

COMING SOON

BS61F-0418

# SIMPLEX BASKET STRAINER ♦ FLANGED ENDS (RF) ASME CLASS 150 ♦ CARBON AND STAINLESS STEEL

**MODELS: BS 61F-CS**  
(CARBON STEEL)

**BS 61F-SS**  
(STAINLESS STEEL)

Less Turbulence  
**AND**  
Finer Filtration!

With **QUICK**  
**COVER** Option-  
**NO TOOLS!**



## FEATURES

SIZES: 1" ~ 12"

- ◇ **BETTER FLOW CHARACTERISTICS**  
WITH ITS DUAL ANNULUS DESIGN, THE BS61 SERIES PROVIDES A STRAIGHTER FLOW PATH. DURING FLOW SIMULATION TESTING, THE BS61F ACHIEVED A 10 PERCENT REDUCTION IN PRESSURE LOSS WHEN COMPARED TO "OVER-THE-TOP" STYLE BASKET STRAINERS.
- ◇ **FINER FILTRATIONS**  
THE BS61 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 ELEMENT, 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 61F 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 BS61 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.

## APPLICATIONS

**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**

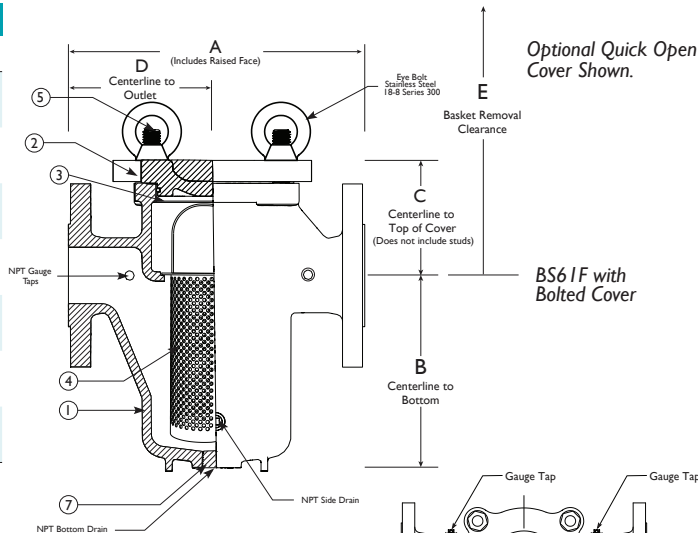
**BS 61F-CS - (Carbon Steel)**  
**BS 61F-SS - (Stainless Steel)**

**Flanged Ends • Raised Face • Carbon & Stainless Steel**

**ASME Class 150**

**BILL OF MATERIALS (1)**

No.	PART	BS61F-CS(2)	BS61F-SS
1	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)	Standard: Garlock Blue Guard 3000 Quick Open: Buna O-Ring	Quick Open: Viton O-Ring
4	Straining (3) Element	Type 304 Stainless Steel (Other materials are available)	
5	Stud	Alloy Steel A193-B7	Stainless Steel A320-B8
6	Nut	Standard: A194-2H Quick Open: CSA105	Standard: A194-8 Quick Open: CSA105
7	Drain Plug	Carbon Steel	Stainless Steel



**Body Material Application Notes:**

- Equivalent or better materials may be substituted at the manufacturer's discretion.
- Carbon Steel bodies are epoxy painted.
- Denotes recommended spare parts.
- Carbon Fiber Compressed gasket may be substituted at the manufacturer's discretion.

**DIMENSIONS AND PERFORMANCE DATA (1)**

Size	in	1	1 1/2	2	2 1/2	3	4	6	8	10	12
<b>A DIMENSION</b> FACET TO FACE	in	7.62	10.50	10.50	13.13	13.13	17.25	19.63	27.00	32.00	33.75
	mm	194	267	267	334	334	438	498	686	813	857
<b>B DIMENSION</b> CTR. LINE TO BOTTOM	in	4.88	6.93	6.93	9.81	9.81	11.25	15.38	22.91	26.38	33.50
	mm	124	176	176	249	249	285	390	582	670	850
<b>C DIMENSION</b> CTR. LINE TO TOP	in	3.94	5.00	5.00	6.50	6.50	6.93	7.368	10.25	13.91	14.75
	mm	100	128	128	164	164	176	195	260	353	374
<b>D DIMENSION</b> CTR. LINE TO OUTLET	in	3.81	5.25	5.25	6.56	6.56	8.62	9.81	13.50	16.00	16.87
	mm	97	133	133	166	166	219	249	343	406.5	428.5
<b>E DIMENSION</b> SCREEN REMOVAL	in	7.75	11.50	11.50	16.75	16.75	18.25	23.75	35.00	43.50	51.75
	mm	197	293	293	426	426	463	601	885	1103	1315
<b>F DIMENSION</b> MOUNTING	in	n/a	n/a	n/a	n/a	n/a	n/a	3.94	4.72	6.44	6.44
	mm	n/a	n/a	n/a	n/a	n/a	n/a	100	120	164	164
<b>G DIMENSION</b> MOUNTING	in	n/a	n/a	n/a	n/a	n/a	n/a	10.63	14.56	19.68	19.68
	mm	n/a	n/a	n/a	n/a	n/a	n/a	270	370	500	500
<b>H DIMENSION</b> MOUNTING HOLES	in	n/a	n/a	n/a	n/a	n/a	n/a	0.71	0.79	0.87	0.87
	mm	n/a	n/a	n/a	n/a	n/a	n/a	18	20	22	22
<b>ASSEMBLED WEIGHT</b> APPROXIMATE	lb	22.5	39.9	43	63.9	69.5	110.1	207	425.1	707	916.3
	kg	10.2	18.1	19.5	29	31.5	50	94	193	321	416
<b>Flow Coefficient</b>	C <sub>v</sub>	24	50	78	140	210	360	780	1250	2400	3300

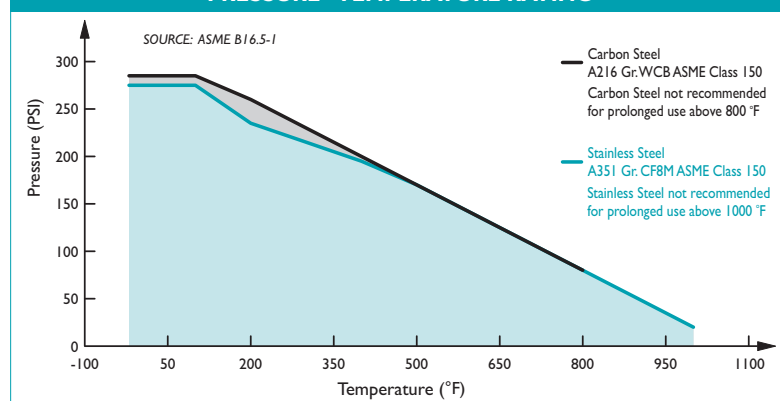
- Dimensions, weights, and flow coefficients are provided for reference only. When required, always request certified drawings.
- Face to face values have a tolerance of ±0.06 in (±2.0 mm) for sizes 10" and lower and a tolerance of ±0.12 in (±3.0 mm) for sizes 12" and larger.
- Standard Vent and Gauge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

**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"
2 1/2" ~ 3"	1/8"	3/4"	1/2"	1/8"
4"	1/8"	1"	1/2"	1/8"
6"	1/4"	1"	1/2"	1/8"
8"	1/4"	1"	1/2"	1/8"
10"	1/4"	2"	1" (1)	1/4"
12"	1/4"	2"	1" (1)	1/4"

1. 10" and 12" models have two, 1" side drains.

**PRESSURE - TEMPERATURE RATING**



**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

**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 Ln. (1)	44.8%

1. 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.