



125B SERIES CAST IRON FLANGED BASKET STRAINERS

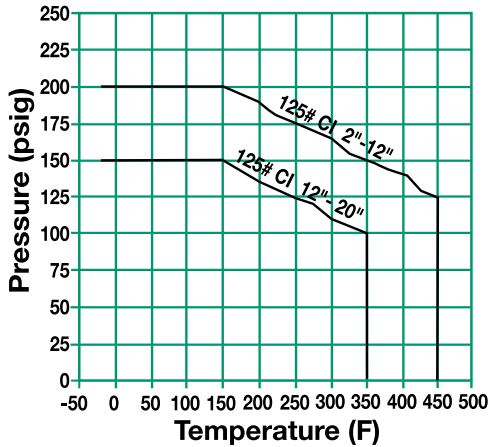
PRESSURES TO 200 PSIG (13.8 BARG)
TEMPERATURES TO 450°F (232°C)

- FF flanges in accordance with ASME B16.1
- 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

APPLICATIONS

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

PRESSURE/TEMPERATURE CHART
ASME B16.1



For Quick Opening Covers Ratings, see page 467.

MODELS

- 125B1F - Straight Flow

OPTIONS

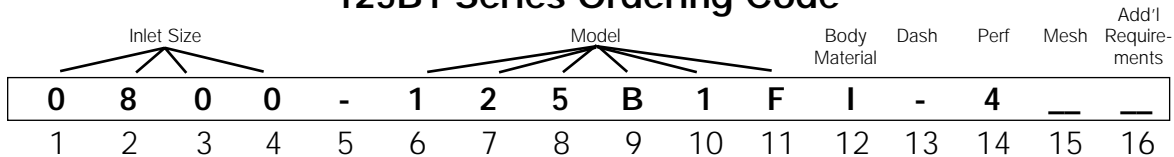
- Other screen perforations and mesh liners
- Quick Opening Covers - See page 467

APPLICABLE CODES

- ASME B16.1

Canadian Registration OE 6331.5-125B1FI 10" & 12"

125B1 Series Ordering Code



<p>Inlet Size - Position 1 - 4</p> <p>0200 - 2" 0250 - 2½" 0300 - 3" 0400 - 4" 0500 - 5" 0600 - 6" 0800 - 8" 1000 - 10" 1200 - 12" 1400 - 14" 1600 - 16" 1800 - 18" 2000 - 20"</p>	<p>Dash - Position 5</p> <p>Model - Position 6 - 11 125B1F - Straight Flow</p> <p>Body Material - Position 12 I - Cast Iron</p> <p>Dash - Position 13</p>	<p>Perf¹ - Position 14</p> <p>304 SS Material²</p> <p>B - 3/64" (std < 4") 4 - 1/8" (std => 4") 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</p>	<p>Mesh² - Position 15</p> <p>Leave Blank If not Required (Std. All)</p> <p>1 - 10 2 - 20 3 - 30 4 - 40 5 - 50 6 - 60 7 - 80 8 - 100 9 - 120 Z - Other</p>	<p>Add'l Requirements - Position 16</p> <p>Leave Blank If not Required</p> <p>D - Special Drain Size E1 - 1/4" Vent E2 - 3/8" Vent E3 - 1/2" Vent F - Silicon Free G - Special Gaskets T - Special Testing V1 - Clamp Cover X - Oxygen Cleaning Y - Other and / or Multiple Specials</p>
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1. Standard screens
All 2"-3"—3/64" perf,
All 4"-20"— 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.

Indicate Specials Clearly On the Order

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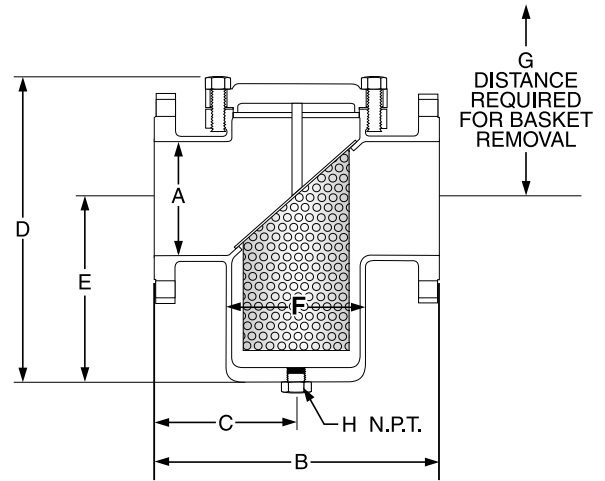
SPECIFICATION

Basket Strainer shall have straight flow with an angular basket. The Basket Strainer shall be cast iron with 125 PSIG ANSI rated FF 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 125B Series.

MATERIALS OF CONSTRUCTION

Body	Cast Iron A126-B
Cover	Cast Iron A126-B
Screen ¹	304 SS
Plug ²	Cast Iron A126-B
Gasket ¹	Graphite ³
Bolt/Stud ²	A307-B
Nut ²	A563

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: 2"– 20" FF Flanged

SCREEN OPENINGS

SIZE	STANDARD SCREEN	MATERIALS
2" – 3"	3/64 Perf.	304 SS
4" – 20"	1/8 Perf.	304 SS

DIMENSIONS inches (mm) AND WEIGHTS pounds (kg)

SIZE	A	B	C	D*	E	F	G	H**	WEIGHT	
									Cover	Unit
2 (50)	2 (51)	8 ¹ / ₈ (206)	4 ¹ / ₁₆ (103)	9 ¹ / ₁₆ (230)	5 (127)	2 ¹ / ₁₆ (75)	11 ¹ / ₄ (298)	1/2 (15)	5 (2.3)	23 (10)
2 ¹ / ₂ (65)	2 ¹ / ₂ (64)	8 ¹ / ₄ (210)	4 ¹ / ₈ (106)	10 ³ / ₁₆ (262)	6 ¹ / ₄ (159)	4 (102)	13 ¹ / ₄ (337)	3/4 (20)	7 (3.2)	33 (15)
3 (80)	3 (76)	9 ¹ / ₈ (251)	4 ¹ / ₈ (125)	12 ³ / ₁₆ (310)	7 ¹ / ₈ (181)	5 (127)	15 ¹ / ₈ (391)	3/4 (20)	9 (4)	44 (20)
4 (100)	4 (102)	11 ¹ / ₂ (292)	5 ¹ / ₄ (146)	13 ³ / ₈ (346)	8 (203)	5 ¹ / ₈ (148)	17 ³ / ₈ (451)	1 (25)	13 (6)	67 (30)
5 (125)	5 (127)	13 ¹ / ₈ (333)	6 ¹ / ₈ (167)	14 ¹ / ₈ (370)	8 ¹ / ₂ (216)	7 ¹ / ₈ (179)	20 ¹ / ₂ (521)	1 (25)	20 (9)	88 (40)
6 (150)	6 (152)	14 ¹ / ₈ (378)	7 ¹ / ₈ (189)	15 ¹ / ₄ (400)	9 (229)	7 ¹ / ₈ (202)	23 (584)	1 (25)	26 (12)	120 (54)
8 (200)	8 (203)	18 ¹ / ₁₆ (475)	9 ¹ / ₈ (238)	19 ¹ / ₁₆ (506)	12 (305)	9 ² / ₃₂ (250)	30 (762)	1 ¹ / ₂ (40)	45 (20)	220 (100)
10 (250)	10 (254)	20 ¹ / ₈ (511)	10 (254)	26 (660)	14 (356)	12 ³ / ₁₆ (313)	35 ¹ / ₂ (902)	1 ¹ / ₂ (40)	70 (32)	353 (160)
12 (300)	12 (305)	26 ³ / ₈ (679)	13 ³ / ₈ (340)	30 ¹ / ₈ (765)	17 (432)	15 ¹ / ₁₆ (390)	42 ¹ / ₂ (1080)	2 (50)	110 (50)	523 (237)
14 (350)	14 (356)	30 ¹ / ₈ (768)	15 ¹ / ₈ (384)	37 ¹ / ₂ (953)	22 (559)	18 (457)	53 (1346)	1 ¹ / ₂ (40)	140 (64)	815 (370)
16 (400)	16 (406)	33 ¹ / ₈ (841)	16 ¹ / ₈ (422)	39 ¹ / ₈ (997)	22 ¹ / ₈ (581)	20 ¹ / ₈ (527)	55 ¹ / ₈ (1413)	2 (50)	180 (82)	1041 (472)
18 (450)	18 (457)	38 ¹ / ₂ (978)	19 ¹ / ₄ (489)	40 (1016)	19 (483)	24 ¹ / ₄ (616)	61 (1549)	2 (50)	220 (100)	1446 (656)
20 (500)	20 (508)	41 ³ / ₈ (1051)	20 ¹ / ₁₆ (525)	46 ¹ / ₄ (1175)	23 ¹ / ₄ (591)	26 ¹ / ₂ (673)	69 ¹ / ₄ (1759)	2 (50)	285 (129)	1980 (898)

* For models with Quick Opening Cover, consult factory. For sizes 2"-6", allow clearance for bottom drain bolt removal.

** Side drain is standard on sizes 8" and larger. Bottom drain is optional.

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

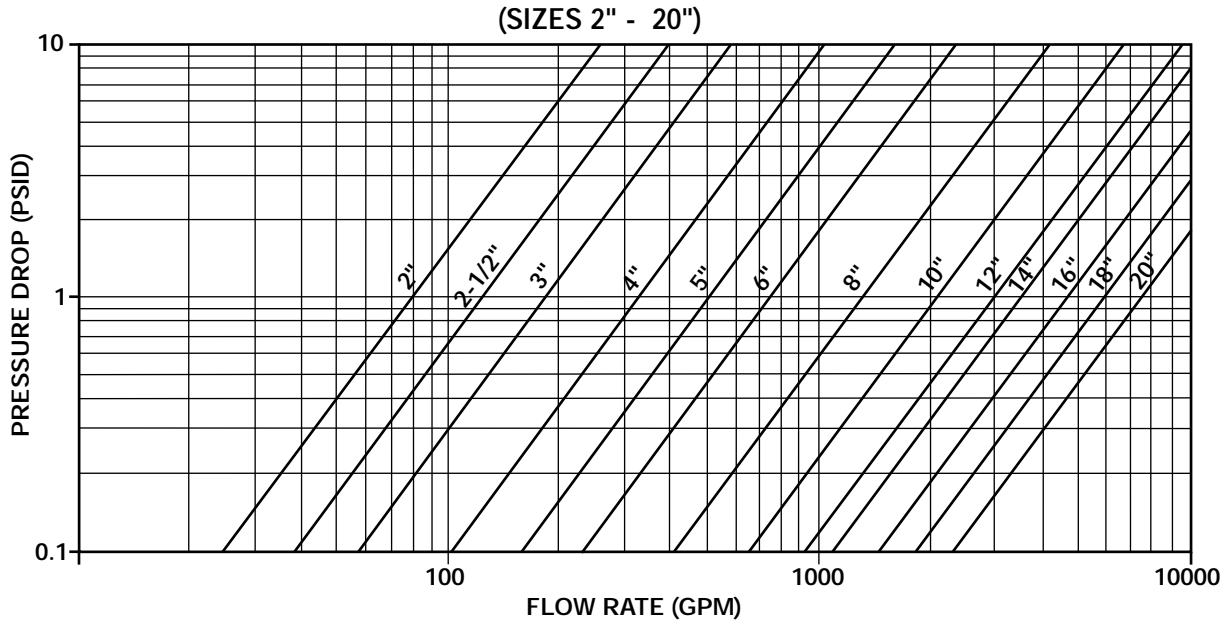
125B SERIES
BASKET STRAINERS

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PRESSURE DROP VS FLOW RATE

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



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

125B SERIES

CAST IRON FLANGED BASKET STRAINERS

OPEN AREA RATIOS

with Standard Perforated Screen

Size	Opening diameter (in)	Opening %	Nominal Outlet Area (in ²)	Gross Screen Area (in ²)	Free Screen Area (in ²)	Open Area Ratio (OAR)
2	3/64	36	3.14	29.4	10.6	3.5
2½	3/64	36	4.91	43.6	15.7	3.3
3	3/64	36	7.07	75.0	27.0	3.9
4	1/8	40	12.57	104.4	41.8	3.3
6	1/8	40	28.27	177.3	70.9	2.5
8	1/8	40	50.27	307.0	122.8	2.4
10	1/8	40	78.54	450.0	180.0	2.3
12	1/8	40	113.1	688.5	275.4	2.4
14	1/8	40	153.94	1019.1	407.6	2.6
16	1/8	40	201.06	1248.6	499.4	2.5

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