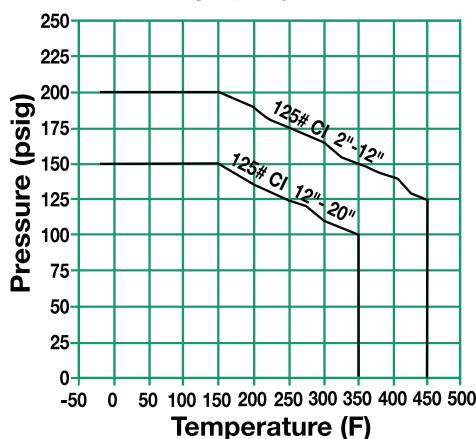




## APPLICATIONS

- 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.

# 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

## 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

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

**Inlet Size** -  
Position 1 - 4  
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"

**Dash** - Position 5  
**Model** - Position 6 - 11  
125B1F - Straight Flow  
**Body Material** - Position 12  
I - Cast Iron  
**Dash** - Position 13

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

1. Standard screens  
All 2"-3"—3/64" perf.  
All 4"-20"—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  
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.

# 125B SERIES CAST IRON FLANGED BASKET STRAINERS

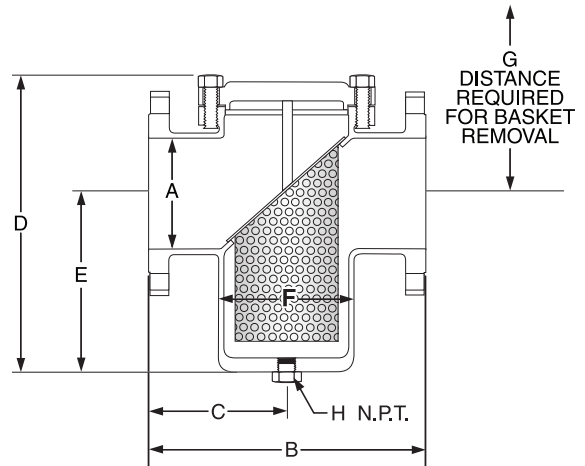
## SPECIFICATION

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<sup>1</sup> .....304 SS  
Plug<sup>2</sup> .....Cast Iron A126-B  
Gasket<sup>1</sup> .....Graphite<sup>3</sup>  
Bolt/Stud<sup>2</sup> .....A307-B  
Nut<sup>2</sup> .....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<br>(50)     | 2<br>(51)     | 8 1/8<br>(206)     | 4 1/8<br>(103)    | 9 1/8<br>(230)    | 5<br>(127)      | 2 15/16<br>(75)   | 11 1/4<br>(298)  | 1/2<br>(15)   | 5<br>(2.3)   | 23<br>(10)    |
| 2 1/2<br>(65) | 2 1/2<br>(64) | 8 3/4<br>(210)     | 4 3/8<br>(106)    | 10 5/8<br>(262)   | 6 1/4<br>(159)  | 4<br>(102)        | 13 3/4<br>(337)  | 3/4<br>(20)   | 7<br>(3.2)   | 33<br>(15)    |
| 3<br>(80)     | 3<br>(76)     | 9 1/8<br>(251)     | 4 15/16<br>(125)  | 12 3/8<br>(310)   | 7 1/8<br>(181)  | 5<br>(127)        | 15 1/8<br>(391)  | 3/4<br>(20)   | 9<br>(4)     | 44<br>(20)    |
| 4<br>(100)    | 4<br>(102)    | 11 1/2<br>(292)    | 5 1/4<br>(146)    | 13 3/8<br>(346)   | 8<br>(203)      | 5 13/16<br>(148)  | 17 1/4<br>(451)  | 1<br>(25)     | 13<br>(6)    | 67<br>(30)    |
| 5<br>(125)    | 5<br>(127)    | 13 1/8<br>(333)    | 6 3/8<br>(167)    | 14 9/16<br>(370)  | 8 1/2<br>(216)  | 7 1/8<br>(179)    | 20 1/2<br>(521)  | 1<br>(25)     | 20<br>(9)    | 88<br>(40)    |
| 6<br>(150)    | 6<br>(152)    | 14 7/8<br>(378)    | 7 1/8<br>(189)    | 15 1/4<br>(400)   | 9<br>(229)      | 7 15/16<br>(202)  | 23<br>(584)      | 1<br>(25)     | 26<br>(12)   | 120<br>(54)   |
| 8<br>(200)    | 8<br>(203)    | 18 1 1/16<br>(475) | 9 3/8<br>(238)    | 19 1 1/8<br>(506) | 12<br>(305)     | 9 27/32<br>(250)  | 30<br>(762)      | 1 1/2<br>(40) | 45<br>(20)   | 220<br>(100)  |
| 10<br>(250)   | 10<br>(254)   | 20 3/4<br>(511)    | 10<br>(254)       | 26<br>(660)       | 14<br>(356)     | 12 5/16<br>(313)  | 35 1/2<br>(902)  | 1 1/2<br>(40) | 70<br>(32)   | 353<br>(160)  |
| 12<br>(300)   | 12<br>(305)   | 26 3/4<br>(679)    | 13 3/8<br>(340)   | 30 1/8<br>(765)   | 17<br>(432)     | 15 1 1/2<br>(390) | 42 1/2<br>(1080) | 2<br>(50)     | 110<br>(50)  | 523<br>(237)  |
| 14<br>(350)   | 14<br>(356)   | 30 3/4<br>(768)    | 15 1/8<br>(384)   | 37 1/2<br>(953)   | 22<br>(559)     | 18<br>(457)       | 53<br>(1346)     | 1 1/2<br>(40) | 140<br>(64)  | 815<br>(370)  |
| 16<br>(400)   | 16<br>(406)   | 33 1/8<br>(841)    | 16 3/8<br>(422)   | 39 1/4<br>(997)   | 22 1/8<br>(581) | 20 3/4<br>(527)   | 55 1/8<br>(1413) | 2<br>(50)     | 180<br>(82)  | 1041<br>(472) |
| 18<br>(450)   | 18<br>(457)   | 38 1/2<br>(978)    | 19 1/4<br>(489)   | 40<br>(1016)      | 19<br>(483)     | 24 1/4<br>(616)   | 61<br>(1549)     | 2<br>(50)     | 220<br>(100) | 1446<br>(656) |
| 20<br>(500)   | 20<br>(508)   | 41 1/8<br>(1051)   | 20 1 1/8<br>(525) | 46 1/4<br>(1175)  | 23 1/4<br>(591) | 26 1/2<br>(673)   | 69 1/4<br>(1759) | 2<br>(50)     | 285<br>(129) | 1980<br>(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.

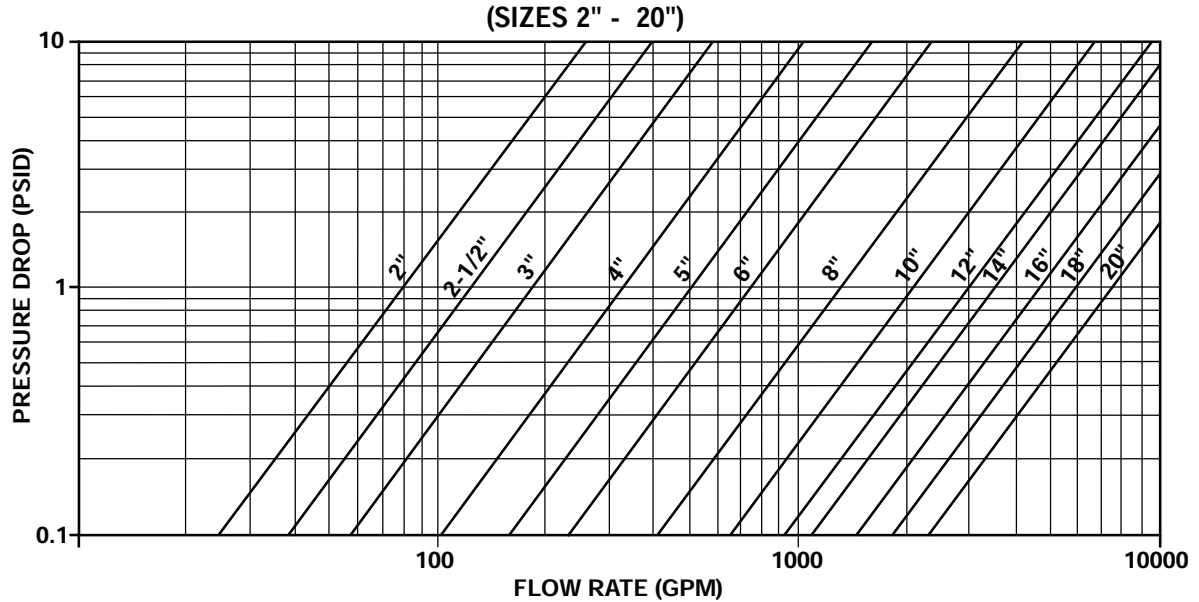
125B SERIES  
BASKET STRAINERS

# 125B SERIES

## CAST IRON FLANGED BASKET STRAINERS

### PRESSURE DROP VS FLOW RATE

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



# 125B SERIES

## CAST IRON FLANGED BASKET STRAINERS

### OPEN AREA RATIOS

with Standard Perforated Screen

| Size | Opening diameter (in) | Opening % | Nominal Outlet 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                                 | 10.6                                | 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