

SIMPLEX BASKET STRAINER * RF FLANGED & THREADED

ANSI 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"

TECHNICAL

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.

FEATURES

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.

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!

Tel: 910-735-0000 \diamond Fax: 910-738-3848 \diamond titan@titanfci.com \diamond www.titanfci.com 290 Corporate Drive \diamond PO Box 7408 \diamond Lumberton, NC 28358



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SIMPLEX BASKET STRAINER

Threaded Ends (150/300 lb) Raised Face Flanged Ends (150 lb)

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

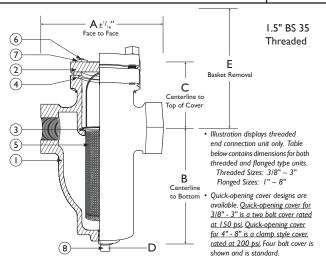
BS 35-SS (Stainless Steel) BS 35F-SS (Stainless Steel)

ANSI 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 Sta | tinless 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 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.

 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.
- Carbon Fiber Compressed gasket may be substituted at the manufacturer's discretion.

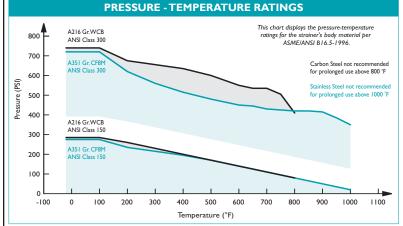


· Bottom drain is furnished with plug.

| | | | | DII | 1ENSIONS | AND PERF | ORMANCI | E DATA (1) | | | | | |
|--------------------------------|----|-------|-------|-------|-----------------|-----------------|---------|------------|--------|--------|--------|--------|-------|
| Size | in | 3/8 | 1/2 | 3/4 | - 1 | 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/ |
| FACE TO FACE (THREADED) | mm | 116 | 116 | 116 | 135 | 161 | 161 | 210 | 286 | 286 | n/a | n/a | n/ |
| 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 | 27.37 |
| FACE TO FACE (FLANGED) | mm | n/a | n/a | n/a | 145 | n/a | 178 | 229 | 264 | 299 | 381 | 515 | 69 |
| 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/ |
| CTR. LINE TO BOTTOM (THREADED) | mm | 102 | 102 | 102 | 120 | 166 | 166 | 201 | 223 | 289 | n/a | n/a | n/ |
| 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 | 24.2 |
| CTR. LINE TO BOTTOM (FLANGED) | mm | n/a | n/a | n/a | 120 | n/a | 166 | 204 | 223 | 293 | 350 | 508 | 61 |
| 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/ |
| CTR. LINE TO TOP (THREADED) | mm | 64 | 64 | 64 | 70 | 77 | 77 | 93 | 102 | 115 | n/a | n/a | n/ |
| C, DIMENSION | in | n/a | n/a | n/a | 3.00 | n/a | 3.00 | 3.75 | 4.00 | 4.75 | 6.18 | 7.88 | 10.5 |
| CTR. LINE TO TOP (FLANGED) | mm | n/a | n/a | n/a | 77 | n/a | 77 | 96 | 102 | 121 | 157 | 201 | 26 |
| D DIMENSION | in | 3/8 | 3/8 | 3/8 | 3/8 | 1/2 | 1/2 | 3/4 | I | I | 2 | 2 | |
| NPT BLOW-OFF (BOTH) | mm | 10 | 10 | 10 | 10 | 15 | 15 | 20 | 25 | 25 | 50 | 50 | 5 |
| 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 | 37.12 |
| SCREEN REMOVAL (BOTH) | mm | 123 | 123 | 123 | 150 | 207 | 207 | 258 | 302 | 377 | 505 | 740 | 94 |
| 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/ |
| 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/ |
| ASSEMBLED WEIGHT | lb | n/a | n/a | n/a | 11.0 | n/a | 19.5 | 31.5 | 44.5 | 65.5 | 142.0 | 266.0 | 518. |
| FLANGED (APPROXIMATE) | kg | n/a | n/a | n/a | 5.0 | n/a | 8.8 | 14.3 | 20.2 | 29.7 | 64.4 | 120.5 | 234. |
| Flow Coefficient | Cv | 14 | 14 | 14 | 23 | 42 | 42 | 70 | 90 | 140 | 290 | 780 | 160 |

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

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|----------------|-----------|----------------|---------|--|
| Threaded Sizes | 3/8" ~ 3" | Flanged Sizes: | 1" ~ 8" | |



| 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 | | | |

| PRESSURE - TEMPERATURE RATING (1) | | | | | | |
|-----------------------------------|------------------|-------------------|--|--|--|--|
| ANSI CLASS 150 | A216 Gr.WCB (2) | A351 Gr. CF8M (2) | | | | |
| WOG (Non-shock) | 285 PSI @ 100 °F | 275 PSI @ 100 °F | | | | |
| ANSI CLASS 300 | A216 Gr.WCB (2) | A351 Gr. CF8M (2) | | | | |
| WOG (Non-shock) | 740 PSI @ 100 °F | 720 PSI @ 100 °F | | | | |

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

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