

# Model: 251-DI

## Ductile Iron Screwed End Y Strainer Sizes: 1/4" - 3" (8 - 80mm)

| Pressure/Temperature - Non-Shock |              |                                  |
|----------------------------------|--------------|----------------------------------|
| Model                            | Material     | Rating                           |
| 251-DI                           | Ductile iron | 640psi @ 100°F<br>450psi @ 650°F |

251-DI

Class 300



Model 251-DI

### Typical Service

- Used extensively to strain foreign matter from pipelines and provide economical protection for costly pumps, meters, valves, and other similar mechanical equipment.

### Features

- Machined seats in both body and cap align and lock the screen in place to stop sediment bypass.

### Construction

- Gasketed cap is used for easy disassembly and assembly. Many others use Loctite, rendering disassembly virtually impossible

**NOTE:** Bolted covers are supplied on sizes 2½" and 3".

### Self-Cleaning

- Self-cleaning is accomplished by opening the plug or valve connected to the blowoff outlet.

### Blowoff Outlets

- Outlets are NPT tapped
- Sizes of tapping are specified on next page
- Not normally furnished with plug. Plug available, specify with order

### Capacity

- Generously proportioned bodies
- Open Area Ratio much greater than pipe size, ensuring low pressure drop

### Screens

| MODEL  | SIZES     | STANDARD (WATER) |           | STEAM RECOMMENDATION |           |
|--------|-----------|------------------|-----------|----------------------|-----------|
|        |           | MATERIAL         | OPENING   | MATERIAL             | OPENING   |
| 251-DI | 1/4" - 3" | 304SS            | .062 perf | 304SS                | .045 perf |

### Materials

|      | 251-DI                              |
|------|-------------------------------------|
| Body | Ductile Iron ASTM A536 Gr. 65-45-12 |
| Cap  | Ductile Iron ASTM A536 Gr. 65-45-12 |

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_

Representative \_\_\_\_\_

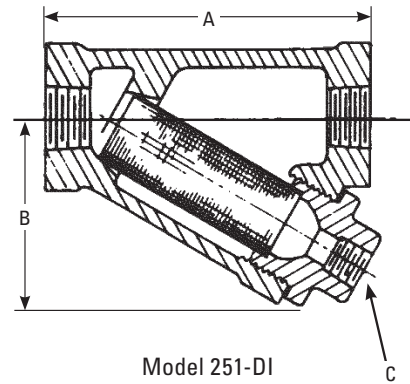
## Pressure Drop

See Pressure Drop Charts in Technical Data Section in the Mueller Steam Specialty Engineering binder.

## Dimensions and Weights

| SIZE                          |    | DIMENSIONS                      |     |                                 |     |                               |    | WEIGHT |      |
|-------------------------------|----|---------------------------------|-----|---------------------------------|-----|-------------------------------|----|--------|------|
|                               |    | A                               |     | B                               |     | C (NPT)                       |    |        |      |
| in.                           | mm | in.                             | mm  | in.                             | mm  | in.                           | mm | lbs.   | kgs. |
| 1/4                           | 6  | 3 <sup>13</sup> / <sub>16</sub> | 97  | 2 <sup>3</sup> / <sub>16</sub>  | 56  | 3/8                           | 10 | 2      | .9   |
| 3/8                           | 10 | 3 <sup>13</sup> / <sub>16</sub> | 97  | 3 <sup>3</sup> / <sub>16</sub>  | 56  | 3/8                           | 10 | 2      | .9   |
| 1/2                           | 15 | 3 <sup>13</sup> / <sub>16</sub> | 97  | 2 <sup>3</sup> / <sub>16</sub>  | 56  | 3/8                           | 10 | 2      | .9   |
| 3/4                           | 20 | 4 <sup>3</sup> / <sub>4</sub>   | 120 | 2 <sup>7</sup> / <sub>8</sub>   | 73  | 1/2                           | 12 | 2.5    | 1.1  |
| 1                             | 25 | 5 <sup>1</sup> / <sub>16</sub>  | 138 | 3 <sup>1</sup> / <sub>4</sub>   | 83  | 3/4                           | 15 | 4      | 1.8  |
| 1 <sup>1</sup> / <sub>4</sub> | 32 | 6 <sup>5</sup> / <sub>16</sub>  | 160 | 3 <sup>3</sup> / <sub>4</sub>   | 95  | 3/4                           | 15 | 5      | 2.2  |
| 1 <sup>1</sup> / <sub>2</sub> | 40 | 7 <sup>1</sup> / <sub>2</sub>   | 190 | 4 <sup>11</sup> / <sub>16</sub> | 119 | 1                             | 25 | 7.5    | 3.4  |
| 2                             | 50 | 8 <sup>1</sup> / <sub>8</sub>   | 206 | 5 <sup>1</sup> / <sub>2</sub>   | 140 | 1 <sup>1</sup> / <sub>4</sub> | 32 | 12     | 5.4  |
| 2 <sup>1</sup> / <sub>2</sub> | 65 | 10 <sup>1</sup> / <sub>2</sub>  | 266 | 6 <sup>5</sup> / <sub>8</sub>   | 168 | 1 <sup>1</sup> / <sub>2</sub> | 40 | 22     | 10   |
| 3                             | 80 | 12 <sup>1</sup> / <sub>2</sub>  | 318 | 6 <sup>7</sup> / <sub>8</sub>   | 175 | 1 <sup>1</sup> / <sub>2</sub> | 40 | 33     | 15   |

Apply for certified drawings.



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