North American Y-Type Strainers for Gas, Oil, Oxygen, Steam

8555Y Gas, Oil, Oxygen or Steam strainers are used in high pressure supply lines to prevent dirt and debris from damaging or jamming regulators, valves and other gas train accessories. In oil and steam lines, strainers help to screen out foreign particles that otherwise could reach the burner oil atomizer.

Strainer bodies are available in cast iron, carbon steel (epoxy painted to help resist rust and corrosion) and stainless steel. Bodies can be threaded or socket welded (limited sizes available) in smaller pipe sizes or flanged in larger pipe sizes.

Strainer screens are available in 304 (standard) or 316 (special order) or monel (oxygen service). Blow down cover is either threaded or bolted, depending on pipe size and strainer style.

Maximum working pressures vary depending on pipe size, materials of construction, operating temperature and fluid media being handled.

The new 8555Y Strainer line provides many unique features:

- High pressure and temperature designs for rugged industrial applications
- Body and screen designs provides large open-area ratios for cleaning
- Precision machining of body and cover help to ensure accurate positioning of the screen during reassembly after cleaning, helping to prevent debris bypass.
- Flanged bodies are provided with gauge taps to measure differential pressures to determine if cleaning is required.
- Cover design provides blow down connection for cleaning.
- Y strainers can be mounted in vertical and horizontal pipe. Vertical pipe runs are for downward flow only.
### Threaded Dimensions ANSI Class 250

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### Socket Weld Dimensions ANSI Class 600

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DIMENSIONS SHOWN ARE SUBJECT TO CHANGE. PLEASE OBTAIN CERTIFIED PRINTS FROM FIVES NORTH AMERICAN COMBUSTION, INC. IF SPACE LIMITATIONS OR OTHER CONSIDERATIONS MAKE EXACT DIMENSION(S) CRITICAL.
### Cast Iron Flanged Flat Face Dimensions ANSI Class 125

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### SST and Cast Steel Flanged Raised Face Dimensions ANSI Class 150

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### SST and Cast Steel Flanged Raised Face Dimensions ANSI Class 300

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ORDERING INFORMATION

**8555Y-**

- **Pipe Size Code**
  - -03 = ¼"
  - -02 = 3⁄8"
  - -01 = ½"
  - -0 = ¾"
  - -1 = 1"
  - -2 = 1¼"
  - -3 = 1½"
  - -4 = 2"
  - -5 = 2½"
  - -6 = 3"
  - -7 = 4"
  - -8 = 6"
  - -9 = 8"

- **Body Material**
  - -CI = Cast Iron
  - -CS = Cast Steel
  - -SS = 316 Stainless Steel

- **Service Options**
  - Blank = Air, Natural Gas, Fuel Oils; FKM seal
  - -C = Clean for Oxygen Service: PTFE seal
  - -STM = Steam; EPDM seal

- **End Connection**
  - -S = Screwed (NPT threaded)
  - -F = Flanged (ANSI Class 125 FF* or ANSI Class 150 RF*)
  - -F3 = Flanged (ANSI Class 300)
  - -W = Socket Weld (ANSI Class 600) -CS and -SS only

- **Screen Selection**
  - -PERF = 1⁄16 Perf with no Mesh Liner (100 SSU oil*)
  - -20 = 20 Mesh screen (40 SSU oil*)
  - -40 = 40 Mesh screen (steam, air, natural gas*)
  - -100 = 100 Mesh screen (air, natural gas*)

*See page 5 for Class 125/250 model/flange type availability

Example:

8555Y-4-CI-304-40-F; 2" Y strainer with Cast Iron Body, 304 SST Basket 40 Mesh Screen, ANSI Class 125 Flat Face Flanged, for Air, Natural Gas and Fuel Oil with FKM Seal.

DIMENSIONS SHOWN ARE SUBJECT TO CHANGE. PLEASE OBTAIN CERTIFIED PRINTS FROM FIVES NORTH AMERICAN COMBUSTION, INC. IF SPACE LIMITATIONS OR OTHER CONSIDERATIONS MAKE EXACT DIMENSION(S) CRITICAL.
### 8555Y Strainer Catalog Threaded Body Material Selection Guide

<table>
<thead>
<tr>
<th>Material Selection Code</th>
<th>Material Options</th>
<th>Sizes Available With Cap Cover</th>
<th>Sizes Available With Bolted Cover</th>
<th>ANSI Class</th>
<th>Pressure/Temperature Ratings (PSIG/TEMP F)</th>
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<td>CI</td>
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<td>¼&quot; - 3&quot;</td>
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### 8555Y Strainer Catalog Flanged Body Material Selection Guide

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<td>2&quot; - 8&quot; (FF)</td>
<td>125</td>
<td>Max. Oil, Gas, O2 Press. at Temperature</td>
</tr>
<tr>
<td>CS</td>
<td>Carbon Steel</td>
<td>½&quot; - 8&quot; (RF)</td>
<td>150</td>
<td>Max. Oil, Gas, O2 Press. at Temperature</td>
</tr>
<tr>
<td>SS</td>
<td>Stainless Steel</td>
<td>½&quot; - 8&quot; (RF3)</td>
<td>300</td>
<td>Max. Oil, Gas, O2 Press. at Temperature</td>
</tr>
</tbody>
</table>

### 8555Y Strainer Catalog Socket Weld Body Material Selection Guide

<table>
<thead>
<tr>
<th>Material Selection Code</th>
<th>Material Options</th>
<th>Sizes Available With Cap Cover</th>
<th>Sizes Available With Bolted Cover</th>
<th>ANSI Class</th>
<th>Pressure/Temperature Ratings (PSIG/TEMP F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS</td>
<td>Carbon Steel</td>
<td>½&quot; - 2&quot;</td>
<td>2&quot;</td>
<td>600</td>
<td>Max. Oil, Gas, O2 Press. at Temperature</td>
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<tr>
<td>SS</td>
<td>Stainless Steel</td>
<td>½&quot; - 2&quot;</td>
<td>2&quot;</td>
<td>600</td>
<td>Max. Oil, Gas, O2 Press. at Temperature</td>
</tr>
</tbody>
</table>

**NOTE:** Although strainer body material selections are limited to cast iron, carbon steel and stainless steel, the above charted data is provided to assist in making the proper selection, taking into account sizes available for a given pressure/temperature requirement, flow media options, connection types and cover constructions.
RECOMMENDED SPARE PARTS

Ordering Replacement Screens Only

Example:
8555Y-4-CI-304-40-F- SCREEN;  Screen only for 8555Y-4-CI-304-40-F

Ordering Replacement Gaskets Only

Example:
8555Y-4-CI-304-40-F- GASKET;  Gasket only for 8555Y-4-CI-304-40-F

STRAINER CAPACITY

DETERMINE STRAINER CAPACITY IN GPM FOR .845 SPECIFIC GRAVITY #2 FUEL OIL AT 1 PSI DP, 60F

<table>
<thead>
<tr>
<th>Size (threaded or flanged bodies)</th>
<th>GPM with 1½ PERF Strainer (Unlined)</th>
<th>GPM with 20 Mesh Lined Strainer</th>
<th>GPM with 40 Mesh Lined Strainer</th>
<th>GPM with 100 Mesh Lined Strainer</th>
<th>Cv factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>¼</td>
<td>0.73</td>
<td>0.71</td>
<td>0.64</td>
<td>0.57</td>
<td>0.7</td>
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<tr>
<td>⅜</td>
<td>2.07</td>
<td>2.03</td>
<td>1.84</td>
<td>1.62</td>
<td>2</td>
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<tr>
<td>½</td>
<td>8.3</td>
<td>8.12</td>
<td>7.36</td>
<td>6.49</td>
<td>8</td>
</tr>
<tr>
<td>¾</td>
<td>15.56</td>
<td>15.22</td>
<td>13.79</td>
<td>12.16</td>
<td>15</td>
</tr>
<tr>
<td>1</td>
<td>22.82</td>
<td>22.32</td>
<td>20.23</td>
<td>17.84</td>
<td>22</td>
</tr>
<tr>
<td>1¼</td>
<td>39.41</td>
<td>38.55</td>
<td>34.94</td>
<td>30.81</td>
<td>38</td>
</tr>
<tr>
<td>1½</td>
<td>43.56</td>
<td>42.61</td>
<td>38.62</td>
<td>34.06</td>
<td>42</td>
</tr>
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<td>72.61</td>
<td>71.01</td>
<td>64.36</td>
<td>56.76</td>
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<tr>
<td>2½</td>
<td>114.1</td>
<td>111.59</td>
<td>101.13</td>
<td>89.19</td>
<td>110</td>
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<td>165.96</td>
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<td>147.11</td>
<td>129.73</td>
<td>160</td>
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<td>263.75</td>
<td>239.05</td>
<td>210.82</td>
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<td>578.23</td>
<td>524.06</td>
<td>462.18</td>
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<td>8</td>
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<td>963.71</td>
<td>873.44</td>
<td>770.30</td>
<td>950</td>
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</tbody>
</table>

WARNING: Situations dangerous to personnel and property may exist with the operation and maintenance of any combustion equipment. The presence of fuels, oxidants, hot and cold combustion products, hot surfaces, electrical power in control and ignition circuits, etc., is inherent with any combustion application. Parts of this product may exceed 160°F in operation and present a contact hazard. Fives North American Combustion, Inc. urges compliance with National Safety Standards and Insurance Underwriters' recommendations, and care in operation.
### DETERMINE STRAINER CAPACITY IN GPM FOR .959 SPECIFIC GRAVITY #6 FUEL OIL AT 1 PSI DP, 60F

<table>
<thead>
<tr>
<th>Size (threaded or flanged bodies)</th>
<th>GPM with 1% PERF Strainer (Unlined)</th>
<th>GPM with 20 Mesh Lined Strainer</th>
<th>GPM with 40 Mesh Lined Strainer</th>
<th>GPM with 100 Mesh Lined Strainer</th>
<th>( C_v ) factor</th>
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</thead>
<tbody>
<tr>
<td>¼</td>
<td>0.65</td>
<td>0.64</td>
<td>0.58</td>
<td>0.49</td>
<td>0.7</td>
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<tr>
<td>⅜</td>
<td>1.86</td>
<td>1.83</td>
<td>1.67</td>
<td>1.41</td>
<td>2</td>
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<tr>
<td>½</td>
<td>7.46</td>
<td>7.31</td>
<td>6.67</td>
<td>5.64</td>
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</tr>
<tr>
<td>¾</td>
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<td>13.7</td>
<td>12.51</td>
<td>10.57</td>
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<tr>
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<td>20.51</td>
<td>20.09</td>
<td>18.35</td>
<td>15.5</td>
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<tr>
<td>1¼</td>
<td>35.42</td>
<td>34.71</td>
<td>31.68</td>
<td>26.78</td>
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<tr>
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<td>91.71</td>
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<tr>
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<td>792.08</td>
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### DETERMINE STRAINER CAPACITY FOR GASES

<table>
<thead>
<tr>
<th>Size (threaded or flanged bodies)</th>
<th>scfh (.6 SG) nat gas at 1&quot; w.c. dp with 1 psi upstream, 60F, at sea level (%PERF Screen)</th>
<th>scfh (.6 SG) nat gas at 1&quot; w.c. dp with 1 psi upstream, 60F, at sea level (20 Mesh Lined)</th>
<th>scfh (.6 SG) nat gas at 1&quot; w.c. dp with 1 psi upstream, 60F, at sea level (40 Mesh Lined)</th>
<th>scfh (.6 SG) nat gas at 1&quot; w.c. dp with 1 psi upstream, 60F, at sea level (100 Mesh Lined)</th>
<th>( C_v ) factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>¼</td>
<td>40.6</td>
<td>39.7</td>
<td>37</td>
<td>31</td>
<td>0.7</td>
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<tr>
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<td>113</td>
<td>106</td>
<td>89</td>
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</tr>
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<td>55 100</td>
<td>53 819</td>
<td>50 343</td>
<td>42 297</td>
<td>950</td>
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</table>

Contact Us:
Fives North American Combustion, Inc.
4455 East 71st Street - Cleveland, OH 44105 - USA
Tel: +1 216 271 600 - Fax: +1 216 373 4237
Email: fna.sales@fivesgroup.com
www.fivesgroup.com