Gate Valves

Features

- 400 Series stainless steel stem bushing
- OS&Y outside screw and yoke
- Threads never contact media
- Swing-away eye bolts
- Extra deep stuffing box
- TFE cup and cone rings
- Back seat
- Fully contained TFE gasket
- Stainless steel bolting
- High quality castings

<table>
<thead>
<tr>
<th>Parts &amp; Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Handwheel nut</td>
</tr>
<tr>
<td>2. Handwheel</td>
</tr>
<tr>
<td>3. Handwheel key</td>
</tr>
<tr>
<td>4. Stem nut (bushing)</td>
</tr>
<tr>
<td>5. Yoke cap bolts</td>
</tr>
<tr>
<td>6. Yoke cap nuts</td>
</tr>
<tr>
<td>7. Yoke cap</td>
</tr>
<tr>
<td>8. Grease fitting</td>
</tr>
<tr>
<td>9. Stem</td>
</tr>
<tr>
<td>10. Gland nuts</td>
</tr>
<tr>
<td>11. Gland flange</td>
</tr>
<tr>
<td>12. Eye bolts</td>
</tr>
<tr>
<td>13. Gland follower</td>
</tr>
<tr>
<td>14. Eye bolt pins</td>
</tr>
<tr>
<td>15. Packing</td>
</tr>
<tr>
<td>16. Yoke nuts</td>
</tr>
<tr>
<td>17. Yoke bolts</td>
</tr>
<tr>
<td>18. Yoke (separable)</td>
</tr>
<tr>
<td>19. Bonnet</td>
</tr>
<tr>
<td>20. Bonnet nuts</td>
</tr>
<tr>
<td>21. Gasket</td>
</tr>
<tr>
<td>22. Bonnet bolts</td>
</tr>
<tr>
<td>23. Gate</td>
</tr>
<tr>
<td>24. Body</td>
</tr>
</tbody>
</table>

Gate valves provide a straight-through passage for the flow of fluids. They are used where unobstructed flow and low pressure drops are needed. Although gate valves are not recommended for throttling service, they are suitable for on/off service in almost all media and are particularly useful in cryogenic or high temperature service.
Gate Valves ANSI Class 150

Model 101 ½ thru 2” (Investment Cast Body)
Model 115 ½ thru 2” (Investment Cast Body)
Model 115 3 thru 24”* (Sand Cast Body)

<table>
<thead>
<tr>
<th>Size (in.)</th>
<th>½</th>
<th>¾</th>
<th>1</th>
<th>1½</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
<th>16</th>
<th>18</th>
<th>20</th>
<th>24</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>3 ¼</td>
<td>3 ¾</td>
<td>3 ⅞</td>
<td>5 ⅞</td>
<td>5 ¾</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>8 ⅞</td>
<td>8 ⅜</td>
<td>9 ⅜</td>
<td>13 ⅝</td>
<td>14 ¾</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>4 ⅝</td>
<td>4 ¾</td>
<td>4 ⅞</td>
<td>8 ⅜</td>
<td>8 ⅞</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Weight (lbs.)</td>
<td>7</td>
<td>7</td>
<td>10</td>
<td>17</td>
<td>22</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Socketweld=101-X, Screwed End=101-SE

Specifications:
- Sizes ½ thru 24”*
- Pressures: ANSI Class 150
- Ends: flanged, threaded, socketweld and butt weld
- Materials: cast SS and exotic alloy
- Design: ANSI B16.34 and B16.10

Features:
- OS&Y
- Bolted bonnet
- Solid wedge
- TFE gasket
- Rising stem
- Integral seat
- TFE packing
- SS bolting

Options:
- Exotic alloys
- Renewable disc
- Hardfacing
- Jackets
- Special bolting
- Alloy analyzer test
- Cryogenics
- Flex wedge
- Operators
- Acid shield
- NDT test

*For larger sizes, consult factory.

COOPER®
Gate Valves ANSI Class 300

Model 3381 ½ thru 2”  
(Investment Cast Body)

Model 130 ½ thru 2”  
(Investment Cast Body)

Model 130 3 thru 12”*  
(Sand Cast Body)

Features:
- OS&Y
- Bolted bonnet
- Solid wedge
- TFE gasket
- Rising stem
- Integral seat
- TFE packing
- SS bolting

Specifications:
- Sizes ½ thru 12”*
- Pressures: ANSI Class 300
- Ends: flanged, threaded, socketweld and butt weld
- Materials: cast SS and exotic alloy
- Design: ANSI B16.34 and B16.10

Options:
- Exotic alloys
- Cryogenics
- Renewable disc
- Flex wedge
- Hardfacing
- Operators
- Jackets
- Acid shields
- Special bolting
- NDT test
- Alloy analyzer test

*For larger sizes, consult factory.

Size (in.)  ½  ¾  1  1 ½  2
A  3½  3½  3½  5½  5½
B  8½  8½  9½  13½  14½
C  4  4  4  8  8

Weight (lbs.)  9  9  12  27  40

Socketweld=3381-X; Screwed End=3381-SE

Size (in.)  ¼  ½  1  1 ½  2  3  4  6  8  10  12
A  5½  6  6½  7½  8½  11½  12  15½  16½  18  19½
B  8½  8½  9½  13½  14½  22½  26½  34½  42½  55½  65
C  4  4  4  8  8  10  12  16  22  22  22
D  3½  4½  4½  6½  6½  8½  10  12½  15  17½  20½

Weight (lbs.)  13  16  24  39  53  100  171  305  540  823  1250

Raised Face Flange=130-RF; Flat Face Flange=130-FF; Ring Type Joint Flange=130-RJ; Butt weld=130-BW
Gate Valves ANSI Class 600

Model 3611 ½ thru 2” (Investment Cast Body)

Model 160 ½ thru 2” (Investment Cast Body)

Model 160 3 thru 10”* (Sand Cast Body)

Features:
- OS&Y
- Bolted bonnet
- Solid wedge
- TFE gasket
- Rising stem
- Integral seat
- TFE packing
- SS bolting

Specifications:
- Sizes ½ thru 10”*
- Pressures: ANSI Class 600
- Ends: flanged, threaded, socketweld and butt weld
- Materials: cast SS and exotic alloy
- Design: ANSI B16.34 and B16.10

Options:
- Exotic alloys
- Cryogenics
- Renewable disc
- Flex wedge
- Hardfacing
- Operators
- Jackets
- Acid shields
- Special bolting
- NDT test
- Alloy analyzer test

*For larger sizes, consult factory.

COOPER®
Gate Valves ANSI Class 900

Model 190
1 thru 4"*
(Sand Cast Body)

<table>
<thead>
<tr>
<th>Size (in.)</th>
<th>1</th>
<th>1 1/2</th>
<th>2 1/2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>10</td>
<td>12</td>
<td>14 1/2</td>
<td>15</td>
<td>18</td>
</tr>
<tr>
<td>B</td>
<td>14</td>
<td>15 1/2</td>
<td>17 1/2</td>
<td>20 1/2</td>
<td>32 1/2</td>
</tr>
<tr>
<td>C</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>14</td>
<td>17</td>
</tr>
<tr>
<td>D</td>
<td>5 1/4</td>
<td>7</td>
<td>8 1/2</td>
<td>9 1/2</td>
<td>11 1/2</td>
</tr>
<tr>
<td>Weight (lbs.)</td>
<td>55</td>
<td>70</td>
<td>125</td>
<td>202</td>
<td>380</td>
</tr>
</tbody>
</table>

*Raised Face=190RF; Flat Face=190FF; Ring Joint=190RJ; Butt Weld=190BW

Features:
- OS&Y
- Bolted bonnet
- Solid wedge
- TFE gasket
- Rising stem
- Integral seat
- TFE packing
- SS bolting

Specifications:
- Sizes 1 thru 4**
- Pressures: ANSI Class 900
- Ends: flanged and butt weld
- Materials: cast SS and exotic alloy
- Design: ANSI B16.34 and B16.10

Options:
- Exotic alloys
- Renewable disc
- Hardfacing
- Operators
- Jackets
- Acid shields
- Special bolting
- NDT test
- Alloy analyzer test

*For larger sizes, consult factory.

COOPER®
Gate Valves ANSI Class 1500

Model 1151
½ thru 1”
(½”, ¾”—Investment Cast Body)
(1”—Sand Cast Body)

Model 1150
1 thru 3”*
(Sand Cast Body)

Features:
- OS&Y
- Bolted bonnet
- Solid wedge
- TFE gasket
- Rising stem
- Integral seat
- TFE packing
- SS bolting

Specifications:
- Sizes ½ thru 3”*
- Pressures: ANSI Class 1500
- Ends: flanged, threaded, socketweld and buttweld
- Materials: cast SS and exotic alloy
- Design: ANSI B16.34 and B16.10

Options:
- Exotic alloys
- Renewable disc
- Hardfacing
- Jackets
- Special bolting
- Alloy analyzer test
- Cryogenics
- Flex wedge
- Operators
- Acid shields
- NDT test

*For larger sizes, consult factory.