TITAN FLOW CONTROL, INC.

SIMPLEX BASKET STRAINER ❖ FLANGED ENDS (FF)

ASME CLASS 150 ❖ ALUMINUM BRONZE ❖ LEAD FREE*

Meets LEAD-FREE[1] requirements!



MODEL: BS 95-AB

(ALUMINUM BRONZE)
SIZES: 2" ~ 12"

FEATURES

◇ **ASTM B148 BODY MATERIAL**
ALUMINUM BRONZE IS STRONGER AND LESS LIKELY TO CORRODE THAN OTHER BRONZE ALLOYS, MAKING IT A PREFERRED CHOICE FOR SEA WATER AND OTHER APPLICATIONS WHERE CORROSION IS A CONCERN. BECAUSE OF ITS COPPER CONTENT, MARINE ORGANISMS CANNOT COLONIZE ON THE MATERIAL. ADDITIONALLY, TITAN'S BS95-AB IS USED FOR POTABLE WATER APPLICATIONS AS IT MEETS LEAD FREE STATUTES REQUIRING THAT THE LEAD CONTENT IN THE WETTED SURFACES IS 0.25% OR LESS AS DETERMINED BY A WEIGHTED AVERAGE.

◇ **HIGH QUALITY DESIGN**
THE BS95 BASKET STRAINER BOASTS MANY UNIQUE DESIGN FEATURES INCLUDING: INLET/OUTLET BOSSES WITH GAUGE TAPS (6" AND UP), SPOT-FACED FLANGE BOLT HOLES, PLUGGED BOTTOM DRAIN AND COVER VENT, CAST-IN SUPPORT LEGS (6" AND UP), ENCAPSULATED COVER GASKET, AND AN OPTIONAL QUICK-OPENING COVER DESIGN.

◇ **MINIMAL PRESSURE LOSS**
PRESSURE LOSS IS MINIMIZED BY PROVIDING A SLANTED STRAINING ELEMENT DESIGN (SIZES 2½" AND UP) AND STRAIGHT FLOW PATH. PLUGGED, NPT TAPS ARE PROVIDED (NEAR THE INLET AND OUTLET ON BOTH SIDES OF SIZES 6" AND UP) ALLOWING FOR THE QUICK MOUNTING OF PRESSURE GAUGES TO MONITOR PRESSURE LOSS.

◇ **LARGE STRAINING CAPACITY**
WITH ITS LARGE BODY AND SIZEABLE STRAINING ELEMENT, THE BS 95-AB 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, WEDGE WIRE, DRILLED PERFORATIONS, AND PLEATED STRAINING ELEMENTS. THE STANDARD MATERIAL FOR STRAINING ELEMENTS IS TYPE 304 STAINLESS STEEL.

TECHNICAL

PRESSURE/ TEMPERATURE RATING [2] AB - ASTM B148 - CLASS 150
WOG (Non-shock): 225 PSI @ 150 °F

1. The BS 95-AB meets requirements for lead free use in potable water systems. The lead content in the wetted surfaces is 0.25% or less as determined by a weighted average. For more information on lead free requirements, contact Titan Flow Control.
2. The above listed temperatures are theoretical and may vary during actual operating conditions. These ratings are based on ASME B16.24 for ASTM B62. The body material of the BS 95 is Aluminum Bronze B148 which may slightly exceed these ratings.

APPLICATIONS

MARKETS: POTABLE WATER, WATER & WASTEWATER, PULP & PAPER, CHEMICAL & PETROCHEMICAL, PETROLEUM, OIL & GAS, TRANSPORTATION, GOVERNMENT, MARINE INDUSTRY (SEAWATER), 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 ◇ Fax: 910-738-3848 ◇ titan@titanfci.com ◇ www.titanfci.com
290 Corporate Drive ◇ PO Box 7408 ◇ Lumberton, NC 28358

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SIMPLEX BASKET STRAINER

BS 95-AB - (Aluminum Bronze)

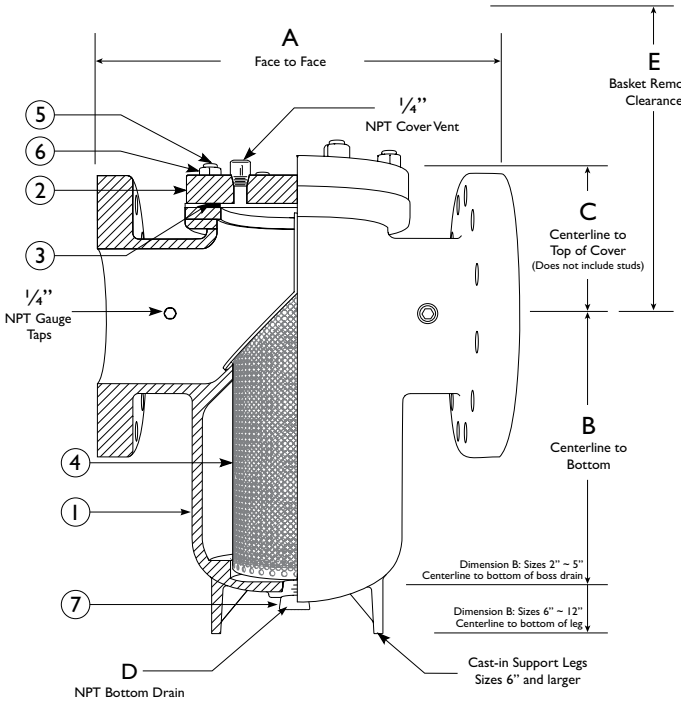
Flanged Ends • Flat Face • Aluminum Bronze

ASME Class 150

BILL OF MATERIALS (1)

No.	PART	BS 95-AB
1	Body	Aluminum Bronze ASTM B148
2	Cover (3)	Aluminum Bronze ASTM B148
3	Cover Gasket (2) (3) (6)	PTFE
4	Straining Element (2)	Type 304 Stainless Steel (Other materials are available)
5	Hex Bolt (4)	Stainless Steel
6	Plug	Stainless Steel (5)

1. Equivalent or better materials may be substituted at the manufacturer's discretion.
2. Denotes recommended spare parts.
3. Bolted cover is shown. For information on clamp cover, please contact factory.
4. 302 stainless steel bolts are available.
5. NPT Plug also available in other materials.
6. Carbon Fiber Compressed gasket may be substituted at the manufacturer's discretion.



Bolted cover is shown. Full rated, quick-opening, clamp cover is also available.

Illustration is representative of sizes 6" through 12". Please ask for certified drawings when required.

Body Material Application Notes:

- Aluminum Bronze (ASTM B148) is a preferred material for lead-free basket strainers, meeting requirements for potable water systems by containing 0.25% lead or less by average weight on all wetted parts of the strainers.
- Aluminum Bronze is strong and corrosion resistant, meeting the needs of many various applications, such as seawater and marine.

Additional Design & Technical Notes:

- Cover vent, provided on all sizes, is 1/4" NPT is furnished with plug.
- Bottom drain is furnished with plug. See table to the right for sizes.
- Plugged 1/4" NPT gauge taps (inlet and outlet) are provided on sizes 6" and larger.
- Cast-in support legs are provided on sizes 6" and larger.
- Slanted screen is provided on sizes 2 1/2" and up; 2" sizes have straight screen.
- Optional cover designs, steam jacketed designs and epoxy coatings are available.
- Standard material for straining elements is Type 304 Stainless Steel. Other materials are available upon request.
- Designed for horizontal pipelines only.

DIMENSIONS AND PERFORMANCE DATA (1)

SIZE		2	2 1/2	3	4	5	6	8	10	12	14
	mm	50	65	80	100	125	150	200	250	300	350
A DIMENSION FACE TO FACE (2)	in	8.50	8.75	8.75	11.187	13.00	13.875	17.375	22.00	26.25	30.25
	mm	216	222	222	285	330	353	442	559	667	768
B DIMENSION CTR. LINE TO BOTTOM	in	5.875	4.80	5.25	7.875	8.50	11.58	15.0	18.11	22.83	25.75
	mm	150	122	134	201	216	294	382	460	580	654
C DIMENSION CTR. LINE TO TOP	in	5.00	5.54	5.50	5.50	5.50	6.125	8.5	11.10	13.66	13.92
	mm	127	141	140	140	140	156	215	282	347	354
D DIMENSION NPT DRAIN	in	.50	.75	.75	1.00	1.00	1.25	1.50	1.50	2.00	2.00
	mm	15	20	20	25	25	32	40	40	50	50
E DIMENSION SCREEN REMOVAL	in	11.00	9.96	11.625	15.312	15.98	18.875	25.0	31.80	42.22	43.5
	mm	280	253	295	390	406	480	635	808	1072.37	1105
ASSEMBLED WEIGHT APPROXIMATE	lb	24.0	27.0	38.0	64.0	89.0	128.0	227.0	362.0	487.0	800
	kg	10.9	12.2	17.2	29.0	40.4	58.0	102.9	164.0	220.7	363
Flow Coefficient	C_V	45	90	140	290	500	800	1600	2800	3700	5100

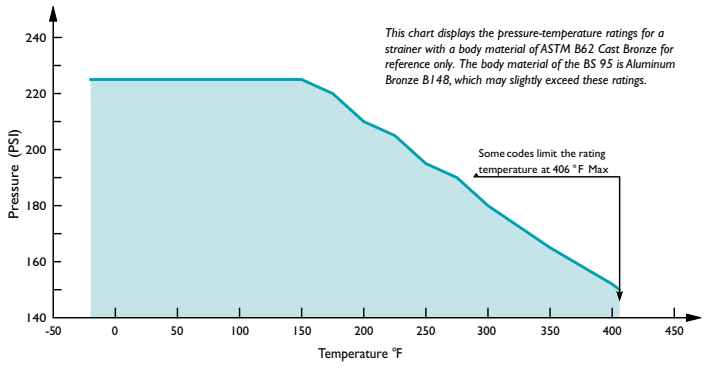
1. Dimensions, weights, and flow coefficients are provided for reference only. When required, always request certified drawings.
2. Face to face values have a tolerance of ±0.06 in (±2.0 mm) for sizes 10" and lower and a tolerance of ±0.12 in (±3.0 mm) for sizes 12" and larger.

PRESSURE - TEMPERATURE RATING (1)

ASME CLASS 150	AB - B148
WOG (Non-shock)	225 PSI @ 150 °F

1. Pressure - Temperature Ratings are provided for a general reference. They are based on ASME B16.24 for ASTM B62. The body material of the BS 95 is Aluminum Bronze B148 which may slightly exceed these ratings.

PRESSURE - TEMPERATURE RATING



REFERENCED STANDARDS & CODES

CODE	DESCRIPTION
ASME B16.24	Cast Copper Alloy Pipe Flanges and Flanged Fittings

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(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.