



150B2 SERIES CAST CARBON STEEL, STAINLESS STEEL FLANGED BASKET STRAINERS

PRESSURES TO 285 PSIG (19.7 BARG)

TEMPERATURES TO 800°F (427°C)

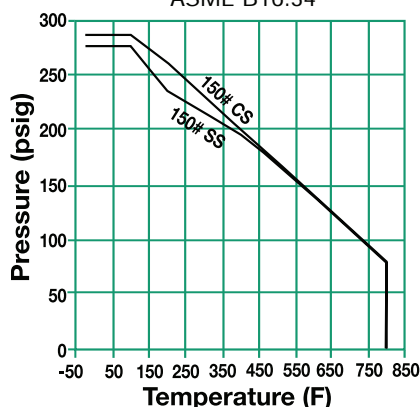
- **SSI Exclusive - Cover flange is in dimensional accordance with ASME B16.5**
- **Over the top flow and machined basket seat eliminate any chance of dirty fluid bypass**
- **Large screen area minimizes pressure drop and cleaning intervals**
- **RF flanges in accordance with ASME B16.5**
- **Stainless steel perforated baskets are standard**
- **Recommended minimum straining level is 40 microns**
- **NPT drain connection furnished with plug as standard**

APPLICATIONS

- Water, Oil Systems
- Other Liquid Systems
- Protection of Pumps, Meters, Valves and Similar Equipment

PRESSURE/TEMPERATURE CHART

ASME B16.34



For Quick Opening Covers Ratings See page 467

MODELS

- 150B2F - Over the top flow

OPTIONS

- Other screen perforations and mesh liners
- Quick Opening Covers - See page 467

APPLICABLE CODES

- ASME B16.5, B16.34

Canadian Registration OE 1972.23-150B2F

150B2 Series Ordering Code

150BZ Series Ordering Code

Inlet Size				Dash	Model						Body Material	Dash	Perf	Mesh	Add'l Requirements
0	4	0	0	-	1	5	0	B	2	F	C	-	4	—	—
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Inlet Size -

Position 1 - 4
0150 - 1½"
0200 - 2"
0300 - 3"
0400 - 4"
0600 - 6"
0800 - 8"

Dash - Position 5

Model - Position 6 - 11

150B2F - Straight Flow

Body Material - Position 12

C - Carbon Steel
T - Stainless Steel

Dash - Position 13

Perf¹ - Position 14

304 SS Material²

B - 3/64"
4 - 1/8"
A - None
1 - 1/32"
2 - 1/16"
3 - 3/32"
5 - 5/32"
6 - 3/16"
7 - 7/32"
8 - 1/4"
9 - 3/8"
Z - Other

Mesh² - Position 15

Leave Blank
If not Required
(Std. all)

1 - 10
2 - 20
3 - 30
4 - 40
5 - 50
6 - 60
7 - 80
8 - 100
9 - 120
Z - Other

Add'l Requirements -

Position 16

Leave Blank
If not Required

D - Special Drain Size
E1 - 1/4" Vent
E2 - 3/8" Vent
E3 - 1/2" Vent
F - Silicon Free
G - Special Gaskets
N - Nace MR01-75
T - Special Testing
V1 - Clamp Cover
X - Oxygen Cleaning
Y - Other and / or
Multiple Specials

Indicate Specials
Clearly On the Order

1. Standard screens All 1½" — 1/32" perf, All 2"-3" — 3/64" perf, All 4"-8" — 1/8" perf.

2. For other screen material, contact factory.

For any variations, use the part numbering system above but clearly indicate the additional requirement.

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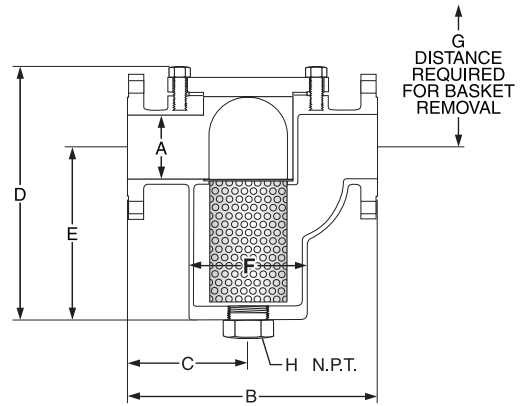
SPECIFICATION

Basket Strainer shall have over the top flow with a machined basket seat. The Basket Strainer shall be cast steel or stainless steel with 150 PSIG ANSI rated RF flanges. The cover flange dimensions shall be in dimensional accordance with ASME B16.5. The screen shall be size ____ perforated stainless steel. The Strainer shall have an inlet size of ____ and open area ratio of _____. The Basket Strainer shall be SSI 150B2 Series.

MATERIALS OF CONSTRUCTION

Item	Carbon Steel	Stainless Steel
Body	A216-WCB	A351-CF8M
Cover	A216-WCB	A351-CF8M
Screen ¹	304 SS	304 SS
Plug ²	A105	304 SS
Gasket ¹	304 SS Spiral Wound ³	304 SS Spiral Wound ³
Bolt/Stud ²	A193-B7	A320-B8
Nut ²	A194-2H	A194-8

1. Recommended Spare Parts
2. Materials of equivalent strength may be substituted.
3. Gasket for bolted cover. *For Quick Opening Covers, see page 467*



Connections: 1½" - 8" RF Flanged

SCREEN OPENINGS

SIZE	STANDARD SCREEN	MATERIALS
1½"	1/32 Perf.	304 SS
2" - 3"	3/64 Perf.	304 SS
4" - 8"	1/8 Perf.	304 SS

DIMENSIONS inches (mm) AND WEIGHTS pounds (kg)

SIZE	A	B	C	D*	E	F	G	H NPT	WEIGHT	
									Cover	Unit
1½ (40)	1½ (38)	9½ (241)	4¾ (121)	10¼ (260)	6⅞ (175)	3⅞ (87)	13½ (343)	½ (15)	5 (2.3)	30 (13.6)
2 (50)	2 (51)	10½ (267)	5¼ (133)	11⅜ (300)	8⅞ (208)	4⅞ (105)	15⅞ (397)	¾ (20)	7 (3.2)	46 (20.9)
3 (80)	3 (76)	13⅞ (333)	6⅞ (167)	15⅞ (395)	11⅜ (284)	5⅞ (137)	19¾ (502)	1 (25)	17 (7.7)	78 (35.5)
4 (100)	4 (102)	17¼ (438)	8⅞ (225)	16⅞ (410)	11⅞ (291)	6⅞ (170)	20¾ (527)	2 (50)	20 (9.1)	114 (51.8)
6 (150)	6 (152)	19⅞ (498)	10⅞ (276)	25⅞ (649)	19⅞ (491)	10 (254)	31⅞ (791)	2 (50)	45 (20.5)	241 (109.5)
8 (200)	8 (203)	27 (686)	14⅞ (371)	35⅞ (900)	27⅞ (710)	12⅞ (313)	42¼ (1073)	2 (50)	70 (31.8)	432 (196.4)

*For models with Quick Opening Cover, consult factory. Allow clearance for bottom drain bolt removal.

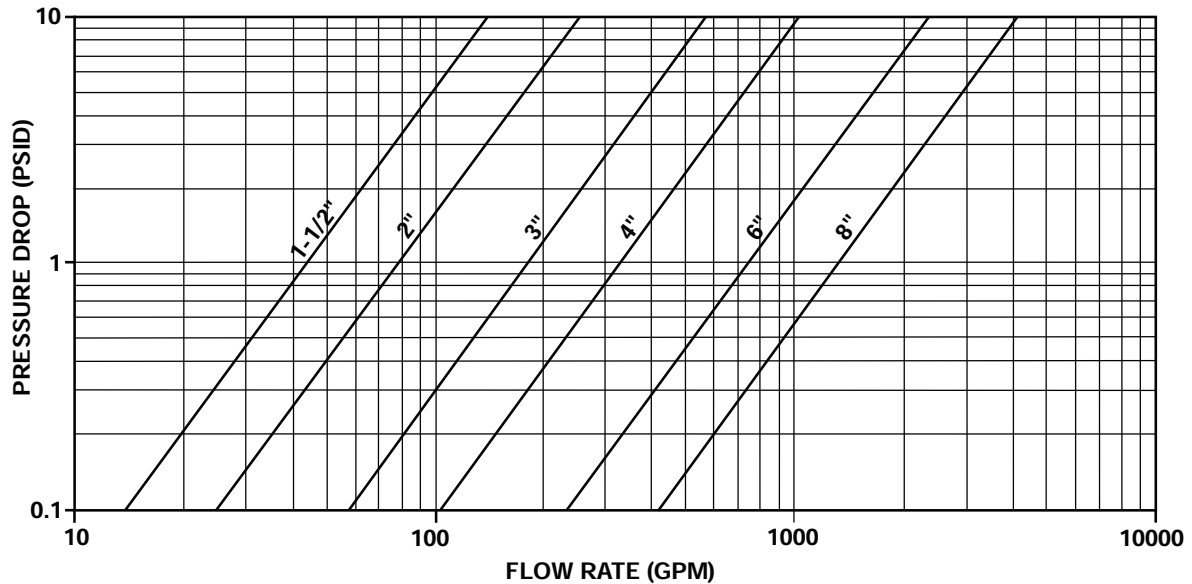
Dimensions shown are subject to change. Consult factory for certified drawings.

150B2 SERIES

CAST CARBON STEEL, STAINLESS STEEL

PRESSURE DROP VS FLOW RATE

Water Service, Clean Basket, 1/32" - 1/4" Perforated Screen*
(Sizes 1½" - 8")



* For Gas, Steam or Air service, consult factory.

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OPEN AREA RATIOS

with Standard Perforated Screen

Size	Opening diameter (in)	Opening %	Nominal Inlet Area (in²)	Gross Screen Area (in²)	Free Screen Area (in²)	Open Area Ratio (OAR)
1½	1/32	28	1.77	29.1	8.2	4.6
2	3/64	36	3.13	42.8	15.4	4.9
3	3/64	36	7.07	101.0	36.4	5.1
4	1/8	40	12.57	118.1	47.2	3.8
6	1/8	40	28.27	365.7	146.3	5.2
8	1/8	40	50.27	675.4	270.1	5.4

OAR = Free Screen Area / Nominal Inlet Area

Free Screen Area = Opening % x Gross Screen Area

Values shown are approximate. Consult factory for exact ratios.

Other Screen Openings
Page 466

Basket Burst Pressure
Page 472

Correction Factors for Other
Viscous Liquids and/or Mesh Liners
Page 471

Correction Factors
for Clogged Screens
Page 471