



# 150B1 SERIES CAST BRONZE, CARBON STEEL, STAINLESS STEEL FLANGED BASKET STRAINERS

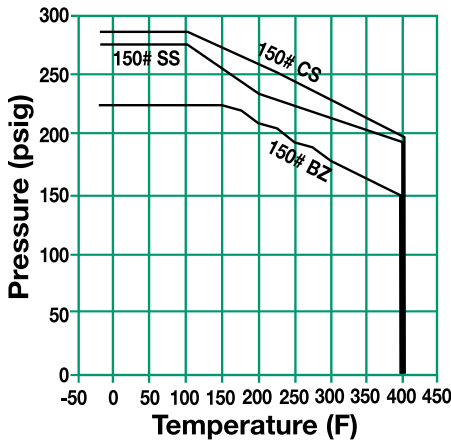
PRESSURES TO 285 PSIG (19.7 BARG)  
TEMPERATURES TO 406°F (207°C)

## APPLICATIONS

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

## PRESSURE/TEMPERATURE CHART

ASME B16.34, ASME B16.24



For Quick Opening Covers Ratings see page 467.

- RF or FF flanges in accordance with ASME B16.5 or B16.24
- Cover flange in accordance with ASME Section VIII, Div 1 Appendix II and ASME 16.5
- Angular basket for straight through flow
- Stainless steel perforated basket is standard
- Recommended minimum straining level is 250 microns
- NPT drain connection furnished with plug as standard

## MODELS

- 150B1F – Straight Flow

## OPTIONS

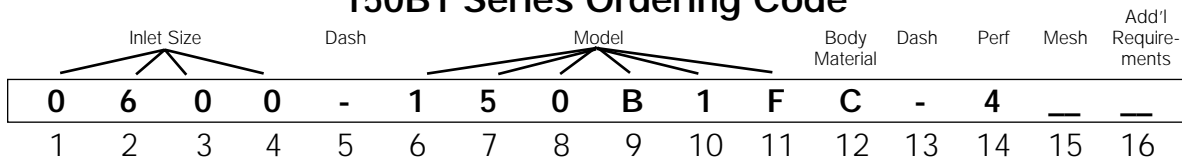
- Other screen perforations and mesh liners
- Quick Opening Covers - See page 467

## APPLICABLE CODES

- ASME B16.5, B16.24, B16.34

Canadian Registration OE 1972.23-150B1F

## 150B1 Series Ordering Code



**Inlet Size** -  
Position 1 - 4  
0200 - 2"  
0250 - 2½"  
0300 - 3"  
0400 - 4"  
0500 - 5"  
0600 - 6"  
0800 - 8"  
1000 - 10"  
1200 - 12"

**Dash** - Position 5

**Model** - Position 6 - 11  
150B1F - Straight Flow

**Body Material** -  
Position 12  
B - Bronze  
C - Carbon Steel  
T - Stainless Steel

**Dash** - Position 13

**Perf**<sup>1</sup> - Position 14  
**304 SS Material**<sup>2</sup>  
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

1. Standard Screens:  
All 2"-3" — 3/64" perf,  
All 4"-12" — 1/8" perf.

**Mesh**<sup>2</sup> - 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

2. For other screen material, contact factory.

**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**

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

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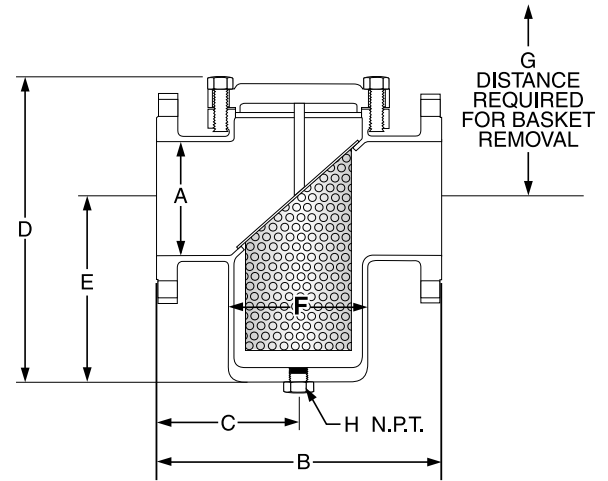
## SPECIFICATION

Basket Strainer shall have straight flow with an angular basket. The Basket Strainer shall be \_\_\_\_\_ body material with 150 PSIG ANSI rated \_\_\_\_\_ flanges. 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 150B1 Series.

## MATERIALS OF CONSTRUCTION

	Bronze	Carbon Steel	Stainless Steel
Body	Bronze B62	A216-WCB	A351-CF8M
Cover	Bronze B62	A216-WCB	A351-CF8M
Screen <sup>1</sup>	304 SS	304 SS	304 SS
Plug <sup>2</sup>	Bronze B16	A105	A182-316
Gasket <sup>1</sup>	Teflon <sup>3</sup>	Teflon <sup>3</sup>	Teflon <sup>3</sup>
Bolt/Stud <sup>2</sup>	Bronze B16	A193-B7	A193-B8-1
Nut <sup>2</sup>	Nonferrous	A194-2H	A194-B

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



**Connections**  
 BZ: 2" – 6" FF Flanged  
 CS, SS: 2"–12" RF Flanged

## SCREEN OPENINGS

SIZE	STANDARD SCREEN	MATERIALS
2" – 3"	3/64 Perf.	304 SS
4" - 12"	1/8 Perf.	304 SS

## DIMENSIONS inches (mm) AND WEIGHTS pounds (kg)

SIZE	A	B	C		D*		E		F		G		H		WEIGHT	
			Stl.	Bz.	Stl.	Bz.	Stl.	Bz.	Stl.	Bz.	Stl.	Bz.	Stl.	Bz.	Cover	Unit
2 (50)	2 (51)	8 5/8 (206)	4 1/8 (103)	4 1/8 (103)	9 5/8 (243)	8 5/8 (218)	5 5/8 (143)	5 (127)	3 1/4 (83)	2 7/8 (73)	12 1/2 (318)	11 3/4 (298)	1 (25)	1/2 (13)	5 (2.3)	29 (13)
2 1/2 (65)	2 1/2 (64)	8 3/4 (222)	4 3/8 (111)	4 3/8 (111)	10 13/16 (275)	8 15/16 (227)	5 5/8 (152)	6 1/4 (159)	3 3/8 (86)	3 3/8 (98)	14 (356)	13 3/4 (349)	1 (25)	3/4 (19)	7 (3.2)	33 (15)
3 (80)	3 (76)	9 7/8 (251)	4 15/16 (125)	4 15/16 (125)	12 7/16 (316)	11 1/4 (286)	7 7/8 (192)	7 7/8 (181)	3 7/8 (90)	4 3/4 (121)	15 5/8 (391)	15 5/8 (391)	1 (25)	3/4 (19)	9 (4.1)	48 (21.8)
4 (100)	4 (102)	11 1/2 (292)	5 3/4 (146)	5 3/4 (146)	16 (406)	13 3/8 (335)	10 5/8 (257)	8 (203)	4 5/8 (118)	5 11/16 (145)	21 1/4 (540)	17 3/4 (451)	1 (25)	1 (25)	13 (5.9)	69 (31.4)
5 (125)	5 (127)	13 5/8 (333)	6 5/8 (167)	6 5/8 (167)	15 7/8 (403)	14 1/2 (368)	9 1/2 (241)	8 1/2 (216)	7 1/2 (191)	6 15/16 (176)	22 1/4 (565)	20 1/2 (521)	1 (25)	1 (25)	20 (9.1)	105 (48)
6 (150)	6 (152)	14 5/8 (378)	7 7/8 (189)	7 7/8 (189)	17 1/8 (437)	15 (381)	10 5/8 (241)	9 (229)	6 3/8 (162)	7 15/16 (202)	22 1/2 (572)	23 (584)	1 (25)	1 (25)	26 (12)	121 (55)
8 (200)	8 (203)	18 3/4 (476)	9 5/8 (238)	—	21 15/16 (559)	—	13 3/8 (332)	—	8 5/8 (226)	—	29 3/8 (746)	—	1 (25)	—	45 (20)	214 (97.3)
10 (250)	10 (254)	20 5/8 (511)	10 5/8 (256)	—	25 (629)	—	13 3/8 (340)	—	10 5/8 (270)	—	35 (889)	—	1 (25)	—	70 (32)	309 (140.5)
12 (300)	12 (305)	26 1/4 (667)	13 3/8 (333)	—	30 11/16 (780)	—	17 (432)	—	14 1/8 (378)	—	42 1/2 (1080)	—	2 (50)	—	110 (50)	476 (216.4)

\*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.

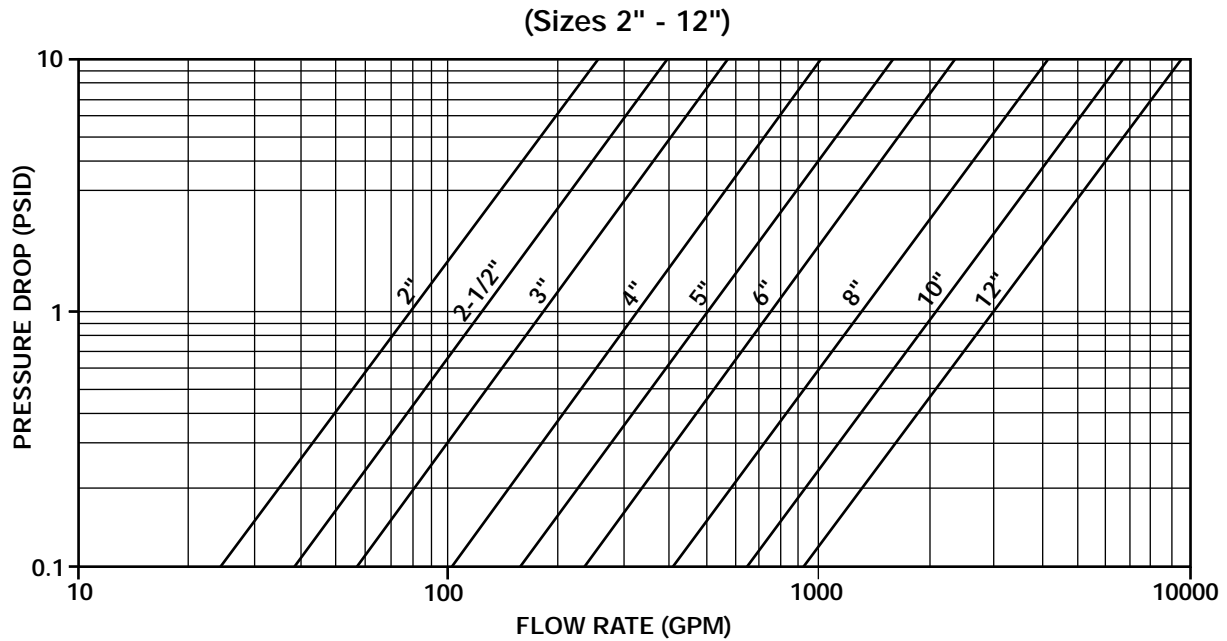
150B1 SERIES  
BASKET STRAINERS

# 150B1 SERIES

## CAST BRONZE, CARBON STEEL, STAINLESS STEEL

### PRESSURE DROP VS FLOW RATE

Water Service, Clean Basket, 1/32" - 1/4" Perforated Screen\*



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

# 150B1 SERIES

## CAST BRONZE, CARBON STEEL, STAINLESS STEEL

### OPEN AREA RATIOS

with Standard Perforated Screen

**BRONZE ONLY**

Size	Opening diameter (in)	Opening %	Flange Inlet Area (in <sup>2</sup> )	Gross Screen Area (in <sup>2</sup> )	Free Screen Area (in <sup>2</sup> )	Open Area Ratio (OAR)
2	3/64	36	3.14	29.4	10.9	3.5
2½	3/64	36	4.91	44.3	16.4	3.3
3	3/64	36	7.07	66.7	24.7	3.5
4	1/8	40	12.57	97.2	38.9	3.1
5	1/8	40	28.27	170.1	68.0	2.4
6	1/8	40	50.27	318.6	127.5	2.5

**CARBON STEEL & STAINLESS STEEL ONLY**

Size	Opening diameter (in)	Opening %	Nominal Inlet Area (in <sup>2</sup> )	Gross Screen Area (in <sup>2</sup> )	Free Screen Area (in <sup>2</sup> )	Open Area Ratio (OAR)
2	3/64	36	3.14	38.1	13.7	4.4
2½	3/64	36	4.91	41.6	15.0	3.0
3	3/64	36	7.07	59.6	21.5	3.0
4	1/8	40	12.57	119.9	48.0	3.8
6	1/8	40	28.27	177.4	71.0	2.5
8	1/8	40	50.27	296.5	118.6	2.4
10	1/8	40	78.54	413.5	165.4	2.1
12	1/8	40	113.10	730.3	292.1	2.6

OAR = Free Screen Area / Nominal Inlet Area  
 Free Screen Area = Opening % x Gross Screen Area  
 Values shown are approximate. Consult factory for exact ratios.