Series SB-SS & CS
Seal Welded High Pressure Ball Valves

ASME B16.34 & API 608 Compliant

FEATURES
• Seal Welded Construction
• Available in WCB Carbon Steel with 316SS Trim, or Full CF8M/316Stainless
• 2160WOG Rating on CF8M, 2220WOG on WCB
• Fully Compliant with ASME B 16.34 Class 900
• All Models are NACE MR-01-75 Compliant
• All Models are API 607 Fourth Edition Fire Safe
• Fully Compliant with API608
• Standard ISO Actuator Mounting Pads on all Sizes
• Standard Locking Stainless Steel Handles
• The Ultimate Valve for Safe High Pressure Service!

MATERIALS OF CONSTRUCTION

<table>
<thead>
<tr>
<th>PART</th>
<th>DESCRIPTION</th>
<th>STANDARD MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Body</td>
<td>ASTM A351 GR CF8M or A216 GR WCB</td>
</tr>
<tr>
<td>2</td>
<td>Tailpiece</td>
<td>ASTM A351 GR CF8M or A216 GR WCB</td>
</tr>
<tr>
<td>3</td>
<td>Ball</td>
<td>ASTM A276 Gr. 316 SS</td>
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<tr>
<td>4</td>
<td>Stem</td>
<td>ASTM A276 Gr. 316 SS</td>
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<tr>
<td>5</td>
<td>Packing Nut</td>
<td>ASTM A276 Gr. 316 SS</td>
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<tr>
<td>6</td>
<td>Seats (2)</td>
<td>R-PTFE</td>
</tr>
<tr>
<td>7</td>
<td>Tailpiece Seal</td>
<td>Graphite</td>
</tr>
<tr>
<td>8</td>
<td>Thrust Washer</td>
<td>PTFE</td>
</tr>
<tr>
<td>9</td>
<td>Stem Packing</td>
<td>Graphite</td>
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<tr>
<td>10</td>
<td>Lock Washer</td>
<td>304 SS</td>
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<tr>
<td>11</td>
<td>Handle Nut</td>
<td>304 SS</td>
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<td>12</td>
<td>Handle Assy.</td>
<td>304 SS</td>
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<tr>
<td>13</td>
<td>Name Plate</td>
<td>300 SS</td>
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RATINGS
2220 PSIG @100F Water, Oil, Gas (WCB)
2160 PSIG @100F Water, Oil, Gas (CF8M)
250 PSIG Sat. Steam
### Dimensions, Weights, CV Factors & Maximum Operating Torque

<table>
<thead>
<tr>
<th>Size</th>
<th>Port</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J Dia</th>
<th>K Dia</th>
<th>L (3 Tapped Holes)</th>
<th>ISO Pattern</th>
<th>Weight Lbs.</th>
<th>CV</th>
<th>Max. Torque (R-PTFE)</th>
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<td>2.23</td>
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<td>.35</td>
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<td>.31</td>
<td>1.42</td>
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<td>F03</td>
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<td>2.23</td>
<td>5.04</td>
<td>1.53</td>
<td>.78</td>
<td>.35</td>
<td>.20</td>
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### Numbering System … How to Order

**SB**
- **SERIES**
  - SB = Seal Welded
  - 2160 WOG (SS)
  - 2220 WOG (CS)
  - 1800 WOG (A-20)

**R**
- **PORT SIZE**
  - R = Reduced
  - F = Full
  - (1/4" - 3/8")

**S**
- **BODY MATERIAL**
  - S = Stainless (ASTM A351-CF8M)
  - C = Carbon (A216-WCB)
  - A = Alloy 20 (A351-CN7M)

**S**
- **BALL/STEM MATERIAL**
  - S = 316 Stainless
  - A = Alloy 20

**R**
- **SEAT MATERIAL**
  - R = R-PTFE
  - P = Peek

**G**
- **SEAL MATERIAL**
  - G = Graphite
  - R = R-PTFE

**SL**
- **HANDLE TYPE**
  - SL = Stainless Latch
  - SO = Stainless Oval
  - LO = Locking Stainless Oval
  - ST = 304 SS Tee Handle
  - PA = Double Acting Pneumatic
  - SA = Spring Return Pneumatic
  - SR = Deadman Handle
  - EA = 115VAC Electric Actuated

**TT**
- **ENDS**
  - TT = FNPT
  - MT = MxF

**100**
- **SIZE**
  - 025 = 1/4"
  - 038 = 3/8"
  - 050 = 1/2"
  - 075 = 3/4"
  - 100 = 1"
  - 125 = 1-1/4"
  - 150 = 1-1/2"
  - 200 = 2"