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

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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”)**

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>Valve Series</th>
<th>Valve Size</th>
<th>Body Material</th>
<th>End Material</th>
<th>Ball Material</th>
<th>Stem Material</th>
<th>Seat</th>
<th>Seal</th>
<th>End Connection</th>
<th>Port Config.</th>
<th>Ball Config.</th>
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<tbody>
<tr>
<td>209F - Full Port</td>
<td>1/2&quot;</td>
<td>6 - A351 Gr. CF8M (316)</td>
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<td>6 - A351 Gr. CF8M (316)</td>
<td>6 - A351 Gr. CF8M (316)</td>
<td>C - RTFE (15% C.F.)</td>
<td>T - PTFE</td>
<td>U - UHMWPE</td>
<td>2 - 2 Way</td>
<td>S - Straight Port</td>
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Due to continuous product development, information may change without notice.