Apollo 87A-800 Series

Alloy 20 ANSI Class 300 Flanged Standard Port Ball Valve - 1-1/2” through 2”

Standards Compliance
ASME B16.5 - “Pipe Flanges and Flanged Fittings”
ASME B16.10 - “Face to Face Dimensions of Valves”
ASME B16.34 - “Valves - Flanged, Threaded, and Welding End”
API 607 - “Fire Test - Soft Seated Quarter Turn Valves” (-24 option)
API 608 - “Ball Valves - Flanged, Threaded, and Welding End”
MSS SP-25 - “Standard Marking System for Valves”
MSS SP-61 - “Pressure Testing of Steel Valves”
MSS SP-72 - “Ball Valves with Flanged or Buttwelding Ends”
ASME B31.1, B31.3, & B31.8 - Pressure Piping Standards

Standard Features
Two Position Locking Device
Antistatic Grounded Stem
CHV Style Adjustable Stem Seals
Blow-out Proof Stem Design
Cast Boss for Bleed / Drain Port
Four Point ISO 5211 Mounting Pad Bolt Circle
Slot Vented Ball for Thermal Expansion
Vacuum Service to 29 inches Hg

Materials of Construction

<table>
<thead>
<tr>
<th>Description</th>
<th>Material</th>
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<tbody>
<tr>
<td>1. Body</td>
<td>ASTM A351 CN7M</td>
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<tr>
<td>2. Retainer</td>
<td>ASTM B473 (UNS N08020) or CN7M</td>
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<td>3. Ball</td>
<td>ASTM B473 (UNS N08020) or CN7M</td>
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<td>4. Stem</td>
<td>ASTM B473 (UNS N08020)</td>
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<td>5. Packing Gland</td>
<td>ASTM A276 Type 316</td>
</tr>
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<td>6. Stem Seals</td>
<td>PTFE</td>
</tr>
<tr>
<td>7. Seats</td>
<td>RPTFE</td>
</tr>
<tr>
<td>8. Gland Screws</td>
<td>ASTM A193 B8 Class 1</td>
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<tr>
<td>9. Gland Plate</td>
<td>302 or 304 Stainless Steel</td>
</tr>
<tr>
<td>10. Stem Nut</td>
<td>316 Stainless Steel</td>
</tr>
<tr>
<td>11. Lever</td>
<td>302 or 304 SS with Vinyl Grip</td>
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<tr>
<td>12. Stem Bearing</td>
<td>RPTFE</td>
</tr>
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<td>13. Stop</td>
<td>ASTM A276 Type 316</td>
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<td>14. Stop Screw</td>
<td>18-8 Stainless Steel</td>
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<tr>
<td>15. Lock Plate</td>
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<td>17. Lockwasher</td>
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Options Available

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<td>Standard (Locking Kit and Grounded Stem)</td>
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Apollo 87A-800 Series

Alloy 20 ANSI Class 300 Flanged Standard Port Ball Valve - 2-1/2” through 3”

Standards Compliance
ASME B16.5 - “Pipe Flanges and Flanged Fittings”
ASME B16.10 - “Face to Face Dimensions of Valves”
ASME B16.34 - “Valves - Flanged, Threaded, and Welding End”
API 607 - “Fire Test - Soft Seated Quarter Turn Valves” (-24 option)
API 608 - “Ball Valves - Flanged, Threaded, and Welding End”
MSS SP-25 - “Standard Marking System for Valves”
MSS SP-61 - “Pressure Testing of Steel Valves”
MSS SP-72 - “Ball Valves with Flanged or Buttwelding Ends”
ASME B31.1, B31.3, & B31.8 - Pressure Piping Standards

Materials of Construction

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<th>Description</th>
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<th>Suffix</th>
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<td>ASTM A351 CN7M</td>
<td>-01</td>
<td>Standard (Locking Kit and Grounded Stem)</td>
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<td>2. Retainer</td>
<td>ASTM A351 CN7M</td>
<td>-14</td>
<td>Side Vented Ball (See Page J2)</td>
</tr>
<tr>
<td>3. Ball</td>
<td>ASTM B473 (UNS N08020) or CN7M</td>
<td>-21</td>
<td>UHMWPE Seats</td>
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<tr>
<td>4. Stem</td>
<td>ASTM B473 (UNS N08020)</td>
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<td>Fire Safe (Graphite Packing and Seal)</td>
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<td>5. Packing Gland</td>
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<td>PTFE Seats and Seals</td>
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<td>8. Gland Screws</td>
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<td>9. Gland Plate</td>
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<td>Grounded Ball and Stem</td>
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<td>MPTFE Seats and Graphite Packing</td>
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<td>11. Lever</td>
<td>316 Stainless Steel with Vinyl Grip</td>
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<td>Drilled and Tapped Purge Ports with Plugs</td>
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<td>RPTFE</td>
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<td>Gear Operator with Standard Handwheel</td>
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<tr>
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<td>316 Stainless Steel</td>
<td>-MH</td>
<td>Gear Operator with Standard Handwheel &amp; Locking Device</td>
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<tr>
<td>15. Lock Plate</td>
<td>302 or 304 Stainless Steel</td>
<td>-MJ</td>
<td>Gear Operator with Oversize Handwheel</td>
</tr>
<tr>
<td>16. Body Seal</td>
<td>RPTFE</td>
<td>-MK</td>
<td>Gear Operator with Oversize Handwheel &amp; Locking Device</td>
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<tr>
<td>17. Grounding Spring</td>
<td>Stainless Steel</td>
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<td>MPTFE Seats and Graphite Packing</td>
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<tr>
<td>19. Body Joint Nut</td>
<td>ASTM A194 Grade 8</td>
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<td>20. Lockwasher</td>
<td>302 or 304 Stainless Steel</td>
<td>-MG</td>
<td>Gear Operator with Standard Handwheel</td>
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</tbody>
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Standard Features

- Two Position Locking Device
- Antistatic Grounded Stem
- Blow-out Proof Stem Design
- Cast Bosses for Bleed / Drain Ports
- Four Point ISO 5211 Mounting Pad Bolt Circle
- Slot Vented Ball for Thermal Expansion
- Vacuum Service to 29 inches Hg

Options Available

<table>
<thead>
<tr>
<th>Number</th>
<th>Size</th>
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<th>B</th>
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<th>L</th>
<th>M</th>
<th>N</th>
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<tbody>
<tr>
<td>87A-809-01</td>
<td>2-1/2”</td>
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<td>6.23</td>
<td>8.40</td>
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<td>0.750</td>
<td>0.477</td>
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</table>
Apollo 87A-800 Series

Alloy 20 ANSI Class 300 Flanged Standard Port Ball Valve - 4” through 8”

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<td>ASTM A276 Type 316</td>
</tr>
<tr>
<td>6. Stem Seals</td>
<td>PTFE</td>
</tr>
<tr>
<td>7. Seats</td>
<td>RPTFE</td>
</tr>
<tr>
<td>8. Gland Screws</td>
<td>ASTM A193 B8 Class 1</td>
</tr>
<tr>
<td>9. Gland Plate</td>
<td>316 Stainless Steel</td>
</tr>
<tr>
<td>10. Adapter Screw</td>
<td>18-8 Stainless Steel</td>
</tr>
<tr>
<td>11. Handle Adapter</td>
<td>316 Stainless Steel</td>
</tr>
<tr>
<td>12. Stem Bearing</td>
<td>RPTFE</td>
</tr>
<tr>
<td>13. Stop</td>
<td>ASTM A276 Type 316</td>
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<tr>
<td>14. Stop Screw</td>
<td>316 Stainless Steel</td>
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<tr>
<td>15. Lock Plate</td>
<td>302 or 304 Stainless Steel</td>
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<tr>
<td>16. Body Seal</td>
<td>RPTFE</td>
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<tr>
<td>17. Grounding Spring</td>
<td>Stainless Steel</td>
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<tr>
<td>18. Body Joint Stud</td>
<td>ASTM A193 Grade B8M</td>
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<tr>
<td>20. Adapter Screw</td>
<td>18-8 Stainless Steel</td>
</tr>
<tr>
<td>21. Pipe Handle</td>
<td>Galvanized Steel (not shown)</td>
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<td>8. Gland Screws</td>
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<td>316 Stainless Steel</td>
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Two Position Locking Device
Antistatic Grounded Stem
CHV Style Adjustable Stem Seals
Blow-out Proof Stem Design
Cast Bosses for Bleed / Drain Ports
Four Point ISO 5211 Mounting Pad Bolt Circle
Slot Vented Ball for Thermal Expansion
Vacuum Service to 29 inches Hg

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<td>UHMWPE Seats</td>
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<td>-24</td>
<td>Fire Safe (Graphite Packing and Seal)</td>
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<td>PTFE Seats and Seals</td>
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<td>Oxygen Cleaned (Stainless Steel Valves Only)</td>
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<td>Gear Operater with Standard Handwheel &amp;</td>
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<tr>
<td>-MJ</td>
<td>Gear Operater with Oversize Handwheel</td>
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<td>-MK</td>
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