





Pipeline Y-Strainers



| irc series i-strainers | |
|---|--------------|
| IFC Series Y250 Cast Iron Threaded Y-Strainers IFC Series Y125 and Y250 Cast Bronze Threaded and Sweat Y-Strainers IFC Series Y300 Cast Steel Threaded and Socket Weld Y-Strainers IFC Series Y600 and Y1500 Cast Steel Threaded and Socket Weld Y-Strainer IFC Series Y600 and Y1500 Cast Steel Threaded and Socket Weld Y-Strainers with Bolted Covers IFC Series Y125F, Y150F and Y250F Iron and Bronze Y-Strainers IFC Series Y150F and Y300F Cast Steel Flanged Y-Strainers IFC Series Y600F, Y900F and Y1500F Cast Steel Flanged Y-Strainers Available Optional Features Documented Testing | 5 s911131517 |
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Limited Warranty

All products are warranted to be free of defects in material and workmanship for a period of one year from the date of shipment, subject to the limitations below: If the purchaser believes a product defective, the purchaser shall: (a) Notify the manufacturer, state the alleged defect and request permission to return the product. (b) If permission is given, return the product with transportation prepaid. If the product is accepted for return and found to be defective, the manufacturer will, at its discretion, either repair or

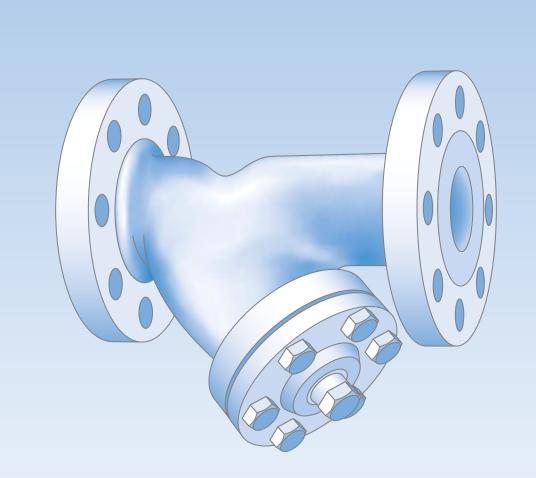
replace the product, f.o.b. factory, within 60 days of receipt, or refund the purchase price.

Other than to repair, replace or refund described above, the purchaser agrees that the manufacturer shall not be liable for any loses, costs, expenses or damages of any kind arising out of the product, its use, installation or replacement, labeling, instructions, information or technical data of any kind, description of product use, sample or model, warnings or lack of foregoing. No other warranties,

written or oral, expressed or implied, including the warranties of fitness for a particular purpose and merchantability, are made or authorized.

No affirmation of fact, promise, description of product use or sample or model shall create any warranty from the manufacturer, unless signed by the president. These products are not manufactured, sold or intended for personal, family or household purposes.





Features:

- Low pressure drop streamlined design.
- Generously sized strainer screens.
- Compact end to end dimension.

Available Materials of Construction:

- Cast Iron
- Ductile Iron
- Bronze
- Carbon Steel
- Low-Temp Steel
- Chrome Molly
- Stainless Steel

End Connections:

- Flat Faced (FF)
- Raised Face (RF)
- RTJ Flanged (RTJ)
- Butt-weld (BW)
- Threaded (NPT)
- Socket Weld (SW)
- Sweat (S)

Size Range:

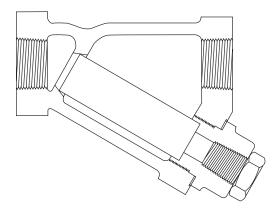
• 1/4" (8mm) up to 16" (400mm)

Applications:

- Process Industry
- Power Industry
- Chemical Industry
- Oil and Gas
- Pulp and Paper
- Metals and Mining
- Water and Waste



IFC Series Y250TI Cast Iron Threaded Y-Strainers



Design Features:

- Strainers are equipped with threaded (N.P.T.) inlet/outlet connections.
- Strainer body meets ASME B16.4.
- IFC series Y250TIT strainers equipped with threaded cover cap that utilize a flat gasket seal.
- IFC series Y250TIB strainers equipped with bolted cover flange that utilize a flat gasket seal.
- Upper and lower machined seats.
- 304 SS mesh screens are standard. Perforated plate screens are optional.
- Drain/Blow-off connection furnished with plug as standard.
- Generous screen area and properly proportioned straining chamber to minimize initial pressure drop while maximizing time between cleanings.

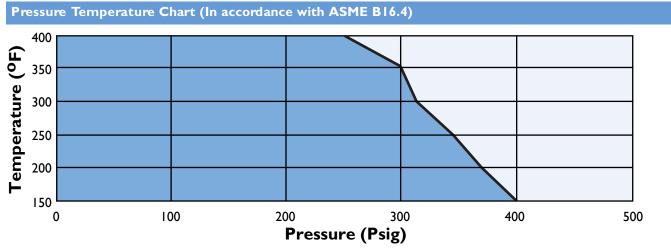
| Parts List and Standard Materials | | | | |
|-----------------------------------|---------------|---------------|--|--|
| Part | Model Y250TIT | Model Y250TIB | | |
| Body | A126-B | A126-B | | |
| Cap/Cover | A126-B | A126-B | | |
| Screen I | 304SS | 304SS | | |
| Plug ² | A126-B | A126-B | | |
| Gasket ¹ | Non-asbestos | Non-asbestos | | |

| Cap/Cover | A126-B | A126-B |
|---------------------|--------------|--------------|
| Screen ^I | 304SS | 304SS |
| Plug ² | A126-B | A126-B |
| Gasket | Non-asbestos | Non-asbestos |

Notes: I. Recommended Spares.

| Upper Pressure Limits (Non-Shock) | | | | |
|-----------------------------------|------------------|-------------------------|--|--|
| IFC Model | Body Material | M.A.W.P. psig (Bars) | | |
| Y250TIT, Y250TIB | A126-B | 400 (27.58) | | |

| Lower Temperature Limits | | | | | |
|--------------------------|---------------------|--|--|--|--|
| Body Material | Lower Limit ¡F (¡C) | | | | |
| A126-B | -20 (-28.9) | | | | |



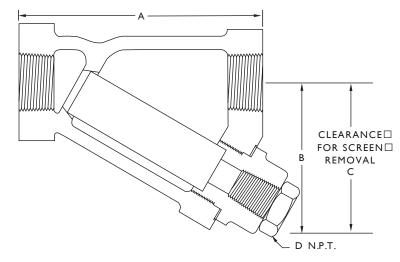
Note: Strainers may not be used on service where the temperature exceeds 406°F.

^{2.} Materials of equivalent strength may be substituted at manufacturer's option.



IFC Series Y250TI Cast Iron Threaded Y-Strainers

| Standard Screens | |
|------------------|-----------|
| Size range | Opening |
| 1/4" - 2" | 0.032 in. |
| 8mm - 50mm | 0.8 mm |
| 21/2" - 3" | 0.045 in. |
| 65mm - 80mm | I.2 mm |



Notes:

IFC Model Y250TIT is shown.

Model Y250TIB is complete with a bolted cover.

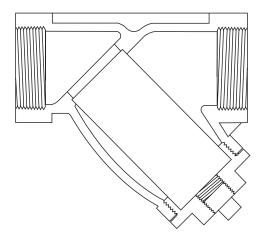
| Dimens | sional Data | a (Class 2 | 50) | | | | | | | |
|---------------------------------------|----------------------|--------------|--------------|---------------|--------------|---------------|-------------------------------------|---------------|------------|-----------------|
| Size in | ii | n | i | 3 n | i | C n | D N | n | L | ight .b. |
| (mm) | m) Y250TIT | | | m) Y250TIB | | m) Y250TIB | (m Y250TIT | m) Y250TIB | | (g.) Y250TIB |
| 1 _{/4} " 8 | 3.19 81 | - | 2.06 52 | - | 3.13 80 | - | 1 _{/4} 8 | - | 1.5 0.7 | - |
| ³ / ₈ " | 3.19 81 | - | 2.06 52 | - | 3.13 80 | - | 1 _{/4} 8 | - - | 1.5 0.7 | - |
| 1 _{/2} " 15 | 3.19 81 | - - | 2.06 52 | - - | 3.13 80 | - - | 1 _{/4} 8 | - - | 1.5 0.7 | - - |
| ³ / ₄ " 20 | 3.75 95 | - | 2.44 62 | - | 3.69 94 | - | ³ / ₈ 10 | - | 2.5 1.1 | - |
| I" 25 | 4.00 102 | - | 2.44 62 | - | 3.69 94 | - | ³ / ₈ 10 | - | 3 1.4 | - |
| 1 ¹ / ₄ " 32 | 5.00 127 | - | 3.38 86 | - | 5.06 129 | - | ³ / ₄ 20 | - | 5.5 2.5 | - |
| 1 ¹ / ₂ " 40 | 5.75 146 | - | 3.88 99 | - | 5.75 146 | - - | ³ / ₄ 20 | - | 8 3.6 | - |
| 2" 50 | 7.00 178 | - | 4.75 121 | - | 7.25 184 | - | 1 25 | - | 13 5.9 | - |
| 2 ¹ / ₂ " 65 | 9.25 235 | 9.25 235 | 5.88 149 | 7.00 188 | 8.75 222 | 10.50 267 | 1 ¹ / ₂ 40 | l 25 | 22 10 | 29 13 |
| 3" 80 | 10.00 254 | 10.00 254 | 6.00 1.63 | 8.00 203 | 9.00 2.29 | 11.50 292 | 1 ¹ / ₂ 40 | l 25 | 30 14 | 39 18 |

- I. For further optional features see page 19.
- 2. Other perforations and screen materials available. Please see page 20.
- 3. For pressure loss information see page 21 and 23.
- 4. For ordering information please see page 30.
- 5. Dimensions shown are subject to change.

 Contact factory for certified prints when required.



IFC Series Y125 and Y250 Cast Bronze Threaded and Sweat Y-Strainers



Design Features:

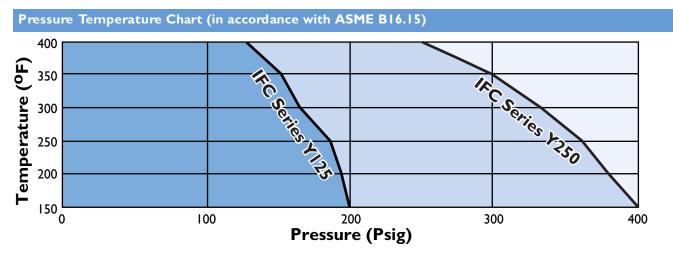
- Strainers are available with threaded (N.P.T.) or sweat (Class 125 Lb. Only) inlet/outlet connections.
- Strainer body meets ASME B16.15.
- Strainers equipped with threaded cover cap that utilize a flat gasket seal.
- Upper and lower machined seats.
- 304 SS mesh screens are standard. Perforated plate screens are optional.
- Drain/Blow-off connection furnished with plug as standard.
- Generous screen area and properly proportioned straining chamber to minimize initial pressure drop while maximizing time between cleanings.

| Parts List and Standard Materials | | | | |
|-----------------------------------|-------------|-------------|--|--|
| Part | Series Y125 | Series Y250 | | |
| Body | B62 | B62 | | |
| Сар | B62 | B62 | | |
| Screen ^I | 304SS | 304SS | | |
| Plug | B62 | B62 | | |
| Gasket ¹ | Teflon | Silicon | | |

Notes: I. Recommended Spares.

| Upper Pressure Limits (Non-Shock) | | | | | |
|-----------------------------------|------------------|-------------------------|--|--|--|
| IFC Model | Body Material | M.A.W.P. psig (Bars) | | | |
| Y125TBT, Y125SBT | B62 | 200 (13.79) | | | |
| Y250TBT | B62 | 400 (27.58) | | | |

| Lower Temperature Limits | | | | | | |
|--------------------------|---------------------|--|--|--|--|--|
| Body Material | Lower Limit ¡F (¡C) | | | | | |
| B62 | -20 (-28.9) | | | | | |

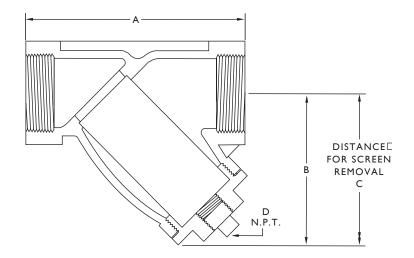


Note: Limited to 400°F maximum sustained operating temperature.



IFC Series Y125 and Y250 Cast Bronze Threaded and Sweat Y-Strainers

| Standard Screens | |
|------------------------------------|-----------|
| Size range | Opening |
| | |
| ³ / ₈ " - 2" | 0.032 in. |
| 10mm - 50mm | 0.8 mm |
| | |
| 21/2" - 3" | 0.045 in. |
| 65mm - 80mm | 1.2 mm |



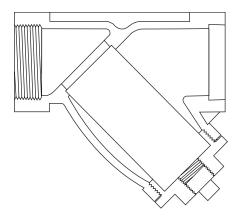
| Dimension | al Data (| Classes 1 | 25, 250) | | | | | | | | |
|---------------------------------------|--------------|-----------------|------------------|-------------|---------------|--------------|--------------|-----------------------------------|-----------------------------|-----------------|------|
| Size in (mm) | | A in (mm) | | i | 3 n im) | | C n m) | D N ir (mı | 1 | Wei Ll (K | b. |
| | YI25T | Y125S | Y250 | Y125 | Y250 | Y125 | Y250 | Y125 | Y250 | Y125 | Y250 |
| ³ / ₈ " 10 | 3.25 82 | 3.38 86 | - | 2.13 55 | - | 3.50 89 | - | ³ / ₈ 10 | - | 1.00 0.45 | - |
| 1 _{/2} " | 3.25 | 3.38 | 3.06 | 2.13 | 2.25 | 3.50 | 3.88 | ³ / ₈ | ³ / ₈ | 1.00 | 1.25 |
| 15 | 82 | 86 | 78 | 55 | 57 | 89 | 99 | 10 | 10 | 0.45 | 0.57 |
| ³ / ₄ " | 4.00 | 4.00 | 3.54 | 2.75 | 2.50 | 4.50 | 4.19 | ³ / ₈ | ³ / ₈ | 1.00 | 1.50 |
| 20 | 100 | 100 | 90 | 70 | 64 | 114 | 106 | 10 | 10 | 0.45 | 0.68 |
| l" | 4.50 | 5.00 | 4.19 | 3.00 | 3.19 | 5.00 | 4.88 | 1 _{/2} | ³ / ₄ | 2.00 | 2.00 |
| 25 | 115 | 127 | 106 | 75 | 81 | 127 | 124 | 15 | 20 | 0.91 | 0.91 |
| 1 1/4" | 5.38 | 5.88 | 5.06 | 3.50 | 3.63 | 5.75 | 5.75 | 1 _{/2} | ³ / ₄ | 2.00 | 3.00 |
| 32 | 136 | 149 | 129 | 90 | 92 | 146 | 146 | 15 | 20 | 0.91 | 1.36 |
| 1 ¹ / ₂ " 40 | 6.25 | 6.88 | 5.9 4 | 3.88 | 4.19 | 6.38 | 6.63 | 1 _{/2} | ³ / ₄ | 3.00 | 4.00 |
| | 158 | 175 | 151 | 98 | 106 | 162 | 168 | 15 | 20 | 1.36 | 1.81 |
| 2" | 7.50 | 8.50 | 7.75 | 5.50 | 5.75 | 9.06 | 8.19 | 1 _{/2} | ³ / ₄ | 7.00 | 7.50 |
| 50 | 191 | 216 | 197 | 138 | 146 | 230 | 208 | 15 | 20 | 3.18 | 3.40 |
| 2 ¹ / ₂ " 65 | 9.06 230 | 9.06 230 | - | 6.00 150 | - | 10.00 254 | - | 1 _{/2} 15 | - | 9.75 4.42 | - |
| 3" 80 | 10.25 260 | 10.25 260 | - | 6.25 160 | - | 10.38 264 | - | 1 _{/2} 15 | - | 13.00 5.90 | - |

- I. For further optional features see page 19.
- 2. Other perforations and screen materials available. Please see page 20.
- 3. For pressure loss information see page 21 and 23.
- 4. For ordering information please see page 30.
- 5. Dimensions shown are subject to change.

 Contact factory for certified prints when required.



IFC Series Y150 and Y300 Cast Steel Threaded and Socket Weld Y-Strainers



Design Features:

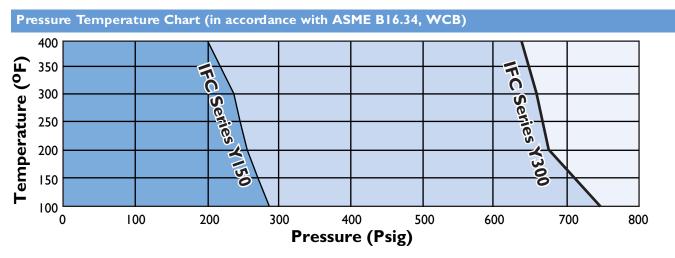
- Strainers are available with threaded (N.P.T.) or socket weld inlet/outlet connections.
- Strainer body meets applicable ASME Standard..
- One piece precision investment cast body.
- Strainers equipped with threaded cover cap that utilize a flat gasket seal.
- · Upper and lower machined seats.
- 304 SS perforated screens are standard.
- Drain/Blow-off connection furnished with plug as standard.
- Generous screen area and properly proportioned straining chamber to minimize initial pressure drop while maximizing time between cleanings.

| Parts List and Standard Materials | | | | | | |
|-----------------------------------|--------------|-----------------|--|--|--|--|
| Part | Carbon Steel | Stainless Steel | | | | |
| Body | A216-WCB | A351-CF8M | | | | |
| Сар | A216-WCB | A351-CF8M | | | | |
| Screen I | 304SS | 304SS | | | | |
| Plug ² | A105 | A182-316 | | | | |
| Gasket ^I | Teflon | Teflon | | | | |

Notes: I. Recommended Spares.

| Upper Pressure Limits (Non-Shock) | | | | | |
|-----------------------------------|------------------|-------------------------|--|--|--|
| IFC Model (Threaded) | Body Material | M.A.W.P. psig (Bars) | | | |
| Y150TST | WCB | 285 (19.65) | | | |
| YI50TSST | CF8M | 275 (18.96) | | | |
| Y300TST | WCB | 740 (51.02) | | | |
| Y300TSST | CF8M | 720 (49.64) | | | |

| Lower Temperature Limits | | | | | |
|--------------------------|---------------------|--|--|--|--|
| Body Material | Lower Limit ¡F (¡C) | | | | |
| WCB | -20 (-28.9) | | | | |
| CF8M | -20 (-28.9) | | | | |



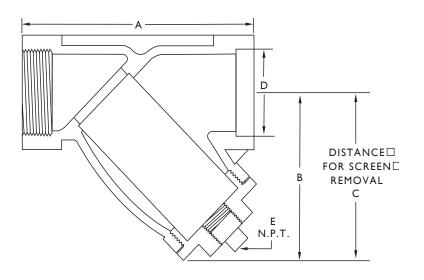
Note: Teflon limited to 400°F maximum sustained operating temperature.

When operating IFC series Y150 and Y300 cast steel strainers at higher temperatures please consult factory.

^{2.} Materials of equivalent strength may be substituted at manufacturer's option.



IFC Series Y150 and Y300 Cast Steel Threaded and Socket Weld Y-Strainers



| Standard Screens | | | | | | |
|------------------------------------|-----------|--|--|--|--|--|
| Size range | Opening | | | | | |
| | | | | | | |
| ¹ / ₂ " - 2" | 0.032 in. | | | | | |
| | | | | | | |
| 10mm - 50mm | 0.8 mm | | | | | |
| | | | | | | |
| 21/2" - 3" | 0.045 in. | | | | | |
| | | | | | | |
| 65mm - 80mm | I.2 mm | | | | | |

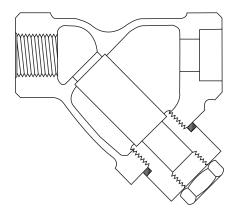
| Dimen | sional D | ata (Cla | ıss 150, I | 300) | | | | | | | | |
|---------------------------------------|-------------|--------------|-------------|-------------|-------------|--------------|----------------|----------------|-----------------------|-----------------------------|-----------------|--------------|
| Size in (mm) | | n m) | (m | n m) | i (m | C n m) | | n m) | E N iı (m | n m) | Wei Ll (K | b. g.) |
| | Y150 | Y300 | Y150 | Y300 | Y150 | Y300 | Y150 | Y300 | Y150 | Y300 | Y150 | Y300 |
| 1 _{/2} " 15 | - - | 2.31 59 | - - | 1.56 40 | - - | 2.38 60 | - - | 0.855 21.72 | - - | ³ / ₈ | - - | 0.50 0.22 |
| ³ / ₄ " 20 | - | 3.13 80 | - | 2.13 54 | - | 3.19 81 | - | 1.065 27.05 | - | ³ / ₈ | - | 0.82 0.37 |
| l" 25 | - - | 3.31 84 | - | 2.63 67 | - | 4.00 102 | - - | 1.330 33.78 | - | 1 _{/2} 15 | - | 1.50 0.68 |
| 1 ¹ / ₄ " 32 | - | 4.13 105 | - | 3.00 76 | - | 4.50 114 | - | 1.675 42.55 | - | 1 _{/2} 15 | - | 2.0 0.90 |
| 1 ¹ / ₂ " 40 | - | 4.69 119 | - | 3.19 81 | - | 4.75 121 | - - | 1.915 48.64 | - | 1 _{/2} 15 | - | 2.75 1.25 |
| 2" 50 | - | 5.44 1.38 | - | 3.81 97 | - | 5.75 146 | - - | 2.406 61.11 | - | 1 _{/2} 15 | - - | 4.25 1.90 |
| 2 ¹ / ₂ " 65 | 7.19 183 | 7.19 183 | 4.88 124 | 4.88 124 | 7.25 184 | 7.25 184 | 2.906 73.81 | 2.906 73.81 | 1 _{/2} 15 | 1 _{/2} 15 | 10 4.54 | 10 4.54 |
| 3" 80 | 8.00 203 | 8.00 203 | 5.25 133 | 5.25 133 | 7.50 190 | 7.50 190 | 3.535 89.79 | 3.535 89.79 | 1 _{/2} 15 | 1 _{/2} 15 | 14 6.35 | 14 6.35 |

- 1. For further optional features see page 19.
- 2. Other perforations and screen materials available. Please see page 20.
- 3. For pressure loss information see page 21 and 23.
- 4. For ordering information please see page 30.
- 5. Dimensions shown are subject to change.

 Contact factory for certified prints when required.



IFC Series Y600 and Y1500 Cast Steel Threaded and Socket Weld Y-Strainers



Design Features:

- Strainers are available with threaded (N.P.T.) or socket weld inlet/outlet connections.
- Strainer body meets ASME B16.34.
- Threaded and socket weld end connections meet the requirements of table 4 of ASME B16.34.
- Strainers equipped with threaded cover cap that utilize a flat gasket seal.
- Upper and lower machined seats.
- 304 SS perforated screens are standard. Alloy 20 strainers complete with Alloy 20 as standard.
- Drain/Blow-off connection furnished with plug as standard.
- Generous screen area and properly proportioned straining chamber to minimize initial pressure drop while maximizing time between cleanings.

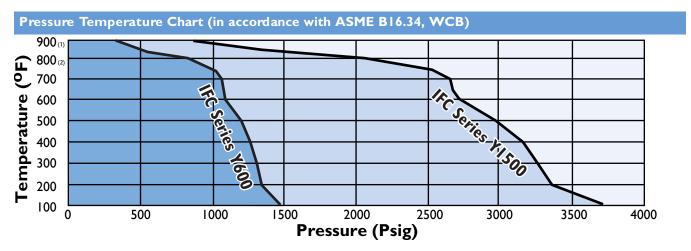
| Parts List and Standard Materials | | | | | | | |
|-----------------------------------|------------------------|------------------------|------------------------|----------------------------------|--------------------------|--|--|
| Part | Carbon Steel | Chrome Molly | Stainless Steel | Carbon Steel Low Temp. (-50F) | Alloy 20 | | |
| Body | A216-WCB | A217-WC6 | A351-CF8M | A352-LCB | A351-CN7M | | |
| Cap ² | A216-WCB | A217-WC6 | A351-CF8M | A351-CF8M | A351-CN7M | | |
| Screen ^I | 304 SS | 304 SS | 304 SS | 304 SS | Alloy 20 | | |
| Plug ² | A105 | A182-F11 | A182-316 | A182-316 | B462 | | |
| Gasket | 304 SS Spiral Wound | 304 SS Spiral Wound | 304 SS Spiral Wound | 304 SS Spiral Wound | Alloy 20 Spiral Wound | | |

| Notes: I.Recommended Spar | es. |
|---------------------------|-----|
|---------------------------|-----|

^{2.} Materials of equivalent strength may be substituted at manufacturer's option.

| Upper Pressure Limits (Non-Shock) | | | | | | |
|-----------------------------------|------------------|-------------------------|--|--|--|--|
| IFC Model (Threaded) | Body Material | M.A.W.P. psig (Bars) | | | | |
| Y600TST | WCB | 1480 (102.04) | | | | |
| Y600TSST | CF8M | 1440 (99.28) | | | | |
| Y600TA20T | CN7M | 1200 (82.74) | | | | |
| Y600TLCBT | LCB | 1390 (95.84) | | | | |
| YI500TST | WCB | 3705 (255.45) | | | | |
| Y1500T52CMT | WC6 | 3750 (258.55) | | | | |
| YI500TSST | CF8M | 3600 (248.21) | | | | |

| Lower Temperature Limits | | | | | |
|--------------------------|---------------------|--|--|--|--|
| Body Material | Lower Limit ¡F (¡C) | | | | |
| WCB,WC6 | -20 (-28.9) | | | | |
| CF8M, CN7M | -20 (-28.9) | | | | |
| LCB | -50 (-45.6) | | | | |



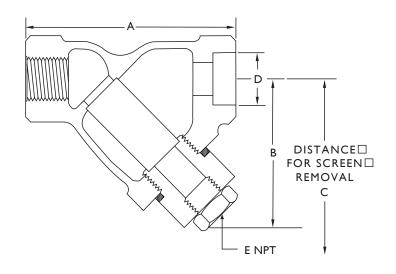
Notes: I. Graphite filled 304 SS Spiral Wound gaskets limited to 900°F in an oxidizing atmosphere. When operating strainers at higher temperatures please consult factory.

^{2.} Upon prolonged exposure to temperatures above 800°F, the carbide phase of carbon steel may be converted to graphite.



IFC Series Y600 and Y1500 Cast Steel Threaded and Socket Weld Y-Strainers

| Standard Screens | | | | |
|------------------|-----------|--|--|--|
| Size range | Opening | | | |
| | | | | |
| 1/2" - [1/2" | 0.032 in. | | | |
| | | | | |
| 15mm - 40mm | 0.8 mm | | | |
| | | | | |
| 2" | 0.032 in. | | | |
| - | | | | |
| 50mm | 0.8 mm | | | |
| •••• | | | | |



| Dimens | imensional Data (Classes 600, 1500) | | | | | | | | | | |
|-------------------------------------|-------------------------------------|-------------|-------------|---------------|-------------|---------------|-----------------|-----------------------------------|-----------------------------------|-----------------|------------|
| Size in (mm) | iı (m | n m) | i (m | B n nm) | i (m | C n nm) | D in (mm) | E N i (m | n m) | Wei Ll (K | b. g.) |
| | Y600 | Y1500 | Y600 | Y1500 | Y600 | Y1500 | | Y600 | Y1500 | Y600 | Y1500 |
| 1 _{/2} " 15 | 3.00 76 | 3.94 100 | 2.44 62 | 3.81 97 | 3.13 80 | 5.31 135 | 0.855 21.72 | 8 8 | 8 | 2 0.9 | 2.5 1.1 |
| ³ / ₄ " 20 | 3.75 95 | 4.25 108 | 2.94 75 | 4.19 106 | 3.56 90 | 5.00 127 | 1.065 27.05 | ³ / ₈ 10 | ³ / ₈ 10 | 3 1.4 | 4 1.8 |
| I" 25 | 4.63 118 | 5.00 127 | 3.75 95 | 5.38 137 | 3.94 100 | 7.50 178 | 1.330 33.78 | ³ / ₈ | 1/2 15 | 5 2.3 | 7 3.2 |
| 1 ¹ / ₄ " 32 | 5.00 127 | - | 4.00 102 | - | 4.25 108 | - | 1.675 42.55 | ³ / ₄ 20 | - | 7 3.2 | - |
| 1 ¹ / ₂ " 40 | 5.63 143 | - | 4.81 122 | - | 6.56 167 | - | 1.915 48.64 | ³ / ₄ 20 | - | 10 4.5 | - |
| 2" 50 | 7.00 178 | - | 6.13 156 | - | 6.75 171 | - | 2.406 61.11 | l 25 | - | 15 6.8 | - |

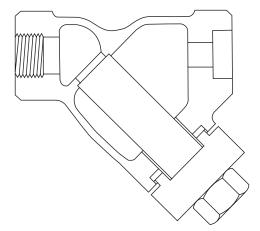
Note: Drain/Blow-off connections are optional. Please contact factory.

- I. For further optional features see page 19.
- 2. Other perforations and screen materials available. Please see page 20.
- 3. For pressure loss information see page 21 and 23.
- 4. For ordering information please see page 30.
- 5. Dimensions shown are subject to change.

 Contact factory for certified prints when required.



IFC Series Y600 and Y1500 Cast Steel Threaded and Socket Weld Y-Strainers with Bolted Covers



Design Features:

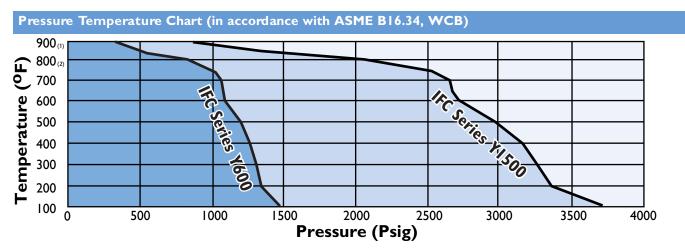
- Strainers are available with threaded (N.P.T.) or socket weld inlet/outlet connections.
- Strainer body meets ASME B16.34.
- Threaded and socket weld end connections meet the requirements of table 4 of ASME B16.34.
- Strainers equipped with bolted cover flange that utilize a flat gasket seal.
- Bolted cover designed to meet the requirements of ASME Section VIII, Div. I, Appendix 2 and/or ASME B16.5.
- Upper and lower machined seats.
- 304 SS perforated screens are standard.
- Drain/Blow-off connections are optional. Please consult factory.
- Generous screen area and properly proportioned straining chamber to minimize initial pressure drop while maximizing time between cleanings.

| Parts List | Parts List and Standard Materials | | | | | | |
|---------------------|-----------------------------------|------------------------|------------------------|--|--|--|--|
| Part | Carbon Steel | Chrome Molly | Stainless Steel | | | | |
| Body | A216-WCB | A217-WC6 | A351-CF8M | | | | |
| Cover ² | A216-WCB | A217-WC6 | A351-CF8M | | | | |
| Screen ^I | 304 SS | 304 SS | 304 SS | | | | |
| Gasket ¹ | 304 SS Spiral Wound | 304 SS Spiral Wound | 304 SS Spiral Wound | | | | |
| Stud | A193-B7 | A193-B7 | A193-B8-1 | | | | |
| Nut | A194-2H | A194-2H | A194-8 | | | | |

Notes: I. Recommended Spares.

| Upper Pressure Limits (Non-Shock) | | | | | |
|-----------------------------------|------------------|-------------------------|--|--|--|
| IFC Model (Threaded) | Body Material | M.A.W.P. psig (Bars) | | | |
| Y600TSB | WCB | 1480 (102.04) | | | |
| Y600TSSB | CF8M | 1440 (99.28) | | | |
| YI500TSB | WCB | 3705 (255.45) | | | |
| YI500T52CMB | WC6 | 3750 (258.55) | | | |
| Y1500TSSB | CF8M | 3600 (248.21) | | | |

| Lower Temperature Limits | | | | | |
|--------------------------|---------------------|--|--|--|--|
| Body Material | Lower Limit ¡F (¡C) | | | | |
| WCB, WC6, CF8M | -20 (-28.9) | | | | |



Notes: 1. Graphite filled 304 SS Spiral Wound gaskets limited to 900°F in an oxidizing atmosphere. When operating strainers at higher temperatures please consult factory.

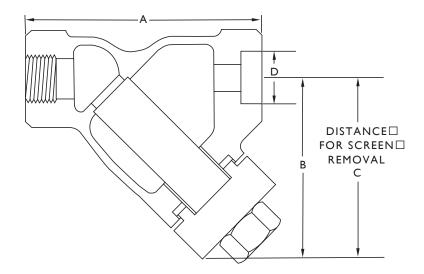
2. Upon prolonged exposure to temperatures above 800°F, the carbide phase of carbon steel may be converted to graphite.

^{2.} Materials of equivalent strength may be substituted at manufacturer's option.



IFC Series Y600 and Y1500 Cast Steel Threaded and Socket Weld Y-Strainers with Bolted Covers

| Standard Screens | | | | |
|---------------------|------------|--|--|--|
| Size range | Opening | | | |
| | | | | |
| 1/2" - 11/2" | 0.032 in. | | | |
| 15mm - 40mm | 0.8 mm | | | |
| 13111111 - 40111111 | 0.0 111111 | | | |
| 2" - 3" | 0.045 in. | | | |
| | | | | |
| 50mm - 80mm | I.2 mm | | | |
| | | | | |



| Dimensio | Dimensional Data (Classes 600, 1500) | | | | | | | | | |
|---------------------------------------|--------------------------------------|---------------------|--------------|---------------|--------------|---------------|-------------|----------------|----------|------------|
| Size in (mm) | i | A n m) | i | 3 n im) | i (m | C n nm) | i (m | o n m) | LI (K | |
| | Y600 | Y1500 | Y600 | Y1500 | Y600 | Y1500 | Y600 | Y1500 | Y600 | Y1500 |
| 1 _{/2} " 15 | - | 3.94 100 | - - | 3.00 76 | - - | 4.25 108 | - - | 0.855 21.72 | - | 7 3.2 |
| ³ / ₄ " 20 | - | 4.25 108 | - | 3.50 89 | - - | 5.00 127 | - | 1.065 27.05 | - - | 10 4.5 |
| l" 25 | - | 5.00 127 | - | 4.50 114 | - - | 5.63 143 | - | 1.330 33.78 | - | 16 7.3 |
| 1 ¹ / ₄ " 32 | - | 8.38 213 | - | 6.19 157 | - | 8.63 219 | - | 1.675 42.55 | - | 22 10 |
| 1 ¹ / ₂ " 40 | - | 8.38 213 | - - | 6.19 157 | - - | 8.63 219 | - - | 1.915 48.64 | - | 22 10 |
| 2" 50 | - | 9.38 238 | - | 7.19 183 | - - | 10.00 254 | - | 2.406 61.11 | - - | 30 13.6 |
| 2 ¹ / ₂ " 65 | 14.50 394 | - | 9.13 232 | - | 10.38 264 | - | 2.906 74 | - | 63 29 | - |
| 3" 80 | 15.63 397 | - | 10.13 257 | - | 11.38 289 | - | 3.535 90 | - | 77 35 | - |

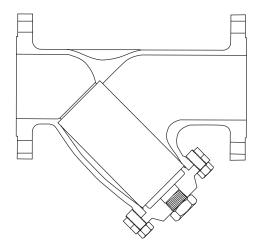
Notes: I. IFC Series Y600 strainers are supplied with a 1" F.N.P.T. drain.

- 2. Drain/Blow-off connections are optional on IFC Series Y1500 strainers.
- 3. Strainers constructed from A216-WC6 are available in IFC Series Y1500 sizes 11/4", 11/2" and 2" only.

- I. For further optional features see page 19.
- 2. Other perforations and screen materials available. Please see page 20.
- 3. For pressure loss information see page 21 and 23.
- 4. For ordering information please see page 30.
- Dimensions shown are subject to change.
 Contact factory for certified prints when required.



IFC Series Y125F, Y150F and Y250F Iron and Bronze Flanged Y-Strainers



Design Features:

- Iron strainers are complete with FF (Series Y125F) or RF (Series Y250F) flanges in accordance with ASME B16.1.
- Bronze strainers are complete with FF flanges in accordance with ASME B16.24.
- Strainer body meets applicable ASME Standard.
- · One piece cast body.
- Strainers equipped with bolted cover flange that utilize a flat gasket seal.
- Upper and lower machined seats.
- 304 SS perforated screens are standard.
- Drain/Blow-off connection furnished with plug as standard.
- Generous screen area and properly proportioned straining chamber to minimize initial pressure drop while maximizing time between cleanings.

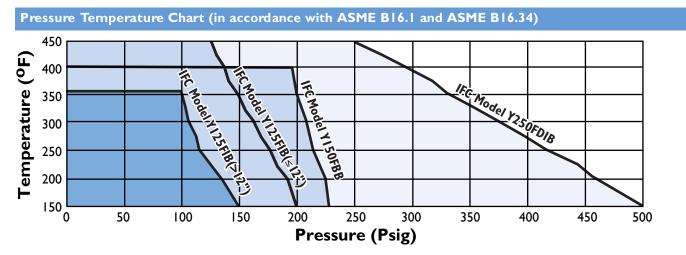
| Parts List and Standard Materials | | | | | |
|-----------------------------------|----------------------|--------------------------|-------------------|--|--|
| Part IFC Model | Cast Iron Y125FIB | Ductile Iron Y250FDIB | Bronze YI50FBB | | |
| Body | A126-B | A395 | B62 | | |
| Cover | A126-B | A395 | B62 | | |
| Screen I | 304 SS | 304 SS | 304 SS | | |
| Plug ² | A126-B | A126-B | B62 | | |
| Gasket ¹ | Graphite | Graphite | Non-asbestos | | |
| Bolt/Stud ² | A307-B | A307-B | Nonferrous | | |
| Nut ² | A563 | A563 | - | | |

| Notes: | 1. Recommended | Spares. |
|--------|----------------|---------|
|--------|----------------|---------|

^{2.} Materials of equivalent strength may be substituted at manufacturer's option.

| Upper Pressure Limits (Non-Shock) | | | | | |
|-----------------------------------|------------------|-------------------------|--|--|--|
| IFC Model | Body Material | M.A.W.P. psig (Bars) | | | |
| Y125FIB (Up to 12" size) | A126-B | 200 (13.79) | | | |
| Y125FIB (Sizes 14" and up) | A126-B | 150 (10.34) | | | |
| Y150FBB | B62 | 225 (15.51) | | | |
| Y250FDIB | A395 | 500 (34.47) | | | |

| Lower Temperature Limits | | | | | |
|--------------------------|---------------------|--|--|--|--|
| Body Material | Lower Limit ¡F (¡C) | | | | |
| A126-B, A395, B62 | -20 (-28.9) | | | | |

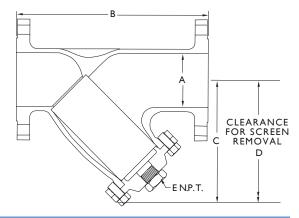


Note: Max rating temperature for IFC Model Y I 50FBB limited by codes such as ASME B31.1, ASME B31.5, etc.



IFC Series Y125F, Y150F and Y250F Iron and Bronze Flanged Y-Strainers

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



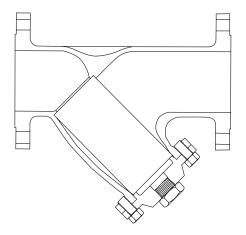
| Dimensional Data (Bronze Class 150) | | | | | | | |
|-------------------------------------|------|-------|-------|-------|-------------------------------|--------|--|
| Size | A | B | C | D | E NPT | Weight | |
| in | in | in | in | in | in | Lb. | |
| (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (Kg.) | |
| 2" | 2.00 | 8.63 | 5.25 | 7.5 | 1 _{/2} | 20 | |
| 50 | 51 | 219 | 133 | 191 | 15 | 9 | |
| 2 ¹ / ₂ " | 2.50 | 10.25 | 7.00 | 9.88 | ³ / ₄ | 32 | |
| 65 | 64 | 260 | 178 | 251 | 20 | 15 | |
| 3" | 3.00 | 11.63 | 7.69 | 10.88 | ³ / ₄ | 36 | |
| 80 | 76 | 295 | 195 | 276 | 20 | 16 | |
| 4" | 4.00 | 14.38 | 9.13 | 13.00 | 1 ¹ / ₂ | 61 | |
| 100 | 102 | 365 | 232 | 330 | 40 | 28 | |
| 6" | 6.00 | 18.63 | 13.00 | 18.38 | 2 | 160 | |
| 150 | 152 | 473 | 330 | 467 | 50 | 73 | |
| 8" | 8.00 | 24.38 | 15.31 | 21.63 | 2 | 210 | |
| 200 | 203 | 619 | 389 | 549 | 50 | 95 | |

| Dimensional Data (Iron Classes 125, 250) *use columns from chart above | | | | | | | | | | | | |
|--|--------------|-------|---------------|-------|--------------|-------|---------------|-------|-------------------------------|-------------------------------|-------------|------|
| | Y125 | Y250 | Y125 | Y250 | Y125 | Y250 | Y125 | Y250 | Y125 | Y250 | Y125 | Y250 |
| 2" | 2.00 | 2.00 | 8.88 | 8.88 | 6.00 | 6.50 | 8.50 | 9.13 | 1 _{/2} | 1 _{/2} | 22 | 28 |
| 50 | 51 | 51 | 226 | 226 | 152 | 165 | 216 | 232 | 15 | 15 | 10 | 13 |
| 2 ¹ / ₂ " | 2.50 | 2.50 | 10.75 | 11.25 | 8.00 | 7.00 | 11.25 | 9.88 | l | l | 35 | 38 |
| 65 | 64 | 64 | 273 | 289 | 203 | 178 | 286 | 251 | 25 | 25 | 16 | 17 |
| 3" | 3.00 | 3.00 | 11.50 | 11.63 | 8.75 | 8.00 | 12.25 | 11.25 | l | l | 43 | 54 |
| 80 | 76 | 76 | 292 | 295 | 222 | 203 | 311 | 286 | 25 | 25 | 20 | 24 |
| 4" | 4.00 | 4.00 | 13.88 | 14.50 | 9.50 | 10.75 | 13.38 | 15.00 | 1 ¹ / ₄ | I | 75 | 110 |
| 100 | 102 | 102 | 353 | 368 | 241 | 273 | 340 | 381 | 32 | 25 | 34 | 50 |
| 5" | 5.00 | 5.00 | 16.38 | 17.38 | 11.50 | 13.50 | 16.13 | 19.00 | 1 | 1 ¹ / ₄ | 115 | 160 |
| 125 | 127 | 127 | 416 | 441 | 292 | 343 | 410 | 483 | | 32 | 52 | 73 |
| 6" | 6.00 | 6.00 | 18.50 | 18.75 | 12.63 | 16.25 | 17.69 | 22.75 | 1 ¹ / ₂ | 1 ¹ / ₂ | 154 | 224 |
| 150 | 152 | 152 | 470 | 476 | 321 | 413 | 449 | 578 | 40 | 40 | 70 | 102 |
| 8" | 8.00 | 8.00 | 21.38 | 21.88 | 16.38 | 19.50 | 23.00 | 27.75 | 1 ¹ / ₂ | 1 | 243 | 468 |
| 200 | 203 | 203 | 543 | 556 | 416 | 495 | 584 | 692 | 40 | | 110 | 212 |
| 10" | 10.00 | 10.00 | 26.00 | 27.25 | 19.00 | 21.25 | 26.70 | 29.75 | 2 | 2 | 390 | 590 |
| 250 | 254 | 254 | 660 | 692 | 483 | 540 | 678 | 756 | 50 | 50 | 177 | 268 |
| 12" | 12.00 | 12.00 | 30.00 | 31.38 | 22.00 | 25.00 | 31.00 | 35.00 | 2 | 2 | 650 | 890 |
| 300 | 305 | 305 | 762 | 797 | 559 | 635 | 787 | 889 | 50 | 50 | 295 | 404 |
| 14" 350 | 14.00 356 | - | 37.38 949 | - | 29.00 737 | - | 41.00 1041 | - | 2 50 | - | 815 370 | - |
| 16" 400 | 16.00 406 | - | 42.50 1080 | - | 33.00 838 | - | 46.00 1168 | - | 2 50 | - | 1224 555 | - |

- 1. For further optional features see page 19.
- 2. Other perforations and screen materials available. Please see page 20.
- 3. For pressure loss information see page 21 and 23. 5. Dimensions shown are subject to change.
- 4. For ordering information please see page 30.
- Dimensions shown are subject to change.
 Contact factory for certified prints when required.



IFC Series Y150F and Y300F Cast Steel Flanged Y-Strainers



Design Features:

- Strainers available with RF flanged (ANSI B16.5) or butt-weld (ANSI B16.25) end connections.
- Strainer body meets ASME B16.5 and ASME B16.34.
- One piece cast body.
- Strainers equipped with bolted cover flange that utilize a flat gasket seal.
- Bolted cover designed to meet the requirements of ASME Section VIII, Div.1, Appendix 2 and/or ASME B16.5.
- Upper and lower machined seats.
- 304 SS perforated screens are standard.
- Drain/Blow-off connection furnished with plug as standard.
- Generous screen area and properly proportioned straining chamber to minimize initial pressure drop while maximizing time between cleanings.

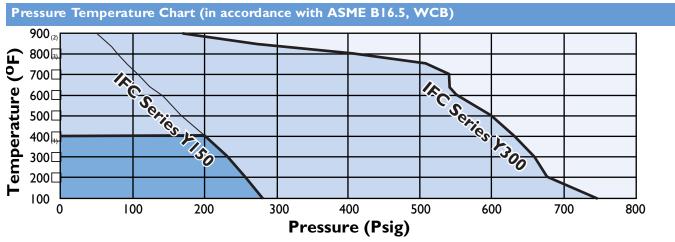
| Parts List and | Parts List and Standard Materials | | | | | | | |
|-----------------------|--|--|--|--|--|--|--|--|
| Part | Carbon Steel | Stainless Steel | | | | | | |
| Body | A216-WCB | A351-CF8M | | | | | | |
| Cover | A216-WCB | A351-CF8M | | | | | | |
| Screen I | 304SS | 304SS | | | | | | |
| Plug | A105 | A182-316 | | | | | | |
| Gasket ^{1,2} | Series Y150: Teflon Series Y300: 304 SS Spiral Wound | Series Y150: Teflon Series Y300: 304 SS Spiral Wound | | | | | | |
| Stud | A193-B7 | A193-B8-1 | | | | | | |
| Nut | A194-2H | A194-8 | | | | | | |

| Upper Pressure Limits (Non-Shock) | | | | | | |
|-----------------------------------|------------------|-------------------------|--|--|--|--|
| IFC Model (RF Flanged) | Body Material | M.A.W.P. psig (Bars) | | | | |
| Y150FSB | WCB | 285 (19.65) | | | | |
| Y150FSSB | CF8M | 275 (18.96) | | | | |
| Y300FSB | WCB | 740 (51.02) | | | | |
| Y300FSSB | CF8M | 720 (49.64) | | | | |

| Lower Temperature Limits | | | | | |
|-----------------------------------|-------------|--|--|--|--|
| Body Material Lower Limit ¡F (¡C) | | | | | |
| WCB | -20 (-28.9) | | | | |
| CF8M | -20 (-28.9) | | | | |

Notes: I. Recommended Spares.

- 2. Non-asbestos fabric gasket may be substituted at manufacturers option.
- 3. Also available in A352-LCC.



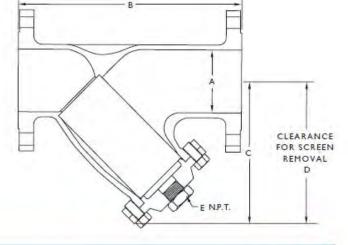
Notes: I. Teflon and blueguard limited to 400°F maximum sustained operating temperature.

- When operating IFC Series Y150 strainers at higher temperatures please consult factory.
- Graphite filled 304 SS Spiral Wound gaskets limited to 900°F in an oxidizing atmosphere.
 When operating IFC Series Y300 strainers at higher temperatures please consult factory.
- 3. Upon prolonged exposure to temperatures above 800°F, the carbide phase of carbon steel may be converted to graphite.



IFC Series Y150F and Y300F Cast Steel Flanged Y-Strainers

| Standard Screens | |
|------------------|-----------|
| Size range | Opening |
| 1/2" - 11/2" | 0.032 in. |
| 15mm - 40mm | 0.8mm |
| 2" - 3" | 0.045 in. |
| 50mm - 80mm | 1.2mm |
| 4" & larger | 0.125 in. |
| 100mm & larger | 3.2mm |



Note: Flanged end strainer shown.

Butt-weld end strainer dimensionally the same.

| Size I in (mm) | A in (mm) | | B in (mm) | | ir | C in (mm) | | D in (mm) | | E NPT ² in (mm) | | Weight Lb. (Kg.) | |
|---------------------------------|-----------------|------------|-----------------|-------------|-------------|-----------------|-------------|-----------------|-------------------------------|----------------------------------|------------|------------------------|--|
| | 150 | 300 | 150 | 300 | 150 | 300 | 150 | 300 | 150 | 300 | 150 | 300 | |
| 1/2" 15 | 0.5 13 | 0.5 | 6.00 152 | 6.50 165 | 3.88 99 | 4.25 108 | 4.75 121 | 5.75 146 | 8 | 1/ ₄ 8 | 5.5 2.5 | 8 3.6 | |
| 3/ ₄ " 20 | 0.75 19 | 0.75 19 | 7.00 178 | 7.75 197 | 4.25 108 | 5.00 127 | 5.75 146 | 6.75 171 | 3/8 10 | 3/8 10 | 6.5 | 6.4 | |
| l" 25 | 1.00 25 | 1.00 25 | 7.50 191 | 7.88 200 | 4.75 121 | 5.50 140 | 6.38 162 | 8.12 206 | 1/ ₂ 15 | 1/2 | 9 | 15 6.8 | |
| 11/2" | 1.50 | 1.50 | 9.00 | 10.50 | 5.63 | 7.00 | 9.00 | 10.25 | 1/2 | 1/2 | 12 | 32 | |
| 40 | 38 | 38 | 229 | 267 | 143 | 178 | 229 | 260 | 15 | | 5.5 | 15 | |
| 2" | 2.0 | 2.0 | 8.63 | 9.32 | 5.25 | 5.69 | 7.50 | 8.00 | 1/2 | 1/2 | 20 | 26 | |
| 50 | 51 | 51 | 219 | 236 | 133 | 145 | 191 | 203 | 15 | | 9 | 12 | |
| 2 ¹ / ₂ " | 2.5 | 2.5 | 10.25 | 10.88 | 7.50 | 7.19 | 10.50 | 10.25 | ³ / ₄ | 1 | 32 | 36 | |
| 65 | 64 | 64 | 260 | 276 | 191 | 183 | 267 | 260 | 20 | 25 | 14.5 | 79 | |
| 3" | 3.00 | 3.00 | 11.63 | 12.63 | 7.69 | 8.13 | 10.88 | 11.50 | 1 | 1 | 36 | 55 | |
| 80 | 76 | 76 | 295 | 320 | 195 | 207 | 276 | 292 | 25 | 25 | 16 | 25 | |
| 4" | 4.00 | 4.00 | 14.38 | 14.63 | 9.13 | 9.63 | 13.00 | 13.63 | 1 ¹ / ₂ | 1 ¹ / ₂ 40 | 61 | 88 | |
| 100 | 102 | 102 | 365 | 372 | 232 | 245 | 330 | 346 | 40 | | 28 | 40 | |
| 5" | 5.00 | 5.00 | 17.63 | 18.50 | 11.00 | 15.38 | 17.00 | 21.50 | 2 | 2 | 110 | 180 | |
| 125 | 127 | 127 | 448 | 470 | 279 | 391 | 432 | 546 | 50 | 50 | 50 | 82 | |
| 6" | 6.00 | 6.00 | 18.63 | 19.75 | 13.00 | 15.00 | 18.38 | 21.50 | 2 | 2 | 160 | 200 | |
| 150 | 152 | 152 | 473 | 502 | 330 | 381 | 467 | 546 | 50 | 50 | 73 | 91 | |
| 8" | 8.00 | 8.00 | 24.38 | 25.00 | 15.32 | 16.50 | 21.63 | 22.00 | 2 | 2 | 210 | 290 | |
| 200 | 203 | 203 | 619 | 635 | 389 | 419 | 549 | 559 | 50 | 50 | 95 | 132 | |
| 10" | 10.00 | 10.00 | 26.00 | 27.75 | 19.13 | 21.19 | 27.00 | 30.00 | 2 | 2 | 440 | 520 | |
| 250 | 254 | 254 | 660 | 705 | 486 | 538 | 686 | 762 | 50 | 50 | 200 | 236 | |
| 12" | 12.00 | 12.00 | 30.38 | 33.00 | 22.00 | 24.31 | 31.00 | 34.38 | 2 | 2 | 585 | 680 | |
| 300 | 305 | 305 | 772 | 838 | 559 | 617 | 787 | 873 | 50 | 50 | 265 | 308 | |

Notes: I. Other sizes available. Consult factory.

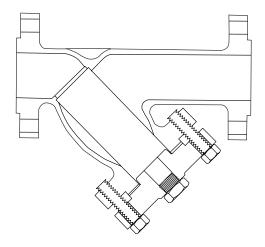
2. Other sizes and connection types available. Consult factory.

- I. For further optional features see page 19.
- Other perforations and screen materials available. Please see page 20.

- 3. For pressure loss information see page 21 and 23.
- 4. For ordering information please see page 30.
- Dimensions shown are subject to change.
 Contact factory for certified prints when required.



IFC Series Y600F, Y900F and Y1500F Cast Steel Flanged Y-Strainers



Design Features:

- Strainers available with RF or RTJ flanged (ANSI B16.5) or butt-weld (ANSI B16.25) end connections.
- Strainer body meets ASME B16.5 and ASME B16.34.
- One piece cast body.
- Body cover flanges are in dimensional accordance with ASME B16.5.
- Strainers equipped with a bolted cover flange.
- Bolted cover designed to meet the requirements of ASME Section VIII, Div. I, Appendix 2 and/or ASME B16.5.
- Upper and lower machined seats.
- 304 SS perforated screens are standard.
- Drain/Blow-off connection furnished with plug as standard (IFC Series Y600 Only).
- Generous screen area and properly proportioned straining chamber to minimize initial pressure drop while maximizing time between cleanings.

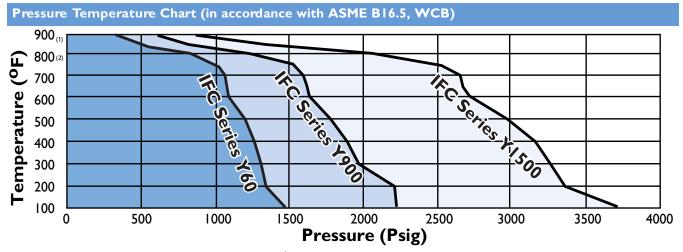
| Parts List and Standard Materials | | | | | | |
|-----------------------------------|------------------------|------------------------|--|--|--|--|
| Part | Carbon Steel | Stainless Steel | | | | |
| Body | A216-WCB | A351-CF8M | | | | |
| Cover ² | A216-WCB | A351-CF8M | | | | |
| Screen I | 304 SS | 304 SS | | | | |
| Plug | A105 | A182-316 | | | | |
| Gasket ¹ | 304 SS Spiral Wound | 304 SS Spiral Wound | | | | |
| Stud | A193-B7 | A193-B8-1 | | | | |
| Nut | A194-2H | A194-8 | | | | |

Notes: I. Recommended Spares.

- 2. Materials of equivalent strength may be substituted at manufacturer's option.
- 3. Also available with ASTM A217-WC6 body and cover.

| Upper Pressure Limits (Non-Shock) | | | | | | |
|-----------------------------------|----------|---------------|--|--|--|--|
| IFC Model | Body | M.A.W.P. | | | | |
| (Flanged) | Material | psig (Bars) | | | | |
| Y600FSB | WCB | 1480 (102.04) | | | | |
| Y600FS2CMB | WC6 | 1500 (103.42) | | | | |
| Y600FSSB | CF8M | 1440 (99.28) | | | | |
| Y900FSB | WCB | 2220 (153.06) | | | | |
| Y900F52CMB | WC6 | 2250 (155.12) | | | | |
| Y900FSSB | CF8M | 2160 (148.93) | | | | |
| Y1500FSB | WCB | 3705 (255.45) | | | | |
| Y1500F52CMB | WC6 | 3750 (258.55) | | | | |
| Y1500FSSB | CF8M | 3600 (248.21) | | | | |

| Upper Pressure l | Limits (Non-Shock) |
|----------------------|---------------------|
| Body Material | Lower Limit ¡F (¡C) |
| WCB, WC6 | -20 (-28.9) |
| CF8M | -20 (-28.9) |



Notes: I. Graphite filled 304 SS Spiral Wound gaskets limited to 900°F in an oxidizing atmosphere.

When operating strainers at higher temperatures please consult factory.

2. Upon prolonged exposure to temperatures above 800°F, the carbide phase of carbon steel may be converted to graphite.

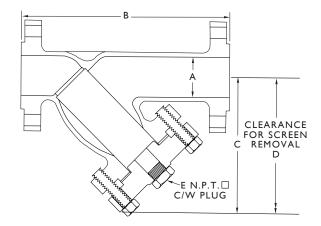


IFC Series Y600F, Y900F and Y1500F Cast Steel Flanged Y-Strainers

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

Note: Flanged end strainer shown.

Butt-weld end strainer dimensionally the same.



| Dimensi | onal Data (Class | 600) | | | | |
|-------------------|------------------|----------------|-------|-------|-------------------------------|--------|
| Size ^I | A | B ² | C | D | E NPT ³ | Weight |
| in | in | in | in | in | in | Lb. |
| (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (Kg.) |
| 2" | 2.00 | 12.50 | 8.00 | 9.00 | 1/ ₂ | 45 |
| 50 | 51 | 318 | 203 | 229 | 15 | 20 |
| 3" | 3.00 | 15.63 | 10.13 | 11.38 | 1 ¹ / ₄ | 109 |
| 80 | 76 | 397 | 257 | 289 | 32 | 49 |
| 4" | 4.00 | 20.00 | 13.00 | 14.50 | 1 ¹ / ₂ | 197 |
| 100 | 102 | 508 | 330 | 368 | 40 | 89 |
| 6" | 6.00 | 25.50 | 17.00 | 19.25 | 2 | 409 |
| 150 | 152 | 648 | 432 | 489 | 50 | 186 |
| 8" | 7.88 | 30.00 | 21.38 | 23.00 | 2 | 710 |
| 200 | 200 | 330 | 543 | 584 | 50 | 322 |
| 10" | 9.75 | 37.50 | 24.75 | 27.75 | 2 | 1430 |
| 250 | 248 | 953 | 629 | 705 | 50 | 549 |
| 12" | 11.75 | 45.50 | 36.00 | 41.00 | 2 | 1750 |
| 300 | 298 | 1156 | 914 | 1041 | 50 | 794 |

| Dimensi | Dimensional Data (Classes 900, 1500) *use columns from chart above | | | | | | | | | | | |
|---------------------------------------|--|-------------|--------------|---------------|--------------|--------------|--------------|--------------|------|-------|-------------|-------------|
| | 900Y | 1500Y | 900Y | 1500Y | 900Y | 1500Y | 900Y | 1500Y | 900Y | 1500Y | 900Y | 1500Y |
| 2" 50 | 1.87 48 | 1.87 48 | 16.25 413 | 16.25 413 | 10.50 268 | 10.50 268 | 14.88 378 | 14.88 378 | OPT. | OPT. | 125 57 | 125 57 |
| 2 ¹ / ₂ " 65 | 2.25 57 | 2.25 57 | 19.38 492 | 19.38 492 | 13.19 335 | 13.19 335 | 18.63 473 | 18.63 473 | OPT. | OPT. | 145 66 | 145 66 |
| 3" 80 | 2.87 73 | 2.75 73 | 20.25 514 | 22.25 565 | 12.75 324 | 14.50 368 | 18.00 457 | 20.50 521 | OPT. | OPT. | 163 74 | 234 106 |
| 4" 100 | 3.87 98 | 3.63 92 | 23.25 541 | 25.25 641 | 15.00 381 | 16.38 416 | 21.25 539 | 23.00 584 | OPT. | OPT. | 253 115 | 355 161 |
| 6" 150 | 5.75 146 | 5.38 137 | 27.75 705 | 32.00 813 | 18.88 480 | 21.69 551 | 26.65 677 | 30.50 775 | OPT. | OPT. | 550 250 | 812 368 |
| 8" 200 | 7.50 191 | 7.00 178 | 34.50 876 | 41.00 1041 | 22.63 575 | 27.00 686 | 32.00 813 | 39.00 991 | OPT. | OPT. | 1075 488 | 1725 782 |

Notes:

- I. Other sizes available.
- 2. Consult factory for strainers with buttweld ends.
- 3a. Other sizes and connection types available. Consult factory.
- 3b.IFC Series Y900 and Y1500 strainers are not furnished with a drain/blow-down connection. If required consult factory.



ISLIP FLOW CONTROLS Inc.

Available Optional Features

The following optional features are available on all or most of IFC Y-Strainers. Please consult factory if required feature not shown.

| Features & Availability | |
|-------------------------------------|--|
| Feature | Description of Availability |
| Screen openings | Range 5 micron to $^{1}/_{2}$ " perf. |
| Screen materials | Carbon steel, stainless steel (304/316 and L grades), alloy 20, monel 400, hastalloy C, Titanium, etc. |
| Screen construction | Perforated plate, mesh and wedge wire. |
| Gaskets | Any material commercially available. |
| Special body materials | Consult factory. |
| Special external coatings | All types of applied or baked on coatings available. |
| Special Internal coatings / linings | All types of applied or baked on coatings/linings available. |
| Oxygen service | Specially cleaned and packed - performed on request. |
| Silicon free contamination | Specially cleaned and packed - performed on request. |
| Sour Service | Qualified per NACE MR0175 (rev. 1994). |
| Canadian Registration (CRN) | Available on most models in province of installation. |
| Special NDE | See documented testing below. |

Note: I. Strainer size may effect the ability to apply certain coatings and linings.

Documented Testing

All equipment manufactured by IFC is tested to customer and code requirements. Only superior quality castings from approved foundries are used in the production of IFC cast Y-Strainers. Full material traceability is available for all our strainers.

Please contact our QA/QC department for additional information and clarification.

| Description of Test/Process | Applicable Standards | Extent of Test | | |
|------------------------------------|--|-----------------------------|--|--|
| Hydrostatic and pneumatic | ASME code employed in shell design (i.e. ASME B16.5) | 100% | | |
| | Per UG-99, UG-100, UG-101 of ASME Section VIII, Div. I | Upon customers request | | |
| | MSS-SP61 and customers specs | Upon customers request | | |
| Visual and Dimensional | Applicable ASME Standards | 100% | | |
| Hardness | NACE MR01-75 | Upon customers request | | |
| X-Ray | ASME Section VIII, Div. I ASME B16.34 - Annex B | Upon customers request | | |
| Dye Penetrant | ASME B16.34 - Annex D | 100% Upon customers request | | |
| Magnetic Particle | ASME B16.34 - Annex C | 100% Upon customers request | | |
| Ultrasonic | ASME Section VIII, Div. I | Upon customers request | | |



Engineering Data Screen Openings for Y-Strainers

Factors To Consider

Purpose

If the basket strainer is being used for protection rather than direct filtration, IFC's standard screens will suffice in most applications.

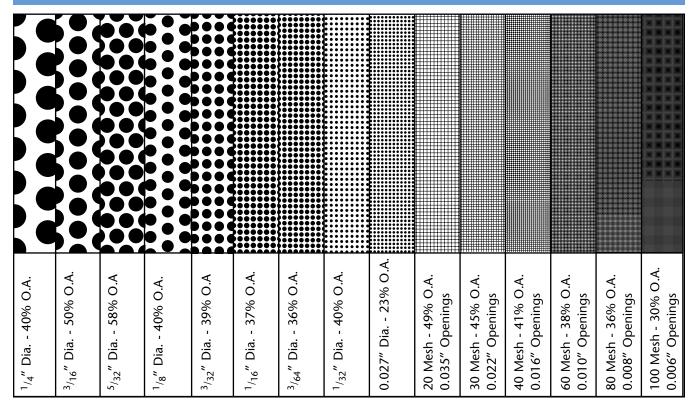
Service

With services that require extremely sturdy screens, such as high pressure/ temperature applications or services with high viscosities, IFC recommends that perforated screens without mesh liners be used. If mesh is required to obtain a certain level of filtration, then IFC recommends a trapped perf./mesh/perf. combination.

Filtration Level

When choosing a perf. or a mesh/perf. combination attention should be given to ensure overstraining does not occur. As a general rule the specified level of filtration should be no smaller than half the size of the particle to be removed. If too fine a filtration is specified the pressure drop through the strainer will increase very rapidly, possibly causing damage to the basket.

Screen Types/Dimensions



Notes: I. Screen openings other than those shown above are readily available.

IFC inventories various mesh sizes as fine as 5 micron and perforated plate as coarse as 1/2" Dia.

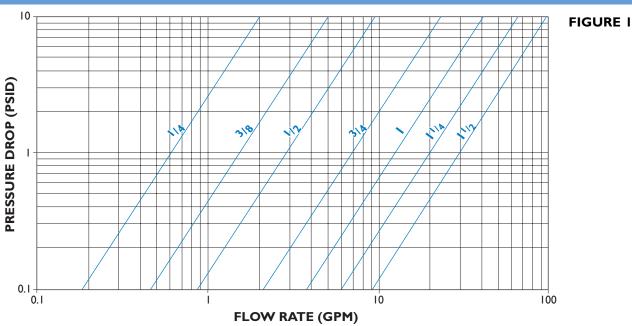
^{2.} Screens are available in a wide range of materials.

IFC inventories various screen material in carbon steel, stainless steel (304, 316), alloy 20, monel 400, hastalloy C and titanium grade 2.

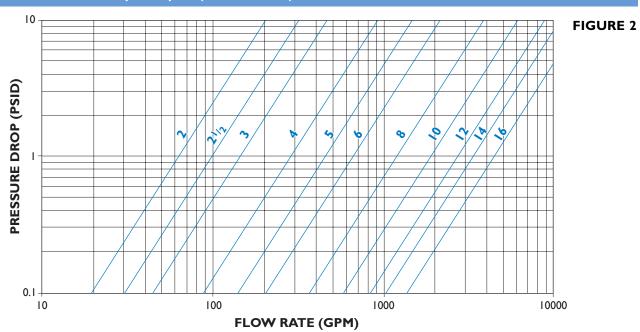
^{3.} Custom manufactured screens are available upon request. Please consult factory.

Engineering Data Y-Strainer Pressure Drop — Liquids









Notes: I. Pressure drop curves are based on water flow with standard screens.

See page 22 for correction factors to be used with other fluids and/or screen openings.



Engineering Data Screen Correction Factor Chart

For Non-Standard and Mesh Lined Screens

*Multiply values obtained from figure 1 thru 4 by the appropriate values shown below

Chart #1

Chart #3

30, 40, Mesh 60 to 300 Mesh

1.5

2.5

6.5

11.5

25

50

100

Lined (MF)

| Size | SCREEN OPENINGS | | | | | | | | |
|--------------|-----------------|------|-------------------------|-----|------|--------------------------|------|-----|--|
| Range | | | erforated l Material | | | ard screens Open Area | | | |
| | 60% | 50% | 40% | 30% | 20% | 50% | 40% | 30% | |
| 1/4" - 11/2" | 0.45 | 0.55 | 0.7 | I | 1.15 | 1.05 | 1.05 | 1.2 | |
| 2" - 16" | 0.65 | 0.8 | 1 | 1.4 | 2.15 | 1.05 | 1.05 | 1.2 | |

Notes: I. See page 20 for % Open Area's of IFC inventoried perforated plate.

- 2. Standard screens for sizes 1/4" to 11/2" is approximately a 30% open area screen media.
- 3. Standard screens for sizes 2" and larger is approximately a 40% open area screen media.

Example:

Strainer Size: $1^{1}/_{4}$ " Filtration: 100 Mesh lined $1/_{32}$ " Perf. Flow rate: 30 GPM Service: Water

- A) Using figure I the pressure drop is determined to be I.0 psid with IFC's standard screen.
- B) Looking at page 20 we find that the % Open area of 100 mesh is 30%.
- **C)** Using chart I we read the correction factor to be 1.2 for 100 mesh lined $\frac{1}{32}$ perf.

Lined (MF)

Screen Loss Factor

1.4

2.2

4

15

30

Lined (MF)

D) Total pressure drop equals $1.0 \times 1.2 = 1.2$ psid clean.

Perfalone 20 Mesh

1.3

2

3

4.5

10

15

(PF)

1.15

1.25

1.4

1.5

1.6

1.7

Viscosity and Density Correction Factor Chart

^{*} For use see instructions below.

| | Chart "Z |
|--------------|-----------|
| Size | Component |
| Range | Factor |
| | (CF) |
| 1/4" - 11/2" | 0.25 |
| 2" - 16" | 0.35 |

How to Use:

- Using figures 1 or 2 determine the pressure drop (PI) through the strainer with water flow and standard screens.
- 2) If non-standard screens (i.e. 40 mesh, etc.) are being used apply factors in
 - Chart #I to determine corrected pressure drop (P2).
- 0 mesh, 2000 | 15.2 | 1.9 30 60 etcd pressure drop (P2).
- 3) Multiply PI or P2 (is used) by the specific gravity of the fluid actually flowing through the strainer to get P3.

Viscosity

Cp

10

25

100

200

500

1000

Body Loss

Factor

(BF)

1.2

1.6

2.2

4.4

8

- 4) Using Chart #2 multiply P3 by the appropriate Component Factor (CF) to get P4.
- **5)** Let P5 = P3 P4.
- 6) Multiply P4 by the appropriate Body Loss Factor (BF) in Chart #3 to get P6.
- 7) Multiply P5 by the appropriate Screen Loss factor (PF or MF) in Chart #3 to get P7.
- **8)** Total pressure drop P8 = P6 + P7.

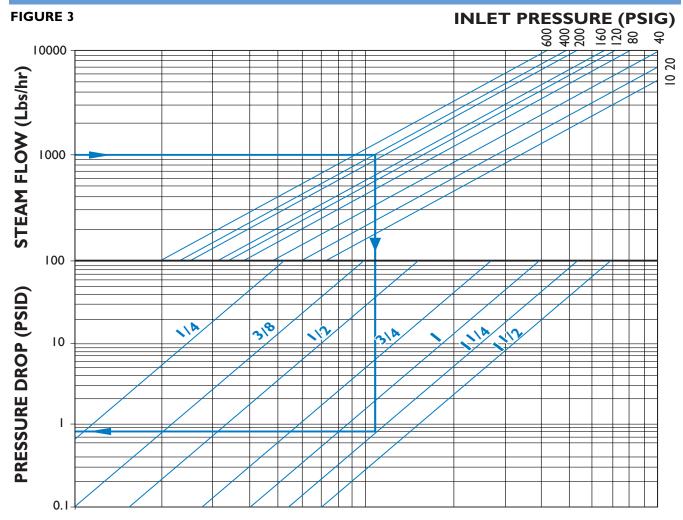
Example:

Strainer Size: $1^{1}/_{4}$ " Filtration: 100 Mesh lined $1/_{32}$ " Perf. Flow rate: 30 GPM

Specific Gravity: 1 **Viscosity:** 25 cP

- A) As shown in the above example, the corrected pressure drop (P2) = 1.2 psid
- **B)** Since S.G. = 1, P3 = P2 = 1.2 psid
- **C)** Using Chart #2 P4 = $0.25 \times P3 = 0.30 \text{ psid}$
- **D)** P5 = 1.2 0.3 = 0.90 psid
- **E)** Using Chart #3 P6 = $0.3 \times 1.2 = 0.36$ psid
- **F)** Again using Chart #3 P7 = $0.9 \times 2.5 = 2.25$ psid
- **G)** Total pressure drop P8 = 0.36 + 2.25 = 2.61 psid

Y-Strainer Pressure Drop — Saturated Steam (Sizes 1/4 - 11/2)



Notes: 1. Pressure drop curve is based on saturated steam flow with standard screens.

See page 20 for correction factors to be used with other fluids and/or screen openings.

2. Chart can be used for air and gas by using the following formula:

$$Qs = 0.138Qg \sqrt{(460+t) \text{ s.g.}} \begin{cases} \frac{DP}{P2} = 1.0^{t} \\ \frac{1}{P2} = 1.0^{t} \end{cases}$$

where;

Qs = Equivalent Steam Flow, lbs./hr.

Qg = Air or gas flow, SCFM.

: = Temperature, °F.

s.g. = Specific gravity (s.g. = I for air.)

DP = Pressure Drop, psid

P2 = Outlet Pressure

Example:

Service: Saturated Steam Flow

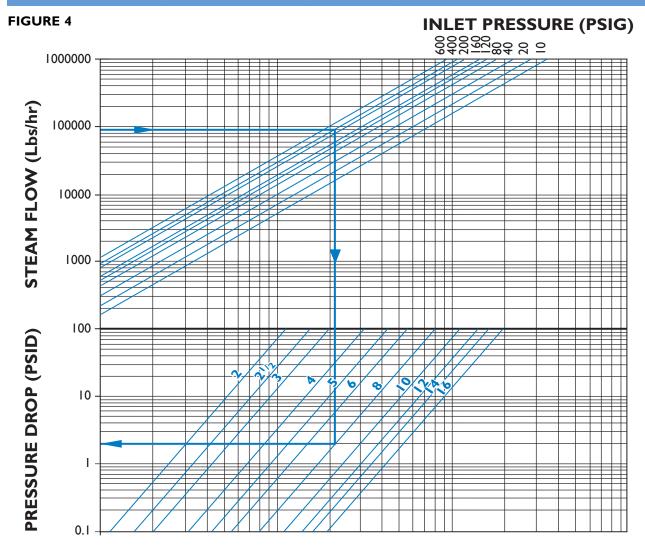
Pressure: 400 psig **Steam Flow:** 1000 Lbs/hr

Size: 11/4"

- · Locate steam flow
- Follow horizontal line to required pressure.
- Follow vertical line downwards to required strainer size.
- Follow horizontal line to read pressure drop.
- Pressure drop equals 0.8 psid.

Y-Strainer Pressure Drop — Saturated Steam (Sizes 2 to 16)

Y-Strainer Pressure Drop — Saturated Steam (Sizes 2 - 16)



Notes: 1. Pressure drop curve is based on saturated steam flow with standard screens.

See page 22 for correction factors to be used with other screen openings.

2. Chart can be used for air and gas by using the following formula:

$$Qs = 0.138Qg \sqrt{(460+t) \text{ s.g.}} \begin{cases} \frac{DP}{P_2} | 1.0 \\ P_2 \\ P_3 | P_4 | P_4 | P_5 | P_6 | P_6$$

where;

Qs = Equivalent Steam Flow, lbs./hr.

Qg = Air or gas flow, SCFM.

t = Temperature, °F.

s.g. = Specific gravity (s.g. = I for air.)

DP = Pressure Drop, psid

P2 = Outlet Pressure

Example:

Service: Saturated Steam Flow

Pressure: 400 psig **Steam Flow:** 90,000 Lbs/hr

Size: 8"

· Locate steam flow

• Follow horizontal line to required pressure.

• Follow vertical line downwards to required strainer size.

• Follow horizontal line to read pressure drop.

• Pressure drop equals 2.0 psid.



Engineering Data Correction Factors For Clogged Screens

Correction Factors For Clogged Screens

* Multiply values obtained from figures 1 thru 4 and Charts #1, #2 and #3 (if used) by the appropriate values shown below

| ha | r | f # | #2 |
|----|---|-----|----|
| | | | |

| Ratio of Free Screen Area to Pipe Area | | | | | | | | |
|--|------|------|------|------|------|------|------|--|
| % Clogged | 10:1 | 8: I | 6: I | 4: I | 3:I | 2:1 | 1:1 | |
| 10% | - | - | - | - | - | - | 3.15 | |
| 20% | - | - | - | - | - | 1.15 | 3.9 | |
| 30% | - | - | - | - | - | 1.4 | 5 | |
| 40% | - | - | - | - | - | 1.8 | 6.65 | |
| 50% | - | - | - | - | 1.25 | 2.5 | 9.45 | |
| 60% | - | - | - | 1.15 | 1.8 | 3.7 | 14.5 | |
| 70% | - | - | - | 1.75 | 2.95 | 6.4 | 26 | |
| 80% | - | 1.1 | 1.75 | 3.6 | 6.25 | 14 | 58 | |
| 90% | 2.3 | 3.45 | 6 | 13.5 | 24 | 55 | - | |

Notes: I. See page 27 for the Ratio of Free Area to Pipe Area for IFC Y-Strainers equipped with standard screens.

$R = \frac{Ag \times OA}{100Ap}$

where;

R = Ratio Free Area to Pipe Area

Ag = Gross screen area, sq. in. (See page 27)

OA = Open area of screen media, % (See page 20, i.e. 1/8" perf. = 40%)

Ap = Nominal area of pipe fitting, sq. in. (See page 27)

Example #1:

Strainer Size: 4"
IFC Series: Y150F
Filtration: 1/8" Perf.
Flow rate: 300 GPM
Service: Water
% Clogged: 60%

- **A)** Using Figure #I the pressure drop is determined to be 1.1 psid with IFC's standard screen.
- **B)** Looking at page 27 the Ratio of Free Area to Pipe Area for a 4" IFC series Y I 50F strainer is equal to 2.72:1 (3:1 approx.).
- C) Using Chart #4 we read the correction factor to be 1.80 at 60% clogged.
- **D)** Total pressure drop equals $1.1 \times 1.8 = 1.98$ psid when 60% clogged.

Example #2:

Strainer Size: 12"

IFC Series: Y300F

Filtration: 3/16" Perf.

Flow rate: 2000 GPM

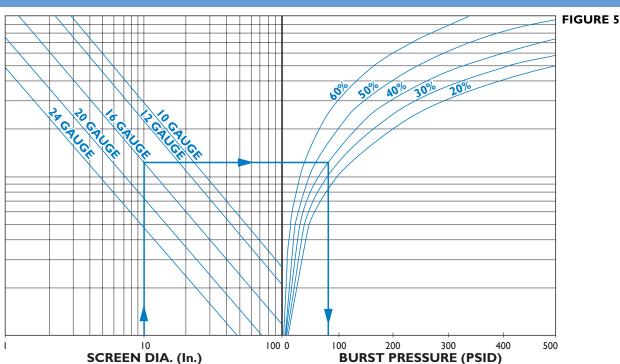
Service: Water

% Clogged: 70%

- A) Using Figure #1 the pressure drop is determined to be 0.54 psid with IFC's standard screen.
- **B)** Looking at page 20 we find that the % Open area (OA) of $\frac{3}{16}$ " Perf. is 50%.
- **C)** Using Chart #I we read the correction factor to be 0.8 for $\frac{3}{16}$ " Perf.
- **D)** Total clean pressure drop equals $0.54 \times 0.8 = 0.43$ psid.
- **E)** Since a non-standard screen is being used we must calculate the Ratio Free Area to Pipe Area using the above formula.
- **F)** Looking at page 27 we find AG = 753.12 in2,Ap = 113.10 in2.
- **G)** The Ratio Free Area to Pipe Area is calculated as 3.33:1. (3:1 approx.)
- **H)** Using Chart #4 we read the correction factor to be 2.95 at 70% clogged.
- 1) Total pressure drop equals $0.43 \times 2.95 = 1.27$ psid when 70% clogged.

^{2.} For screens other than IFC's standard use the following formula to calculate the Ratio Free Area to Pipe Area.

Y-Strainer Screen Burst Pressure



Note: I. The above chart is for use with perforated plate and based on the formula:

$$P = \frac{St \square}{R - 0.4t}$$

SOURCE: ASME Section VIII, Div. I, Appendix I.

P = Burst pressure, psid

S = Reduced allowable stress, psi

t = Thickness of perforated plate, in.

R = Outside radius of screen, in.

- 2. The above chart is based on a screen material of stainless steel and is valid for operating temperatures up to 100°F The chart may be used for higher temperatures however it will result in a safety factor reduction. (At 100°F the charts safety factor is approximately two (2), at 1000°F the chart safety factor is reduced to approximately one (1). It is the responsibility of the user to determine an acceptable safety factor.)
- 3. The chart may be used for carbon steel at an approximate 25% reduction in safety factor.
- 4. See page 20 for % Open Area's of IFC's inventoried perforated plate.

Example:

Strainer Size: 10"

Screen Thickness: 16 Gauge

Screen Perforations: 0.125" (40% O.A.)

- Locate screen diameter (assume a 10" diameter screen)
- Follow vertical line to gauge thickness.
- Follow horizontal line to required perforation open area.
- Follow vertical line downwards to read burst pressure.
- Burst pressure equals 80 psid approx.



Engineering Data Y-Strainer Effective Screen Area

| FC Series | Pipe Size (In.) | | Nominal Area of Pipe Fitting (Sq. In.) | Gross Screen Area (Sq. In.) | Free Area (Sq. In.) | Ratio Free Area to Pipe Area | IFC Series | Pipe Size (In.) | Std. Opening (In.) | Nominal Area of Pipe Fitting (Sq. In.) | Gross Screen Area (Sq. In.) | Free Area (Sq. In.) | Ratio Free Area to Pipe Area |
|----------------|-----------------------------|--------------------|---|--------------------------------------|---------------------------|---------------------------------------|----------------|--------------------|--------------------------|---|--------------------------------------|---------------------------|---------------------------------------|
| (250TIT | 1/4 | 0.032 | 0.05 | 3.64 | 1.02 | 20.79 | Y250F | 2 | 0.045 | 3.14 | 35.64 | 12.83 | 4.08 |
| 250TIT | ³ / ₈ | 0.032 | 0.11 | 3.64 | 1.02 | 9.24 | Y250F | 21/2 | 0.045 | 4.91 | 44.33 | 15.96 | 3.25 |
| 250TIT | 1 _{/2} | 0.032 | 0.20 | 4.05 | 1.13 | 5.78 | Y250F | 3 | 0.045 | 7.07 | 56.45 | 20.32 | 2.88 |
| '250TIT | 3/4 | 0.032 | 0.44 | 6.63 | 1.86 | 4.20 | Y250F | 4 | 0.125 | 12.57 | 98.91 | 39.56 | 3.15 |
| 250TIT | T. | 0.032 | 0.79 | 9.06 | 2.54 | 3.23 | Y250F | 5 | 0.125 | 19.63 | 147.11 | 58.85 | 3.00 |
| (250TIT | 11/4 | 0.032 | 1.23 | 12.14 | 3.40 | 2.77 | Y250F | 6 | 0.125 | 28.27 | 197.92 | 79.17 | 2.80 |
| 250TIT | 11/2 | 0.032 | 1.77 | 17.87 | 5.00 | 2.83 | Y250F | 8 | 0.125 | 50.27 | 420.97 | 168.39 | 3.35 |
| (250TIT | 2 | 0.032 | 3.14 | 30.07 | 8.42 | 2.68 | Y250F | 10 | 0.125 | 78.54 | 645.99 | 258.40 | 3.29 |
| (250TIT | 21/2 | 0.045 | 4.91 | 45.16 | 16.26 | 3.31 | Y250F | 12 | 0.125 | 113.10 | 876.70 | 350.68 | 3.10 |
| 250TIT | 3 | 0.045 | 7.07 | 60.30 | 21.71 | 3.07 | Y250F | 14 | 0.125 | 137.89 | 1186.34 | 474.54 | 3.44 |
| /I25TBT | 1/4 | 0.032 | 0.05 | 4.71 | 1.32 | 26.38 | YI50F | 1/2 | 0.032 | 0.20 | 5.91 | 1.65 | 8.43 |
| 125TBT | 3/8 | 0.032 | 0.11 | 4.71 | 1.32 | 11.99 | Y150F | 3/4 | 0.032 | 0.44 | 8.97 | 2.51 | 5.69 |
| /I25TBT | 1/2 | 0.032 | 0.20 | 4.71 | 1.32 | 6.59 | Y150F | T | 0.032 | 0.79 | 12.71 | 3.56 | 4.53 |
| 125TBT | 3/4 | 0.032 | 0.44 | 7.22 | 2.02 | 4.59 | Y150F | 11/2 | 0.032 | 1.77 | 23.01 | 6.44 | 3.65 |
| 125TBT | | 0.032 | 0.79 | 9.33 | 2.61 | 3.31 | Y150F | 2 | 0.045 | 3.14 | 28.27 | 10.18 | 3.24 |
| 125TBT | 11/4 | 0.032 | 1.23 | 13.53 | 3.79 | 3.08 | YI50F | 21/2 | 0.045 | 4.91 | 50.76 | 18.27 | 3.72 |
| 125TBT | 11/2 | 0.032 | 1.77 | 19.25 | 5.39 | 3.05 | Y150F | 3 | 0.125 | 7.07 | 62.59 | 25.03 | 3.54 |
| 125TBT | 2 | 0.032 | 3.14 | 33.34 | 9.34 | 2.25 | Y150F | 4 | 0.125 | 12.57 | 85.34 | 34.14 | 2.72 |
| 125TBT | 21/2 | 0.045 | 4.91 | 35.52 | 12.79 | 2.60 | Y150F | 6 | 0.125 | 28.27 | 210.88 | 84.35 | 2.98 |
| 125TBT | | 0.045 | 7.07 | 48.55 | 17.48 | 2.47 | Y150F | 8 | 0.125 | 50.27 | 323.98 | 129.59 | 2.58 |
| | | | | | | | YI50F | 10 | 0.125 | 78.54 | 513.21 | 205.28 | 2.61 |
| 250TBT | I _{/2} | 0.032 | 0.20 | 2.80 | 0.78 | 3.99 | Y150F | 12 | 0.125 | 113.10 | 690.41 | 276.17 | 2.44 |
| 250TBT | | 0.032 | 0.44 | 7.81 | 2.19 | 4.95 | | | | | | | |
| 250TBT | T. | 0.032 | 0.79 | 8.76 | 2.45 | 3.12 | Y300F | 1/2 | 0.032 | 0.20 | 6.75 | 1.89 | 9.45 |
| 250TBT | 11/4 | 0.032 | 1.23 | 14.91 | 4.18 | 3.40 | Y300F | 3/4 | 0.032 | 0.44 | 10.30 | 2.88 | 6.55 |
| 250TBT | | 0.032 | 1.77 | 20.98 | 5.88 | 3.32 | Y300F | I | 0.032 | 0.79 | 14.99 | 4.20 | 5.32 |
| 250TBT | | 0.032 | 3.14 | 30.96 | 8.67 | 2.76 | Y300F | 11/2 | 0.032 | 1.77 | 30.42 | 8.52 | 4.81 |
| | | | | | | | Y300F | 2 | 0.045 | 3.14 | 29.85 | 10.74 | 3.42 |
| 150/Y300 | 1/2 | 0.032 | 0.20 | 3.11 | 0.87 | 4.44 | Y300F | 21/2 | 0.045 | 4.91 | 48.81 | 17.57 | 3.58 |
| 150/Y300 | | 0.032 | 0.44 | 5.17 | 1.45 | 3.28 | Y300F | 3 2 | 0.125 | 7.07 | 68.22 | 27.29 | 3.86 |
| 150/Y300 | • | 0.032 | 0.79 | 7.85 | 2.20 | 2.80 | Y300F | 4 | 0.125 | 12.57 | 102.90 | 41.16 | 3.28 |
| 150/Y300 | | 0.032 | 1.23 | 10.01 | 2.80 | 2.29 | Y300F | 6 | 0.125 | 28.27 | 230.83 | 92.33 | 3.27 |
| 150/Y300 | | 0.032 | 1.77 | 14.28 | 4.00 | 2.26 | Y300F | 8 | 0.125 | 50.27 | 336.64 | 134.66 | 2.68 |
| 150/Y300 | | 0.032 | 3.14 | 21.35 | 5.98 | 1.90 | Y300F | 10 | 0.125 | 78.54 | 559.50 | 223.80 | 2.85 |
| | | | 0.20 | 2.82 | 0.79 | 4.03 | Y300F | 12 | 0.125 | 113.10 | 753.12 | 301.25 | 2.66 |
| (600 | 1/2 | 0.032 | 0.20 | | | | V/00F | 2 | 0.045 | 2.14 | 20.17 | 1410 | 4.40 |
| '600 '600 | 3/4 | 0.032 | 0.44 | 4.15 | 1.16 | 2.63 | Y600F | 2 | 0.045 | 3.14 4.91 | 39.17 | 14.10 | 4.49 |
| | I II | 0.032 | 0.79 1.23 | 8.14 | 2.28 3.32 | 2.90 2.70 | Y600F | 21/2 | 0.045 | | 56.45 74.96 | 20.32 | 4.14 |
| 600 7400 | 11/4 | | | 11.85 | | | Y600F Y600F | 3 4 | 0.125 0.125 | 7.07 12.57 | | 29.98 | 4.24 4.09 |
| 600 600 | 2 | 0.032 | 1.77 3.14 | 16.59 27.10 | 4.65 9.75 | 2.63 3.11 | Y600F | 6 | | | 128.41 255.94 | 51.37 102.38 | 3.62 |
| 600 | _ | 0.043 | 3.14 | 27.10 | 7.73 | J. 1 1 | Y600F | | 0.125 0.125 | 28.27 48.77 | 403.57 | 161.43 | 3.62 |
| 1500 | L | 0.032 | 0.20 | 5.08 | 1.42 | 7.25 | Y600F | 8 10 | 0.125 | 48.77 74.66 | 602.08 | 240.83 | 3.31 |
| 1500 | 1/2 3/4 | 0.032 | 0.44 | 7.11 | 1.42 | 4.51 | Y600F | 12 | 0.125 | 108.43 | 820.18 | 328.07 | 3.23 |
| 1500 | I | 0.032 | 0.79 | 11.90 | 3.33 | 4.51 | IOUUF | 14 | V.123 | 100.73 | 020.10 | 320.07 | 3.03 |
| 1500 | | 0.032 | 1.23 | 23.32 | 6.53 | 5.32 | Y900F | 2 | 0.045 | 2.78 | 49.06 | 1744 | 6.36 |
| | 11/4 | 0.032 | 1.23 | 23.32 | | 3.69 | Y900F Y900F | 3 | 0.045 | 6.51 | | 17.66 42.98 | 6.60 |
| ′1500 ′1500 | 2 | 0.032 | 3.14 | 29.85 | 6.52 | | Y900F Y900F | | 0.125 | 11.82 | 107.45 152.93 | | 5.17 |
| 1300 | _ | U.U 1 3 | 3.14 | 47.03 | 10.75 | 3.42 | | 4 | | | | 61.17 | |
| 125F | 2 | 0.045 | 3.14 | 30.07 | 10.02 | 3.45 | Y900F | 6 | 0.125 | 25.97 44.18 | 279.99 | 112.00 | 4.31 |
| | | 0.045 | | | 10.82 | | Y900F | 8 | 0.125 | 77.10 | 454.60 | 181.84 | 4.12 |
| 125F | 21/2 | 0.045 | 4.91 | 44.33 | 15.96 | 3.25 | VIENNE | 2 | 0.045 | 2 70 | 19.04 | 1741 | 4.24 |
| 125F | 3 | 0.045 | 7.07 | 56.45 | 20.32 | 2.88 | Y1500F | | 0.045 | 2.78 | 49.06 | 17.66 | 6.36 |
| 125F | 4 | 0.125 | 12.57 | 98.91 | 39.56 | 3.15 | Y1500F | | 0.125 | 5.94 | 107.45 | 42.98 | 7.24 |
| 125F | 5 | 0.125 | 19.63 | 147.11 | 58.85 | 3.00 | Y1500F | | 0.125 | 10.29 | 155.17 | 62.07 | 6.03 |
| 125F | 6 | 0.125 | 28.27 | 179.19 | 71.68 | 2.54 | Y1500F | О | 0.125 | 22.73 | 307.12 | 122.85 | 5.40 |
| 125F | 8 | 0.125 | 50.27 | 334.38 | 133.75 | 2.66 | | | | | | | |
| 125F | 10 | 0.125 | 78.54 | 505.21 | 202.08 | 2.57 | Notes | | | trainers with s | | | , |
| 125F | 12 | 0.125 | 113.10 | 665.77 | 266.31 | 2.35 | | | | e Area may be | increased b | by changing | perf. stagg |
| 125F | 14 | 0.125 | 137.89 | 1186.34 | 474.54 | 3.44 | | or by usi | ng mesh. | | | | |

^{3.} In many cases the specified screen burst pressure limits the maximum value for the Ratio Free Area to Pipe Area.



Check List and Suggested Specifications For ISLIP Flow Controls Inc.

Strainer Check List: When selecting a strainer, please take the factors listed below into account. This will assist us when recommending a strainer to suit your specific requirements. Please photocopy this page and fill out the pertinent information.

| I. Fluid to be strained | Suggested Specifications |
|--|--|
| 2. Flow rate | The strainer shall be a Y-Type and have |
| 3. Density of fluid | (size) inlet/outlet connections. The end connections shall be |
| 4.Viscosity of fluid | (flanged, threaded etc.) and the body shall be complete with |
| 5. Fluid working pressure | a (bolted, quick-opening, etc.) cover |
| Maximum pressure | assembly. The strainer shall be suitable for °F operating |
| 6. Fluid working temp. | |
| Maximum temp. | - (body material) while the screen shall be constructed of |
| 7. Preferred material of strainer construction | (basket or screen material).A mesh lining |
| | of (size of mesh) is required, |
| 8. Present pipeline size & material | allowing a maximum pressure drop of |
| 9. Nature of solids to be strained out | psig.The strainer shall be equipped with a |
| 10. Size of solids to be strained out | (gasket material) gasket and the strainer screen shall be able |
| Size of mesh or perf. req. | to withstand psig differential pressure |
| I I. Clearance Limitation Above Below | without any deformation. |
| Left side facing inlet Right side facing inlet | Strainers shall be IFC Model # |
| 12. Maximum pressure drop with clean screen_ | or approved equivalent. |
| 13. Expected cleaning frequency | Name |
| 14.Any other information deemed relevant | Company |
| | Address |
| | City/Town |
| | State Zip Code |
| | Telephone () |
| | - Fax () |
| | |



Installation and Maintenance Instructions for IFC Y-Strainers

1.0 Strainer Installation Instructions

- A. Ensure all machined surfaces are free of defects and that the inside of the strainer is free of foreign objects.
- B. For horizontal pipelines, the strainer should be installed so that the drain connection is pointed downwards.
- C.For flanged end strainers, the flange bolting should be tightened gradually in a back and forth clockwise motion. Threaded end strainers should use an appropriate sealant.
- D. Once installed, increase line pressure gradually and check for leakage around joints.
- E. If the strainer is supplied with a start-up screen, monitor pressure drop carefully.

IMPORTANT! Ultimate responsibility for strainer and material selection rests with the customer, as only the customer knows the particular use to which the strainer will be put and the exact operating parameters to which it will be subjected.

2.0 Strainer Removal Instructions

- A. Drain piping.
- B. Vent line to relieve pressure.
- C.Loosen flange bolts (Flanged ends)
- D. Secure necessary lifting equipment to strainer assembly.
- E. Remove inlet/outlet flange bolts (flanged end), cut pipe (socket weld, buttweld and sweat end) or unthread (threaded ends) and carefully remove strainer.
- F. Tighten cover. The strainer is ready for line start-up.

CAUTION SHOULD BE TAKEN DUE TO POSSIBLE EMISSION OF PROCESS MATERIAL FROM PIPING. ALWAYS ENSURE NO LINE PRESSURE EXISTS WHEN OPENING COVER.

3.0 Maintenance Instructions

For maximum efficiency, determine the length of time it takes for the pressure drop to double that in the clean condition. Once the pressure drop reaches an unacceptable value, shut down line and follow the "Strainer Removal Instructions" above.

A pressure gauge installed before and after the strainer in-line will indicate pressure loss due to clogging and may be used to determine when cleaning is required.

4.0 Trouble Shooting Guides and Diagnostic Techniques

- A. After pressurizing, inspect cover and other joints for leakage. Gasket replacement or cover tightening is necessary if leakage occurs.
- B. If the required filtration is not taking place, ensure the screen is installed in the correct position, that being flush to the upper and lower screen seating surfaces.

5.0 Limited Warranty

All products are warranted to be free of defects in material and workmanship for a period of one year from the date of shipment, subject to the limitations below: If the purchaser believes a product defective, the purchaser shall:

- A. Notify the manufacturer, state the alleged defect and request permission to return the product.
- B. If permission is given, return the product with transportation prepaid. If the product is accepted for return and found to be defective, the manufacturer will, at its discretion, either repair or replace the product, f.o.b. factory, within 60 days of receipt, or refund the purchase price.

Other than to repair, replace or refund described above, the purchaser agrees that the manufacturer shall not be liable for any losses, costs, expenses or damages of any kind arising out of the product, its use, installation or replacement, labeling, instructions, information or technical data of any kind, description of product use, sample or model, warnings or lack of foregoing. No other warranties, written or oral, expressed or implied, including the warranties of fitness for a particular purpose and merchantability, are made or authorized. No affirmation of fact, promise, description of product use or sample or model shall create any warranty from the manufacturer, unless signed by the president. These products are not manufactured, sold or intended for personal, family or household purposes.



