**86-600 Series**

Stainless Steel 3-Piece High Pressure Full Port Socket Weld Ball Valve

Socket Weld, 1/2” to 1” 1500 psig WOG, 1-1/4” & 2” 1250 psig WOG, Cold Non-Shock. 150 psig Saturated Steam.

Vacuum Service to 29 inches Hg.


MSS SP-110; Ball Valves Threaded, Socket-Welding, Solder Joint, Grooved and Flared Ends.

**FEATURES**

- Adjustable packing gland
- In-line repairable
- Blow-out-proof stem design
- (-29) certified to API 607 4th ed. Class 600 burn
- Meets NACE MR-01-75
- Investment Cast Components
- Actuator mounting pad (3/4” to 2”)
- RPTFE seats and seals

**STANDARD MATERIAL LIST**

1. Lever and grip
   - 304 SS w/vinyl
2. Stem packing
   - RPTFE
3. Stem bearing
   - RPTFE
4. Ball
   - A276-316
5. Seat (2)
   - RPTFE
6. End cap (2)
   - A351-CF3M
7. Seat holder (2)
   - A276-316
8. Gland nut
   - A276-316
9. Stem
   - A276-316
10. Lever nut
    - 18-8 SS
11. Body bolt (4)
    - 18-8 SS
12. Hex nut (4)
    - 18-8 SS
13. Body
    - A351-CF8M
14. Body seal (2)
    - RPTFE

**OPTIONS AVAILABLE:**

<table>
<thead>
<tr>
<th>SUFFIX</th>
<th>OPTION</th>
<th>SIZES</th>
</tr>
</thead>
<tbody>
<tr>
<td>-02</td>
<td>Static Grounded</td>
<td>1/2” to 2”</td>
</tr>
<tr>
<td>-03</td>
<td>1-1/4” Stem Extension</td>
<td>1/2” to 2”</td>
</tr>
<tr>
<td>-04</td>
<td>2-1/4” Stem Extension</td>
<td>1/2” to 2”</td>
</tr>
<tr>
<td>-07</td>
<td>Tee Handle</td>
<td>1/2” to 2”</td>
</tr>
<tr>
<td>-08</td>
<td>90° Reversed Stem</td>
<td>1/2” to 2”</td>
</tr>
<tr>
<td>-14</td>
<td>Vented Ball (see page J-2)</td>
<td>1/2” to 2”</td>
</tr>
<tr>
<td>-15</td>
<td>Round Handle</td>
<td>1/2” to 2”</td>
</tr>
<tr>
<td>-16</td>
<td>Vertical Chain Lever</td>
<td>1/2” to 2”</td>
</tr>
<tr>
<td>-18</td>
<td>Plain Yellow Grip</td>
<td>1/2” to 2”</td>
</tr>
<tr>
<td>-27</td>
<td>Latch Lock Lever</td>
<td>1/2” to 2”</td>
</tr>
<tr>
<td>-29</td>
<td>Firesafe</td>
<td>1/2” to 2”</td>
</tr>
<tr>
<td>-32</td>
<td>SS Tee Handle &amp; Nut</td>
<td>1/2” to 2”</td>
</tr>
<tr>
<td>-38</td>
<td>PEEK Seats &amp; Bearing (Graphite Packing &amp; Seals)</td>
<td>1/2” to 2”</td>
</tr>
<tr>
<td>-45</td>
<td>Less Lever &amp; Nut</td>
<td>1/2” to 2”</td>
</tr>
<tr>
<td>-48</td>
<td>SS Oval Handle (No Latch) &amp; Nut</td>
<td>1/2” to 2”</td>
</tr>
<tr>
<td>-49</td>
<td>Assembled Dry</td>
<td>1/2” to 2”</td>
</tr>
<tr>
<td>-56</td>
<td>Multifill Seats</td>
<td>1/2” to 2”</td>
</tr>
<tr>
<td>-57</td>
<td>Oxygen Cleaned</td>
<td>1/2” to 2”</td>
</tr>
<tr>
<td>-58</td>
<td>Chain Lever - Horizontal</td>
<td>1/2” to 2”</td>
</tr>
<tr>
<td>-60</td>
<td>Grounded Ball &amp; Stem</td>
<td>1/2” to 2”</td>
</tr>
<tr>
<td>-64</td>
<td>250# Steam Trim</td>
<td>1/2” to 2”</td>
</tr>
</tbody>
</table>

**STAINLESS STEEL 3-PIECE HIGH PRESSURE FULL PORT SOCKET WELD BALL VALVE**

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>SIZE</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>86-603-01</td>
<td>1/2”</td>
<td>.62</td>
<td>1.69</td>
<td>3.38</td>
<td>2.00</td>
<td>4.81</td>
<td>N/A</td>
<td>N/A</td>
<td>.855</td>
<td>.43</td>
<td>1.60</td>
</tr>
<tr>
<td>86-604-01A</td>
<td>3/4”</td>
<td>.81</td>
<td>1.93</td>
<td>3.87</td>
<td>2.18</td>
<td>4.81</td>
<td>1.25</td>
<td>1/4-20</td>
<td>1.065</td>
<td>.56</td>
<td>2.24</td>
</tr>
<tr>
<td>86-605-01A</td>
<td>1”</td>
<td>1.00</td>
<td>2.25</td>
<td>4.50</td>
<td>2.62</td>
<td>5.50</td>
<td>1.62</td>
<td>5/16-18</td>
<td>1.330</td>
<td>.68</td>
<td>3.32</td>
</tr>
<tr>
<td>86-606-01A</td>
<td>1-1/4”</td>
<td>1.25</td>
<td>2.43</td>
<td>4.87</td>
<td>2.87</td>
<td>5.50</td>
<td>1.62</td>
<td>5/16-18</td>
<td>1.675</td>
<td>.81</td>
<td>5.85</td>
</tr>
<tr>
<td>86-607-01A</td>
<td>1-1/2”</td>
<td>1.50</td>
<td>2.62</td>
<td>5.25</td>
<td>3.35</td>
<td>8.00</td>
<td>1.62</td>
<td>5/16-18</td>
<td>1.915</td>
<td>.87</td>
<td>8.62</td>
</tr>
<tr>
<td>86-608-01A</td>
<td>2”</td>
<td>2.00</td>
<td>3.12</td>
<td>6.25</td>
<td>3.75</td>
<td>8.00</td>
<td>1.62</td>
<td>5/16-18</td>
<td>2.406</td>
<td>1.06</td>
<td>15.60</td>
</tr>
</tbody>
</table>

For Pressure/Temperature Ratings, Refer to Page M-11, Graph No. 12