

### Design Features:

- Strainers are equipped with RF flanges in accordance with ASME B16.5.
- Strainer body meets ASME B16.5 and ASME B16.34.
- All strainers equipped with bolted cover flanges that utilize a flat gasket seal.
- Strainer cover flanges are in dimensional accordance with ASME B16.5.
- Over-the-top flow design complete with machined basket seats eliminates the possibility of dirty fluid by-pass.
- Standard basket construction is 304 SS perforated plate.
- Recommended minimum straining level is 40 microns.
- N.P.T. drain connection furnished with plug.
- Recommended for installation in horizontal pipelines.
- Generous screen area and properly proportioned outer annulus minimize pressure drop while maximizing time between cleanings.

**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 IFC Model	Carbon Steel BI50FSB2	Stainless Steel BI50FSSB2
Body	A216-WCB	A351-CF8M
Cover	A216-WCB	A351-CF8M
Screen <sup>1</sup>	304SS	304SS
Plug <sup>2</sup>	A105	A182-316
Gasket <sup>1</sup>	Bolted Cover: 304SS Spiral Wound Quick Opening: See pg. 11	Bolted Cover: 304SS Spiral Wound Quick Opening: See pg. 11
Bolt/Stud <sup>2</sup>	A193-B7	A193-B8-1
Nut <sup>2</sup>	A194-2H	A194-8

### Upper Pressure Limits (Non-Shock)

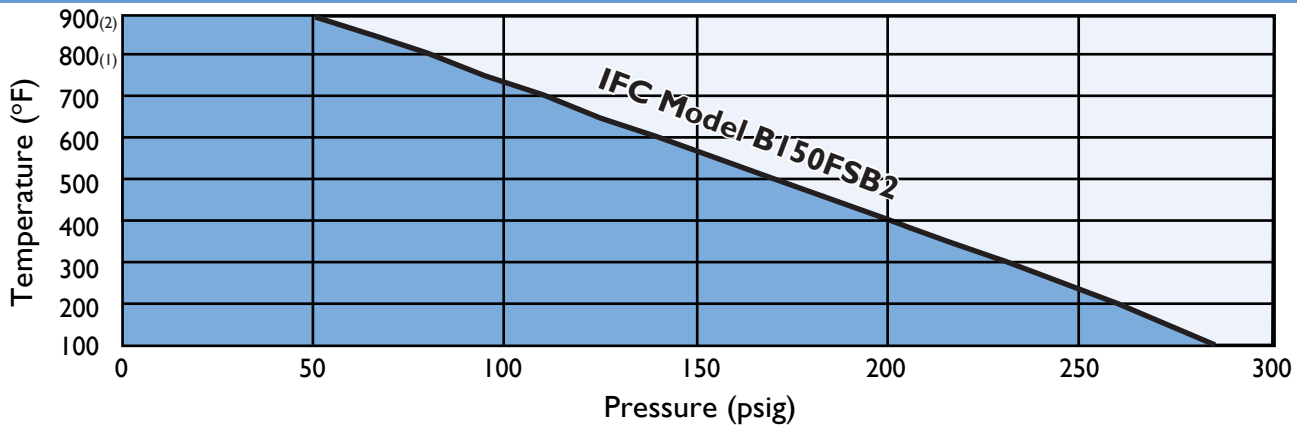
IFC Model	Body Material	M.A.W.P. psig (Bars)
BI50FSB2	WCB	285 (19.65)
BI50FSSB2	CF8M	275 (18.96)

### Lower Temperature Limits

Body Material	Lower Limit ;F (;C)
WCB	-20 (-28.9)
CF8M	-20 (-28.9)

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

### Pressure Temperature Chart (in accordance with ASME B16.5, WCB)



**Notes:** 1. Upon prolonged exposure to temperatures above 800°F, the carbide phase of carbon steel may be converted to graphite.  
2. Graphite filled 304SS spiral wound gaskets limited to 900°F in an oxidizing atmosphere.  
When operating strainers at higher temperatures please consult factory.

### Standard Screens

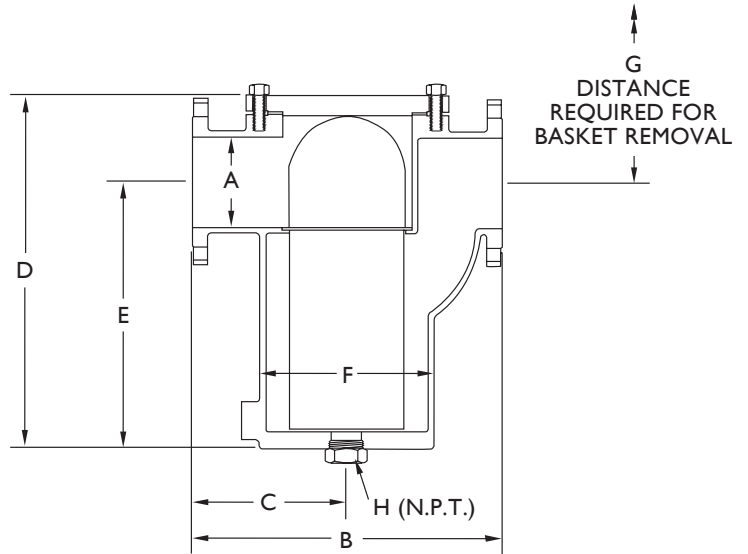
**Size range**                      **Opening**

1 1/2" - 3"                              0.045 in.

40mm - 80mm                              1.2 mm

4" - 8"                                      0.125 in.

100mm - 200mm                              3.2 mm



### Dimensional Data (Class 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./ Cover	(Kg.) Unit
1 1/2"	1.50	9.50	4.75	10.00	6.50	4.37	13.50	1/2	5	24
40	38	241	121	254	165	111	343	15	2.3	11
2"	2.00	10.50	5.25	11.63	7.63	4.87	15.63	3/4	7	46
50	51	267	133	295	194	124	397	20	3.2	21
3"	3.00	13.13	6.56	15.19	10.63	6.00	19.75	1	17	85
80	76	333	167	386	270	152	502	25	7.7	39
4"	4.00	17.25	8.38	15.75	10.75	7.38	20.75	2	20	120
100	102	438	213	400	273	187	527	50	9.1	54
6"	6.00	19.63	8.75	24.75	18.38	11.75	31.13	2	45	237
150	152	498	222	629	467	298	791	50	20	108
8"	8.00	27.00	13.00	34.63	27.00	13.88	42.25	2	70	372
200	203	686	330	879	686	352	1073	50	32	169

- Notes:**
1. Vents are optional.
  2. Dimension "B" is +/- 0.13".
  3. Dimension "D" will change when Quick Opening covers are used.
  4. All sizes come complete with a bottom drain. Side drains are optional.
  5. Dimensions shown are subject to change. Consult factory for certified prints when required.

### General

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