These pneumatic plugs are designed for a multitude of applications. Test Balls® can be used to block sewer flow, or as a back plug for a sewer air test. Muni-Ball® plugs can be used to block flow, bypass pump sewage, and as a front or back plug for sewer air tests.

**Plug Features:**
- Cast aluminum ends prevent rusting
- Removable inflation fittings for easy replacement or repair
- Natural rubber for great expansion and memory
- Cross-biased cording helps prevent catastrophic failure in extreme working conditions
- **NEW** Now with rupture disc - prevents overinflation!

**Plug Applications**

**Sewer Air Test**
- Muni-Ball® with conversion kit

**Blocking Sewer Flow**
- Test-Ball® or Muni-Ball®

**Bypass Pumping**
- Muni-Ball®

**Rupture Disc Technology**

The rupture disc* is designed to prevent plug over-inflation, which both safeguards the user and protects the pipe plug from damage. The rupture disc has been incorporated into our 15-30”, 24-42”, 24-48”, and 40-60” plugs presently and will be added to other plugs in the near future.

**Rupture Disc Features:**
- Increases Plug Life
  - Disc ruptures at 60% over required inflation pressure
  - Helps prevent “non-visible” damage to cording
  - Rupture disc won’t burst until well over stated inflation pressure
  - No more catastrophic plug failures due to faulty gauges
  - Discs can be replaced at factory for nominal charge
- Improves User Safety
  - Reduces the possibility of plug explosion due to over-inflation
- Superior components/design
  - Aluminum housing - will not rust
  - Mounted internally - helps prevent tampering and inadvertent damage by user
  - Graphite rupture disc
    - Leak-free design
    - Precision calibrated

* Patent Pending
### Large Multi-Size Muni-Ball® Plugs with New Rupture Disc

<table>
<thead>
<tr>
<th>Part #</th>
<th>Nominal Size</th>
<th>Minimum Diameter</th>
<th>Maximum Diameter</th>
<th>Air Pressure PSI*</th>
<th>Head Pressure (Feet of Head)</th>
<th>Required Inflation Pressure</th>
<th>Product Weight</th>
<th>Deflated</th>
<th>Bypass Diam. (M NPT)</th>
<th>Inflation Valve Thread Size</th>
<th>Eye Bolt</th>
</tr>
</thead>
<tbody>
<tr>
<td>402308</td>
<td>15&quot; - 30&quot; (375 - 750 mm)</td>
<td>14.5&quot; (368 mm)</td>
<td>30.5&quot; (775 mm)</td>
<td>See chart below*</td>
<td>25 (1.7 bar)</td>
<td>62 lbs (28 kg)</td>
<td>51&quot; (1289 mm)</td>
<td>14&quot; (356 mm)</td>
<td>2½&quot;</td>
<td>¼&quot; &amp; ½&quot;</td>
<td>½&quot;(4)</td>
</tr>
<tr>
<td>404308</td>
<td>15&quot; - 30&quot; (375 - 750 mm)</td>
<td>14.5&quot; (368 mm)</td>
<td>30.5&quot; (775 mm)</td>
<td>See chart below*</td>
<td>25 (1.7 bar)</td>
<td>75 lbs (34 kg)</td>
<td>51&quot; (1289 mm)</td>
<td>14&quot; (356 mm)</td>
<td>4&quot;</td>
<td>¼&quot; &amp; ½&quot;</td>
<td>½&quot;(4)</td>
</tr>
<tr>
<td>404428</td>
<td>24&quot; - 42&quot; (600 - 1050 mm)</td>
<td>22.5&quot; (570 mm)</td>
<td>42.5&quot; (1080 mm)</td>
<td>See chart below*</td>
<td>25 (1.7 bar)</td>
<td>150 lbs (68 kg)</td>
<td>52&quot; (1320 mm)</td>
<td>22&quot; (560 mm)</td>
<td>4&quot;</td>
<td>¼&quot; &amp; ½&quot;</td>
<td>½&quot;(4)</td>
</tr>
<tr>
<td>404608</td>
<td>40&quot; - 60&quot; (1000 - 1525 mm)</td>
<td>38&quot; (965 mm)</td>
<td>60.5&quot; (1537 mm)</td>
<td>See chart below*</td>
<td>25 (1.7 bar)</td>
<td>350 lbs (159 kg)</td>
<td>73&quot; (1855 mm)</td>
<td>37.25&quot; (946 mm)</td>
<td>4&quot;</td>
<td>¼&quot; &amp; ½&quot;</td>
<td>½&quot;(4)</td>
</tr>
</tbody>
</table>

### Large Multi-Size Test-Ball® Plugs with New Rupture Disc

<table>
<thead>
<tr>
<th>Part #</th>
<th>Nominal Size</th>
<th>Minimum Diameter</th>
<th>Maximum Diameter</th>
<th>Air Pressure PSI*</th>
<th>Head Pressure (Feet of Head)</th>
<th>Required Inflation Pressure</th>
<th>Product Weight</th>
<th>Deflated</th>
<th>Bypass Diam. (M NPT)</th>
<th>Inflation Valve Thread Size</th>
<th>Eye Bolt</th>
</tr>
</thead>
<tbody>
<tr>
<td>400308</td>
<td>15&quot; - 30&quot; (375 - 750 mm)</td>
<td>14.5&quot; (368 mm)</td>
<td>30.5&quot; (775 mm)</td>
<td>See chart below*</td>
<td>25 (1.7 bar)</td>
<td>45 lbs (21 kg)</td>
<td>51&quot; (1289 mm)</td>
<td>14&quot; (356 mm)</td>
<td>N/A</td>
<td>¼&quot; &amp; ½&quot;</td>
<td>½&quot;(2)</td>
</tr>
<tr>
<td>400428</td>
<td>24&quot; - 42&quot; (600 - 1050 mm)</td>
<td>22.5&quot; (570 mm)</td>
<td>42.5&quot; (1080 mm)</td>
<td>See chart below*</td>
<td>25 (1.7 bar)</td>
<td>100 lbs (46 kg)</td>
<td>52&quot; (1320 mm)</td>
<td>22&quot; (560 mm)</td>
<td>N/A</td>
<td>¼&quot; &amp; ½&quot;</td>
<td>½&quot;(2)</td>
</tr>
<tr>
<td>400608</td>
<td>40&quot; - 60&quot; (1000 - 1525 mm)</td>
<td>38&quot; (965 mm)</td>
<td>60.5&quot; (1537 mm)</td>
<td>See chart below*</td>
<td>25 (1.7 bar)</td>
<td>235 lbs (106 kg)</td>
<td>73&quot; (1855 mm)</td>
<td>37.25&quot; (946 mm)</td>
<td>N/A</td>
<td>¼&quot; &amp; ½&quot;</td>
<td>½&quot;(2)</td>
</tr>
</tbody>
</table>

### Pressure Ratings for Large Multi-Size Muni-Ball® & Test-Ball® Plugs

#### Actual Pipe Inside Diameter

<table>
<thead>
<tr>
<th>Part #</th>
<th>Plug Size</th>
<th>15&quot;</th>
<th>18&quot;</th>
<th>21&quot;</th>
<th>24&quot;</th>
<th>30&quot;</th>
<th>30&quot; DI**</th>
<th>36&quot;</th>
<th>42&quot;</th>
<th>42&quot; DI**</th>
<th>48&quot;</th>
<th>54&quot;</th>
<th>60&quot;</th>
<th>60&quot; DI*</th>
</tr>
</thead>
<tbody>
<tr>
<td>402308</td>
<td>15&quot; - 30&quot;</td>
<td>17 (1,2 bar)</td>
<td>13 (0,9 bar)</td>
<td>11 (0,76 bar)</td>
<td>11 (0,76 bar)</td>
<td>9 (0,62 bar)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>404428</td>
<td>24&quot; - 42&quot;</td>
<td>15 (1,0 bar)</td>
<td>13 (0,9 bar)</td>
<td>11 (0,76 bar)</td>
<td>11 (0,76 bar)</td>
<td>15 (1,0 bar)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>404608</td>
<td>40&quot; - 60&quot;</td>
<td>15 (1,0 bar)</td>
<td>13 (0,9 bar)</td>
<td>11 (0,76 bar)</td>
<td>11 (0,76 bar)</td>
<td>15 (1,0 bar)</td>
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</tbody>
</table>

#### Air Pressure Ratings (PSI)

DI** = Ductile iron, all classes

- **Part # 402308, 404308, 400308**
  - 15" - 30": 17 (1,2 bar) | 13 (0,9 bar) | 11 (0,76 bar) | 11 (0,76 bar) | 9 (0,62 bar)

<table>
<thead>
<tr>
<th>Part #</th>
<th>Plug Size</th>
<th>15&quot;</th>
<th>18&quot;</th>
<th>21&quot;</th>
<th>24&quot;</th>
<th>30&quot;</th>
<th>30&quot; DI**</th>
<th>36&quot;</th>
<th>42&quot;</th>
<th>42&quot; DI**</th>
<th>48&quot;</th>
<th>54&quot;</th>
<th>60&quot;</th>
<th>60&quot; DI*</th>
</tr>
</thead>
<tbody>
<tr>
<td>404428</td>
<td>24&quot; - 42&quot;</td>
<td>35 (11 M)</td>
<td>30 (9 M)</td>
<td>30 (9 M)</td>
<td>25 (7.6 M)</td>
<td>20 (6.1 M)</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>404608</td>
<td>40&quot; - 60&quot;</td>
<td>35 (11 M)</td>
<td>35 (11 M)</td>
<td>30 (9 M)</td>
<td>25 (7.6 M)</td>
<td>20 (6.1 M)</td>
<td>20 (6.1 M)</td>
<td></td>
<td></td>
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<td></td>
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</tr>
</tbody>
</table>

#### Head Pressure Ratings (Feet of Head)

DI** = Ductile iron, all classes

- **Part # 402308, 404308, 400308**
  - 15" - 30": 30 (9 M) | 30 (9 M) | 25 (7.6 M) | 25 (7.6 M)

- **Part # 404428, 400428**
  - 24" - 42": 35 (11 M) | 30 (9 M) | 30 (9 M) | 25 (7.6 M) | 20 (6.1 M)

- **Part # 404608, 400608**
  - 40" - 60": 35 (11 M) | 35 (11 M) | 30 (9 M) | 25 (7.6 M) | 20 (6.1 M) | 20 (6.1 M)

* Always block plugs when conducting air tests!