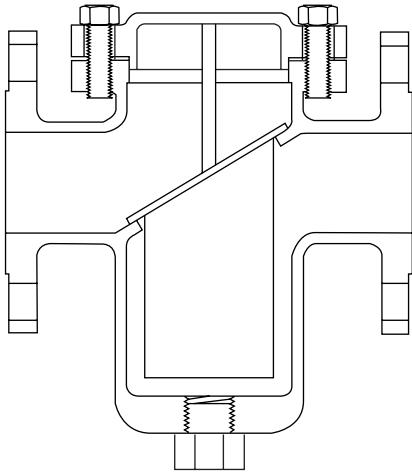


# IFC Series BI25F and BI50F Style I Iron and Bronze Flanged Basket Strainers



## Design Features:

- Iron strainers are equipped with FF flanges (Series BI25F) in accordance with ASME B16.1.
- Bronze strainers are equipped with FF flanges (Series BI50F) in accordance with ASME B16.24.
- Strainer body meets applicable ASME/ANSI standard.
- All strainers equipped with bolted cover flanges that utilize a flat gasket seal.
- Strainer cover flanges are designed in accordance with ASME Section VIII, Div. I Appendix II.
- Straight thru flow is accomplished by an angular basket design.
- Standard basket construction is 304 SS perforated plate.
- Recommended minimum straining level is 250 microns.
- N.P.T. drain connection furnished with plug.
- Recommended for installation in horizontal pipelines.

**Notes:** 1. See page 11 for details of available quick opening covers.  
2. See page 19 for basket strainer effective areas.

## Parts List and Standard Materials

| Part<br>IFC Model      | Cast Iron<br>BI25FIBI                               | Bronze<br>BI50FBBI                                |
|------------------------|---|---|
| Body                   | A126-B  | B62   |
| Cover                  | A126-B  | B62   |
| Screen <sup>1</sup>    | 304 SS  | 304 SS  |
| Plug <sup>2</sup>      | A126-B  | B62   |
| Gasket <sup>1</sup>    | Bolted Cover: Graphite<br>Quick Opening: See pg. 11 | Bolted Cover: Teflon<br>Quick Opening: See pg. 11 |
| Bolt/Stud <sup>2</sup> | A307-B  | Nonferrous  |
| Nut <sup>2</sup>       | A563  | Nonferrous  |

**Notes:** 1. Recommended spares.  
2. Materials of equivalent strength may be substituted at manufacturer's option.

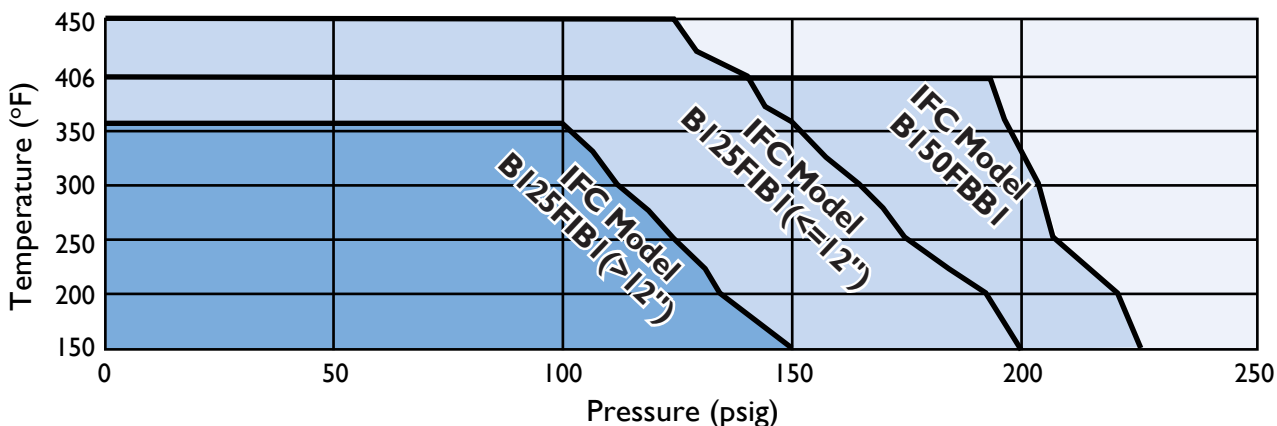
## Upper Pressure Limits (Non-Shock)

| IFC Model                      | Body<br>Material | M.A.W.P.<br>psig (Bars) |
|--------------------------------|------------------|-------------------------|
| BI25FIBI<br>(Up to 12" size)   | A126-B           | 200 (13.79)             |
| BI25FIBI<br>(Sizes 14" and up) | A126-B           | 150 (10.34)             |
| BI50FBBI                       | B62              | 225 (15.51)             |

## Lower Temperature Limits

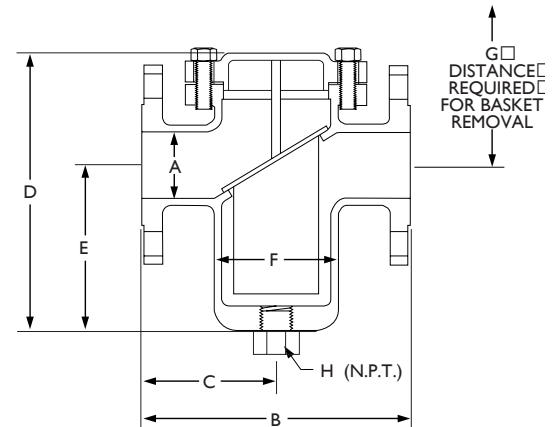
| Body Material | Lower Limit °F (°C) |
|---------------|---------------------|
| A126-B, B62   | -20 (-28.9)         |

## Pressure Temperature Chart (in accordance with ASME B16.1 & ASME B16.24)



**Note:** Max. rating temperature for IFC model BI50FBBI limited by codes such as ASME B31.1, ASME B31.5, etc.

| Standard Screens |           |
|------------------|-----------|
| Size range       | Opening   |
| 2 - 3"           | 0.045 in. |
| 50mm - 80mm      | 1.2 mm    |
| 4" - 20"         | 0.125 in. |
| 100mm - 500mm    | 3.2 mm    |



### Dimensional Data (Class 125-150)

| Size in (mm) | A in (mm) | B in (mm) | C in (mm) | D in (mm) | E in (mm) | F in (mm) | G in (mm) | H NPT in/mm |          | Weight Lb./(Kg.) |      |
|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|----------|------------------|------|
|              |           |           |           |           |           |           |           | BI25FIBI    | BI50FBBI | Cover            | Unit |
| 2"           | 2.00      | 8.13      | 4.06      | 8.38      | 5.00      | 3.00      | 11.75     | 1/2         | 1        | 5                | 23   |
| 50           | 51        | 206       | 103       | 213       | 127       | 76        | 298       | 15          | 25       | 2.3              | 10   |
| 2 1/2"       | 2.50      | 8.25      | 4.13      | 9.75      | 6.25      | 4.00      | 13.25     | 3/4         | 1        | 7                | 33   |
| 65           | 64        | 210       | 105       | 248       | 159       | 102       | 337       | 20          | 25       | 3.2              | 15   |
| 3"           | 3.00      | 9.88      | 4.94      | 11.25     | 7.13      | 5.00      | 15.38     | 3/4         | 1        | 9                | 44   |
| 80           | 76        | 251       | 125       | 286       | 181       | 127       | 391       | 20          | 25       | 4.1              | 20   |
| 4"           | 4.00      | 11.50     | 5.75      | 12.88     | 8.00      | 6.00      | 17.75     | 1           | 1        | 13               | 67   |
| 100          | 102       | 292       | 146       | 327       | 203       | 152       | 451       | 25          | 25       | 5.9              | 30   |
| 5"           | 5.00      | 13.13     | 6.56      | 14.50     | 8.50      | 6.50      | 20.50     | 1           | 1        | 20               | 88   |
| 125          | 127       | 333       | 167       | 368       | 216       | 165       | 521       | 25          | 25       | 9.1              | 40   |
| 6"           | 6.00      | 14.88     | 7.44      | 16.00     | 9.00      | 8.00      | 23.00     | 1           | 1        | 26               | 120  |
| 150          | 152       | 378       | 189       | 406       | 229       | 203       | 584       | 25          | 25       | 12               | 54   |
| 8"           | 8.00      | 18.75     | 9.38      | 21.00     | 12.00     | 10.00     | 30.00     | 1 1/2       | N/A      | 45               | 220  |
| 200          | 203       | 476       | 238       | 533       | 305       | 254       | 762       | 40          |          | 20               | 100  |
| 10"          | 10.00     | 20.00     | 10.00     | 24.75     | 14.00     | 12.50     | 35.50     | 1 1/2       | N/A      | 70               | 353  |
| 250          | 254       | 508       | 254       | 629       | 356       | 318       | 902       | 40          |          | 32               | 160  |
| 12"          | 12.00     | 26.25     | 13.13     | 29.75     | 17.00     | 15.00     | 42.50     | 1 1/2       | N/A      | 110              | 523  |
| 300          | 305       | 667       | 333       | 756       | 432       | 381       | 1080      | 40          |          | 50               | 237  |
| 14"          | 14.00     | 30.25     | 15.13     | 37.50     | 22.00     | 18.00     | 53.00     | 1 1/2       | N/A      | 140              | 815  |
| 350          | 356       | 768       | 384       | 953       | 559       | 457       | 1346      | 40          |          | 64               | 370  |
| 16"          | 16.00     | 33.25     | 16.63     | 39.25     | 22.88     | 20.75     | 55.63     | 1 1/2       | N/A      | 180              | 1041 |
| 400          | 406       | 845       | 422       | 997       | 581       | 527       | 1413      | 40          |          | 82               | 472  |
| 18"          | 18.00     | 38.50     | 19.25     | 40.00     | 19.00     | 24.25     | 61.00     | 2           | N/A      | 220              | 1446 |
| 450          | 457       | 978       | 489       | 1016      | 483       | 616       | 1549      | 50          |          | 100              | 656  |
| 20"          | 20.00     | 41.38     | 20.69     | 46.25     | 23.25     | 26.50     | 69.25     | 2           | N/A      | 285              | 1980 |
| 500          | 508       | 1051      | 525       | 1175      | 591       | 673       | 1759      | 50          |          | 129              | 898  |

- Notes:**
- Vents are optional.
  - Dimension "B" is +/- 0.13".
  - Dimension "D" will change when Quick Opening covers are used.
  - Sizes 8" and larger come complete with a side drain as standard. A bottom drain is optional.

**General**

- Quick opening cover features are shown on pages 11-12.
- See pg. 14 for available perforations and screen materials.
- Pressure drop information is shown on pg. 15.
- See pg. 22 for ordering information.
- Dimensions shown are subject to change. Consult factory for certified prints when required.