209F Flanged Ball Valve

2-Piece Full Port (ANSI 150/300)
ISO 5211 Mounting Pad

For Manual & Automated Service

General Chemical
Industrial
Other Corrosion Resistant Applications
The 209F Series Ball Valve

The 209F series ball valve has a full port design and is available with 150# or 300# flanged ends. The dual pattern ISO 5211 mounting pad facilitates mounting of pneumatic and electric actuators.

Standard Features and Benefits

- **Full Port Design**
  Full port construction improves flow characteristics for greater process efficiencies
- **High-Cycle, Live-Loaded Stem Packing (1/2" - 4")**
  Ensures tight seal
  Extends service life
- **Adjustable Gland Packing (6" - 12")**
- **Blow-Out-Proof Stem**
  Stem is bottom loaded to prevent removal when valve is in service
- **Fully Encapsulated Body Seal**
- **Locking Device**
  Enables plant personnel to secure valve in open or closed position when manually operated
- **ISO 5211 Mounting Pad**
- **Steam Service to 150 PSI Saturated Steam (Standard)**
  250 psi saturated steam through 2" (300# flanges + S seat / Grafoil body seal)
- **Anti-Static Stem**
- **Investment Cast (1/2" - 4")**
  Improves dimensional control and reduces porosity
- **Sand Cast with Hollow Ball (6" - 12")**
- **Standard Seats and Seals Suitable for 150 PSI Saturated Steam**

Options

- **Carbon Steel construction to NACE MR01.75**
- **Oval Handle (1/2" - 1-1/2")**
- **One-Piece Stem Extension**
- **Gear Box**

Operating Conditions

- **Temperature range (RTFE):**
  -20°F ~ 420°F
- **Maximum pressure (RTFE):**
  ANSI 150: 275 PSI WOG @ 100°F
  ANSI 300: 720 PSI WOG @ 100°F

Specifications

- All valves shell and seat tested to ANSI/ASME B16.34 and API 598
- Length to ANSI B16.10,
  End connections to ANSI B16.5
209F Ordering Information

Example: 2” 209F Full Port Ball Valve, with ISO 5211 Actuator Mounting Pad and Locking Device, 316SS Body and Trim, RTFE (15% C.F.) Seats, PTFE Seals, ANSI 150# Flanged Ends

<table>
<thead>
<tr>
<th>209F</th>
<th>D</th>
<th>6</th>
<th>6</th>
<th>6</th>
<th>C</th>
<th>T</th>
<th>AA</th>
<th>2</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>valve Series</td>
<td>Valve Size</td>
<td>Body Material</td>
<td>End Material</td>
<td>Ball Material</td>
<td>Stem Material</td>
<td>Seat</td>
<td>Seal</td>
<td>End Connection</td>
<td>Port Config.</td>
</tr>
<tr>
<td>Full Port</td>
<td>1/2”</td>
<td>A351 Gr. CF8M (316)</td>
<td>6</td>
<td>A351 Gr. CF8M (316)</td>
<td>6</td>
<td>A351 Gr. CF8M (316)</td>
<td>RTFE (15% C.F.)</td>
<td>P - PEEK (1/2” - 2”)</td>
<td>S - Carbon, Carbon Fiber, Ektrol Filled PTFE (1/2” - 2”)</td>
</tr>
<tr>
<td>7</td>
<td>3/4”</td>
<td>1”</td>
<td>2”</td>
<td>2”</td>
<td>3”</td>
<td>4”</td>
<td>6”</td>
<td>8”</td>
<td>10”</td>
</tr>
</tbody>
</table>

Due to continuous product development, information may change without notice.