

SIMPLEX BASKET STRAINER * RF FLANGED & THREADED

ASME CLASS 150/300 * CARBON AND STAINLESS STEEL

TITAN FLOW CONTROL, INC.

MODELS: BS 35-CS

(CARBON STEEL - THREADED - 150/300)

BS 35F-CS

(CARBON STEEL - RF FLANGED - 150)

BS 35-SS

(STAINLESS STEEL - THREADED - 150/300)

BS 35F-SS

(STAINLESS STEEL - RF FLANGED - 150)

· 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 BS35 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.

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 BS35 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.

♦ SELE-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 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.

TITAN® FLOW CONTROL, INC.

YOUR PIPELINE TO THE FUTURE!

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SIMPLEX BASKET STRAINER

Threaded - 150/300 lb Raised Face Flanged Ends - 150 lb

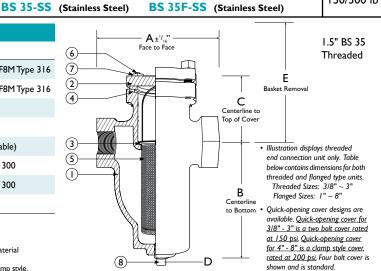
BS 35-CS (Carbon Steel) BS 35F-CS (Carbon Steel)

BS 35F-SS (Stainless Steel)

ASME Class 150/300 lb

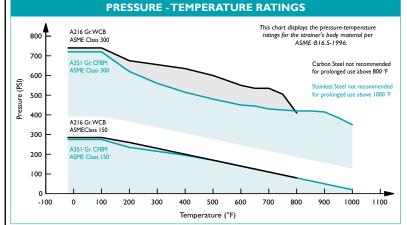
	BILL OF MATERIALS (1)							
No.	PART	BS 35-CS & BS 35F-CS (2)	BS 35-SS & BS 35F-SS					
1	Body	Carbon Steel A216 Gr. WCB	Stainless Steel A351 Gr. CF8M Type 316					
2	Cover	Carbon Steel A216 Gr. WCB	Stainless Steel A351 Gr. CF8M Type 316					
3	O-Ring (Basket) (3)	Buna-N	Viton					
4	Gasket (Cover) (3)(4)(6)	Spiral Wound Stainless Steel Non-Asbestos						
5	Straining Element (3)	Type 304 Stainless Steel (Other materials are available)						
6	Studs	Alloy Steel A I 93-B7	Stainless Steel 18-8 Series 300					
7	Nuts	Carbon Steel A194-2H	Stainless Steel 18-8 Series 300					
8	Bottom Drain Plug	Carbon Steel	Stainless Steel					

- Equivalent or better materials may be substituted at the manufacturer's discretion.
- Carbon Steel bodies are epoxy painted.
- 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 BS35-CS & BS35F-CS or Viton on BS35-SS & BS35F-SS.
- 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.
- Carbon Fiber Compressed gasket may be substituted at the manufacturer's discretion.



· Bottom drain is furnished with plug.

DIMENSIONS AND PERFORMANCE DATA (1)													
C.	in	3/8	1/2	3/4	ı	I 1/4	I 1/2	2	2 1/2	3	4	6	8
Size	mm	10	15	20	25	32	40	50	65	80	100	150	200
A, DIMENSION	in	4.562	4.562	4.562	5.312	6.312	6.312	8.25	11.25	11.25	n/a	n/a	n/a
FACE TO FACE (THREADED)	mm	116	116	116	135	161	161	210	286	286	n/a	n/a	n/a
A, DIMENSION	in	n/a	n/a	n/a	5.687	n/a	7.00	9.00	10.375	11.75	15.00	20.25	27.375
FACE TO FACE (FLANGED)	mm	n/a	n/a	n/a	145	n/a	178	229	264	299	381	515	696
B, DIMENSION	in	4.00	4.00	4.00	4.687	6.50	6.50	7.875	8.75	11.375	n/a	n/a	n/a
CTR. LINE TO BOTTOM (THREADED)	mm	102	102	102	120	166	166	201	223	289	n/a	n/a	n/a
B, DIMENSION	in	n/a	n/a	n/a	4.687	n/a	6.50	8.00	8.75	11.50	13.75	20.00	24.24
CTR. LINE TO BOTTOM (FLANGED)	mm	n/a	n/a	n/a	120	n/a	166	204	223	293	350	508	616
C, DIMENSION	in	2.50	2.50	2.50	2.75	3.00	3.00	3.625	4.00	4.50	n/a	n/a	n/a
CTR. LINE TO TOP (THREADED)	mm	64	64	64	70	77	77	93	102	115	n/a	n/a	n/a
C ₂ DIMENSION	in	n/a	n/a	n/a	3.00	n/a	3.00	3.75	4.00	4.75	6.18	7.88	10.55
CTR. LINE TO TOP (FLANGED)	mm	n/a	n/a	n/a	77	n/a	77	96	102	121	157	201	268
D DIMENSION	in	3/8	3/8	3/8	3/8	1/2	1/2	3/4	I	I	2	2	2
NPT DRAIN (BOTH)	mm	10	10	10	10	15	15	20	25	25	50	50	50
E DIMENSION	in	4.812	4.812	4.812	5.875	8.125	8.125	10.125	11.875	14.812	19.875	29.125	37.125
SCREEN REMOVAL (BOTH)	mm	123	123	123	150	207	207	258	302	377	505	740	943
ASSEMBLED WEIGHT	lb	6.0	6.0	5.5	8.0	16.0	16.0	25.5	49.0	51.0	n/a	n/a	n/a
THREADED (APPROXIMATE)	kg	2.7	2.7	2.5	3.6	7.3	7.3	11.6	22.2	23.1	n/a	n/a	n/a
ASSEMBLED WEIGHT	lb	n/a	n/a	n/a	11.0	n/a	19.5	31.5	44.5	76.0	142.0	266.0	518.0
FLANGED (APPROXIMATE)	kg	n/a	n/a	n/a	5.0	n/a	8.8	14.3	20.2	34.4	64.4	120.5	234.7
Flow Coefficient	Cv	14	14	14	23	42	42	70	90	140	290	780	1600
I. Dimensions, weights, and flow coefficients are provided for reference only. When required, always request certified drawings. • Threaded Sizes: 3/8" ~ 3" • Flanged Sizes: 1" ~ 8"							est certified d	rawings.	 Threaded Sizes 	: 3/8" ~ 3"	• Flanged Siz	res: I" ~ 8"	



Tillicuded Sizes. 570 - 5	J Hunged Sizes. 1	0					
PRESSURE - TEMPERATURE RATING (1)							
5 150 A216 Gr.	WCB (2) A35	61 Gr. CF8M (2)					
<) 285 PSI @	② 100 °F 275	5 PSI @ 100 °F					
300 A216 Gr.	WCB (2) A35	I Gr. CF8M (2)					
<) 740 PSI @	D 100 °F 720) PSI @ 100 °F					
×	RESSURE - TEMPI 150 A216 Gr. 285 PSI @ 300 A216 Gr.	RESSURE - TEMPERATURE RATIN 150 A216 Gr.WCB (2) A35 (2) 285 PSI @ 100 °F 275 300 A216 Gr.WCB (2) A35					

Threaded units are dual rated ASME Class I 50/300. Flanged units are rated at ASME Class I 50.
 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%		

REFERENCED STANDARDS & CODES

Code	Description	Code	Description
ASME B16.5	Pipe Flanges and Flanged Fittings	ASME B16.11	Forged Steel Fittings, Socket-Welding and Threaded

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.