Beginning in New York City as a small specialty manufacturer servicing the valve industry, Mueller Steam Specialty incorporated in 1956 to start manufacturing pipeline strainers. Since then, the company and its product offering have expanded dramatically. The company moved to North Carolina in 1972 and due to its continued growth, moved again in 1992 to a new and larger facility in St. Pauls, North Carolina. There are now over 300,000 square feet of ISO 9001:2000 registered manufacturing space devoted to Mueller’s various product lines. In addition to a full range of pipeline and specialty strainers, the company now manufactures a broad offering of check valves and butterfly valves.

Mueller joins the Watts Family

In December 2005, Mueller became a part of the Watts Water Technologies, Inc. family of companies. The resources and support that Watts has added to Mueller have enabled the company to consolidate previous efforts while at the same time plan for future growth and expansion in products and services.

Mueller today

Today, Mueller Steam Specialty is the world’s largest supplier of strainers and the number one provider of specialty products serving the valve industry. While the company has seen many changes, the dedication to quality, service and delivery remains the same. As always, Mueller Steam Specialty brand strainers and valves will continue to be the premier products of their kind in the marketplace.

Trademarks:

• Viton® is a trademark of DuPont Performance Elastomers, L.L.C.
• Teflon® is a trademark of E. I du Pont de Nemours and Company Corporation
• Rilsan® is a trademark of Arkema Corporation
• Monel® is a trademark of Inco Alloys International, Inc.
• Inconel® is a trademark of Inco Alloys International, Inc.
• Stellite® is a trademark of Deloro Stellite Holdings Corporation
• Kynar® is a trademark of - Arkema, Inc.
• Halar® is a trademark of - Ausimont USA, Inc.
• Hyalon® is a trademark of - Dupont Performance Elastomers L.L.C.

How To Order

11 Duplex Strainers
17 CHEXTER® Check Valve
22 Silent Check Valves
24 Sure Check® Valves
26 Butterfly Valves
28 LOCXEND®

Ordering Information

Important: To assist you in ordering the proper product for your application, the following information is necessary: operating pressure, temperature, flow rates and/or velocity and the type of service used.
# SPECIAL APPROVALS - FIRE LINE, ABS, SPECIAL SPECIFICATIONS, AND API

## STRAINERS

<table>
<thead>
<tr>
<th>APPROVAL TYPE</th>
<th>MODEL</th>
<th>SIZE</th>
<th>DESCRIPTION</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td>in.</td>
<td>mm</td>
</tr>
<tr>
<td>FM</td>
<td>595</td>
<td>4, 6, 8</td>
<td>100, 150, 200</td>
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<tr>
<td>UL</td>
<td>595</td>
<td>4, 5, 6, 8, 10, 12</td>
<td>100, 125, 150, 200, 250, 300</td>
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<tr>
<td>UL</td>
<td>911U</td>
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<td>65, 80, 100, 125, 150, 200, 250, 300</td>
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<td>911U</td>
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<td>65, 80, 100, 125, 150, 200, 250, 300</td>
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</table>

## SURE CHECK VALVES

<table>
<thead>
<tr>
<th>APPROVAL TYPE</th>
<th>MODEL</th>
<th>SIZE</th>
<th>DESCRIPTION</th>
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<tr>
<td></td>
<td></td>
<td>in.</td>
<td>mm</td>
</tr>
<tr>
<td>FM</td>
<td>71</td>
<td>2, 2½, 3, 4, 5, 6, 8, 10, 12, 14, 16</td>
<td>50, 65, 80, 100, 125, 150, 200, 250, 300, 350, 400</td>
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<tr>
<td>FM</td>
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<td>UL</td>
<td>71U</td>
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<td>100, 150, 200, 250, 300</td>
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</tbody>
</table>

## ABS TYPE APPROVED STRAINERS

Includes all Mueller Steam Specialty "Y" strainers, basket strainers, duplex strainers, check valves & rubber seated butterfly valves. See ABS web site for detail: [WWW.EAGLE.ORG/TYPENAPPROVAL/CONTENTS.HTML](http://WWW.EAGLE.ORG/TYPENAPPROVAL/CONTENTS.HTML)

## SPECIAL SPECIFICATIONS

- ASTM F1199 - Cast and Welded Pipeline Strainers - "Y" and basket strainers
- ASTM F1200 - Fabricated Strainers

## API

- Mueller Steam Specialty Sure Check Valves conform to API 594, API 598 & 6D.
- Mueller Steam Specialty rubber seated butterfly valves conform to API 609 and MSS SP 67.
- All Mueller Steam Specialty standard butterfly valves conform to MSS SP 25 and MSS SP 55.

## PED

- Mueller Steam Specialty has PED (Pressure Equipment Directive) approval for pipeline strainers and check valves.

---

All Strainers, Check Valves and Butterfly Valves can be modified to meet many customers special specifications or requirements. Consult factory for more information.
## SPECIAL APPROVALS - MILITARY SPECIFICATIONS

### "Y" STRAINERS

<table>
<thead>
<tr>
<th>SPECIFICATION</th>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mil-S-002953C: Class A, B, D</td>
<td>582, 764/WE, 766M/WE, 862/BC, 864M</td>
<td>&quot;Y&quot; type, 3&quot; &amp; below, 600# &amp; 1500# flanged, socket weld, or butt weld end connection, bolted cover</td>
</tr>
<tr>
<td>WW-S-2739: Type 1</td>
<td>11M</td>
<td>&quot;Y&quot; type, iron body, screwed, bronze blow off plug</td>
</tr>
<tr>
<td>WW-S-2739: Type 2</td>
<td>758</td>
<td>&quot;Y&quot; type, iron body, flanged, bronze blow off plug</td>
</tr>
<tr>
<td>Mil-S-21427A</td>
<td>764/WE, 766M/WE</td>
<td>&quot;Y&quot; type main steam line, drilled screen, X-Ray, magnaflux, 4&quot; &amp; above, 600# &amp; 1500# flanged, socket weld, or butt weld end connection</td>
</tr>
<tr>
<td>Mil-B-24480</td>
<td>851M, 852</td>
<td>&quot;Y&quot; type, bronze or nickel aluminum bronze body material, sea water strainer</td>
</tr>
<tr>
<td># 810-8441499 Rev J (NAVSHIPS)</td>
<td>352 1/2</td>
<td>&quot;Y&quot; type, bronze body, Silver brazing ends</td>
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</tbody>
</table>

### BASKET STRAINERS

<table>
<thead>
<tr>
<th>SPECIFICATION</th>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mil-S-13789A</td>
<td>125F*</td>
<td>Basket strainer, iron body, flanged, large capacity, surge test, flanged to grooved nipples often required. The specification also describes 250# iron, 150#, 300# and 600# steel</td>
</tr>
<tr>
<td>Mil-B-24480</td>
<td>165, 125, 125F</td>
<td>Basket strainer, bronze or nickel aluminum bronze body, screwed or flanged ends, Class 125 - 300, sea water strainer</td>
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</table>

### DUPLEX STRAINERS

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<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>Mil-S-17849E</td>
<td>690/790 Series</td>
<td>Pipe Line Duplex Strainers, all models can meet this specification</td>
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### SILENT CHECK VALVES

<table>
<thead>
<tr>
<th>SPECIFICATION</th>
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<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>Mil-V-18436E</td>
<td>See Description</td>
<td>All Mueller Steam Specialty Silent Check Valves - consult factory</td>
</tr>
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</table>

*All Strainers, Check Valves and Butterfly Valves can be modified to meet many customers special specifications or requirements. Consult factory for more information.*
### 150, 300 and 600 Pound Steel Standards

<table>
<thead>
<tr>
<th>Size</th>
<th>Dimensions</th>
<th>150 lb</th>
<th>300 lb</th>
<th>600 lb</th>
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<tbody>
<tr>
<td>1/2</td>
<td>15 1/2 3 1/2 1/4 1/2 2 1/2 4</td>
<td>1/2 2 1 1/4 2</td>
<td>1 1/4 2 1 1/4 2 1 1/4 2</td>
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</tr>
<tr>
<td>5/8</td>
<td>20 3/4 3 1/2 1/2 2 3/4 4</td>
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</tr>
<tr>
<td>1</td>
<td>25 1 1/2 1 1/2 2 3/4 4</td>
<td>1 1/4 2 1 1/4 2 1 1/4 2</td>
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<td></td>
</tr>
<tr>
<td>1 1/2</td>
<td>32 1 1/4 1/2 1/2 1/2 1/2 1/2 1/2</td>
<td>7/8 1 1/4 7/8 1 1/4 7/8 1 1/4 7/8</td>
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<td></td>
</tr>
<tr>
<td>2</td>
<td>50 2 1/2 1/2 1/2 1/2 1/2 1/2</td>
<td>1 1/4 2 1 1/4 2 1 1/4 2</td>
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<td></td>
</tr>
<tr>
<td>2 1/2</td>
<td>65 2 1/4 7 1/4 4 3/4 5</td>
<td>1 1/4 2 1 1/4 2 1 1/4 2</td>
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<tr>
<td>3</td>
<td>80 3 7/8 5 6 4</td>
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<td></td>
</tr>
<tr>
<td>3 1/2</td>
<td>95 3 3/4 8 1/2 13 1/2 5</td>
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<td>4</td>
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<td></td>
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<tr>
<td>6</td>
<td>150 6 1 1/2 1/4 1/4 1/4 1/4</td>
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<td></td>
</tr>
<tr>
<td>7</td>
<td>200 8 13 1/2 1 1/2 1/4 1/4 1/4</td>
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<td></td>
</tr>
<tr>
<td>8</td>
<td>250 10 16 1 1/2 1/4 1/4 1/4</td>
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<td></td>
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<tr>
<td>9</td>
<td>300 12 19 1 1/2 1 1/2 1 1/2 1 1/2</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>350 13 1/2 21 1 1/2 1 1/2 1 1/2 1 1/2</td>
<td>1 1/4 2 1 1/4 2 1 1/4 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>400 15 1/2 23 1 1/2 1 1/2 1 1/2 1 1/2</td>
<td>1 1/4 2 1 1/4 2 1 1/4 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>450 17 1/2 25 1 1/2 1 1/2 1 1/2 1 1/2</td>
<td>1 1/4 2 1 1/4 2 1 1/4 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>500 19 1/2 27 1 1/2 1 1/2 1 1/2 1 1/2</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
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<td>1 1/4 2 1 1/4 2 1 1/4 2</td>
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</tr>
<tr>
<td>15</td>
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<td>1 1/4 2 1 1/4 2 1 1/4 2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 150 lb

**F =** Length of stud

**G =** Length of machine bolt

### Bolt Holes

Bolt holes are drilled 1/8" larger than the diameter of the bolt.

### Drilling Templates

Drilling templates are in multiples of four, so that valves or fittings may be turned to face in any quarter when installed. Bolt holes are drilled to straddle the center-line unless otherwise ordered.

### Bolt Holes

The bolt holes are spot faced.

### Bolt and Stud Lengths

The lengths indicated as dimensions F and G in the above table apply for flanged joints made up of combinations of 150lb or 300lb valves, fittings, or companion flanges with 1/16" high raised faces.

### Stud Length "G" also applies for Tongue to Groove Flanged Joint.

### FACING

- **600 lb**
  - Male to Male Flanged Joint
  - Male to Female Flanged Joint

- **600 lb**
  - Female to Female Flanged Joint

### Spot Facing

The bolt holes are spot faced.

### Bolt Holes

Bolt holes are drilled 1/8" larger than the diameter of the bolt.
## BUTTERFLY VALVE FLANGE BOLTING DATA

### WAFER: 51 & 87

<table>
<thead>
<tr>
<th>BFV Size</th>
<th>Item</th>
<th>Size</th>
<th>Length</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>in.</strong></td>
<td><strong>mm</strong></td>
<td><strong>in.</strong></td>
<td><strong>mm</strong></td>
<td></td>
</tr>
<tr>
<td>2 &amp; 2½</td>
<td>50 &amp; 65</td>
<td>Bolt &amp; Nut</td>
<td>⅜ - 11 UNC</td>
<td>4½</td>
</tr>
<tr>
<td>3</td>
<td>80</td>
<td>Bolt &amp; Nut</td>
<td>⅜ - 11 UNC</td>
<td>4½</td>
</tr>
<tr>
<td>4</td>
<td>100</td>
<td>Bolt &amp; Nut</td>
<td>⅜ - 11 UNC</td>
<td>5</td>
</tr>
<tr>
<td>5 &amp; 6</td>
<td>125 &amp; 150</td>
<td>Bolt &amp; Nut</td>
<td>¾ - 10 UNC</td>
<td>5½</td>
</tr>
<tr>
<td>8</td>
<td>200</td>
<td>Bolt &amp; Nut</td>
<td>¾ - 9 UNC</td>
<td>6½</td>
</tr>
<tr>
<td>10</td>
<td>250</td>
<td>Bolt &amp; Nut</td>
<td>¾ - 9 UNC</td>
<td>7</td>
</tr>
<tr>
<td>12</td>
<td>300</td>
<td>Bolt &amp; Nut</td>
<td>1 - 8 UNC</td>
<td>8½</td>
</tr>
<tr>
<td>14</td>
<td>350</td>
<td>Bolt &amp; Nut</td>
<td>1 - 8 UNC</td>
<td>9¼</td>
</tr>
<tr>
<td>16</td>
<td>400</td>
<td>Bolt &amp; Nut</td>
<td>1 - 8 UNC</td>
<td>8½</td>
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<tr>
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<td>450</td>
<td>Bolt &amp; Nut</td>
<td>1¼ - 7 UNC</td>
<td>9¼</td>
</tr>
<tr>
<td>20*</td>
<td>500</td>
<td>Cap Screw</td>
<td>1¼ - 7 UNC</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bolt &amp; Nut</td>
<td>1¼ - 7 UNC</td>
<td>10</td>
</tr>
<tr>
<td>24*</td>
<td>600</td>
<td>Bolt &amp; Nut</td>
<td>1¼ - 7 UNC</td>
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<tr>
<td></td>
<td></td>
<td>Cap Screw</td>
<td>1¼ - 7 UNC</td>
<td>3½</td>
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</table>

### FULL LUG: 52 & 88

<table>
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<th>Item</th>
<th>Size</th>
<th>Length</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td><strong>in.</strong></td>
<td><strong>mm</strong></td>
<td><strong>in.</strong></td>
<td><strong>mm</strong></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>50</td>
<td>Cap Screw</td>
<td>⅜ - 11 UNC</td>
<td>1¼</td>
</tr>
<tr>
<td>2½ &amp; 3</td>
<td>65 &amp; 80</td>
<td>Cap Screw</td>
<td>⅜ - 11 UNC</td>
<td>1½</td>
</tr>
<tr>
<td>4</td>
<td>100</td>
<td>Cap Screw</td>
<td>⅜ - 11 UNC</td>
<td>1½</td>
</tr>
<tr>
<td>5</td>
<td>125</td>
<td>Cap Screw</td>
<td>¾ - 10 UNC</td>
<td>1¾</td>
</tr>
<tr>
<td>6</td>
<td>150</td>
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<td>¾ - 10 UNC</td>
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<td>8</td>
<td>200</td>
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<td>¾ - 10 UNC</td>
<td>2¼</td>
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<td>250</td>
<td>Cap Screw</td>
<td>¾ - 9 UNC</td>
<td>2½</td>
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<td>¾ - 9 UNC</td>
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<td>Cap Screw</td>
<td>1¼ - 7 UNC</td>
<td>3½</td>
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<tr>
<td>20</td>
<td>500</td>
<td>Cap Screw</td>
<td>1¼ - 7 UNC</td>
<td>3½</td>
</tr>
<tr>
<td>24</td>
<td>600</td>
<td>Cap Screw</td>
<td>1¼ - 7 UNC</td>
<td>3½</td>
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### SEMI LUG: 53

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<th>Length</th>
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</thead>
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<td><strong>mm</strong></td>
<td><strong>in.</strong></td>
<td><strong>mm</strong></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>50</td>
<td>Cap Screw</td>
<td>⅜ - 11 UNC</td>
<td>1¼</td>
</tr>
<tr>
<td>2½ &amp; 3</td>
<td>65 &amp; 80</td>
<td>Cap Screw</td>
<td>⅜ - 11 UNC</td>
<td>1½</td>
</tr>
<tr>
<td>4</td>
<td>100</td>
<td>Cap Screw</td>
<td>⅜ - 11 UNC</td>
<td>1½</td>
</tr>
<tr>
<td>5 &amp; 6</td>
<td>125 &amp; 150</td>
<td>Cap Screw</td>
<td>¾ - 10 UNC</td>
<td>1¼</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bolt &amp; Nut</td>
<td>¾ - 10 UNC</td>
<td>5½</td>
</tr>
<tr>
<td>8</td>
<td>200</td>
<td>Cap Screw</td>
<td>¾ - 10 UNC</td>
<td>2¼</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bolt &amp; Nut</td>
<td>¾ - 9 UNC</td>
<td>6</td>
</tr>
<tr>
<td>10</td>
<td>250</td>
<td>Cap Screw</td>
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<tr>
<td>12</td>
<td>300</td>
<td>Cap Screw</td>
<td>¾ - 9 UNC</td>
<td>2½</td>
</tr>
</tbody>
</table>

All thread sizes are UNC threads. All dimensions in inches.

Note: When using stud rod, add nut thickness plus ½" to length shown in table.

* Model #51 guide lugs have a blind tapped hole on each side requiring cap screws.
"Y" TYPE STRAINERS

Mueller Steam Specialty supplies customers world-wide with all of their requirements for "Y" Strainers. Whether the need is for a simple low pressure cast iron threaded strainer or a large, high pressure special alloy unit with a custom cap design, we have the "Y" strainers that fit the application.

We maintain a large stock of both standard and special sizes and materials. This stock includes end connections of threaded, flanged, socket weld, butt weld, solder, silbraze and grooved ends. We also have units with screwed caps, bolted caps, hinge type covers and swing type clamp covers.

Pressure is not a problem for Mueller Steam Specialty. "Y" strainers are available for pressures from ANSI Class 125 through Class 2500 and higher.

All of these strainers are available in a wide variety of materials. Units are maintained in stock with standard materials such as:

- Cast Iron
- 316 SS
- Monel
- Bronze
- 304 SS
- Ductile Iron
- 316L SS
- Hastelloy
- Carbon Steel
- Alloy 20

MODEL 11M
CLASS 250
Cast Iron – NPT Ends, Screwed Cap
- Size: ¼" - 4" (8 - 100mm)
- 250psi WSP @ 400°F
- 17 bar @ 204°C
- 400psi WOG @ 150°F
- 27 bar @ 65°C

MODEL 351M
CLASS 125
Bronze – NPT, Screwed Cap
- Size: ¼" - 3" (8 - 80mm)
- 150psi WSP @ 350°F
- 10 @ 176°C
- 200psi WOG @ 150°F
- 13 bar @ 65°C

MODEL 352M
CLASS 250
Bronze – NPT, Screwed Cap
- Size: ¼" - 4" (8 - 100mm)
- 300psi WSP @ 350°F
- 20 bar @ 176°C
- 400psi WOG @ 150°F
- 27 bar @ 65°C

MODEL 352½
CLASS 250
Bronze – Silbraze Ends, Screwed Cap
- Size: ¼" - 4" (8 - 100mm)
- 250psi WSP @ 425°F
- 17 bar @ 218°C

MODEL 353 ½
CLASS 125
Bronze – Solder Ends, Gasket Cover
- Size: ¼" – 4" (8 - 100mm)
- 175psi WOG @ 250°F
- 12 bar @ 121°C

MODEL 358S
CLASS 125
Bronze – Solder Ends, Screwed Cap
- Size: ¼" - 3" (8 - 80mm)
- 175psi WOG @ 250°F
- 12 bar @ 121°C

MODEL 758
CLASS 125
Cast Iron – Flanged Ends, Bolted Flange Cover
- Size: ½"-24" (20 - 600mm)
  to 12"
  125psi WSP @ 450°F
  (to 300mm) 8 bar @ 232°C
  200psi WOG @ 150°F
  13 bar @ 65°C
- 14"-24" (350 - 600mm)
  100psi WSP @ 353°F
  7 bar @ 178°C
  150psi WOG @ 150°F
  10 bar @ 65°C

MODEL 752
CLASS 250
Cast Iron – Flanged Ends, Bolted Flange Cover
- Size: ½" - 24" (15 - 600mm)
  to 12"
  250psi WSP @ 450°F
  (to 300mm) 17 bar @ 232°C
  500psi WOG @ 150°F
  34 bar @ 65°C
- 14"-24" (350 - 600mm)
  200psi WSP @ 406°F
  13 bar @ 208°C
  300psi WOG @ 150°F
  20 bar @ 65°C

Our Screens & Baskets are Designed to Achieve Maximum Straining Efficiency
The most critical aspect to any strainer is straining efficiency and durability. Mueller Steam Specialty’s many years of experience and continuous improvements provide the highest quality. We carry a larger inventory of perforated metals and meshes than any other strainer manufacturer in the world. Besides standard metals, we carry thousands of variations of materials and openings. Openings range from 1" to 5 microns.

Note: Retainer caps/covers shown are for illustration purposes only. They do not necessarily reflect actual product shipped.
"Y" TYPE STRAINERS

MODEL 781
MODEL 781-SS*
CLASS 150
Cast Steel/Stainless Steel – Flanged Ends, Bolted Flange Cover
- Size: 1/2” - 24” (15 - 600mm)
- 150psi WSP @ 565°F
- 10 bar @ 296°C
- 285psi WOG @ 100°F
- 19 bar @ 38°C

MODEL 782
MODEL 782-SS*
CLASS 300
Cast Steel/Stainless Steel – Flanged Ends, Bolted Flange Cover
- Size: 1/2” - 20” (15 - 500mm)
- 300psi WSP @ 838°F
- 20 bar @ 448°C
- 740psi WOG @ 100°F
- 51 bar @ 38°C

MODEL 764/764-SS*
CLASS 600
Cast Steel/Stainless Steel – Flanged Ends, Bolted Flange Cover
- Size: 1/2” - 16” (15 - 400mm)
- 600psi WSP @ 838°F
- 41 bar @ 448°C
- 1480psi WOG @ 100°F
- 102 bar @ 38°C

MODEL 781-WE
MODEL 781-SS-WE*
CLASS 150
Cast Steel/Stainless Steel Butt Weld Ends, Bolted Flange Cover
- Size: 1/2” - 24” (15 - 600mm)
- 150psi WSP @ 565°F
- 10 bar @ 296°C
- 285psi WOG @ 100°F
- 19 bar @ 38°C

MODEL 782-WE
MODEL 782-SS-WE*
CLASS 300
Cast Steel/Stainless Steel Butt Weld Ends, Bolted Flange Cover
- Size: 1/2” - 24” (15 - 600mm)
- 300psi WSP @ 838°F*
- 20 bar @ 448°C
- 740psi WOG @ 100°F
- 51 bar @ 38°C

MODEL 764-WE
MODEL 764-SS-WE*
CLASS 600
Cast Steel/Stainless Steel Butt Weld Ends, Bolted Flange Cover
- Size: 1/2” - 16” (15 - 400mm)
- 600psi WSP @ 838°F*
- 41 bar @ 448°C*
- 1480psi WOG @ 100°F
- 102 bar @ 38°C

MODEL 765M
MODEL 765M-SS*
CLASS 900
Cast Steel/Stainless Steel – Flanged Ends, Bolted Flange Cover
- Size: 1/4” - 10” (15 - 250mm)
- 900psi WSP @ 838°F
- 62 bar @ 448°C *
- 2200psi WOG @ 100°F
- 151 bar @ 38°C

MODEL 766M
MODEL 766M-SS*
CLASS 1500
Cast Steel/Stainless Steel – Flanged Ends, Bolted Flange Cover
- Size: 1/4” - 12” (15 - 300mm)
- 1500psi WSP @ 838°F
- 103 bar @ 448°C
- 3705psi WOG @ 100°F
- 255 bar @ 38°C

MODEL 767/767-SS*
CLASS 2500
Cast Steel/Stainless Steel – Flanged Ends, Bolted Flange Cover
- Size: 1/4” - 12” (15 - 300mm)
- 2500psi WSP @ 838°F
- 172 bar @ 448°C
- 6170psi WOG @ 100°F
- 425 bar @ 38°C

MODEL 851M
CLASS 150
Bronze – Flanged Ends, Bolted Flange Cover
- Size: 1/4” - 12” (15 - 300mm)
- 150psi WSP @ 406°F
- 10 bar @ 208°C
- 225psi WOG @ 150°F
- 15 bar @ 65°C

MODEL 852
CLASS 300
Bronze – Flanged Ends, Bolted Flange Cover
- Size: 1/4” - 12” (15 - 300mm)
- 350psi WSP @ 350°F
- 24 bar @ 176°C
- 500psi WOG @ 150°F
- 34 bar @ 65°C

* Pressure-Temperature Rating for Stainless Steel Models only

Consult factory for Carbon Steel. Optional sizes, materials, baskets, gaskets and mesh liners are available on application.

Mueller Steam Specialty “Y” strainers have generously proportioned bodies with screens that have an open area many times greater than the corresponding pipe size to ensure low pressure loss. All strainers are hydrostatically tested in accordance with applicable ANSI, API and MSS standards.
### "Y" Type Strainers

**Model 765M-WE**  
**Model 765M-SS-WE**  
**Class 900**  
Cast Steel/Stainless Steel, Butt Weld Ends, Bolted Flange Cover  
- Size: ½" - 1" (15 - 350mm)  
- 900 psi WSP @ 838°F  
- 62 bar @ 448°C  
- 2220 psi WOG @ 100°F  
- 153 bar @ 38°C  

**Model 766M-WE**  
**Model 766M-SS-WE**  
**Class 1500**  
Cast Steel/Stainless Steel, Butt Weld Ends, Bolted Flange Cover  
- Size: ½" - 16" (15 - 400mm)  
- 1500 psi WSP @ 838°F  
- 103 bar @ 448°C  
- 3705 psi WOG @ 100°F  
- 255 bar @ 38°C  

**Model 767-WE**  
**Model 767-SS-WE**  
**Class 2500**  
Cast Steel/Stainless Steel, Butt Weld Ends, Bolted Flange Cover  
- Size: ½" - 16" (15 - 400mm)  
- 2500 psi WSP @ 838°F  
- 172 bar @ 448°C  
- 6170 psi WOG @ 100°F  
- 425 bar @ 38°C  

**Model 861-BC**  
**Model 861-SS-BC**  
**Class 600**  
Cast Steel/Stainless Steel, NPT Ends  
Bolted Flange Cover  
- Size: ¼" - 2" (8 - 50mm)  

**Model 862-BC**  
**Model 862-SS-BC**  
Cast Steel/Stainless Steel, Socket Weld Ends, Bolted Flange Cover  
- Size: ¼" - 3" (15 - 80mm)  
- 600 psi WSP @ 838°F  
- 41 bar @ 448°C  
- 1480 psi WOG @ 100°F  
- 102 bar @ 38°C  

**Model 581/581-SS**  
**Model 861/861-SS**  
**Class 600**  
Cast Steel/Stainless Steel, NPT Ends & Cap  
- Size: ¼" - 2" (15 - 50mm)  

**Model 582/582-SS**  
**Model 862/862-SS**  
**Class 600**  
Cast Steel/Stainless Steel, NPT Ends & Screwed Cap  
- Size: ¼" - 2" (8 - 50mm)  
- 600 psi WSP @ 838°F  
- 41 bar @ 448°C  
- 1480 psi WOG @ 100°F  
- 102 bar @ 38°C  

**Model 863M**  
**Model 863M-SS**  
**Class 1500**  
Cast Steel/Stainless Steel, NPT Ends, Screwed Cap  
- Size: ½" - 2" (15 - 50mm)  
- 1½", 1¼" & 2" (32, 40 & 50mm) have Bolted Cap  

**Model 864M**  
**Model 864M-SS**  
**Class 1500**  
Socket Weld Ends, Screwed Caps  
- Size: 1¼" - 2" (32 - 50mm)  
- 1½", 1¼" & 2" (32, 40, 50mm) have Bolted Cap  
- 1500 psi WSP @ 838°F  
- 103 bar @ 448°C  
- 3705 psi WOG @ 100°F  
- 255 bar @ 38°C  

**Model 865**  
**Model 865-SS**  
Cast Steel/Stainless Steel, NPT Ends, Bolted Flange Cover  
**Class 2500**  
- Size: ½" - 2" (15 - 50mm)  
- 2500 psi WSP @ 838°F  
- 172 bar @ 448°C  
- 6170 psi WOG @ 100°F  
- 425 bar @ 38°C  

*Pressure-Temperature Rating for Stainless Steel Models only*

Consult factory for Carbon Steel. Optional sizes, materials, baskets, gaskets and mesh liners are available on application.

Mueller Steam Specialty “Y” strainers have generously proportioned bodies with screens that have an open area many times greater than the corresponding pipe size to insure low pressure loss. All strainers are hydrostatically tested in accordance with applicable ANSI, API and MSS standards.
Mueller Steam Specialty Simplex Basket Strainers are called for when the application requires a strainer with an extremely large capacity. Most of these strainers have an open area ratio of 6 to 1 with even greater open area ratios available.

As with all of the Mueller Steam Specialty strainers, basket strainers are available in an almost endless combination of materials, pressures, end connections and cover configurations from 1/4” to 24” (72” in fabricated units). Units are also available in cast iron, bronze, carbon steel, stainless steel, Alloy 20 and most other alloys. The baskets in the Mueller Steam Specialty simplex basket strainers share the same quality of construction as the Mueller Steam "Y" strainers.

From threaded end connections to offset flanged connections, we can provide the exact basket strainer to meet your needs.

**Pressure-Temperature Rating for Cast Iron Models**
Consult factory for other materials. Optional sizes, materials, baskets, gaskets and mesh liners are available on application.

**Pressure-Temperature Rating for Stainless Steel Models only**
Consult factory for Carbon Steel. Optional sizes, materials, baskets, gaskets and mesh liners are available on application.

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**Model 125/125-B**
**Model 125-CS/125-SS**
class 125 - 250*
Cast Iron, Bronze, Cast Steel, Stainless Steel
NPT Ends, Quick Open Cover with Non-Yoke knobs, O-ring Seal, Bolted Cover

- Size: ¾” - 3” (10 - 80mm)
- 200psi WOG @ 150°F
- 13 bar @ 65°C

---

**Model 125F/125F-B**
**Model 125F-CS/125F-SS**
class 125 - 250*
Cast Iron, Bronze, Cast Steel, Stainless Steel
Flanged Ends, Quick Open Cover with Non-Yoke knobs on most sizes, O-ring Seal

- Size: 1” - 12” (25 - 300mm)
- 200psi WOG @ 150°F
- 13 bar @ 65°C
- 125psi WSP @ 350°F
- 9 bar @ 177°C

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**Model 155M**
class 125
Cast Iron
Flanged Ends, Side Swing Clamps on 2”-12”, Vertical Swing Clamps on 14” and 16”, Bolted Cover

- Size: 2” - 16” (50 - 400mm)
- 200psi WOG @ 150°F
- 13 bar @ 65°C
- 125psi WSP @ 350°F
- 10 bar @ 177°C

* with bolted cover

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**Model 165**
class 125
Cast Iron
Flanged Ends, Bolted Flange Cover

- Size: 1/4” - 24” (32 - 600mm)
- 250psi WSP @ 406°F
- 17 bar @ 208°C
- 500psi WOG @ 150°F
- 34 bar @ 65°C

- Size: 14”-24” (350 - 600mm)
- 200psi WOG @ 150°F
- 15 bar @ 65°C

---

**Model 166**
class 250
Cast Iron
Flanged Ends, Bolted Flange Cover

- Size: 2” - 24” (50 - 600mm)
- 250psi WSP @ 406°F
- 17 bar @ 208°C
- 500psi WOG @ 150°F
- 34 bar @ 65°C

- Size: 14”-24” (350 - 600mm)
- 13 bar @ 208°C
- 20 bar @ 65°C

---

**Model 165-B**
class 150
Bronze
Flanged Ends, Bolted Flange Cover

- Size: 2” - 12” (50 - 300mm)
- 150psi WSP @ 565°F
- 10 bar @ 296°C
- 285psi WOG @ 100°F
- 19 bar @ 38°C

---

**Model 166-B**
class 300
Bronze
Flanged Ends, Bolted Flange Cover

- Size: 2” - 12” (50 - 300mm)
- 150psi WSP @ 406°F
- 10 bar @ 208°C
- 225psi WOG @ 150°F
- 15 bar @ 65°C

---

**Model 185/185-SS**
class 150
Cast Steel/Stainless Steel
Flanged Ends, Bolted Flange Cover

- Size: 1/4” - 20” (32 - 500mm)
- 150psi WSP @ 565°F
- 10 bar @ 296°C
- 285psi WOG @ 100°F
- 19 bar @ 38°C

---

**Model 186/186-SS**
class 300
Cast Steel/Stainless Steel
Flanged Ends, Bolted Flange Cover

- Size: 1/4” - 16” (32 - 400mm)
- 505psi WSP @ 750°F
- 20 bar @ 448°C
- 740psi WOG @ 100°F
- 51 bar @ 38°C

---

**Model 126F-CS**
class 300
Cast Steel/Stainless Steel
Flanged Ends, Bolted Flange Cover

- Size: 3/4” - 18” (20 - 450mm)
- 300psi WSP @ 838°F
- 21 bar @ 448°C
- 740psi WOG @ 100°F
- 51 bar @ 38°C

---

**Model 126F-SS**
class 300
Cast Steel/Stainless Steel
Flanged Ends, Bolted Flange Cover

- Size: 3/4” - 18” (20 - 450mm)
- 300psi WSP @ 838°F
- 21 bar @ 48°C
- 720psi WOG @ 100°F
- 50 bar @ 38°C

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Many times, critical systems cannot be shut down for strainer basket cleaning. These systems include cooling water, compressors, condensers, fire lines, fuel lines, chemical process systems, pump suction applications and other similar services. For these applications, the Mueller Steam Specialty Duplex Strainer is the perfect choice.

For sizes 3/4” through 6”, the Revolutionary Ball-Plex™ duplex strainer from Mueller Steam Specialty has all of the features you need. Bubble tight seating, true in-line maintainability, extremely easy seat replacement and long, trouble-free service life in a very simple and rugged design.

Available from stock in cast iron, bronze, carbon steel and stainless steel. Other alloys are also available. All of the Ball-Plex™ units are standard with 316 SS balls and PTFE seats. Other alloys are also available for the balls. Threaded and flanged units are available with full rated pressures from Class 125 to Class 300 (Class 600 flanges also available). With the floating design and relatively low torque requirements, it is very easy to automate these units for remote operation.
DUPLEX STRAINERS – 8” – 24” (200 – 600mm)

For sizes from 8” - 24” (200 - 600mm), the larger Mueller Steam Specialty duplex strainer is the unit of choice. Using an in-line plug design, quick flow transfer is accomplished with less than a 90° rotation of the handle. Economical actuation of the unit is also available.

Sizes 8” - 16” (200 - 400mm) are available in cast iron, bronze, carbon steel and stainless steel and Class 125 and 150.

Sizes 18” - 24” (450 - 600mm) are fabricated. All units can be supplied with special materials, baskets and coatings.

8” - 24” DUPLEX STRAINERS

MODEL 691 MFA
CLASS 125
Body: Cast Iron
Flanged Ends, Bolted or Clamped Flange Cover
- Size: 8” - 16” (200 - 400mm)
- 150psi @ 150°F
- 10 bar @ 65°C

MODEL 692 MF
CLASS 150
Body: Bronze, Carbon Steel, Stainless Steel
Flanged Ends, Bolted or Clamped Flange Cover

CLAMP COVER
- Size: 8” - 16” (200 - 400mm)
- 150psi WOG @ 100°F*
- 10 bar @ 38°C*

BOLTED COVER
- Size: 8” - 16” (200 - 400mm)
- 200psi WOG @ 100°F*
- 13 bar @ 38°C*
- Size 14” - 16” (350 - 400mm)
- 150psi WOG @ 100°F*
- 10 bar @ 38°C*

HOW TO ORDER
Mueller Steam Specialty Ball-Plex™ Duplex Strainer basic model numbers are based on ANSI Class connections as follows:

- 791 for Class 125
- 792 for Class 150
- 794 for Class 300
- 796 for Class 600

For Marine and other larger styles:

- 690 for 50psi (marine duplex with Class 125 flanges)
- 691 for Class 125
- 692 for Class 150

EXAMPLE
Three inch Model 791S-AH (see above) with some special feature such as special baskets, blow-off connections, special O-rings, etc.

This is a Class 125 duplex strainer with NPT Ends, cast iron body and covers, stainless steel balls. The ordering and tagging number is written as follows:

Model # Code Example 3.0 791 S A H X
Pipe Size
Model No
End
Body
Ball
Special Feature

Consult factory for all special features. If no special features are required use “O” in place of “X” in the ordering and tagging number.

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flanged</td>
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<tr>
<td>NPT</td>
<td>S</td>
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<tr>
<td>Cast Iron</td>
<td>A</td>
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<tr>
<td>Bronze</td>
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<td>Carbon Steel</td>
<td>D</td>
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<tr>
<td>Stainless Steel</td>
<td>H</td>
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<tr>
<td>Monel</td>
<td>Q</td>
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<tr>
<td>Bronze</td>
<td>B</td>
</tr>
<tr>
<td>Stainless Steel</td>
<td>H</td>
</tr>
</tbody>
</table>

* Pressure-Temperature Rating for Stainless Steel Models only
Consult factory for Carbon Steel. Optional sizes, materials, baskets, gaskets and mesh liners are available on application.
SPECIAL STRAINERS

FIRELINE STRAINERS

U.L. approved strainers for fireline service are designed specifically for applications such as automatic water sprinklers and spray systems in firelines. The very large open area ratio helps prevent problems due to clogging of the screen. These units are available with open areas up to seven times the corresponding pipe size. This exceeds the AWWA requirements by almost 200%.

Whether the need is for a "Y" strainer or a basket strainer, Mueller cast iron fireline strainers from 2½" to 12" can meet your needs.

MODEL 595
CLASS 125
Cast Iron
Flanged Ends, U.L. Approved for Fireline Service
• Size: 4" - 12" (100 - 300mm)
• 175psi WOG @ 150°F
• 12 bar @ 65°C

MODEL 911U
CLASS 125
Cast Iron
Flanged Ends
U.L. Approved for Fireline Service
• Size: 2½" - 12" (65 - 300mm)
• 175psi WOG @ 150°F
• 12 bar @ 65°C

METER STRAINERS

When expensive displacement water meters and other sensitive fluid monitoring devices need to be protected from damage due to particles and debris in the line and space is a problem, the Mueller Steam Specialty meter strainers are the solution.

These units have been designed to meet AWWA requirements of a straining area at least twice the size of the main meter case inlet of turbine type meters.

Available in cast iron and bronze from 1½" to 8", these units are designed to eliminate your meter protection problems.

MODEL 625
CLASS 125
Cast Iron
Flanged Ends, Bolted Cover
• Size: 3" - 8" (80 - 200mm)
• 175psi WOG @ 150°F
• 12 bar @ 65°C

MODEL 625-B
CLASS 150
Bronze
Flanged Ends, Bolted Cover
• Size: 1½" - 8" (40 - 200mm)
• 175psi WOG @ 150°F
• 12 bar @ 65°C

FABRICATED STRAINERS

Mueller Steam Specialty has a long history of providing the highest quality, economical fabricated strainers to meet every need.

Whether the requirement is for a basket strainer, large "Y" strainer, "Tee" type strainer, temporary strainer or large duplex strainer, Mueller will custom engineer and fabricate the exact strainer required.

Some of the special features available include:
• Special Dimensions
• Special Baskets
• Special Covers (Lifting Davits, Quick Opening etc.)
• Special End Connections
• Special Corrosion Allowances
• Special Draining and Cleaning
• Special Certifications: ASME code stamped, etc.

MODEL 781 FAB
CLASS 150
Carbon Steel, Stainless Steel, and other Alloys, Flanged Ends
• Size: 4" - 36" (100 - 900mm)

MODEL 782 FAB
CLASS 300
Carbon Steel, Stainless Steel, and other Alloys, Flanged Ends
• Size: 4" - 24" (100 - 600mm)

MODEL 784 FAB
CLASS 600
Carbon Steel, Stainless Steel, and other Alloys, Flanged Ends
• Size: 4" - 24" (100 - 600mm)

MODEL 781 WE-FAB
CLASS 150
Carbon Steel, Stainless Steel, and other Alloys, Weld Ends
• Size: 4" - 36" (100 - 900mm)

MODEL 782 WE-FAB
CLASS 300
Carbon Steel, Stainless Steel, and other Alloys, Weld Ends
• Size: 4" - 24" (100 - 600mm)

MODEL 784 WE-FAB
CLASS 600
Carbon Steel, Stainless Steel, and other Alloys, Weld Ends
• Size: 4" - 24" (100 - 600mm)

Class 900 and higher available
**FABRICATED STRAINERS**

**MODEL 22**
**Basket Type**
Carbon Steel, Stainless Steel and other Alloys
- Size: ¾” - 60” (20 - 1500mm)

**MODEL 23**
**Conical Type**
Carbon Steel, Stainless Steel and other Alloys
- Size: ¾” - 60” (20 - 1500mm)

**MODEL 24**
**Plate Type**
- Carbon Steel, Stainless Steel and other Alloys
- Size: ¾” - 60” (20 - 1500mm)

**MODEL 185 FAB-B**
**Class 150**
Carbon Steel, Stainless Steel, and other Alloys
Bolted Cover
- Size: 4” - 54” (100 - 1350mm)

**MODEL 186 FAB-B**
**Class 300**
Carbon Steel, Stainless Steel, and other Alloys
Bolted Cover
- Size: 4” - 48” (100 - 1200mm)

**MODEL 188 FAB-B**
**Class 600**
Carbon Steel, Stainless Steel, and other Alloys
Bolted Cover
- Size: 4” - 36” (100 - 900mm)

**MODEL 185 FAB-Q**
**Class 150**
Carbon Steel, Stainless Steel, and other Alloys
Quick Opening Cover
- Size: 4” - 36” (100 - 900mm)

**MODEL 41 T-B**
**Class 150**
Carbon Steel, Stainless Steel, and other Alloys
Bolted Cover
- Size: 2” - 36” (50 - 900mm)

**MODEL 42 T-B**
**Class 300**
Carbon Steel, Stainless Steel, and other Alloys
Bolted Cover
- Size: 2” - 36” (50 - 900mm)

**MODEL 44 T-B**
**Class 600**
Carbon Steel, Stainless Steel, and other Alloys
Bolted Cover
- Size: 2” - 36” (50 - 900mm)

**MODEL 46 T-B**
**Class 900**
Carbon Steel, Stainless Steel, and other Alloys
Bolted Cover
- Size: 2” - 36” (50 - 900mm)

**MODEL 48 T-B**
**Class 1500**
Carbon Steel, Stainless Steel, and other Alloys
Bolted Cover
- Size: 2” - 36” (50 - 900mm)

**MODEL 41 T-Q**
**Class 150**
Carbon Steel, Stainless Steel, and other Alloys
Quick Opening Cover
- Size: 2” - 36” (50 - 900mm)

**Mueller Steam Specialty**

Mueller has a long history of providing the highest quality, economical fabricated strainers to meet every need. From Class 150 to Class 2500, we produce steel and alloy fabricated strainers to your exact requirements.
**QUICK ACTING STRAINERS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CLASS</th>
<th>Available Body Material:</th>
<th>Available Body Material:</th>
<th>Size: 1&quot; - 48&quot; (25 - 1200mm)</th>
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<tbody>
<tr>
<td>MODEL 15A</td>
<td>CLASS 150</td>
<td>Carbon Steel, Stainless Steel, and other Alloys</td>
<td>Carbon Steel, Stainless Steel, and other Alloys</td>
<td>Butt Weld</td>
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<td>CLASS 150</td>
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<td>Carbon Steel, Stainless Steel, and other Alloys</td>
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<td>CLASS 600</td>
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<td>Flanged Ends</td>
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<td>Carbon Steel, Stainless Steel, and other Alloys</td>
<td>Butt Weld</td>
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<td>CLASS 2500</td>
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<tr>
<td>MODEL 250AF</td>
<td>CLASS 2500</td>
<td>Carbon Steel, Stainless Steel, and other Alloys</td>
<td>Carbon Steel, Stainless Steel, and other Alloys</td>
<td>Flanged Ends</td>
</tr>
</tbody>
</table>

**Trust Mueller Steam Specialty**

Trust Mueller Steam Specialty for strainers & valves to handle the most demanding needs of the marine industry. We have a vast knowledge of product/service compatibility combined with an endless array of materials, sizes, pressures and end connections to meet your application requirements.
PUMP PROTECTION

The Mueller Steam Specialty Pump Protection Package is a compact, effective and economical way to simplify the maze of piping found in most pump locations.

Our Control-Chek® valve has been specifically designed to incorporate balancing, shut off and check valve functions into one compact, easily installed unit. This saves space, installation cost and maintenance time.

The Suction Diffuser does more than just strain out particles that could damage your pump. By replacing the elbow, strainer and entry pipe on the suction side of the pump, a tremendous savings in space, equipment and labor will be realized. Our Control-Chek® and Suction Diffuser, together with an inlet control valve, can replace up to six costly, space-robbing pipe components. That does not include the savings due to fewer welds, hangers, flanges, ease of maintenance and improved access in the mechanical room. Both units are also available in our LOCXEND® line (See page 27).

Contact us for more information on these products.

MODEL 721
CLASS 125
Cast Iron Control-Chek®, Flanged Ends, Bolted Yoke Cover with Position Indicator
- Size: 2" - 14" (50 - 350mm)
  2"-12"  200psi WOG @ 150°F
  (50 - 300mm)  13 bar @ 65°C
  14"  150psi WOG @ 150°F
  (350mm)  10 bar @ 65°C

MODEL 722
MODEL 722G (LOCXEND®)
CLASS 300
Ductile Iron Control-Chek®
- Size: 2" - 12"
  2"-10"  640psi WOG @ 100°F
  (50 - 250mm)  44 bar @ 38°C
  12"  500psi WOG @ 100°F
  (300mm)  34 bar @ 38°C

MODEL 1011
CLASS 125
Cast Iron Flanged Ends, Knob Cover through 8" x 8"
Bolted Available through 18" x 18"
- Size: 2" x 1/4" - 12" x 12"
  (50 x 32mm - 300 x 300mm)
  200psi WOG @ 150°F
  13 bar @ 65°C
Consult factory for temperature & pressure data for bolted cover, larger sizes.

MODEL 1012
CLASS 300
Ductile Iron Flanged Ends, Knob Cover through 8" x 8"
Bolted Available through 18" x 18"
- Size: 2" x 1/4" - 12" x 12"
  (50 x 32mm - 300 x 300mm)
  300psi WOG @ 100°F
  20 bar @ 38°C
Consult factory for temperature & pressure data for bolted cover, larger sizes.

MODEL1011G (LOCXEND®)
CLASS 300
Ductile Iron, Knob Cover through 8" x 8",
Bolted Available through 14" x 14"
Ends: Grooved Inlet - Flanged Outlet
- Size: 2" x 1/4" – 12" x 12"
  (50 x 32mm - 300 x 300mm)
  300psi WOG @ 100°F
  20 bar @ 38°C
Consult factory for temperature & pressure data for bolted cover, larger sizes.
CHEXTER® CHECK VALVE

The CHEXTER® Check Valves are designed to be used economically in a variety of commercial and industrial applications - including commercial construction, industrial, marine, utilities and process industries.

CHEXTER® Check valves meet the requirements of, and are approved for use by:

- General Services Administration
- U.S. Navy, the U.S. Coast Guard, U.S. Air Force and NASA
- Utility industry requirements for performance-Water, gas and compressed air lines

The CHEXTER® Check valve may be outfitted in a broad combination of metal trims allowing quick selection of the right valve for your application.

<table>
<thead>
<tr>
<th>MODEL 1600-D</th>
<th>CLASS 125</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cast Iron body/Buna-N Seal</td>
<td></td>
</tr>
<tr>
<td>Facing: Flat Face Flange</td>
<td></td>
</tr>
<tr>
<td>- Size: 2” - 36” (50 - 900mm)</td>
<td></td>
</tr>
<tr>
<td>2” - 12” 200psi WOG @ 150°F</td>
<td></td>
</tr>
<tr>
<td>50 - 300mm 14 bar @ 66°C</td>
<td></td>
</tr>
<tr>
<td>14” - 24” 150psi WOG @ 150°F</td>
<td></td>
</tr>
<tr>
<td>350 - 600mm 10 bar @ 68°C</td>
<td></td>
</tr>
<tr>
<td>30” &amp; Up 150psi WOG @ 150°F</td>
<td></td>
</tr>
<tr>
<td>900mm 10 bar @ 68°C</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MODEL 1602-D</th>
<th>CLASS 250</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cast Iron body/Buna-N Seal</td>
<td></td>
</tr>
<tr>
<td>Facing: Raised Flange</td>
<td></td>
</tr>
<tr>
<td>- Size: 2” - 30” (50 - 760mm)</td>
<td></td>
</tr>
<tr>
<td>2” - 12” 500psi WOG @ 150°F</td>
<td></td>
</tr>
<tr>
<td>50 - 300mm 34 bar @ 66°C</td>
<td></td>
</tr>
<tr>
<td>14” - 24” 300psi WOG @ 150°F</td>
<td></td>
</tr>
<tr>
<td>350 - 600mm 21 bar @ 66°C</td>
<td></td>
</tr>
<tr>
<td>30” 300psi WOG @ 150°F</td>
<td></td>
</tr>
<tr>
<td>900mm 21 bar @ 66°C</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MODEL 1601-A</th>
<th>CLASS 150</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Steel body/Buna-N Seal</td>
<td></td>
</tr>
<tr>
<td>Facing: Flat Face Flange</td>
<td></td>
</tr>
<tr>
<td>- Size: 2” - 30” (50 - 750mm)</td>
<td></td>
</tr>
<tr>
<td>285psi WOG @ 100°F</td>
<td></td>
</tr>
<tr>
<td>20 bar @ 38°C</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MODEL 1601-AC</th>
<th>CLASS 150</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Steel body/Teflon seal</td>
<td></td>
</tr>
<tr>
<td>Facing: Flat Face Flange</td>
<td></td>
</tr>
<tr>
<td>- Size: 2” - 30” (50 - 750mm)</td>
<td></td>
</tr>
<tr>
<td>285psi WOG @ 100°F</td>
<td></td>
</tr>
<tr>
<td>20 bar @ 38°C</td>
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</table>

<table>
<thead>
<tr>
<th>MODEL 1601-AF</th>
<th>CLASS 150</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Steel body/Metal-to-metal seal</td>
<td></td>
</tr>
<tr>
<td>Facing: Flat Face Flange</td>
<td></td>
</tr>
<tr>
<td>- Size: 2” - 30” (50 - 750mm)</td>
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</tr>
<tr>
<td>195psi WOG @ 100°F</td>
<td></td>
</tr>
<tr>
<td>13 bar @ 38°C</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MODEL 1601-C</th>
<th>CLASS 150</th>
</tr>
</thead>
<tbody>
<tr>
<td>316 SS body/Teflon seal</td>
<td></td>
</tr>
<tr>
<td>Facing: Raised Flange</td>
<td></td>
</tr>
<tr>
<td>- Size: 2” - 12” (50 - 300mm)</td>
<td></td>
</tr>
<tr>
<td>275psi WOG @ 100°F</td>
<td></td>
</tr>
<tr>
<td>19 bar @ 38°C</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MODEL 1601-E</th>
<th>CLASS 150</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum bronze body/Teflon seal</td>
<td></td>
</tr>
<tr>
<td>Facing: Raised Flange</td>
<td></td>
</tr>
<tr>
<td>- Size: 2” - 12” (50 - 300mm)</td>
<td></td>
</tr>
<tr>
<td>195psi WOG @ 100°F</td>
<td></td>
</tr>
<tr>
<td>13 bar @ 38°C</td>
<td></td>
</tr>
</tbody>
</table>
### CHEXTER® CHECK VALVE

**MODEL 1603-A**  
**CLASS 300**  
Carbon steel body/Buna-N seal  
Facing: Raised Flange  
- Size: 2" - 24" (50 - 600mm)  
- 740 psi WOG @ 100°F  
- 51 bar @ 38°C

**MODEL 1603-AF**  
**CLASS 300**  
Carbon steel body/Metal-to-metal seal  
Facing: Raised Flange  
- Size: 2" - 24" (50 - 600mm)  
- 740 psi WOG @ 100°F  
- 51 bar @ 38°C

**MODEL 1603-C**  
**CLASS 300**  
316 SS body/Teflon seal  
Facing: Raised Flange  
- Size: 2" - 12" (50 - 300mm)  
- 720 psi WOG @ 100°F  
- 50 bar @ 38°C

**MODEL 1603-E**  
**CLASS 300**  
Aluminum Bronze body/Teflon seal  
Facing: Raised Flange  
- Size: 2" - 12" (50 - 300mm)  
- 515 psi WOG @ 100°F  
- 36 bar @ 38°C

**MODEL 1605-A**  
**CLASS 600**  
Carbon steel body/Buna-N seal  
Facing: Raised Flange  
- Size: 2" - 24" (50 - 600mm)  
- 1480 psi WOG @ 100°F  
- 102 bar @ 38°C

**MODEL 1605-AF**  
**CLASS 600**  
Carbon steel body/Metal-to-metal seal  
Facing: Raised Flange  
- Size: 2" - 24" (50 - 600mm)  
- 1480 psi WOG @ 100°F  
- 102 bar @ 38°C

**MODEL 1605-C**  
**CLASS 600**  
316 SS body/Teflon seal  
Facing: Raised Flange  
- Size: 2" - 12" (50 - 300mm)  
- 1480 psi WOG @ 100°F  
- 99 bar @ 38°C

**MODEL 1605-AC**  
**CLASS 600**  
Carbon steel body/Teflon seal  
Facing: Raised Flange  
- Size: 2" - 24" (50 - 600mm)  
- 1480 psi WOG @ 100°F  
- 102 bar @ 38°C

**MODEL 1605-AF**  
**CLASS 600**  
Carbon steel body/Metal-to-metal seal  
Facing: Raised Flange  
- Size: 2" - 24" (50 - 600mm)  
- 1480 psi WOG @ 100°F  
- 102 bar @ 38°C

**MODEL 1605-C**  
**CLASS 600**  
316 SS body/Teflon seal  
Facing: Raised Flange  
- Size: 2" - 12" (50 - 300mm)  
- 1480 psi WOG @ 100°F  
- 99 bar @ 38°C

**MODEL 1606-A**  
**CLASS 900**  
Carbon steel body/Buna-N seal  
Facing: Raised Flange  
- Size: 2" - 12" (50 - 300mm)  
- 2120 psi WOG @ 100°F  
- 146 bar @ 38°C

**MODEL 1606-AF**  
**CLASS 900**  
Carbon steel body/Metal-to-metal seal  
Facing: Raised Flange  
- Size: 2" - 12" (50 - 300mm)  
- 2120 psi WOG @ 100°F  
- 146 bar @ 38°C

**MODEL 1606-C**  
**CLASS 900**  
316 SS body/Teflon seal  
Facing: Raised Flange  
- Size: 2" - 12" (50 - 300mm)  
- 2010 psi WOG @ 100°F  
- 139 bar @ 38°C

---

### HOW TO ORDER CHEXTER® CHECK VALVE

<table>
<thead>
<tr>
<th>Size</th>
<th>Pressure Class</th>
<th>AC</th>
<th>CHX</th>
<th>CS_SOFT</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 - 30”</td>
<td>Class 150</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>315 - 900</td>
<td>Class 300</td>
<td>5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Abbreviation**  
CHEXTER® Check Valve

**Standard CHEXTER Materials**  
- “A”: Carbon Steel Body/BUNA-N Seal  
- “AC”: Carbon Steel Body/TEFLOON Seal  
- “AF”: Carbon Steel Body/Metal to Metal Seal  
- “C”: 316SS Body/TEFLON Seals  
- “D”: Cast Iron Body/BUNA-N Seal  
- “DE”: Cast Iron Body/BUNA-N Seal  
- “E”: Aluminum Bronze Body/TEFLON Seal

**Miscellaneous Information**  
Material Type, Spider/Spacer, Hard Seat, etc.
## CHEXTER® CHECK VALVE

### MODEL 1645-A
**CLASS 600**
- Carbon steel body/Buna-N seal
- Facing: Ring Type Joint
  - Size: 2" - 12" (50 - 300mm)
  - 1480psi WOG @ 100°F
  - 102 bar @ 38°C

### MODEL 1645-AC
**CLASS 600**
- Carbon steel body/Teflon seal
- Facing: Ring Type Joint
  - Size: 2" - 12" (50 - 300mm)
  - 1480psi WOG @ 100°F
  - 102 bar @ 38°C

### MODEL 1645-AF
**CLASS 600**
- Carbon steel body/Metal-to-Metal seal
- Facing: Ring Type Joint
  - Size: 2" - 12" (50 - 300mm)
  - 1480psi WOG @ 100°F
  - 102 bar @ 38°C

### MODEL 1645-C
**CLASS 600**
- 316 SS body/Teflon seal
- Facing: Ring Type Joint
  - Size: 2" - 12" (50 - 300mm)
  - 1440psi WOG @ 100°F
  - 99 bar @ 38°C

### MODEL 1646-A
**CLASS 900**
- Carbon steel body/Buna-N seal
- Facing: Ring Type Joint
  - Size: 2" - 12" (50 - 300mm)
  - 2120psi WOG @ 100°F
  - 146 bar @ 38°C

### MODEL 1646-AC
**CLASS 900**
- Carbon steel body/Teflon seal
- Facing: Ring Type Joint
  - Size: 2" - 12" (50 - 300mm)
  - 2120psi WOG @ 100°F
  - 146 bar @ 38°C

### MODEL 1646-AF
**CLASS 900**
- Carbon steel body/Metal-to-metal seal
- Facing: Ring Type Joint
  - Size: 2" - 12" (50 - 300mm)
  - 2120psi WOG @ 100°F
  - 146 bar @ 38°C

### MODEL 1646-C
**CLASS 900**
- 316 SS body/Teflon seal
- Facing: Ring Type Joint
  - Size: 2" - 12" (50 - 300mm)
  - 2120psi WOG @ 100°F
  - 146 bar @ 38°C

### MODEL 1696-A
**CLASS 2000 LB. API WOG**
- Carbon steel body/Buna-N seal
- Facing: Ring Type Joint
- Unibody Style
  - Size: 2" - 4" (50 - 100mm)
  - 2000psi WOG @ 100°F
  - 138 bar @ 38°C

### MODEL 1607-A
**CLASS 1500**
- Carbon steel body/Buna-N seal
- Facing: Raised Flange
- Unibody Style
  - Size: 2" - 10" (50 - 250mm)
  - 3705psi WOG @ 100°F
  - 255 bar @ 38°C

### MODEL 1647-A
**CLASS 1500**
- Carbon steel body/Buna-N seal
- Facing: Ring Type Joint
- Unibody Style
  - Size: 2" - 10" (50 - 250mm)
  - 3705psi WOG @ 100°F
  - 255 bar @ 38°C

### MODEL 1697-A
**CLASS 3000 LB API WOG**
- Carbon steel body/Buna-N seal
- Facing: Ring Type Joint
- Unibody Style
  - Size: 2" - 4" (50 - 100mm)
  - 3000psi WOG @ 100°F
  - 207 bar @ 38°C
Mueller Steam Specialty has redesigned our Silent Check Valves in order to offer better flow efficiency, lower pressure drop and improved cost. Designed with compact springs, the valve prevents flow reversal to eliminate water hammer, vibrations, system surges and noise. These units can be installed horizontally or vertically. Please consult factory for vertical downward flow applications.

The latest Mueller Wafer Silent Check Valve keeps the traditional design for short face-to-face dimensions and fits conveniently between two matching flanges, easily replacing our existing 100 Series wafer silent check valves. Now with a more simplistic design, parts are easily field repairable or replaceable without special tooling.

The 92M, 94M and 96M series wafer checks are suitable for normal liquid, air and gas applications. These units are available in ductile iron, bronze, carbon steel and stainless steel, all with stainless steel trim as a standard.

**FEATURES:**

- Units fully ANSI rated.
- Consistent cracking pressure: .5psi net
- Unique check valve seal is independent of flange gasket.
- Disc travel full open is approximately 1/4" per inch of valve size.
- Metal-to-metal seat meets or exceeds API 598 leakage requirements.
- Soft seat provides bubble tight shut off at as low as 5 ft. of water head.
- Simple design enables field parts replacement without special tools.
- PN16, PN25 and PN40 flange drilling available.

### 94 SERIES WAFFER CHECK

**MODEL 92M-IP**

Ductile Iron body, Bronze Trim

- Size: 1" - 10" (25 - 250mm)
- 250psi WOG @ 100°F / 17 bar @ 38°C

**MODEL 92M-HT**

Stainless Steel body, Stainless Steel Trim

- Size: 8" - 12" (200 - 300mm)
- 275psi WOG @ 100°F / 19 bar @ 38°C
For use with Class 150 or 300 flanges

**MODEL 94M-IT**

Ductile Iron body, Stainless Steel Trim

- Size: 2" - 10" (50 - 250mm)
For use with Class 150 or 300 flanges

**MODEL 94M-IP**

Ductile Iron body, Bronze Trim

- Size: 8" - 10" (200 - 300mm)
- 640psi WOG @ 100°F / 44 bar @ 38°C
For use with Class 150 or 300 flanges

**MODEL 94M-HT**

Stainless Steel body, Stainless Steel Trim

- Size: 1" - 10" (25 - 250mm)
- 720psi WOG @ 100°F / 50 bar @ 38°C
For use with Class 150 or 300 flanges

**MODEL 96M-DT**

Carbon Steel body, Stainless Steel Trim

- Size: 1" - 6" (25 - 150mm)
- 1480psi WOG @ 100°F / 102 bar @ 38°C
For use with Class 600 flanges

**MODEL 96M-HT**

Stainless Steel body, Stainless Steel Trim

- Size: 1" - 6" (25 - 150mm)
- 1440psi WOG @ 100°F / 99 bar @ 38°C
For use with Class 600 flanges

**92M-94M-96M SIZES 1" - 1 1/2" (25 - 40mm)**
SILENT CHECK VALVES - WAFER STYLE

Mueller Steam Specialty Silent Check Valves are designed with a spring assisted in-line disc that is guided both upstream and downstream. This design feature allows valve closure at zero flow. Flow reversal does not occur and check valve induced water hammer is eliminated.

The Mueller Wafer Silent Check Valve is designed with a short face-to-face dimension and fits conveniently between two matching flanges. Only a limited amount of space is needed for installation and installation time is reduced. The valves are used in a variety of liquid, air and gas applications. These units are available in cast iron, bronze, carbon steel, stainless steel and other alloys.

### STANDARD WAFER

**MODEL 101 MAP**  
Class 125  
Cast Iron Body/Bronze Trim  
- Size: 1” - 10” (25 - 250mm)  
- 200psi WOG @ 150°F  
- 13 bar @ 65°C

**MODEL 103 MAP**  
Class 250  
Cast Iron Body/Bronze Trim  
- Size: 1” - 10” (25 - 250mm)  
- 500psi WOG @ 150°F  
- 34 bar @ 65°C

**MODEL 101 MAT**  
Class 125  
Cast Iron Body/Stainless Steel Trim  
- Size: 1” - 10” (25 - 250mm)  
- 200psi WOG @ 150°F  
- 13 bar @ 65°C

**MODEL 103 MAT**  
Class 250  
Cast Iron Body/Stainless Steel Trim  
- Size: 1” - 10” (25 - 250mm)  
- 500psi WOG @ 150°F  
- 34 bar @ 65°C

**MODEL 101 MBP**  
Class 150  
Bronze Body/Bronze Trim  
- Size: 1” - 10” (25 - 250mm)  
- 225psi WOG @ 150°F  
- 15 bar @ 65°C

**MODEL 103 MBP**  
Class 300  
Bronze Body/Bronze Trim  
- Size: 1” - 6” (25 - 150mm)  
- 500psi WOG @ 150°F  
- 34 bar @ 65°C

### COMPACT WAFER

**MODEL 101 MDT**  
Class 150  
Carbon Steel Body/316 SS Trim  
- Size: 1” - 10” (25 - 250mm)  
- 285psi WOG @ 100°F  
- 19 bar @ 38°C

**MODEL 103 MDT**  
Class 300  
Carbon Steel Body/316 SS Trim  
- Size: 1” - 10” (25 - 250mm)  
- 740psi WOG @ 100°F  
- 51 bar @ 38°C

**MODEL 131 DT**  
Class 600  
Carbon Steel Body/316 SS Trim  
- Size: 1” - 6” (25 - 150mm)  
- 1490psi WOG @ 100°F  
- 102 bar @ 38°C

**MODEL 101 MHT**  
Class 150  
Carbon Steel Body/316 SS Trim  
- Size: 1” - 10” (25 - 250mm)  
- 275psi WOG @ 100°F  
- 19 bar @ 38°C

**MODEL 103 MHT**  
Class 300  
Carbon Steel Body/316 SS Trim  
- Size: 1” - 10” (25 - 250mm)  
- 720psi WOG @ 100°F  
- 49 bar @ 38°C

**MODEL 131 HT**  
Class 600  
Carbon Steel Body/316 SS Trim  
- Size: 1” - 6” (25 - 150mm)  
- 1440psi WOG @ 100°F  
- 99 bar @ 38°C

**MODEL 91AP**  
For use with Class 125, 150, 250 or 300 flanges  
Cast Iron Body/Bronze Trim  
- Size: 1 1⁄2” - 6” (40 - 150mm)  
- 150psi WOG @ 150°F  
- 10 bar @ 65°C

**MODEL 91AT**  
For use with Class 125, 150, 250 or 300 flanges  
Cast Iron Body/316 SS Trim  
- Size: 1 1⁄2” - 6” (40 - 150mm)  
- 150psi WOG @ 150°F  
- 10 bar @ 65°C

**MODEL 92AP**  
For use with Class 125 or 150 flanges  
Cast Iron Body/Bronze Trim  
- Size: 8” -12” (200 - 300mm)

**MODEL 93AP**  
For use with Class 250 or 300 flanges  
Cast Iron Body/Bronze Trim  
- Size: 8” -10” (25 - 250mm)  
- 150psi WOG @ 150°F  
- 10 bar @ 65°C
**SILENT CHECK VALVES – GLOBE STYLE**

With the same design features as the wafer silent check valves, the Globe style valves offer a more streamlined flow and lower pressure drop figures.

The valves are designed for liquid, air and gas service* and are available in a complete range of sizes, body trim materials and pressure classes. These valves are engineered to be partially open at 0.5psi and fully open at 1psi differential pressure at a liquid velocity of 8 feet per second.

Mueller Globe Style Silent Check Valves can be installed in horizontal or vertical flow. Each valve is 100% tested in accordance with ANSI, API and MSS standards.

### GLOBE STYLES

#### MODEL 105 MAP
**CLASS 125**
- Cast Iron Body/Bronze Trim
- Size: 2’’ - 12’’ (50 - 300mm)
  - 200psi WOG @ 150°F
  - 13 bar @ 65°C
- 14’’ - 24’’ (350 - 600mm)
  - 150psi WOG @ 150°F
  - 10 bar @ 65°C

#### MODEL 107 MAP
**CLASS 250**
- Cast Iron Body/Bronze Trim
- Size: 2’’ - 24’’ (50 - 600mm)
  - 500psi (to 300mm)
  - 34 bar @ 65°C
- 14’’ - 24’’ (350 - 600mm)
  - 300psi @ 150°F
  - 20 bar @ 65°C

#### MODEL 105 MBP
**CLASS 150**
- Bronze Body/Bronze Trim
- Size: 2’’ - 20’’ (50 - 500mm)
  - 225psi WOG @ 150°F
  - 15 bar @ 65°C

#### MODEL 109 MBP
**CLASS 300**
- Bronze Body/Bronze Trim
- Size: 2’’ - 20’’ (50 - 500mm)
  - 500psi WOG @ 150°F
  - 34 bar @ 65°C

#### MODEL 105 MDT
**CLASS 150**
- Carbon Steel Body/316 SS Trim
- Size: 2’’ - 20’’ (50 - 500mm)
  - 285psi WOG @ 100°F
  - 19 bar @ 38°C

#### MODEL 109 MDT
**CLASS 300**
- Carbon Steel Body/316 SS Trim
- Size: 2’’ - 24’’ (50 - 600mm)
  - 740psi WOG @ 100°F
  - 51 bar @ 38°C

#### MODEL 113 DT
**CLASS 600**
- Carbon Steel Body/316 SS Trim
  - Size: 2’’ - 10’’ (50 - 250mm)
  - 1480psi WOG @ 100°F
  - 102 bar @ 38°C

#### MODEL 117 DT
**CLASS 1500**
- Carbon Steel Body/316 SS Trim
  - Size: 2’’ - 24’’ (50 - 600mm)
  - 3705psi WOG @ 100°F
  - 255 bar @ 38°C

#### MODEL 105 MHT
**CLASS 150**
- 316 SS Body/316 SS Trim
  - Size: 2’’ - 30’’ (50 - 750mm)
  - 1480psi WOG @ 100°F
  - 102 bar @ 38°C

#### MODEL 109 MHT
**CLASS 300**
- 316 SS Body/316 SS Trim
  - Size: 2’’ - 24’’ (50 - 600mm)
  - 720psi WOG @ 100°F
  - 49 bar @ 38°C

#### MODEL 113 HT
**CLASS 600**
- 316 SS Body/316 SS Trim
  - Size: 2’’ - 10’’ (50 - 250mm)
  - 1440psi WOG @ 100°F
  - 99 bar @ 38°C

#### MODEL 117 HT
**CLASS 1500**
- 316 SS Body/316 SS Trim
  - Size: 2’’ - 24’’ (50 - 600mm)
  - 3600psi WOG @ 100°F
  - 248 bar @ 38°C

### NPT TYPE

#### MODEL 303 AP
**CLASS 250**
- Cast Iron Body/Bronze Trim
  - EPDM Soft Seat Option Available
- Size: 1/4’’ - 2’’ (8 – 50mm)
  - 200psi WOG @ 150°F
  - 13 bar @ 65°C

#### MODEL 303 AT
**CLASS 250**
- Cast Iron Body/316 SS Trim
  - EPDM Soft Seat Option Available
- Size: 1/4’’ - 2’’ (8 – 50mm)
  - 200psi WOG @ 150°F
  - 13 bar @ 65°C

#### MODEL 303 BP
**CLASS 300**
- Bronze Body/Bronze Trim
  - Optional EPDM Soft Seat Available
- Size: 1/4’’ - 2’’ (8 – 50mm)
  - 400psi WOG @ 150°F
  - 27 bar @ 65°C

#### MODEL 303 HT
**CLASS 300**
- 316 SS Body/316 SS Trim
  - Optional Viton® Soft Seat Available
- Size: 1/4’’ - 2’’ (8 – 50mm)
  - 600psi WOG @ 100°F
  - 41 bar @ 38°C

* Do not use directly on discharge of reciprocating compressors.
SILENT CHECK VALVES

HOW TO ORDER

MODEL NUMBERS
These numbers describe valves furnished with standard trim. For any other type of trim refer to "BODY MATERIALS" table and "TRIM MATERIALS" table on this page. Substitute the correct letter indicating the trim materials which you require.

<table>
<thead>
<tr>
<th>BODY MATERIAL</th>
<th>TRIM</th>
<th>ANSI CLASS</th>
<th>COMPACT WAFER TYPE</th>
<th>FULL FACE WAFER TYPE</th>
<th>GLOBE TYPE</th>
<th>NPT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cast Iron</td>
<td>Bronze</td>
<td>125</td>
<td>91AP*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cast Iron</td>
<td>Bronze</td>
<td>125</td>
<td>92AP+</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cast Iron</td>
<td>Bronze</td>
<td>250</td>
<td>93AP+</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cast Iron</td>
<td>Stainless Steel</td>
<td>125</td>
<td>91AT*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cast Iron</td>
<td>Bronze</td>
<td>125</td>
<td>101MAP</td>
<td>105MAP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cast Iron</td>
<td>Bronze</td>
<td>250</td>
<td>103MAP</td>
<td>107MAP</td>
<td>303AP</td>
<td></td>
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<tr>
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<td>Stainless Steel</td>
<td>250</td>
<td></td>
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<td>303AT</td>
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</tr>
<tr>
<td>Bronze</td>
<td>Bronze</td>
<td>150</td>
<td>101MBP</td>
<td>105MBP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bronze</td>
<td>Bronze</td>
<td>300</td>
<td>103MBP</td>
<td>109MBP</td>
<td>303BP</td>
<td></td>
</tr>
<tr>
<td>Carbon Steel</td>
<td>Stainless Steel</td>
<td>150</td>
<td>101MDT</td>
<td>105MDT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbon Steel</td>
<td>Stainless Steel</td>
<td>300</td>
<td>103MDT</td>
<td>109MDT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbon Steel</td>
<td>Stainless Steel</td>
<td>600</td>
<td>131DT</td>
<td>113DT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbon Steel</td>
<td>Stainless Steel</td>
<td>1500</td>
<td></td>
<td></td>
<td>117DT</td>
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<td>Stainless Steel</td>
<td>150</td>
<td>101MHT</td>
<td>105MHT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>316 SS</td>
<td>Stainless Steel</td>
<td>300</td>
<td>103MHT</td>
<td>109MHT</td>
<td>303HT</td>
<td></td>
</tr>
<tr>
<td>316 SS</td>
<td>Stainless Steel</td>
<td>600</td>
<td>131HT</td>
<td>113HT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>316 SS</td>
<td>Stainless Steel</td>
<td>1500</td>
<td></td>
<td></td>
<td>117HT</td>
<td></td>
</tr>
</tbody>
</table>

* Sizes 1½" - 6" (40 - 150mm)
+ Sizes 8" - 12" (200 - 300mm)
** DuPont Trademark

Body Material:
- Cast Iron (Semi-Steel) A
- Bronze, 85-5-5-5 B
- Bronze, "M" Metal C
- Carbon Steel, Gr. WCB D
- Carbon Moly, Gr. WCl E
- Stainless, Type 410 F
- Stainless, Type 304 G
- Stainless, Type 316 H
- Ductile Iron I
- Aluminum J
- Other - Specify X

Trim Material:
- Bronze, 85-5-5-5 P
- Bronze, "M" Metal Q
- Stainless, Type 410 R
- Stainless, Type 304 S
- Stainless, Type 316 T
- Monel U
- Carbon Steel V
- Other - Specify X

Soft Seat available in EPDM, Buna-N and Viton**. Consult Factory.

Model # Code Example  8 101 M A P X

Ordering Information
Important! To assist you in ordering the proper product for your application, the following information is necessary: operating pressure, temperature, flow rates and/or velocity and the type of service used.
DOUBLE DISC CHECK VALVES – SURE CHECK®

The unique torsion spring arrangement on this valve forces the heel of the discs against the seat for a complete seal. It also helps close the disc on flow stoppage, minimizing flow reversal and water hammer. Elastomer seats for each disc are molded to the body allowing complete sealing. Metal-to-metal seating is also available on request. The dual shaft design provides a positive disc stop. This feature minimizes flutter and wear at the disc hinge and maximizes the life of the valve.

All steel, stainless steel and alloy models conform to API 594 and API 6D specifications. (Also available as LOCXEND. See pages 27 & 28)

The Sure Check valves are designed for horizontal and vertical flow applications. Units are available in cast iron, ductile iron, carbon steel, stainless steel and other alloys.

**SURE CHECK®**

**MODEL 71**  
**CLASS 125**  
Cast Iron Body/Bronze Disc  
- Size: 2" - 54" (50 - 1350mm)  
- SS Discs available  
  2" - 12" 200psi @ 150°F  
  (50 - 300mm) 13 bar @ 65°C  
  14" - 54" 150psi @ 150°F  
  (350 - 7350mm) 10 bar @ 65°C

**MODEL 72**  
**CLASS 150**  
Bronze, 2" - 54" (50 - 1350mm) Ductile Iron, Carbon Steel, Stainless Steel bodies available  
- Size: 2" - 56" (50 - 1400mm)  
  285psi WOG @ 150°F  
  19 bar @ 38°C*

**MODEL 74**  
**CLASS 300**  
Bronze, Carbon Steel, Stainless Steel bodies available  
- Size 2" - 48" (50 - 1200mm)  
  740psi WOG @ 100°F*  
  51 bar @ 38°C*

**MODEL 76**  
**CLASS 600**  
Carbon Steel, Stainless Steel bodies available  
- Size: 2" - 42" (50 - 1050mm)  
  1480psi @ 100°F  
  102 bar @ 38°C

**MODEL 77**  
**CLASS 900**  
Carbon Steel, Stainless Steel bodies available  
- Size: 2" - 24" (50 - 600mm)  
  2220psi WOG @ 100°F*  
  151 bar @ 38°C*

**MODEL 78**  
**CLASS 1500**  
Carbon Steel, Stainless Steel bodies available  
- Size: 2" - 18" (50 - 450mm)  
  3705psi WOG @ 100°F*  
  255 bar @ 38°C*

**MODEL 79**  
**CLASS 2500**  
Carbon Steel, Stainless Steel bodies available  
- Size: 2" - 12" (50 - 300mm)  
  6170psi WOG @ 100°F  
  425 bar @ 38°C*

* Pressure-Temperature Rating for Carbon Steel Models only
Consult factory for Stainless Steel or other materials.
## DOUBLE DISC CHECK VALVES - SURE CHECK®

### HOW TO ORDER

**EXAMPLE**
Six inch, Model 71, cast iron body, 316 SS shaft, ductile iron disc, Buna-N seat, 316 SS spring, no special features.

**Model # Code Example**

<table>
<thead>
<tr>
<th>Size</th>
<th>Model No</th>
<th>Body</th>
<th>Shaft</th>
<th>Disc</th>
<th>Seat</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.0</td>
<td>71</td>
<td>A H I</td>
<td>3</td>
<td>H</td>
<td>I</td>
<td>3</td>
</tr>
</tbody>
</table>

Repeat Body Material code in this position for metal-to-metal seat without overlay.

**Important:** To assist you in ordering the proper product for your application, the following information is necessary: operating pressure, temperature, flow rates and/or velocity and the type of service used.

### MATERIAL SPECIFICATIONS

#### BODY
- Cast Iron ASTM A126-B (Semi-Steel)
- Carbon Steel ASTM A216 WCB
- 316 SS (CF8M) ASTM A351
- Bronze (B5-5-5-5) ASTM B62
- Aluminum ASTM B26-52T Gr. SG 70A
- Ductile Iron ASTM A536

#### SHAFT
- 316 SS ASTM A479
- Monel ASTM B164

#### DISCS
- Buna-N (-20°F TO 250°F)
- Neoprene
- EPDM (-40°F TO 300°F)
- Viton® (-20°F TO 400°F)
- Aluminum-Bronze Overlay
- Stellite #6 Overlay

#### SEAT
- Buna-N
- Neoprene
- EPDM
- Viton®

### SPECIAL FEATURES
- Welded Metal Overlays
- Micron Smooth Finished Ends
- Ring Joint Ends
- Epoxy Coated
- Drain Connections

Consult Factory, we can overlay with most weldable materials.
Mueller Steam Specialty Butterfly Valves are designed for ANSI Class 125/150 flanges and in compliance with MSS-SP-25, MSS-SP-67, API-609 and MIL-V-22122C ships, Type 1, Classes A-D. MSS Butterfly Valves are also approved by the American Bureau of Shipping (ABS).

All valves are 100% factory tested to guarantee bi-direction, drop tight shutoff at full rated pressure.

The Mueller Steam Specialty Butterfly Valve offers numerous features, such as blow out proof stems, primary and secondary stem seals and multiple combinations of materials and configurations.

Our butterfly valve requires no modifications for vacuum service (Models 51, 52, 51M, 52M, 53 & 58).

Ease of repair and actuation are just a few more reasons why Mueller Steam Specialty is an industry leader.

**MODEL 51**
Wafer Style, Cast Iron Body,
Seats: Buna-N, EPDM, Viton®, PTFE
Stems: 416 SS with Ductile Iron or Bronze Discs, 316 SS
with 316 SS Discs
- Size: 2” - 12” (50 - 300mm)
- 250psi WOG @ 100°F
- 17 bar @ 38°C

**MODEL 51M**
Wafer Style, Cast Iron Body,
Seats: Buna-N, EPDM, Viton®, PTFE,
Stems: 416 SS with Ductile Iron or Bronze Discs, 316 SS
with 316 SS Discs
- Size: 14” - 24” (350 - 600mm)
- 150psi WOG @ 150°F
- 10 bar @ 65°C

**MODEL 52**
Full Lug Style, Ductile Iron Body
Seats: Buna-N, EPDM, Viton®, PTFE
Stems: 416 SS with Ductile Iron or Bronze Discs, 316 SS
with 316 SS Discs
- Size: 2” - 12” (50 - 300mm)
- 250psi WOG @ 150°F
- 17 bar @ 65°C

**MODEL 52M**
Full Lug Style, Ductile Iron Body
Seats: Buna-N, EPDM, Viton®, PTFE
Stems: 416 SS with Ductile Iron or Bronze Discs, 316 SS
with 316 SS Discs Cartridge Seat
- Size: 14” - 36” (350 - 900mm)
- 150psi WOG @ 150°F
- 10 bar @ 65°C

**MODEL 53**
Semi-Lug Style
Carbon or Stainless Steel,
Seats: Buna-N, EPDM, PTFE Viton®
Disc: Bronze, Ductile Iron, 316SS
Stems: 316 SS, Cartridge Seat
- Size: 2” - 12” (50 - 300mm)
- 250psi WOG @ 100°F
- 17 bar @ 38°C

**MODEL 58**
Full Flanged, Carbon Steel or Stainless Steel Body
Seats: Buna-N, EPDM, Viton®
Stems & Disc: 316 SS, 416SS
- Size: 14” - 18” (350 - 450mm)
- 150psi WOG @ 100°F
- 10 bar @ 38°C

**MODEL 87**
Wafer Style, Ductile Iron Body, 2” - 24”,
Seats: Buna-N, EPDM, Viton®
Stems: 416 SS, 316 SS,
Disc: Aluminum Bronze, Stainless Steel
- Size: 2” - 12” (50 - 300mm)
- 200psi WOG @ 100°F
- 14 bar @ 38°C
- Size: 14” - 24” (350 - 600mm)
- 150psi (10 bar) WOG @ 100°F WOG @ (38°C)

**MODEL 88**
Lug style, Ductile Iron Body, 2” - 24”
Seats: Buna-N, EPDM, Viton®
Stems: 416 SS, 316 SS
Disc: Aluminum Bronze, Stainless Steel
- Size: 2” - 12” (50 - 300mm)
- 200psi WOG @ 100°F
- 13 bar @ 38°C
- Size: 14” - 24” (350 - 600mm)
- 150psi WOG @ 100°F
- 10 bar @ 38°C
# HOW TO ORDER MUELLER STEAM SPECIALTY
## MODEL 87M, 88M BUTTERFLY VALVES

Example: 04.0-88IH31

This is a 4” lugged body valve with a ductile iron body, 316 SS stem, 316 SS Disc, Buna-N Seat and a ten position handle.

| SIZE: | 4.0 - 88 - I H H - 3 - 1 |
| MODEL: | 87 - Full Wafer  (Replaces previous Model 65M) |
| BODY: | I - Ductile Iron |
| STEM: | H-316SS  (Available 2” – 12” only. Specify 431 SS for 14” – 48” sizes) |
| DISC: | H-316SS  |
| SEAT: | 3 - Buna-N |
| OPERATOR: | 1 - 10-Position Lever handle  (Lockable in both open and closed positions) |

5-Gear Operator  (Recommended for 10” and above)
For fast and economical installation of piping systems, grooved end equipment is often specified. The Mueller Steam Specialty LOCXEND® family of products is the economical choice. With over 60 years of experience in flow control products, Mueller Steam Specialty has designed and produced a complete line of grooved end pipeline products. This line includes the Sure Check® check valve, the Mueller butterfly valve, pump protection products (Control-Chek® combination valve and the suction diffuser) and both “Y” and Tee strainers.

As with all Mueller products, the LOCXEND® products are 100% hydrostatically tested so that our customers are assured of consistent high quality materials and construction.

**MODEL 74G**
Ductile Iron Body Sure Check®, Bronze Discs, Grooved End Connections
Seat: Buna-N Vulcanized Seat
- Size: 3” - 6” (80 - 150mm)
- 640psi WOG @ 100°F
- 44 bar @ 38°C
- 8” - 12”
- 500psi WOG @ 100°F

**MODEL 722G**
Ductile Iron Control-Chek®, Combination Valve, Grooved End Connections
Bolted Yoke Cover, with Position Indicator
- Size 2” - 12” (50 - 300mm)
- 2” - 10” 640psi WOG @ 100°F
- (50 - 250mm) 44 bar @ 38°C
- 12” 500psi WOG @ 100°F
- (300mm) 34 bar @ 38°C

**MODEL 1011G**
CLASS 150
Ductile Iron Body Suction Diffuser
Grooved Inlet, Flanged Outlet, Knob Cover through 8” x 8”
(200 x 200mm)
Bolted available for all sizes
- Size: 2” x 1¼” - 12” x 12”
- (50 x 32mm – 300 x 300mm)
- 300psi WOG @ 100°F
- 20 bar @ 38°C

**MODEL 758G**
Ductile Iron Body “Y” Strainer
Grooved End Connections
Bolted Ductile Iron Cover
- Size: 2” - 12” (50 - 300mm)
- 640psi WOG @ 100°F
- 44 bar @ 38°C

**MODEL 89GEN**
Butterfly Valve, Ductile Iron Body with Epoxy Coating
Grooved End Connections, EPDM Encapsulated Ductile Iron Disc
- Size: 2½” - 12” (65 - 300mm)
- 175psi CWP @ 275°F
- 1.2 bar @ 135°C

**MODEL 42T-G-Q**
Ductile Iron Body “Tee” Strainer, Grooved End Connections, Clamped Ductile Iron Cover
- Size: 2” - 12” (50 - 300mm)
- 2” - 5” 750psi WOG @ 100°F
- (50 - 125mm) 51 bar @ 38°C
- 6” - 700psi WOG @ 100°F
- (150mm) 48 bar @ 38°C
- 8” - 600psi WOG @ 100°F
- (200mm) 41 bar @ 38°C
- 10” - 500psi WOG @ 100°F
- (250mm) 34 bar @ 38°C
- 12” - 400psi WOG @ 100°F
- (300mm) 27 bar @ 38°C
**LOXEND® – GROOVED END PRODUCTS**

**HOW TO ORDER**

Since the LOXEND® Sure Check® Valve can be ordered with a choice of disc and seat materials, the table shown should be used for ordering.

**Example:** Six inch Model 74G, with ductile iron body, bronze disc, Buna-N seat, 316 SS spring, with no special features would have the ordering number shown with the table.

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>BODY</td>
<td></td>
</tr>
<tr>
<td>Ductile Iron</td>
<td>I</td>
</tr>
<tr>
<td>SHAFT</td>
<td></td>
</tr>
<tr>
<td>316 Stainless Steel</td>
<td>H</td>
</tr>
<tr>
<td>DISC</td>
<td></td>
</tr>
<tr>
<td>Carbon Steel</td>
<td>D</td>
</tr>
<tr>
<td>Ductile Iron</td>
<td>I</td>
</tr>
<tr>
<td>Bronze B62</td>
<td>B</td>
</tr>
<tr>
<td>316 Stainless Steel</td>
<td>H</td>
</tr>
<tr>
<td>SEAT</td>
<td></td>
</tr>
<tr>
<td>Buna-N (-20 to 250° F)</td>
<td>3</td>
</tr>
<tr>
<td>Neoprene (-40 to 250° F)</td>
<td>8</td>
</tr>
<tr>
<td>EPDM (-40 to 300° F)</td>
<td>6</td>
</tr>
<tr>
<td>Teflon*- (-200 to 450° F)</td>
<td>7</td>
</tr>
<tr>
<td>Viton®** (-20 to 400° F)</td>
<td>4</td>
</tr>
<tr>
<td>SPRING</td>
<td></td>
</tr>
<tr>
<td>316 Stainless Steel</td>
<td>H</td>
</tr>
</tbody>
</table>

**Model # Code Example**

```
6.0 74G I H B 3 H 0
```

Consult factory for all special features. If no special features are required use "O" in place of "X" in the ordering and tagging number.

The LOXEND® Butterfly Valve can be ordered with a choice of operators. The table below should be used when ordering.

**Example:** Two inch Model 89GEN with EPDM encapsulated disc and no operator.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>BODY</td>
<td></td>
</tr>
<tr>
<td>Ductile Iron, Epoxy Coated</td>
<td>E</td>
</tr>
<tr>
<td>STEM</td>
<td></td>
</tr>
<tr>
<td>316 Stainless Steel</td>
<td>H</td>
</tr>
<tr>
<td>416 Stainless Steel</td>
<td>N</td>
</tr>
<tr>
<td>DISC</td>
<td></td>
</tr>
<tr>
<td>Ductile Iron, Buna-N Encapsulated</td>
<td>3</td>
</tr>
<tr>
<td>Ductile Iron, EPDM Encapsulated</td>
<td>6</td>
</tr>
<tr>
<td>OPERATOR</td>
<td></td>
</tr>
<tr>
<td>Repeat Body code for seat</td>
<td>E</td>
</tr>
<tr>
<td>Without operator</td>
<td>0</td>
</tr>
<tr>
<td>10 position handle</td>
<td>1</td>
</tr>
<tr>
<td>10 position handle with memory</td>
<td>2</td>
</tr>
<tr>
<td>Infinite position handle</td>
<td>3</td>
</tr>
<tr>
<td>Infinite position handle with memory</td>
<td>4</td>
</tr>
<tr>
<td>Gear operator</td>
<td>5</td>
</tr>
<tr>
<td>Electric actuator</td>
<td>6</td>
</tr>
<tr>
<td>Hydraulic actuator</td>
<td>7</td>
</tr>
<tr>
<td>Pneumatic actuator</td>
<td>8</td>
</tr>
<tr>
<td>Other operator</td>
<td>9</td>
</tr>
</tbody>
</table>

**Model # Code Example**

```
2.0 89G E N 6 E 0
```

**Ordering information**

**Important:** To assist you in ordering the proper LOXEND® product for your application, the following information is necessary: operating pressure, temperature, flow rates and/ or velocity and the type of pump used in the installation. If special screens are required for suction diffusers, “Y” Strainers or “Tee” Strainers, the particle retention size should be specified. Advise factory when corrosive fluids are involved.
Complete Mueller Steam Specialty Representative information available at:
MuellerSteam.com