Size
1/2" - 4" (Full Port Tube OD)
1000 WOG

End Connections
Extended Tube OD
Short Tube OD
Clamp Ends
Butt Weld Pipe Ends

Valve Materials
316L Stainless Steel

Ball and Stem Materials
316L Stainless Steel

Seat Materials
Teflon (PTFE)
TFM

Service Applications
Biotech
Clean Steam
Cleaning Solutions
Detergents
Gas and Air Delivery
High Purity Gases
High Purity Waters/Oils
Pharmaceutical
Vacuum
Waxes

Applicable Standards
ASME B16.34
ASME BPE
ISO 5211
**BALL VALVES**

**7100 SERIES**

**Alloy Valves and Control**

**Extended Tube OD**

![Plan View with Handle Removed](image)

**Tri Clamp Ends**

![Plan View with Handle Removed](image)

<table>
<thead>
<tr>
<th>SIZE</th>
<th>A (in.)</th>
<th>B (in.)</th>
<th>C (in.)</th>
<th>D (in.)</th>
<th>E (in.)</th>
<th>F (in.)</th>
<th>ISO 5211</th>
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<tbody>
<tr>
<td>1/2”</td>
<td>6.70</td>
<td>3.35</td>
<td>4.76</td>
<td>1.75</td>
<td>0.35</td>
<td>0.354</td>
<td>F03/F04</td>
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<td>3/4”</td>
<td>7.20</td>
<td>3.60</td>
<td>4.76</td>
<td>1.89</td>
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<td>0.354</td>
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<td>1”</td>
<td>7.56</td>
<td>3.78</td>
<td>5.40</td>
<td>2.32</td>
<td>0.43</td>
<td>0.433</td>
<td>F04/F05</td>
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<td>1 1/2”</td>
<td>8.90</td>
<td>4.45</td>
<td>7.17</td>
<td>2.63</td>
<td>0.55</td>
<td>0.551</td>
<td>F05/F07</td>
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<td>2”</td>
<td>9.75</td>
<td>4.88</td>
<td>7.17</td>
<td>3.32</td>
<td>0.55</td>
<td>0.551</td>
<td>F05/F07</td>
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<tr>
<td>2 1/2”</td>
<td>1.13</td>
<td>5.56</td>
<td>14.60</td>
<td>3.94</td>
<td>0.67</td>
<td>0.669</td>
<td>F07/F10</td>
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<tr>
<td>3”</td>
<td>13.55</td>
<td>6.78</td>
<td>22.00</td>
<td>4.94</td>
<td>0.87</td>
<td>0.866</td>
<td>F07/F10</td>
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<tr>
<td>4”</td>
<td>Contact AVCO for details</td>
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</tr>
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</table>

**Contact AVCO for details**
General Notes
1. Each port has its own seat for greater flexibility of flow patterns
2. Flow patterns are available as ‘L’ or ‘T’ ported balls
3. 4 ported ‘cross’ flow balls are available upon request
4. These valves can be operated with 90° or 180° degree rotation
5. These valves can be installed in any orientation

Features
- Tube OD Bore
- 316L Stainless Body, Ball, Stem & Ends
- Inter-changeable Ends
- Standard Seats
- Cavity Filled Seats
- Electro-Polished Internal Bore to 10 Ra
- ISO 5211 Mounting Pad
- ASME BPE Compliant
- Live Loaded Stem Seals
- Full Port Design
- Direct Mount Actuation
Electric Actuator
- 120 VAC
- 12/24 VDC
- NEMA 4/7
- Positioners 4-20 mA
- Reversing
- Telemetry
- Battery Back-up
- Spring Return

Pneumatic Actuator
- Double Acting
- Spring Return
- Solenoid Valves
- Limit Switches
- Positioners 3-15 psi
- Positioners 4-20 mA
- Intelligent Positioner
- Declutchable Manual Override

Manual Valves
- Oval Handle
- Spring Return
- Fusible Link
- Locking Device
- Gear Operators
- Stem Extensions
- Wing Handles

HOW TO ORDER

<table>
<thead>
<tr>
<th>71</th>
<th>3</th>
<th>3</th>
<th>T</th>
<th>T</th>
<th>TR</th>
<th>100</th>
<th>L1</th>
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<tr>
<td>Series</td>
<td>Body &amp; End Material</td>
<td>Ball &amp; Stem Material</td>
<td>Seat Material</td>
<td>Seal Material</td>
<td>End Style</td>
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<td>Flow Pattern</td>
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<td>3 - 316L SS</td>
<td>3 - 316L SS</td>
<td>E - TFM</td>
<td>E - TFM</td>
<td>ETO - Extended Tube OD</td>
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<td>400 - 4&quot;</td>
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Example ordering codes:
- 7133EE-ETO-100-L1 = 1" ball valve with stainless steel body/ball, TFM seats/seals, extended tube OD ends with L1 porting
- 7133TT-TR-050-T3 = 1/2" ball valve with stainless steel body/ball, Teflon seats/seals, clamp ends with T3 porting

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