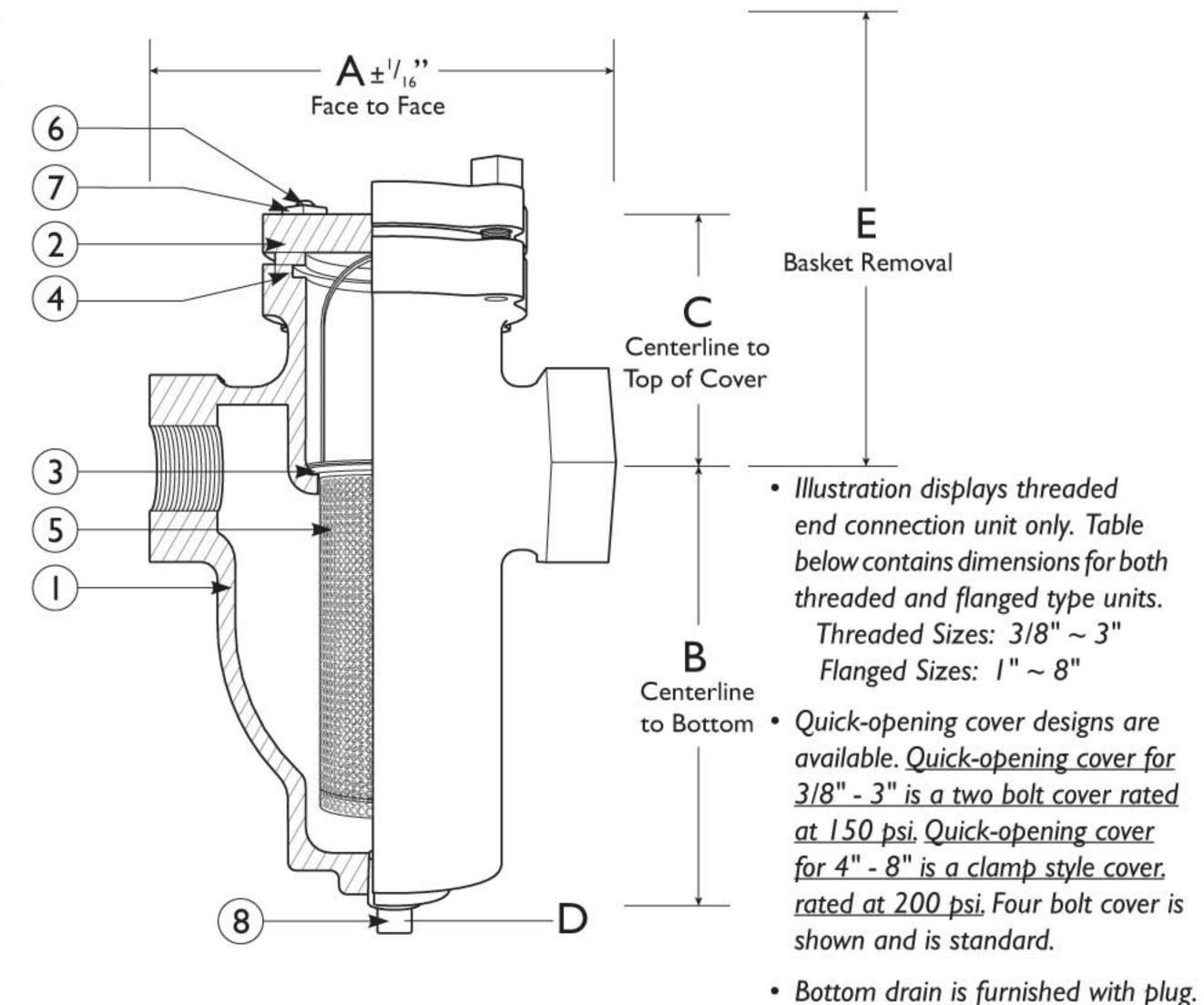
Threaded Ends (150/300 lb)

MODEL BCT1 (Carbon Steel)
MODEL BST1 (Stainless Steel)

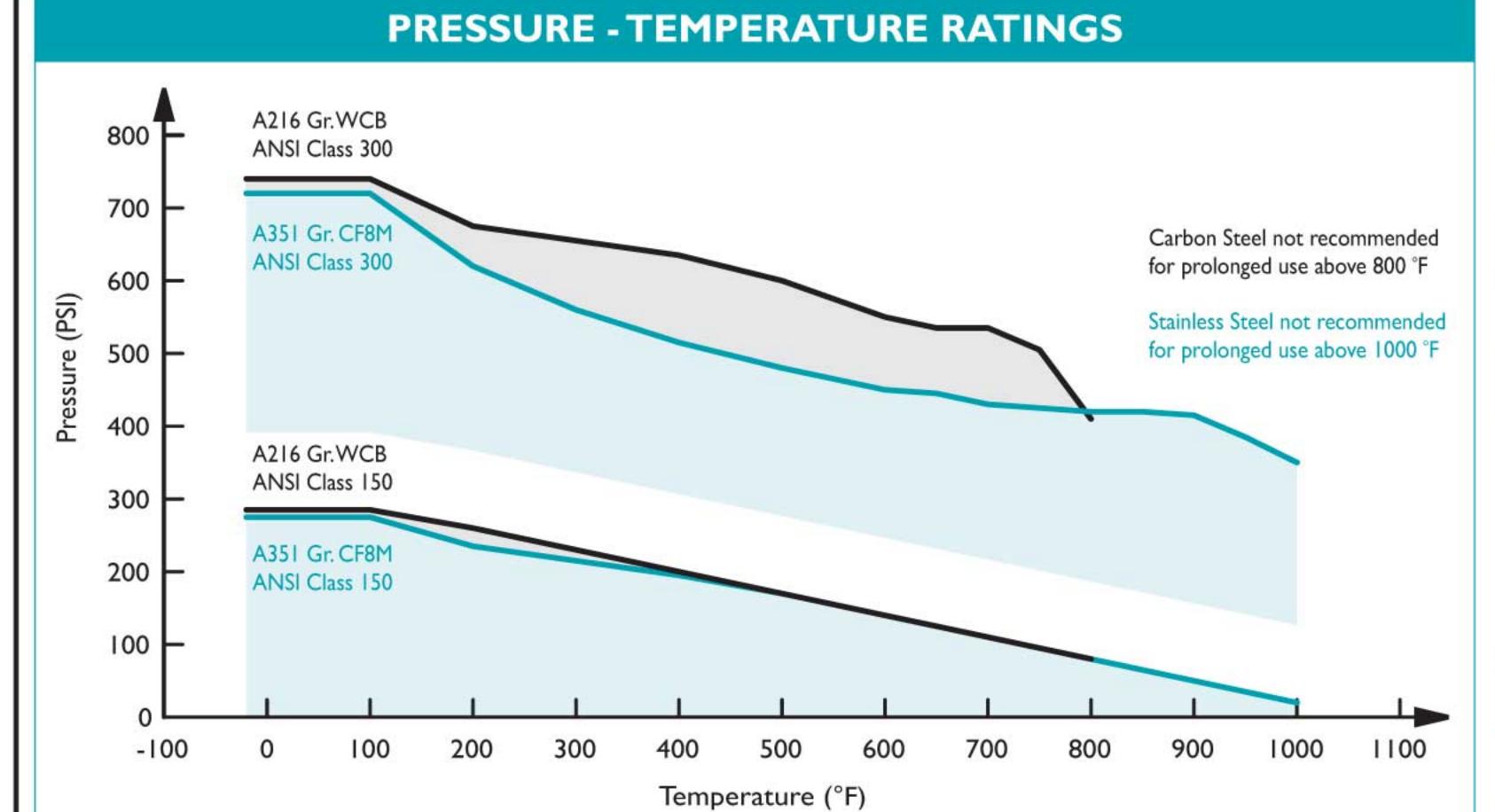
ANSI Class I 50/300 lb

BILL OF MATERIALS (1)							
No.	PART	BCT1 (2)	BST1				
1	Body	Carbon Steel A216 Gr. WCB	Stainless Steel A351 Gr. CF8M Type 316				
2	Cover	Carbon Steel A216 Gr. WCB	Stainless Steel A351 Gr. CF8M Type 316				
3	O-Ring (Basket) (3)	Buna-N	Viton				
4	Gasket (Cover) (3)(4)(6)	Spiral Wound Stainless Steel Non-Asbestos					
5	Straining Element (3)	Type 304 Stainless Stee	el (Other materials are available)				
6	Studs	Alloy Steel A I 93-B7	Stainless Steel 18-8 Series 300				
7	Nuts	Carbon Steel A 194-2H	Stainless Steel 18-8 Series 300				
8	Bottom Drain Plug	Carbon Steel	Stainless Steel				

- I. Equivalent or better materials may be substituted at the manufacturer's discretion.
- 2. Carbon Steel bodies are epoxy painted.
- 3. Denotes recommended spare parts.
- Gasket is for the 4 bolt cover option, which is standard. If quick open cover is specified, the O-ring material
 for the cover is Buna-N on BCT1 or Viton on BST1
- 5. Bolted cover is standard (3/8" 8"). Quick-open cover 3/8"- 3" is 2 bolt style. Quick-open cover 4"- 8" is clamp style.
- 6. Carbon Fiber Compressed gasket may be substituted at the manufacturer's discretion.



DIMENSIONS AND PERFORMANCE DATA (1) 2 1/2 in 3/8 1/2 8 3/4 1 1/4 1 1/2 6 Size 65 200 10 20 50 80 100 150 mm 4.562 4.562 5.312 6.312 6.312 8.25 11.25 11.25 4.562 n/a n/a n/a in A, DIMENSION FACE TO FACE (THREADED) 116 116 116 135 161 161 210 286 286 n/a n/a n/a mm 27.375 5.687 7.00 9.00 10.375 11.75 15.00 20.25 n/a n/a n/a n/a in A, DIMENSION FACE TO FACE (FLANGED) 515 696 145 178 229 299 381 n/a n/a n/a n/a 264 mm 8.75 4.00 4.00 4.687 6.50 6.50 7.875 11.375 4.00 n/a n/a n/a in B, DIMENSION CTR. LINE TO BOTTOM (THREADED) 102 102 102 120 201 223 289 n/a 166 166 n/a n/a mm 4.687 6.50 8.00 8.75 11.50 13.75 24.24 n/a n/a n/a 20.00 n/a in B, DIMENSION CTR. LINE TO BOTTOM (FLANGED) 616 120 223 293 350 508 166 204 n/a n/a n/a n/a mm 2.50 2.75 3.00 3.00 3.625 4.00 4.50 2.50 2.50 n/a n/a n/a C, DIMENSION CTR. LINE TO TOP (THREADED) 64 64 64 70 77 93 102 115 n/a n/a n/a mm 10.55 n/a n/a n/a 3.00 n/a 3.00 3.75 4.00 4.75 6.18 7.88 in C, DIMENSION CTR. LINE TO TOP (FLANGED) 268 121 157 201 96 102 n/a n/a n/a n/a mm 3/8 3/8 3/8 3/8 1/2 1/2 3/4 **D** DIMENSION NPT BLOW-OFF (BOTH) 10 10 10 15 25 50 50 10 15 50 mm 4.812 4.812 4.812 5.875 8.125 8.125 11.875 37.125 10.125 14.812 19.875 29.125 in **E** DIMENSION SCREEN REMOVAL (BOTH) 123 123 123 150 207 207 258 302 377 505 740 943 mm ASSEMBLED WEIGHT 6.0 5.5 8.0 16.0 25.5 49.0 51.0 6.0 16.0 n/a n/a n/a THREADED (APPROXIMATE) 2.7 2.7 2.5 3.6 7.3 7.3 11.6 n/a kg 22.2 23.1 n/a n/a 19.5 ASSEMBLED WEIGHT n/a n/a n/a 11.0 n/a 31.5 44.5 65.5 142.0 518.0 266.0 FLANGED (APPROXIMATE) n/a 5.0 8.8 14.3 20.2 29.7 64.4 120.5 234.7 kg n/a n/a n/a 14 14 14 23 42 42 70 90 290 1600 Flow Coefficient C_V 140 780



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

REFERENCED STANDARDS & CODES							
Code	Description Code		Description				
ASME/ANSI B16.5	Pipe Flanges and Flanged Fittings	ASME/ANSI B16.11	Forged Steel Fittings, Socket-Welding and Threaded				

A216 Gr.WCB (2)	A351 Gr. CF8M (2)	
285 PSI @ 100 °F	275 PSI @ 100 °F	
A216 Gr.WCB (2)	A351 Gr. CF8M (2)	
740 PSI @ 100 °F	720 PSI @ 100 °F	
	285 PSI @ 100 °F A216 Gr.WCB (2)	

Flanged Sizes:

1" ~ 8"

Threaded Sizes: 3/8" ~ 3"

- 1. Threaded units are dual rated ANSI Class I 50/300. Flanged units are rated at ANSI Class I 50.
- 2. Pressure and Temperature ratings are considerably lower for units installed with the optional quick-opening covers. Please consult factory for further information.

STANDARD STRAINING ELEMENTS							
Size	Liquid	Open Area	Steam	Open Area			
3/8" ~ 2"	1/16 (.0625)	41%	1/32 (.033)	28%			
2 1/2" ~ 4"	1/16 (.0625)	41%	3/64 (.045)	36%			
5" ~ 8"	1/8 (.125)	40%	3/64 (.045)	36%			