CleanFLOW™ SB7 ball valves are engineered to be a true process piping component to specifically meet the demanding processes found in the pharmaceutical and food & beverage industries. The “Tube-ID” port opening is dimensionally identical to the adjacent tubing to comply with ASME-BPE guidelines. The standard TFM1600™ seat material complies with 21CFR 177.1550.

**SERIES SB7 DESIGN FEATURES**

- ASME-BPE compliant
- Silicone Free
- Cavity filled TFM1600™ seat option available
- Complete 316L Stainless Steel cast construction
- Drainable design with “Tube-ID” dimensions
- Weld bosses for easy purge porting on ends
- ISO 5211 mounting pad for easy actuation
- Encapsulated body seals to facilitate welding without disassembly
- End connections include Tri-Clamp and Extended Tube O.D.
- Controlled delta ferrite chemistry
- Chevron (V-Ring) Stem Seals assures low friction and leak tight performance (Sizes 2-1/2” ~ 4” only)
- Standard interior finish is 20Ra or better
- ETO ends are designed for Orbital Welding
- Exclusive “Fine Adjust” handle for precise positioning on sizes 1/2” ~ 2”
- Locking device is standard on 3” and 4” valves

**MATERIALS OF CONSTRUCTION**

<table>
<thead>
<tr>
<th>ITEM #</th>
<th>DESCRIPTION</th>
<th>MATERIALS SPECIFICATIONS (Additional options available)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Body</td>
<td>316L Stainless Steel (ASTM A351 CF3MN)</td>
</tr>
<tr>
<td>2</td>
<td>End Connector</td>
<td>316L Stainless Steel (ASTM A351 CF3MN)</td>
</tr>
<tr>
<td>3</td>
<td>Ball</td>
<td>316L Stainless Steel (ASTM A351 CF3MN)</td>
</tr>
<tr>
<td>4</td>
<td>Stem</td>
<td>316L Stainless Steel (ASTM A351 CF3MN)</td>
</tr>
<tr>
<td>5</td>
<td>Seat</td>
<td>TFM1600™</td>
</tr>
<tr>
<td>6</td>
<td>Body Seal</td>
<td>PTFE/TFM1600™</td>
</tr>
<tr>
<td>7</td>
<td>Stem Seal</td>
<td>TFM1600™</td>
</tr>
<tr>
<td>8</td>
<td>Locking Device (Optional)</td>
<td>304 Stainless Steel</td>
</tr>
</tbody>
</table>

There are no elastomers used for any of the components on the SB7 valves.
Only PTFE and TFM are used for seats and seals.

What do you need today™
### SERIES SB7 BALL VALVE

**Three-Piece CleanFLOW™ High Purity Ball Valve, Sizes 1/2” ~ 6”**

#### DIMENSIONS, WEIGHT, CV, TORQUE

<table>
<thead>
<tr>
<th>Size</th>
<th>A-1</th>
<th>A-2</th>
<th>B</th>
<th>D</th>
<th>L</th>
<th>W</th>
<th>Weight</th>
<th>Cv</th>
<th>Torque*</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>in.</td>
<td>mm</td>
<td>in.</td>
<td>mm</td>
<td>in.</td>
<td>mm</td>
<td>lbs</td>
<td>kg</td>
<td>in-lbf</td>
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<tr>
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<td>0.065</td>
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</table>

#### SB7 - PRESSURE/TEMPERATURE CHART

Pressures may be limited by the types of clamps and fittings used with CleanFLOW™ valves.

*At full differential pressure for clean fluids with TFM1600™ Non-Cavity Filled Seats*

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Subject to revisions. [Document: SVF_SB7_Data_Sheet - 03/24/2016]

Specifications subject to change without notice.
### How to Order Series SB7 Ball Valves

**Three-Piece CleanFLOW™ High Purity Ball Valve, Sizes 1/2” ~ 6”**

#### Ordering Code Sequence (Columns 1 thru 11)

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>SERIES</td>
<td>BODY</td>
<td>ENDS</td>
<td>BALL</td>
<td>STEM</td>
<td>SEAT MATERIAL</td>
</tr>
<tr>
<td>SB70 = Series SB7</td>
<td>6 = 316L Stainless Steel ASTM A351 CF3MN</td>
<td>6 = 316L Stainless Steel ASTM A351 CF3MN</td>
<td>6 = 316L Stainless Steel ASTM A351 CF3MN</td>
<td>6 = 316L Stainless Steel ASTM A351 CF3MN</td>
<td>A = TFM1600™ Cavity Filled</td>
</tr>
</tbody>
</table>

#### BODY SEAL

- T = PTFE
- A = TFM1600™ (6” Size Only)

#### END CONNECTIONS

- TR0 = Tri-Clamp Ends
- JAA = Tri-Clamp End X Extended Tube-OD End (Tri-Clamp End is under the handle on manual valves)
- JAH = Extended Tube-OD End X Tri-Clamp End (Extended Tube-OD End is under the handle on manual valves)

#### VALVE SIZE

- 005 = 1/2”
- 007 = 3/4”
- 010 = 1”
- 015 = 1-1/2”
- 020 = 2”
- 025 = 2-1/2”
- 030 = 3”
- 040 = 4”
- 060 = 6”

#### OPTIONS*

- 00 = None
- 07 = 3/4”
- 010 = 1”
- 015 = 1-1/2”
- 020 = 2”
- 025 = 2-1/2”
- 030 = 3”
- 040 = 4”
- 060 = 6”

#### SPECIAL SERVICES*

- 00 = None
- 07 = 3/4”
- 010 = 1”
- 015 = 1-1/2”
- 020 = 2”
- 025 = 2-1/2”
- 030 = 3”
- 040 = 4”
- 060 = 6”

*Not all Options or Special Services available on all ball valves. Consult CSI for additional information.*

**Order Example:** (SB706666ATTR00050000) The Part Number will contain 20 digits.