Trumbull Manufacturing, Inc.

METER PIT LIDS and Meter Pit Frames
Radio-Friendly.

MANHOLE COVERS and Frame and Cover Assemblies
Amazingly Strong. Surprisingly Light.™

Contact us at... 877.504.1507
COMPOSITE and POLYMER Meter Box Lids

Allow Radio Signals to be Read in AMR and AMI Systems

**COMPOSITE**
- COMPRESSION MOLDED
- SLIP-RESISTANT SURFACE
- ADA Compliant
- COUNTERBORES available for “through-the-lid” antenna mounting (see page 6 and 7).

**POLYMER**
- INJECTION MOLDED
- POSTS ON UNDERSIDE allow for attachment of retainer bracket (see below), Aclara MTU, and adapters for Itron 100W, Itron Riva and Badger LTE (shown on page 8).

- RETAINER BRACKET for installation of antennas under lid, see page 8.
- Our Lids are UV resistant

**Also Available:**
- Other sizes and shapes (such as oval or rectangular)
- Custom lettering
- Alternate locking mechanisms
- Nylon and DI worm gears
- Snap-in adapter for Itron 100W
- Large pentagon bolt
- Magnet for detection with valve and curb box locators

For dimensions, load ratings and additional options, refer to the product information chart on pages 10 - 27.

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POLYMER Meter Pit Frames

Fits on 18", 20" and 21" Meter Pits

**TOP VIEW**
- REBAR TABS accept rebar sizes up to 3/8"
- POLYMER FRAME accepts all Trumbull 12-1/4" OD Type-A lids

**BOTTOM VIEW**
- Fits 18" pits
- Fits 20/21" pits
- Trumbull Item No. 367-5464
- Frame: Polymer
- Weight: 8.10 lbs.
- Fits minimum 17.438" ID
- Fits maximum 22.50" OD

Can be used with most common meter pits used today.

Strength of gusseted Polymer Frame is greater than most cast iron frames.

Polymer Frame accepts all Trumbull 12-1/4" OD Type-A Lids, even those with counterbores for antenna mounting (counterbores shown on page 6).

Add a magnet for locating.

Consult Trumbull for load ratings, which are based on pit size.
12.25" Polymer Frame
(11.4" Clear Opening)

Drawn to Scale

Notes:
1.) Material: Thermoplastic (black)
2.) Weight: 8.1 lbs.
3.) Fits all Trumbull 12.25" OD lids
4.) Part Number: 367-5464
COMPOSITE Manhole Lids for Large Meter Settings

Vaults for large meters are typically accessed through cast iron Manhole Lids. Trumbull offers a variety of Composite Manhole Lids through 36” diameter rated for 40,000 lb. traffic loads. Composite lids are “radio-friendly” and light weight, reducing back and finger injuries. They also reduce thefts common with cast iron lids.

Custom lettering and graphics available.

COMPOSITE Lids for Coiled Pit Setters

Worm gears on pit lids typically engage the shelf of an iron frame that covers the entire circumference of the frame. However, coiled pit setters use two brackets that must be engaged to lock the lid in place. Trumbull Lids are designed with cutouts to clear the brackets of Pit Setters. Available with ductile iron or UHMWPE worm gears.

<table>
<thead>
<tr>
<th>Trumbull Item No.</th>
<th>Size</th>
<th>Antenna Mounting</th>
<th>Fits Pit Setters</th>
<th>Load Rating</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>367-5644</td>
<td>15”</td>
<td>Solid*</td>
<td>AY McDonald / Mueller</td>
<td>Light Duty</td>
<td>2.45 lbs.</td>
</tr>
<tr>
<td>367-5615</td>
<td>18”</td>
<td>Solid*</td>
<td>AY McDonald</td>
<td>40,000 lbs.</td>
<td>2.45 lbs.</td>
</tr>
</tbody>
</table>

* See chart on page 12 for other options for 15” lids, and page 22 for options for 18” lids.
Drilling holes in existing cast iron lids may save money in the short run. However, most iron lids do not have the thickness for a counterbore. If lids are simply drilled without a counterbore, the result is a trip hazard. Drilling iron lids in the field frequently results in cracks in the lid.

**SOLUTION:**

Our lids feature a molded **COUNTERBORE** allowing recessed installation of antenna to eliminate trip hazard or damage.

**CURRENT COUNTERBORE OPTIONS**

- Sensus
- Neptune Touch Read
- Neptune Radio Read
- Badger
- Mueller
- Itron
- Zenner

For dimensions, load ratings and additional options, refer to the product information chart on pages 10 - 27.
NEPTUNE COUNTERBORES

EASY TRANSITION of Neptune Antennas

"FIGURE 8" SHAPE allows Neptune users to transition from touch read to radio read antennas.

BLUE COLOR LIDS

Available for our Polymer Lids and Composite Lids. Minimum order quantities apply.

CUSTOM LID OPTIONS

CUSTOM LETTERING
COUNTERBORES (see page 6)
CUSTOM SHAPES
SECURITY BOLTS (see page 45)
CUSTOM LOGOS

Composite frames are shown on pages 39 - 42.

For dimensions, load ratings and additional options, refer to the product information chart on pages 10 - 27.
For a variety of ENDPOINTS

For dimensions, load ratings and additional options, refer to the product information chart on pages 10 - 27.

Itron Riva Post Adapter

US Patent No. D842,085

Aclara posts allow Aclara MTU to be mounted directly with two stainless steel screws

Badger LTE Post Adapter

Itron 100W Post Adapter

Badger LTE endpoint with Trumbull Retainer Bracket & Badger through-the-lid adapter
**LID FASTENING STYLES**

**Worm Gear**
Worm gear locks to shelf on frame. Cast iron or polymer.

**Bolt-Down Style**
Our Frame and Cover Assemblies have threaded inserts in the frame to accept stainless screws (see page 29 & 31) or optional security screws (see page 45).

**Quarter-Turn Double Paddle Lock Style**
Two paddles on opposite sides of the lid lock into slots in frame. Also offered as an alternative to bolt-down style Frame and Cover Assemblies.

**REDUCING RINGS**

**FABRICATED REDUCING RINGS**
are customized to permit a standard lid size to fit a non-standard frame size. Ideal when time constraints or small quantities make a new mold impractical.

For dimensions, load ratings and additional options, refer to the product information chart on pages 10 - 27.
**Light Duty**

- Contact Trumbull for actual load ratings.
- Lids normally furnished marked “WATER METER”. Special lettering available, please inquire.
- All lids with counterbore (CBORE) have thru hole diameter of 1.88”.
- Frames other than Trumbull Composite or Polymer models are shown for illustration purposes only.
- For explanation of asterisk (*) and dash (⁺) points for our lids, see “Additional Notes” on page 27.

<table>
<thead>
<tr>
<th>CLEAR OPENING</th>
<th>LID OD</th>
<th>RIM THICKNESS</th>
<th>FITS FRAME TYPES</th>
<th>MATERIAL AND ANTENNA MOUNTING</th>
<th>CBORE DIM.</th>
<th>LOCKING MECHANISM</th>
<th>TRUMBULL ITEM NO.</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>9-1/2”</td>
<td>10-3/8”</td>
<td>0.65”</td>
<td>Ford W2A</td>
<td>Solid Lid* — POLYMER — Retainer Bracket, Aclara Posts, All Adapters</td>
<td>---</td>
<td>Nylon Worm Gear</td>
<td>367-5530</td>
<td>1.85 lbs.</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>— POLYMER — Badger Antenna</td>
<td>3.13” x 0.41”</td>
<td>Nylon Worm Gear</td>
<td>367-5531</td>
<td>1.75 lbs.</td>
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<tr>
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<td></td>
<td>— POLYMER — Itron 60W, 100W or Riva Antenna</td>
<td>2.84” x 0.26”</td>
<td>Nylon Worm Gear</td>
<td>367-5532</td>
<td>1.77 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td>— POLYMER — Mueller Antenna</td>
<td>3.36” x 0.33”</td>
<td>Nylon Worm Gear</td>
<td>367-5533</td>
<td>1.80 lbs.</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>— POLYMER — Neptune Antenna** (Figure 8)</td>
<td>4.63” x 0.43”</td>
<td>Nylon Worm Gear</td>
<td>367-5534</td>
<td>1.73 lbs.</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>— POLYMER — Sensus or Zenner Antenna</td>
<td>4.11” x 0.41”</td>
<td>Nylon Worm Gear</td>
<td>367-5535</td>
<td>1.77 lbs.</td>
</tr>
</tbody>
</table>

Light duty Lids marked “WATER METER” are continued on the following page.
## Light Duty

<table>
<thead>
<tr>
<th>CLEAR OPENING</th>
<th>LID OD</th>
<th>RIM THICKNESS</th>
<th>FITS FRAME TYPES</th>
<th>MATERIAL AND ANTENNA MOUNTING</th>
<th>CBORE DIM.</th>
<th>LOCKING MECHANISM</th>
<th>TRUMBULL ITEM NO.</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>9-1/2&quot;</td>
<td>10-3/8&quot;</td>
<td>3/8&quot;</td>
<td>Newport News Meter Box No.1 &amp; Capitol Foundry&lt;br&gt;Lid Marked &quot;NEWPORT NEWS WATERWORKS&quot;</td>
<td>Solid Lid*&lt;br&gt;---POLYMER---&lt;br&gt;Retainer Bracket, Aclara Posts, All Adapters</td>
<td>3.36” x 0.33”</td>
<td>Nylon Worm Gear</td>
<td>5901 TMI</td>
<td>1.42 lbs.</td>
</tr>
<tr>
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<td></td>
</tr>
<tr>
<td>10”</td>
<td>11-7/8&quot;</td>
<td>5/8”</td>
<td>Clark Meter Box Frame</td>
<td>Solid Lid*&lt;br&gt;---COMPOSITE---&lt;br&gt;Retainer Bracket, Itron Post Adapter</td>
<td>3.53” x 0.32”</td>
<td>DI Worm Gear (1.5” OD)</td>
<td>367-5639</td>
<td>5.40 lbs.</td>
</tr>
<tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>11-5/8”</td>
<td>12-3/4&quot;</td>
<td>3/8&quot;</td>
<td>Newport News Meter Box No.2 &amp; Capitol Foundry&lt;br&gt;Lid Marked &quot;NEWPORT NEWS WATERWORKS&quot;</td>
<td>Solid Lid*&lt;br&gt;---POLYMER---&lt;br&gt;Retainer Bracket, Aclara Posts, All Adapters</td>
<td>3.36” x 0.33”</td>
<td>Nylon Worm Gear</td>
<td>4946 TMI</td>
<td>2.20 lbs.</td>
</tr>
</tbody>
</table>

- Contact Trumbull for actual load ratings.
- Clark lids furnished with smaller 1.5” ductile iron worm gear.
- Clark lids are normally furnished with standard (27/32”) pentagon bolt. Also available with large (1-1/32”) pentagon bolt.
- Lids normally furnished marked “WATER METER”. Special lettering available, please inquire.
- All lids with counterbore (CBORE) have thru hole diameter of 1.88”.
- Frames other than Trumbull Composite or Polymer models are shown for illustration purposes only.
- For explanation of asterisk (*) and dash (•) points for our lids, see “Additional Notes” on page 27.

Light duty Lids marked “WATER METER” are continued on the following page.
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<th>MATERIAL AND ANTENNA MOUNTING</th>
<th>CBORE DIM.</th>
<th>LOCKING MECHANISM</th>
<th>TRUMBULL ITEM NO.</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.7”</td>
<td>15.4”</td>
<td>0.7”</td>
<td>Mueller &amp; AY McDonald Coil Pit Setter</td>
<td>Solid Lid* —POLYMER— Retainer Bracket, Aclara Posts, All Adapters</td>
<td>---</td>
<td>UHMWPE Worm Gear</td>
<td>367-5644</td>
<td>5.65 lbs.</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>—POLYMER— Neptune Antenna** (Figure 8)</td>
<td>4.63” x 0.43”</td>
<td>UHMWPE Worm Gear</td>
<td>367-5645</td>
<td>3.35 lbs.</td>
</tr>
<tr>
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<td></td>
<td></td>
<td>—POLYMER— Badger Antenna</td>
<td>3.13” x 0.41”</td>
<td>UHMWPE Worm Gear</td>
<td>367-5646</td>
<td>3.45 lbs.</td>
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<tr>
<td></td>
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<td></td>
<td>—POLYMER— Sensus or Zenner Antenna</td>
<td>4.11” x 0.41”</td>
<td>UHMWPE Worm Gear</td>
<td>367-5647</td>
<td>3.40 lbs.</td>
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<tr>
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<td></td>
<td>—POLYMER— Itron 60W, 100W or Riva Antenna</td>
<td>2.84” x 0.26”</td>
<td>UHMWPE Worm Gear</td>
<td>367-5648</td>
<td>3.45 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>—POLYMER— Mueller Antenna</td>
<td>3.36” x 0.33”</td>
<td>UHMWPE Worm Gear</td>
<td>367-5649</td>
<td>3.45 lbs.</td>
</tr>
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</table>

Light duty Lids marked “WATER METER” are continued on the following page.
**Light Duty**

<table>
<thead>
<tr>
<th>CLEAR OPENING</th>
<th>LID OD</th>
<th>RIM THICKNESS</th>
<th>FITS FRAME TYPES</th>
<th>MATERIAL AND ANTENNA MOUNTING</th>
<th>CBORE DIM.</th>
<th>LOCKING MECHANISM</th>
<th>TRUMBULL ITEM NO.</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>15”</td>
<td>16-1/16”</td>
<td>21/32”</td>
<td>Vestal type A, Ford type C, AY McDonald type C</td>
<td>Solid Lid* —POLYMER— Retainer Bracket, Aclara Posts, All Adapters</td>
<td>4.63” x 0.47”</td>
<td>Nylon Worm Gear</td>
<td>367-5771</td>
<td>6.04 lbs.</td>
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<tr>
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<td>—POLYMER— Neptune Antenna** (Figure 8)**</td>
<td>3.13” x 0.40”</td>
<td>Nylon Worm Gear</td>
<td>367-5773</td>
<td>5.96 lbs.</td>
</tr>
<tr>
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<td></td>
<td>—POLYMER— Badger Antenna**</td>
<td>4.30” x 0.47”</td>
<td>Nylon Worm Gear</td>
<td>367-5774</td>
<td>5.84 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td>—POLYMER— Sensus or Zenner Antenna**</td>
<td>2.81” x 0.25”</td>
<td>Nylon Worm Gear</td>
<td>367-5775</td>
<td>6.01 lbs.</td>
</tr>
<tr>
<td>16-1/8”</td>
<td>17-3/4”</td>
<td>1-1/16” Cap Style Lid</td>
<td>Owosso Central Castings Co.</td>
<td>Solid Lid* —COMPOSITE— Retainer Bracket, All Post Adapters</td>
<td>2.81” x 0.25”</td>
<td>None, Drop In Style</td>
<td>367-5681</td>
<td>12.80 lbs.</td>
</tr>
</tbody>
</table>

Contact Trumbull for actual load ratings.
Lids normally furnished marked “WATER METER”. Special lettering available, please inquire.
All lids with counterbore (CBORE) have thru hole diameter of 1.88”.
Frames other than Trumbull Composite or Polymer models are shown for illustration purposes only.
For explanation of asterisk (*) and dash (•) points for our lids, see “Additional Notes” on page 27.

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### Light Duty

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<th>LID OD</th>
<th>RIM THICKNESS</th>
<th>FITS FRAME TYPES</th>
<th>MATERIAL AND ANTENNA MOUNTING</th>
<th>CBORE DIM.</th>
<th>LOCKING MECHANISM</th>
<th>TRUMBULL ITEM NO.</th>
<th>WEIGHT</th>
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</thead>
<tbody>
<tr>
<td><strong>NEW</strong></td>
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<td></td>
</tr>
<tr>
<td>11”</td>
<td>12.438”</td>
<td>0.65”</td>
<td>American Foundry, Misc.</td>
<td>Solid Lid*</td>
<td>----</td>
<td>None, Drop In Style</td>
<td>367-5720</td>
<td>3.30 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Available with various counterbores</td>
<td>Call Trumbull</td>
<td>None, Drop In Style</td>
<td>Varies</td>
<td>Varies</td>
<td></td>
</tr>
</tbody>
</table>

### Light Duty Lids – Other Shapes

<table>
<thead>
<tr>
<th>CLEAR OPENING</th>
<th>LID OD</th>
<th>RIM THICKNESS</th>
<th>FITS FRAME TYPES</th>
<th>MATERIAL AND ANTENNA MOUNTING</th>
<th>CBORE DIM.</th>
<th>LOCKING MECHANISM</th>
<th>TRUMBULL ITEM NO.</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>13” x 15-1/8”</td>
<td>14” x 16” MB Dual Lid</td>
<td>1-1/2”</td>
<td>Brooks MB Dual Frame</td>
<td>Solid Lid* Retainer Bracket, Aclara Posts, All Adapters</td>
<td>----</td>
<td>None, Drop In Style</td>
<td>367-5594</td>
<td>7.70 lbs.</td>
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<tr>
<td></td>
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<td></td>
<td>2 Itron 60W, 100W or Riva Antenna</td>
<td>2.61” x 0.19”</td>
<td>None, Drop In Style</td>
<td>367-5595</td>
<td>7.60 lbs.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2 Itron 60W, 100W or Riva Antennas</td>
<td>2.61” x 0.19”</td>
<td>None, Drop In Style</td>
<td>367-5596</td>
<td>7.50 lbs.</td>
<td></td>
</tr>
</tbody>
</table>

Light duty Lids marked “WATER METER” are continued on the following page.
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<tr>
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<th>MATERIAL AND ANTENNA MOUNTING</th>
<th>CBORE DIM.</th>
<th>LOCKING MECHANISM</th>
<th>TRUMBULL ITEM NO.</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>28-1/4&quot; x 15-1/4&quot;</td>
<td>30-1/2&quot; x 17-1/2&quot;</td>
<td>2&quot;</td>
<td>17&quot; x 30&quot;</td>
<td>Solid Lid* — POLYMER — Retainer Bracket</td>
<td>---</td>
<td>None, Drop In Style</td>
<td>367-5560</td>
<td>TBD</td>
</tr>
</tbody>
</table>

| POLYMER — 1 Neptune Antenna** (Figure 8) | 4.63" x 0.43" | 367-5565 | TBD |

| POLYMER — 2 Neptune Antennas** (Figure 8) | 4.63" x 0.43" | 367-5575 | TBD |

| POLYMER — 1 Badger Antenna | 3.13" x 0.41" | 367-5562 | TBD |

| POLYMER — 2 Badger Antennas | 3.13" x 0.41" | 367-5572 | TBD |

| POLYMER — 1 Sensus or Zenner Antenna | 4.11" x 0.41" | 367-5566 | TBD |

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<th>LOCKING MECHANISM</th>
<th>TRUMBULL ITEM NO.</th>
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<tbody>
<tr>
<td>28-1/4&quot; x 15-1/4&quot;</td>
<td>30-1/2&quot; x 17-1/2&quot;</td>
<td>2&quot;</td>
<td>17&quot; x 30&quot;</td>
<td>Composite and Polymer Lids Light Duty</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>—POLYMER—</td>
<td></td>
<td></td>
<td></td>
<td>2 Sensus or Zenner Antennas</td>
<td>4.11&quot; x 0.41&quot;</td>
<td>None, Drop In Style</td>
<td>367-5576</td>
<td>TBD</td>
</tr>
<tr>
<td>—POLYMER—</td>
<td></td>
<td></td>
<td></td>
<td>1 Itron 60W, 100W or Riva Antenna</td>
<td>2.84&quot; x 0.26&quot;</td>
<td>None, Drop In Style</td>
<td>367-5563</td>
<td>TBD</td>
</tr>
<tr>
<td>—POLYMER—</td>
<td></td>
<td></td>
<td></td>
<td>2 Itron 60W, 100W or Riva Antennas</td>
<td>2.84&quot; x 0.26&quot;</td>
<td>None, Drop In Style</td>
<td>367-5573</td>
<td>TBD</td>
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<tr>
<td>—POLYMER—</td>
<td></td>
<td></td>
<td></td>
<td>1 Mueller Antenna</td>
<td>3.36&quot; x 0.33&quot;</td>
<td>None, Drop In Style</td>
<td>367-5564</td>
<td>TBD</td>
</tr>
<tr>
<td>—POLYMER—</td>
<td></td>
<td></td>
<td></td>
<td>2 Mueller Antennas</td>
<td>3.36&quot; x 0.33&quot;</td>
<td>None, Drop In Style</td>
<td>367-5574</td>
<td>TBD</td>
</tr>
</tbody>
</table>
### Composite and Polymer Lids

**20,000 lbs. Rating**

- **CLEAR OPENING**
- **LID OD**
- **RIM THICKNESS**
- **FITS FRAME TYPES**
- **MATERIAL AND ANTENNA MOUNTING**
- **CBORE DIM.**
- **LOCKING MECHANISM**
- **TRUMBULL ITEM NO.**
- **WEIGHT**

<table>
<thead>
<tr>
<th>CLEAR OPENING</th>
<th>LID OD</th>
<th>RIM THICKNESS</th>
<th>FITS FRAME TYPES</th>
<th>MATERIAL AND ANTENNA MOUNTING</th>
<th>CBORE DIM.</th>
<th>LOCKING MECHANISM</th>
<th>TRUMBULL ITEM NO.</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Neptune Antenna** (Figure 8)</td>
<td>4.63&quot; x 0.43&quot;</td>
<td>Nylon Worm Gear</td>
<td>367-5672</td>
<td>2.80 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td>Badger Antenna</td>
<td>3.13&quot; x 0.41&quot;</td>
<td>Nylon Worm Gear</td>
<td>367-5673</td>
<td>2.90 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Itron 60W, 100W or Riva Antenna</td>
<td>2.84&quot; x 0.26&quot;</td>
<td>Nylon Worm Gear</td>
<td>367-5674</td>
<td>2.90 lbs.</td>
</tr>
<tr>
<td>11-1/2&quot;</td>
<td>12-1/4&quot;</td>
<td>0.7&quot;</td>
<td>Ford A &amp; C, AY McDonald A &amp; C</td>
<td>Solid Lid* — POLYMER — Retainer Bracket, Aclara Posts, All Adapters</td>
<td>---</td>
<td>Nylon Worm Gear</td>
<td>367-5764</td>
<td>3.14 lbs.</td>
</tr>
<tr>
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<td>Neptune Antenna** (Figure 8)</td>
<td>4.63&quot; x 0.40&quot;</td>
<td>Nylon Worm Gear</td>
<td>367-5763</td>
<td>2.92 lbs.</td>
</tr>
</tbody>
</table>

20,000 lbs. load rated Lids marked “WATER METER” are continued on the following page.

- 20,000 lbs. lids normally furnished with nylon worm gear. Also available with ductile worm gear.
- Lids are normally furnished with standard (27/32”) pentagon bolt. Also available with large (1-1/32”) pentagon bolt.
- Lids normally furnished marked “WATER METER”.
- Special lettering available (requires a minimum quantity), please inquire.
- All lids with counterbore (CBORE) have thru hole diameter of 1.88”.
- Bearing washers located above and below 20,000 lbs. lids are UHMWPE.
- Frames other than Trumbull models are shown for illustration purposes only.
- For explanation of asterisk (*) and dash (•) points for our lids, see “Additional Notes” on page 27.
### Composite and Polymer Lids

#### 20,000 lbs. Rating

- 20,000 lbs. lids normally furnished with nylon worm gear. Also available with ductile worm gear.
- Lids are normally furnished with standard (27/32") pentagon bolt. Also available with large (1-1/32") pentagon bolt.
- Lids normally furnished marked “WATER METER”. Special lettering available, please inquire.
- All lids with counterbore (CBORE) have thru hole diameter of 1.88”.
- Bearing washers located above and below 20,000 lbs. lids are UHMWPE.
- Frames other than Trumbull Composite or Polymer models are shown for illustration purposes only.
- For explanation of asterisk (*) and dash (•) points for our lids, see “Additional Notes” on page 27.

<table>
<thead>
<tr>
<th>CLEAR OPENING</th>
<th>LID OD</th>
<th>RIM THICKNESS</th>
<th>FITS FRAME TYPES</th>
<th>MATERIAL AND ANTENNA MOUNTING</th>
<th>CBORE DIM.</th>
<th>LOCKING MECHANISM</th>
<th>TRUMBULL ITEM NO.</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-1/2”</td>
<td>12-1/4”</td>
<td>0.7”</td>
<td>Ford A &amp; C, AY McDonald A &amp; C</td>
<td>—POLYMER— Badger Antenna</td>
<td>3.13” x 0.40”</td>
<td>Nylon Worm Gear</td>
<td>367-5762</td>
<td>3.03 lbs.</td>
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<tr>
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<td></td>
<td>—POLYMER— Sensus or Zenner Antenna</td>
<td>4.13” x 0.40”</td>
<td>Nylon Worm Gear</td>
<td>367-5761</td>
<td>2.97 lbs.</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>—POLYMER— Itron 60W, 100W or Riva Antenna</td>
<td>2.81” x 0.25”</td>
<td>Nylon Worm Gear</td>
<td>367-5760</td>
<td>3.07 lbs.</td>
</tr>
<tr>
<td>11-1/2”</td>
<td>12-1/4”</td>
<td>0.7”</td>
<td>Ford type X (overlapping), Tyler 6150</td>
<td>Solid Lid*—POLYMER— Retainer Bracket, Aclara Posts, All Adapters</td>
<td>***</td>
<td>Nylon Worm Gear</td>
<td>367-5751</td>
<td>3.04 lbs.</td>
</tr>
<tr>
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<td>—POLYMER— Badger Antenna</td>
<td>3.13” x 0.40”</td>
<td>Nylon Worm Gear</td>
<td>367-5752</td>
<td>2.87 lbs.</td>
</tr>
<tr>
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<td></td>
<td>—POLYMER— Sensus or Zénner Antenna</td>
<td>4.13” x 0.40”</td>
<td>Nylon Worm Gear</td>
<td>367-5753</td>
<td>2.87 lbs.</td>
</tr>
</tbody>
</table>

20,000 lbs. load rated Lids marked “WATER METER” are continued on the following page.
### 20,000 lbs. Rating

<table>
<thead>
<tr>
<th>CLEAR OPENING</th>
<th>LID OD</th>
<th>RIM THICKNESS</th>
<th>FITS FRAME TYPES</th>
<th>MATERIAL AND ANTENNA MOUNTING</th>
<th>CBORE DIM.</th>
<th>LOCKING MECHANISM</th>
<th>TRUMBULL ITEM NO.</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-1/2&quot;</td>
<td>12-5/8&quot;</td>
<td>9/16&quot;</td>
<td>Type C B&amp;T, Vestal, Ford, AY McDonald &amp; Baltimore</td>
<td>Solid Lid* — POLYMER — Retainer Bracket, Aclara Posts, All Adapters</td>
<td>Single &amp; double holes are machined</td>
<td>Nylon Worm Gear</td>
<td>367-5767</td>
<td>3.08 lbs.</td>
</tr>
<tr>
<td>20&quot;</td>
<td>21-3/4&quot;</td>
<td>1-1/4&quot;</td>
<td>Arlington, VA</td>
<td>Solid Lid* — COMPOSITE — Retainer Bracket, All Adapters</td>
<td>----</td>
<td>None, Drop In Style</td>
<td>367-5633</td>
<td>23.10 lbs.</td>
</tr>
<tr>
<td>22&quot;</td>
<td>23-3/4&quot;</td>
<td>1&quot;</td>
<td>Arlington, VA</td>
<td>Solid Lid* — COMPOSITE — Retainer Bracket, All Adapters</td>
<td>----</td>
<td>None, Drop In Style</td>
<td>367-5634</td>
<td>26.30 lbs.</td>
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<tr>
<td>34&quot;</td>
<td>35-27/32&quot;</td>
<td>1-1/2&quot;</td>
<td>Arlington, VA</td>
<td>Solid Lid* — COMPOSITE — Retainer Bracket, All Adapters</td>
<td>----</td>
<td>None, Drop In Style</td>
<td>367-5712</td>
<td>131.3 lbs.</td>
</tr>
</tbody>
</table>

### 25,000 lbs. Rating

<table>
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<tr>
<th>CLEAR OPENING</th>
<th>LID OD</th>
<th>RIM THICKNESS</th>
<th>FITS FRAME TYPES</th>
<th>MATERIAL AND ANTENNA MOUNTING</th>
<th>CBORE DIM.</th>
<th>LOCKING MECHANISM</th>
<th>TRUMBULL ITEM NO.</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>----</td>
<td>13” x 17-9/32”</td>
<td>0.79”</td>
<td>MB-10 Oval</td>
<td>Solid Lid — COMPOSITE —</td>
<td>----</td>
<td>None, Drop In Style</td>
<td>367-5650</td>
<td>14.80 lbs.</td>
</tr>
</tbody>
</table>

- 20,000 lbs. lids normally furnished with nylon worm gear. Also available with ductile worm gear.
- Lids are normally furnished with standard (27/32”) pentagon bolt.
- Lids normally furnished marked “WATER METER”. Special lettering available, please inquire.
- All lids with counterbore (CBORE) have thru hole diameter of 1.88”.
- Bearing washers located above and below 20,000 lbs. lids are UHMWPE.
- Frames other than Trumbull Composite or Polymer models are shown for illustration purposes only.
- For explanation of asterisk (*) and dash (−) points for our lids, see “Additional Notes” on page 27.

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40,000 lbs. lids normally furnished with ductile iron worm gear.
- Lids are normally furnished with standard (27/32”) pentagon bolt. Also available with large (1-1/32”) pentagon bolt.
- Lids normally furnished marked “WATER METER”. Special lettering available, please inquire.
- All lids with counterbore (CBORE) have thru hole diameter of 1.88”.
- Composite Lids include a brass bearing washer (below lid) and brass flanged sleeve (protects hole from elongation).
- Polymer Lids include two UHMWPE bearing washers (located above and below lid).
- Frames other than Trumbull Composite or Polymer models are shown for illustration purposes only.
- For explanation of asterisk (*) and dash (⁻) points for our lids, see “Additional Notes” on page 27.

<table>
<thead>
<tr>
<th>CLEAR OPENING</th>
<th>LID OD</th>
<th>RIM THICKNESS</th>
<th>FITS FRAME TYPES</th>
<th>MATERIAL AND ANTENNA MOUNTING</th>
<th>CBORE DIM.</th>
<th>LOCKING MECHANISM</th>
<th>TRUMBULL ITEM NO.</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.7”</td>
<td>11.91”</td>
<td>1”</td>
<td>Wilmington, DE (Old Style)</td>
<td>Solid Lid* — COMPOSITE — Retainer Bracket, All Adapters</td>
<td>---</td>
<td>Ductile Iron Worm Gear</td>
<td>367-5632</td>
<td>8.52 lbs.</td>
</tr>
<tr>
<td>11-1/2”</td>
<td>12-1/4”</td>
<td>0.7”</td>
<td>Ford A &amp; C, AY McDonald type A</td>
<td>Solid Lid* — COMPOSITE — Retainer Bracket, Aclara Posts, All Adapters</td>
<td>---</td>
<td>Ductile Iron Worm Gear</td>
<td>367-5670</td>
<td>3.93 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>HIGH STRENGTH POLYMER Retainer Bracket, Aclara Posts, All Adapters</td>
<td>---</td>
<td>Ductile Iron Worm Gear</td>
<td>367-5675</td>
<td>3.67 lbs.</td>
</tr>
<tr>
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<td>HIGH STRENGTH POLYMER Neptune Antenna** (Figure 8)</td>
<td>4.63” x 0.40”</td>
<td>Ductile Iron Worm Gear</td>
<td>367-5676</td>
<td>3.81 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td>HIGH STRENGTH POLYMER Badger Antenna</td>
<td>3.13” x 0.40”</td>
<td>Ductile Iron Worm Gear</td>
<td>367-5677</td>
<td>3.73 lbs.</td>
</tr>
<tr>
<td></td>
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<td>HIGH STRENGTH POLYMER Sensus or Zenner Antenna</td>
<td>4.13” x 0.40”</td>
<td>Ductile Iron Worm Gear</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

40,000 lbs. load rated Lids marked “WATER METER” are continued on the following page.
### Composite and Polymer Lids

**40,000 lbs. Rating**

<table>
<thead>
<tr>
<th>CLEAR OPENING</th>
<th>LID OD</th>
<th>RIM THICKNESS</th>
<th>FITS FRAME TYPES</th>
<th>MATERIAL AND ANTENNA MOUNTING</th>
<th>CBORE DIM.</th>
<th>LOCKING MECHANISM</th>
<th>TRUMBULL ITEM NO.</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-1/2&quot;</td>
<td>12-1/4&quot; WITH LOGO</td>
<td>0.7&quot;</td>
<td>Ford A &amp; C, AY McDonald type A</td>
<td>HIGH STRENGTH POLYMER Itron 60W, 100W or Riva Antenna</td>
<td>2.81&quot; x 0.25&quot;</td>
<td>Ductile Iron Worm Gear</td>
<td>367-5678</td>
<td>3.85 lbs.</td>
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<tr>
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<td>12-1/4&quot; WITHOUT LOGO</td>
<td>Non-Stock Item</td>
<td></td>
<td>Solid Lid* — COMPOSITE — Retainer Bracket, Aclara Posts, All Adapters</td>
<td>----</td>
<td>Ductile Iron Worm Gear</td>
<td>367-5517</td>
<td>9.54 lbs.</td>
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<tr>
<td>11-1/2&quot;</td>
<td>12-1/4&quot;</td>
<td>0.7&quot;</td>
<td>Ford A &amp; C, AY McDonald type A</td>
<td>— COMPOSITE — Neptune Antenna** (Figure 8)</td>
<td>4.63&quot; x 0.40&quot;</td>
<td>Ductile Iron Worm Gear</td>
<td>367-5593</td>
<td>8.70 lbs.</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>— COMPOSITE — Badger Antenna</td>
<td>3.13&quot; x 0.40&quot;</td>
<td>Ductile Iron Worm Gear</td>
<td>367-5591</td>
<td>9.00 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>— COMPOSITE — Sensus or Zenner Antenna</td>
<td>4.13&quot; x 0.40&quot;</td>
<td>Ductile Iron Worm Gear</td>
<td>367-5592</td>
<td>8.71 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>— COMPOSITE — Itron 60W, 100W or Riva Antenna</td>
<td>2.81&quot; x 0.13&quot;</td>
<td>Ductile Iron Worm Gear</td>
<td>367-5519</td>
<td>9.01 lbs.</td>
</tr>
</tbody>
</table>

- 40,000 lbs. lids normally furnished with ductile iron worm gear.
- Lids are normally furnished with standard (27/32") pentagon bolt. Also available with large (1-1/32") pentagon bolt.
- Lids normally furnished marked “WATER METER”. Special lettering available, please inquire.
- All lids with counterbore (CBORE) have thru hole diameter of 1.88”.
- Composite Lids include a brass bearing washer (below lid) and brass flanged sleeve (protects hole from elongation).
- Polymer Lids include two UHMWPE bearing washers (located above and below lid).
- Frames other than Trumbull Composite or Polymer models are shown for illustration purposes only.
- For explanation of asterisk (*) and dash (⁃) points for our lids, see “Additional Notes” on page 27.
### Composite and Polymer Lids

40,000 lbs. Rating

<table>
<thead>
<tr>
<th>CLEAR OPENING</th>
<th>LID OD</th>
<th>RIM THICKNESS</th>
<th>FITS FRAME TYPES</th>
<th>MATERIAL AND ANTENNA MOUNTING</th>
<th>CBORE DIM.</th>
<th>LOCKING MECHANISM</th>
<th>TRUMBULL ITEM NO.</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-1/2&quot;</td>
<td>12-5/8&quot;</td>
<td>1&quot;</td>
<td>Type C</td>
<td>Solid Lid* — COMPOSITE — Retainer Bracket, Aclara Posts, All Adapters</td>
<td>---</td>
<td>Ductile Iron Worm Gear</td>
<td>367-5669</td>
<td>10.74 lbs.</td>
</tr>
<tr>
<td>15&quot;</td>
<td>16-3/16&quot;</td>
<td>1&quot;</td>
<td>Type C</td>
<td>Solid Lid* — COMPOSITE — Retainer Bracket</td>
<td>***</td>
<td>Ductile Iron Worm Gear</td>
<td>367-5680</td>
<td>14.20 lbs.</td>
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<tr>
<td>18&quot;</td>
<td>18-7/8&quot;</td>
<td>7/16&quot;</td>
<td>18&quot; AY McDonald Pit Setter (See page 5)</td>
<td>Solid Lid* — COMPOSITE — Retainer Bracket, All Adapters</td>
<td>---</td>
<td>Ductile Iron Worm Gear</td>
<td>367-5615</td>
<td>24.60 lbs.</td>
</tr>
<tr>
<td>18-1/2&quot;</td>
<td>19-13/16&quot;</td>
<td>1&quot;</td>
<td>EJ 2990, Neenah R-1892, Lid Marked &quot;CMO-2&quot;</td>
<td>Solid Lid* — COMPOSITE — Retainer Bracket, All Adapters</td>
<td>---</td>
<td>Ductile Iron Worm Gear</td>
<td>367-5631</td>
<td>28.30 lbs.</td>
</tr>
</tbody>
</table>

- 40,000 lbs. lids normally furnished with ductile iron worm gear.
- Lids are normally furnished with standard (27/32") pentagon bolt. Also available with large (1-1/32") pentagon bolt.
- Lids normally furnished marked “WATER METER”. Special lettering available, please inquire.
- All lids with counterbore (CBORE) have thru hole diameter of 1.88”.
- Composite Lids include a brass bearing washer (below lid) and brass flanged sleeve (protects hole from elongation).
- Polymer Lids include two UHMWPE bearing washers (located above and below lid).
- Frames other than Trumbull Composite or Polymer models are shown for illustration purposes only.
- For explanation of asterisk (*) and dash (•) points for our lids, see “Additional Notes” on page 27.

40,000 lbs. load rated Lids marked “WATER METER” are continued on the following page.
### “WATER METER” Composite and Polymer Lids

40,000 lbs. Rating

<table>
<thead>
<tr>
<th>CLEAR OPENING</th>
<th>LID OD</th>
<th>RIM THICKNESS</th>
<th>FITS FRAME TYPES</th>
<th>MATERIAL AND ANTENNA MOUNTING</th>
<th>CBORE DIM.</th>
<th>LOCKING MECHANISM</th>
<th>TRUMBULL ITEM NO.</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>20”</td>
<td>21-3/16”</td>
<td>0.77”</td>
<td>Ford &amp; AY McDonald Monitor Covers &amp; Pit Rings</td>
<td>Solid Lid* — COMPOSITE — Retainer Bracket</td>
<td>4.63” x 0.47”</td>
<td>Ductile Iron Worm Gear</td>
<td>367-5610</td>
<td>31.30 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>— COMPOSITE — Neptune Antenna** (Figure 8)</td>
<td>— COMPOSITE — Retainer Bracket</td>
<td>3.13” x 0.40”</td>
<td>Ductile Iron Worm Gear</td>
<td>367-5786</td>
<td>30.60 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>— COMPOSITE — Badger Antenna</td>
<td>— COMPOSITE — Retainer Bracket</td>
<td>4.13” x 0.63”</td>
<td>Ductile Iron Worm Gear</td>
<td>367-5787</td>
<td>30.30 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>— COMPOSITE — Sensus or Zenner Antenna</td>
<td>— COMPOSITE — Retainer Bracket</td>
<td>2.81” x 0.25”</td>
<td>Ductile Iron Worm Gear</td>
<td>367-5788</td>
<td>30.70 lbs.</td>
</tr>
<tr>
<td>21”</td>
<td>22-3/4”</td>
<td>1-11/16”</td>
<td>EJ 1020, Neenah R-1580</td>
<td>Solid Lid* — COMPOSITE — Retainer Bracket</td>
<td>4.43” x 0.77”</td>
<td>Ductile Iron Worm Gear</td>
<td>367-8905</td>
<td>45.70 lbs.</td>
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</table>

- 40,000 lbs. lids normally furnished with ductile iron worm gear.
- Lids are normally furnished with standard (27/32”) pentagon bolt. Also available with large (1-1/32”) pentagon bolt.
- Lids normally furnished marked “WATER METER”. Special lettering available, please inquire.
- All lids with counterbore (CBORE) have thru hole diameter of 1.88”.
- Composite Lids include a brass bearing washer (below lid) and brass flanged sleeve (protects hole from elongation).
- Polymer Lids include two UHMWPE bearing washers (located above and below lid).
- Frames other than Trumbull Composite or Polymer models are shown for illustration purposes only.
- For explanation of asterisk (*) and dash (•) points for our lids, see “Additional Notes” on page 27.

40,000 lbs. load rated Lids marked “WATER METER” are continued on the following page.
40,000 lbs. lids normally furnished with ductile iron worm gear.

• Lids are normally furnished with standard (27/32") pentagon bolt.

• Lids normally furnished marked “WATER METER”. Special lettering available, please inquire.

• All lids with counterbore (CBORE) have thru hole diameter of 1.88”.

• Composite Lids include a brass bearing washer (below lid) and brass flanged sleeve (protects hole from elongation).

• Polymer Lids include two UHMWPE bearing washers (located above and below lid).

• Frames other than Trumbull Composite or Polymer models are shown for illustration purposes only.

• For explanation of asterisk (*) and dash (•) points for our lids, see “Additional Notes” on page 27.

<table>
<thead>
<tr>
<th>CLEAR OPENING</th>
<th>LID OD</th>
<th>RIM THICKNESS</th>
<th>FITS FRAME TYPES</th>
<th>MATERIAL AND ANTENNA MOUNTING</th>
<th>CBORE DIM.</th>
<th>LOCKING MECHANISM</th>
<th>TRUMBULL ITEM NO.</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>21”</td>
<td>24-3/16”</td>
<td>3”</td>
<td>NYC Lid Marked “WSNY” and includes T316SS pentagon bolt</td>
<td>Solid Lid*—COMPOSITE—Retainer Bracket</td>
<td>---</td>
<td>Ductile Iron Worm Gear</td>
<td>5218 TMI</td>
<td>60.50 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>EJ 1450 &amp; 1690, Neenah R-1771, Neenah R-1785</td>
<td>Solid Lid*—COMPOSITE—Retainer Bracket</td>
<td>---</td>
<td>Ductile Iron Worm Gear</td>
<td>367-8908</td>
<td>44.80 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Trumbull Frame Only 367-5623</td>
<td>Solid Lid*—COMPOSITE—Retainer Bracket, 4 Badger LTE Brackets (in frame)</td>
<td>---</td>
<td>UHMWPE Worm Gear</td>
<td>367-8910</td>
<td>79.60 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Trumbull Frame Only 367-5623</td>
<td>Solid Lid*—COMPOSITE—Retainer Bracket, 1 Badger Antenna</td>
<td>3.13” x 0.40”</td>
<td>UHMWPE Worm Gear</td>
<td>367-8912</td>
<td>79.60 lbs.</td>
</tr>
<tr>
<td>21-1/2”</td>
<td>23-3/4”</td>
<td>1”</td>
<td>Trumbull Frame Only 367-5623</td>
<td>Solid Lid*—COMPOSITE—Retainer Bracket, 2 Badger Antennas</td>
<td>3.13” x 0.40”</td>
<td>UHMWPE Worm Gear</td>
<td>367-8914</td>
<td>79.40 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Trumbull Frame Only 367-5623</td>
<td>Solid Lid*—COMPOSITE—Retainer Bracket, 4 Badger LTE Brackets (in frame)</td>
<td>---</td>
<td>UHMWPE Worm Gear</td>
<td>367-8916</td>
<td>79.30 lbs.</td>
</tr>
</tbody>
</table>

40,000 lbs. load rated Lids marked “WATER METER” are continued on the following page.
## “WATER METER” Composite and Polymer Lids

40,000 lbs. Rating

- 40,000 lbs. lids normally furnished with ductile iron worm gear.
- Lids are normally furnished with standard (27/32”) pentagon bolt.
- Lids normally furnished marked “WATER METER”. Special lettering available, please inquire.
- All lids with counterbore (CBORE) have thru hole diameter of 1.88”.
- Composite Lids include a brass bearing washer (below lid) and brass flanged sleeve (protects hole from elongation).
- Polymer Lids include two UHMWPE bearing washers (located above and below lid).
- Frames other than Trumbull Composite or Polymer models are shown for illustration purposes only.
- For explanation of asterisk (*) and dash (—) points for our lids, see “Additional Notes” on page 27.

<table>
<thead>
<tr>
<th>CLEAR OPENING</th>
<th>LID OD</th>
<th>RIM THICKNESS</th>
<th>FITS FRAME TYPES</th>
<th>MATERIAL AND ANTENNA MOUNTING</th>
<th>CBORE DIM.</th>
<th>LOCKING MECHANISM</th>
<th>TRUMBULL ITEM NO.</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>22-3/4”</td>
<td>25-1/4”</td>
<td>2”</td>
<td>EJ 1700</td>
<td>Solid Lid*—COMPOSITE—Retainer Bracket</td>
<td>---</td>
<td>Ductile Iron Worm Gear</td>
<td>367-5685</td>
<td>63.50 lbs.</td>
</tr>
<tr>
<td>24”</td>
<td>25-3/4”</td>
<td>2-1/2”</td>
<td>EJ 1543/1545*, Neenah R-1565*, Baltimore</td>
<td>Solid Lid*—COMPOSITE—Retainer Bracket</td>
<td>---</td>
<td>Double Paddle Lock (DI)</td>
<td>367-5698</td>
<td>64.00 lbs.</td>
</tr>
<tr>
<td>24-3/16”</td>
<td>25-1/2”</td>
<td>1-1/4”</td>
<td>EJ 1040, 1045, 1048 &amp; 1705, Lid Marked “CWD”</td>
<td>Solid Lid*—COMPOSITE—Retainer Bracket</td>
<td>---</td>
<td>Ductile Iron Worm Gear</td>
<td>367-5527</td>
<td>54.00 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Trumbull Frame Only 367-5635</td>
<td>Solid Lid*—COMPOSITE—Retainer Bracket</td>
<td>---</td>
<td>UHMWPE Worm Gear</td>
<td>367-5528</td>
<td>109.5 lbs.</td>
</tr>
<tr>
<td>30”</td>
<td>31-13/16”</td>
<td>2-1/2”</td>
<td>Neenah R-1568*, Baltimore</td>
<td>Solid Lid*—COMPOSITE—Retainer Bracket</td>
<td>---</td>
<td>Double Paddle Lock (DI)</td>
<td>367-5710</td>
<td>108.7 lbs.</td>
</tr>
<tr>
<td>34”</td>
<td>35-27/32”</td>
<td>1-1/2”</td>
<td>EJ 1585, Neenah R-1752, Arlington, VA version of this lid is shown on page 19.</td>
<td>Solid Lid*—COMPOSITE—Retainer Bracket</td>
<td>---</td>
<td>None, Drop In Style</td>
<td>spec/ord.</td>
<td>131.3 lbs.</td>
</tr>
</tbody>
</table>
Lids normally furnished marked “WATER METER”. Special lettering available, please inquire.

Frame and Cover Assemblies are sealed by an EPDM gasket.

Bolt down lids are secured to frames with four Xylan coated stainless screws, see page 45 for optional security screws.

To refer to antenna mounting options, see “Additional Notes” on page 27.

<table>
<thead>
<tr>
<th>CLEAR OPENING</th>
<th>LID OD</th>
<th>RIM THICKNESS</th>
<th>FITS FRAME TYPES</th>
<th>MATERIAL AND ANTENNA MOUNTING</th>
<th>LOCKING MECHANISM</th>
<th>FASTENER TYPE</th>
<th>TRUMBULL ITEM NO.</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>21-1/2&quot; ID</td>
<td>23-3/4&quot;</td>
<td>1&quot;</td>
<td>Trumbull Frame Only 367-5468</td>
<td>Solid Lid* —COMPOSITE— Retainer Bracket</td>
<td>Bolt Down</td>
<td>Allen Head or Security Screw</td>
<td>367-5790</td>
<td>66.1 lbs. Frame and Cover</td>
</tr>
<tr>
<td>24&quot; ID</td>
<td>26&quot;</td>
<td>1&quot;</td>
<td>Trumbull Frame Only 367-5705</td>
<td>Solid Lid* —COMPOSITE— Retainer Bracket</td>
<td>Bolt Down</td>
<td>Allen Head or Security Screw</td>
<td>367-5702</td>
<td>93.0 lbs. Frame and Cover</td>
</tr>
<tr>
<td>30&quot; ID</td>
<td>32&quot;</td>
<td>1-1/4&quot;</td>
<td>Trumbull Frame Only 367-5794</td>
<td>Solid Lid* —COMPOSITE— Retainer Bracket</td>
<td>Bolt Down</td>
<td>Allen Head or Security Screw</td>
<td>367-5793</td>
<td>129.0 lbs. Frame and Cover</td>
</tr>
<tr>
<td>36&quot; ID</td>
<td>38&quot;</td>
<td>1-1/2&quot;</td>
<td>Trumbull Frame Only 367-5784</td>
<td>Solid Lid* —COMPOSITE— Retainer Bracket</td>
<td>Bolt Down</td>
<td>Allen Head or Security Screw</td>
<td>367-5465</td>
<td>236.8 lbs. Frame and Cover</td>
</tr>
</tbody>
</table>

50,000 lbs.load rated Frame and Cover Assemblies marked “WATER METER” are continued on the following page.
“WATER METER”
Frame and Cover Assemblies
50,000 lbs. Rating

- Lids normally furnished marked “WATER METER”. Special lettering available, please inquire.
- Frame and Cover Assemblies are sealed by an EPDM gasket.
- Bolt down lids are secured to frames with four Xylan coated stainless screws, see page 45 for optional security screws.
- To refer to antenna mounting options, see “Additional Notes” below.

<table>
<thead>
<tr>
<th>CLEAR OPENING</th>
<th>LID OD</th>
<th>RIM THICKNESS</th>
<th>FITS FRAME TYPES</th>
<th>MATERIAL AND ANTENNA MOUNTING</th>
<th>LOCKING MECHANISM</th>
<th>FASTENER TYPE</th>
<th>TRUMBULL ITEM NO.</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>36” ID</td>
<td>38”</td>
<td>1-1/2”</td>
<td>Trumbull Frame Only 367-5784</td>
<td>Solid Lid* —COMPOSITE— Retainer Bracket</td>
<td>Paddle Lock</td>
<td>Pentagon Bolt or Security Bolt</td>
<td>367-5618</td>
<td>236.8 lbs. Frame and Cover</td>
</tr>
</tbody>
</table>

“ADDITIONAL NOTES” for Trumbull Meter and Manhole Lids

* Underside of solid lids provide the following options to mount antenna:
  1. Trumbull Retainer Bracket, screwed to 3 posts, which will hold the following:
     - ITRON SHELF MOUNT ADAPTER
     - ITRON THROUGH-THE-LID ADAPTER, bracket can hold either one or two
     - BADGER, antenna bracket can hold either one or two
     - NEPTUNE, bracket can hold one R900 antenna
     - SENSUS, bracket can hold one antenna
     - ZENNER, bracket can hold one antenna
     - MUELLER, bracket can hold one antenna
  2. A Trumbull retainer bracket can be mounted to the underside of lid to hold a flow monitoring device or other equipment.
  3. Post adapters, screwed to one post on the lid:
     - ITRON 100W ADAPTER, item #367-5796 (snap in design)
     - ITRON RIVA ADAPTER, item #167-5000 (snap in design)
     - BADGER LTE ADAPTER, item #367-5000

** Neptune (figure 8) holes accepts either Neptune Touch Read or R900 antennas.
*** X-Frame style lids available with Neptune, Badger, Sensus and Itron holes and counterbore. Lids will seat, but not hinge.
* Slots need to be cut or ground into existing frame in order for the paddle locks to lock in frame.
** For 15” Lids requiring “through the lid” mounting, please inquire regarding load rating requirements.
*** A ductile iron worm gear is required when cover is used with an iron frame, and UHMWPE worm gear when used with composite frame.
Trumbull Composite Manhole Lids are today’s smart choice for highway use in place of cast iron lids. They have been successfully tested to a minimum of 40,000 lb. proof load per AASHTO M-306, H-20. Test reports from independent lab are available upon request.

Composite lids have no scrap value, deterring theft common to iron lids. These lids are much lighter than cast iron lids, yet are rated for traffic loads. Use composite lids to avoid back and finger injuries associated with cast iron lids. Lids also have a slip-resistant, anti-skid pattern.

Rated for traffic loads, and tested in excess of 40,000 lbs.

The light weight of composites reduces finger and back injuries.

Composites have no scrap value, so they reduce theft problem common to cast iron lids.

LOAD TESTED PER AASHTO M-306, H-20 – 40,000 lbs.
(See page 38 for details on load testing)

CUSTOM MOUNTING available for flow monitoring devices

WORM GEAR secures lid to frame and is operated with stainless steel pentagon bolt and hardware; other locking options available upon request

Signals from flow monitoring devices pass through our Composite Lids!

For compatible Trumbull Composite Frames, see pages 39 - 42.
For dimensions, load ratings and additional options, refer to the product information chart on pages 46 - 49.
Composite Manhole Frame and Cover Assembly

21-1/2" Clear Opening
23-3/4" Lid OD – EPDM Sealed

- Composite design can pass a 50,000 lb. proof load test per AASHTO M-306, H-25, yet weighs only one-third of comparable cast iron frame and lid, reducing back and finger injuries.
- All hardware is stainless steel, along with the composite construction provides corrosion resistance.
- Fasteners on underside to attach flow monitoring/leak detection devices.

<table>
<thead>
<tr>
<th>Lid OD Size</th>
<th>Locking Mechanism</th>
<th>FRAME</th>
<th>SANITARY SEWER LID</th>
<th>WATER METER LID</th>
<th>Total Weight</th>
</tr>
</thead>
</table>

For dimensions, load ratings and additional options, refer to the product information chart on page 26 (WATER METER) and page 48 (SANITARY SEWER).
Lid weight: 39 lbs.
Frame weight: 27 lbs.

24" Manhole Lid & Frame
(21-1/2" Frame Clear Opening, Bolt Down)
Drawn to Scale

Frame part number:
367-5468

Lid part number:
367-5789 (Sanitary Sewer)
367-5790 (Water Meter)

50,000 lbs. load rating, H-25

Mounting for flow monitoring and leak detection devices

Cover OD
\( \phi 23-3/4 \)

Cover thickness 1

Frame height 4

O-ring seal

Stainless pick bar

Flange OD \( \phi 28-7/8 \)

Clear opening \( \phi 21-1/2 \)

Slot centerline
\( \phi 28.00 \)

M14 Stainless bolts, 4 PL.

Frame part number:
367-5468

Lid part number:
367-5789 (Sanitary Sewer)
367-5790 (Water Meter)

24" Manhole Lid & Frame
(21-1/2" Frame Clear Opening, Bolt Down)
Drawn to Scale

Frame part number:
367-5468

Lid part number:
367-5789 (Sanitary Sewer)
367-5790 (Water Meter)
Composite Manhole Frame and Cover Assemblies

With Full Clear Opening – Paddle Lock and Bolt Down Styles

Available in 26", 32" and 38" Sizes – EPDM Sealed

- Composite design can pass a 50,000 lb. proof load test per AASHTO M-306, H-25, yet weighs only one-third of comparable cast iron frame and lid, reducing back and finger injuries.
- Two lid fastening styles available.
- All hardware is stainless steel, along with the composite construction provides corrosion resistance.
- Fasteners on underside to attach flow monitoring/leak detection devices.
- Optional logo/custom lettering available.

<table>
<thead>
<tr>
<th>Lid OD</th>
<th>Locking Mechanism</th>
<th>FRAME Item No.</th>
<th>SANITARY SEWER LID Item No.</th>
<th>WATER METER LID Item No.</th>
<th>Total Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>26&quot;</td>
<td>Bolt Down</td>
<td>367-5705</td>
<td>367-5701</td>
<td>367-5702</td>
<td>93.00 lbs.</td>
</tr>
<tr>
<td>26&quot;</td>
<td>Paddle Lock</td>
<td></td>
<td>367-5703</td>
<td>367-5704</td>
<td>93.00 lbs.</td>
</tr>
<tr>
<td>32&quot;</td>
<td>Bolt Down</td>
<td>367-5794</td>
<td>367-5792</td>
<td>367-5793</td>
<td>129.00 lbs.</td>
</tr>
<tr>
<td>32&quot;</td>
<td>Paddle Lock</td>
<td></td>
<td>367-5900</td>
<td>367-5901</td>
<td>129.00 lbs.</td>
</tr>
<tr>
<td>38&quot;</td>
<td>Bolt Down</td>
<td>367-5784</td>
<td>367-5795</td>
<td>367-5465</td>
<td>236.80 lbs.</td>
</tr>
<tr>
<td>38&quot;</td>
<td>Paddle Lock</td>
<td></td>
<td>367-5617</td>
<td>367-5618</td>
<td>236.80 lbs.</td>
</tr>
</tbody>
</table>

For dimensions, load ratings and additional options, refer to the product information chart on pages 26 - 27 (WATER METER) and pages 48 - 49 (SANITARY SEWER).
Lid weight: 48 lbs.
Frame weight: 47 lbs.

Frame part number:
367-5705

Lid part number:
367-5701 (Sanitary Sewer)
367-5702 (Water Meter)

26" Manhole Lid & Frame
(24" Frame Clear Opening, Bolt Down)
Drawn to Scale

50,000 lbs. load rating, H-25

Dimensions are in inches

EPDM fin-type seal
Pick Bar Stainless Steel
Mounting for flow monitoring and leak detection devices

Frame height 4"
Flange OD Ø35"
Slot centerline Ø34"
Cover thickness 1"

M14 SHCS's or anti-theft bolts
Stainless steel
Xylan 1424 coated

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Trumbull Manufacturing, Inc.
Youngstown, Ohio
www.trumbull-mfg.com
Lid weight: 48 lbs.
Frame weight: 47 lbs.

Frame part number:
367-5705

Lid part number:
367-5703 (Sanitary Sewer)
367-5704 (Water Meter)

26" Manhole Lid & Frame
(24" Frame Clear Opening, Paddle Lock)
Drawn to Scale

Drawn: AAH
09/18/18

50,000 lbs. load rating, H-25

Note: There are 2 paddle lock assemblies, 180° apart, Per below Detail B

- Operating bolt
  - Pentagon or Anti-theft head, Stainless steel
- Fin-type seal, EPDM
- Paddle Lock, Stainless steel
- M8 Hex bolt, Stainless steel
- Flanged sleeve, 2 PL, Stainless steel
- Slot center line Ø34"
- Cover thickness 1"
- Frame height 4"
- Cover OD Ø26"
- Cover OD Ø26"
- Ø36 3/4"
- 2" Characters
  - Custom lettering available
- Pick Bar Stainless Steel
- Pick Bar Stainless Steel
- Frame part number:
  - 367-5705
- Lid part number:
  - 367-5703 (Sanitary Sewer)
  - 367-5704 (Water Meter)

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08/01/20
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32" Manhole Lid & Frame
(30" Frame Clear Opening, Bolt Down)

Lid weight: 88 lbs.
Frame weight: 41 lbs.

Frame part number:
367-5794

Lid part number:
367-5792 (Sanitary Sewer)
367-5793 (Water Meter)

Dimensions are in inches
50,000 lbs. load rating, H-25

© 2020 Trumbull Manufacturing, Inc.
**Frame part number:**
367-5794

**Lid part number:**
- 367-5900 (Sanitary Sewer)
- 367-5901 (Water Meter)

---

**32" Manhole Lid & Frame**
(30" Frame Clear Opening, Paddle Lock)

**Dimensions are in inches**

- **Lid weight:** 88 lbs.
- **Frame weight:** 41 lbs.
- **50,000 lbs. load rating, H-25**

**Note:** There are 2 paddle lock assemblies, 180° apart, Per below Detail B

- **Frame height 4**
- **Cover thickness 1 1/4**

---

**Operating bolt**
Pentagon or Anti-theft head, Stainless steel

**Fin-type seal, EPDM**

**Paddle Lock, Stainless steel**

**Flanged sleeve, 2 PL., Stainless steel**

**M8 Hex bolt, Stainless steel**

---

**Trumbull Manufacturing, Inc.**
Youngstown, Ohio
www.trumbull-mfg.com
38" Manhole Lid & Frame
(36" Frame Clear Opening, Bolt Down)

Lid weight: 139.5 lbs.
Frame weight: 97.3 lbs.

Cover OD: \( \varnothing 38 \) in.
Pick bar, 2 PL., Stainless steel
M14 SHCS's or anti-theft bolts, Stainless steel
Xylan 1424 coated, 4 PL.

Frame part number:
367-5784

Lid part number:
367-5795 (Sanitary Sewer)
367-5465 (Water Meter)

Cover thickness: 1-3/8 in.
EPDM fin-type seal
Mounting for flow monitoring and leak detection devices
Frame height: 6 in.

(Dimensions are in inches)

50,000 lbs. load rating, H-25

Trumbull Manufacturing, Inc.
Youngstown, Ohio
www.trumbull-mfg.com
**Lid weight:** 139.5 lbs.  
**Frame weight:** 97.3 lbs.

**Frame part number:** 367-5784  
**Lid part number:** 367-5617 (Sanitary Sewer)  367-5618 (Water Meter)

**38" Manhole Lid & Frame**  
**(36" Frame Clear Opening, Paddle Lock)**  
*Drawn to Scale*

**Dimensions:**
- **Cover OD:** \( \varnothing 38 \)  
- **Flange OD:** \( \varnothing 47-1/2 \)  
- **Slot center line:** \( \varnothing 46-1/2 \)  
- **Frame height:** 6
- **Cover thickness:** 1-3/8
- **Paddle Lock:** Stainless steel
- **Fin-type seal:** EPDM
- **Flanged sleeve:** 2 PL., Stainless steel
- **Operating bolt:** M8 Hex bolt, Stainless steel
- **Pick bar:** 2 PL., Stainless steel
- **Mounting for flow monitoring and leak detection devices**

**Note:** There are 2 paddle lock assemblies, 180° apart, Per below Detail A

**Frame part number:** 367-5784  
**Lid part number:** 367-5617 (Sanitary Sewer) 367-5618 (Water Meter)

50,000 lbs. load rating, H-25

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The M-306 Standard
The American Association of State Highway and Transportation Officials (AASHTO) developed a standard, M-306, that calls for proof load testing of iron castings. For an H-20 proof load test, that standard requires a 40,000 lb. load to be applied to a 9” x 9” square plate for one minute. Any cracks or permanent deformation greater than 1/8” are cause for rejection.

Polymer and Composite Lids
Polymer and composite lids are used for a variety of applications, such as:
• Water meter pits and manholes, where existing cast iron lids blocked radio signals from radio read meters.
• Flow monitoring devices in manholes, where signals of rising flow levels are likewise blocked by cast iron lids.
• Theft, due to the scrap value of iron.
• In industrial and sanitary manholes to reduce finger and back injuries, due to their light weight.

How the M-306 Standard Relates to Polymer and Composite Lids
Municipalities and Engineers wanting a traffic rated polymer lid frequently specify an “H-20” rating in their specifications. There can be confusion since AASHTO published bridge design criteria, known as H-20, which calls for truck axle loading of 32,000 lbs., or 16,000 lbs. per wheel load. The AASHTO M-306 standard calls for a safety factor of 2.5 to be applied to the 16,000 lbs. wheel load (2.5 x 16,000 = 40,000 lbs.). Therefore, for H-20 rated lids, a 40,000 lbs. proof load test is required. For H-25 rated lids, a 50,000 lbs. proof load test is required.

Explanation of the Confusion
Many water departments began to install radio read meters but couldn’t get a good read through cast iron lids. Frequently, many were only thinking of a radio-friendly material such as polymer, without giving much thought to its strength. As a result, many municipalities received thin plastic lids that could only withstand a proof load test of 5,000 lbs., or less. Frequently, breakage occurred from lawn tractors and other loads. To be conservative and have an industry standard they can specify, many municipalities require a 40,000 lbs. proof load test, even where a lid is not in the roadway. Some suppliers advertise their lids as H-20, but are referring to a 16,000 lbs. wheel load and not a 40,000 lbs. proof load test. Some furnish lids that cannot even meet the 16,000 lbs. load they advertise as “H-20”.

How to Avoid the Confusion
To avoid confusion, your specs should require the proof load test you specify, conducted per AASHTO M-306. To be safe, require a report from an independent test lab. Simply specifying “H-20” may not provide the safety factor you need, particularly where traffic loads are involved. The AASHTO M-306 standard requires the load to be placed at the center of the lid and not transfer any of the load directly to the frame. For smaller lids, such as 12” diameter, a plate smaller than 9” x 9” must be used. If you would like a proof load test performed on the lids you are using, contact the Engineering Department here at Trumbull.
Composite Manhole Frames and Covers

Worm Gear Style – For Use with 25-1/2" x 1-1/4" Covers

- Composite design can pass a 40,000 lbs. proof load test per AASHTO M-306, H-20, yet weighs only one-third of comparable cast iron frame, reducing back and finger injuries.
- Frame’s composite construction provides corrosion resistance, making it suitable for both water and sewer applications.

Use with POLYMER WORM GEARS ONLY; NOT for use with ductile iron worm gears.

EPDM SEAL prevents infiltration

4 WORM GEAR RECESSES allow cover to be placed in any of 4 directions

WIDE FLANGE DIAMETER

FRAME SLOTS allow easy handling and anchoring to manhole

Ask your Trumbull Rep about cities and towns that have already installed our Frames and Covers!

<table>
<thead>
<tr>
<th>Flange OD</th>
<th>Dimensions of Lids that will Fit</th>
<th>Height</th>
<th>Locking Mechanism</th>
<th>FRAME Trumbull Item No.</th>
<th>SANITARY SEWER LID Trumbull Item No.</th>
<th>WATER METER LID Trumbull Item No.</th>
<th>Total Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>34-1/2&quot;</td>
<td>25-1/2&quot; x 1-1/4&quot;</td>
<td>6&quot;</td>
<td>Worm Gear</td>
<td>367-5635</td>
<td>367-5626</td>
<td>367-5528</td>
<td>109.50 lbs.</td>
</tr>
</tbody>
</table>

For dimensions, load ratings and additional options, refer to the product information chart on page 25 (WATER METER) and page 47 (SANITARY SEWER).
Lid weight = 51.5 lbs.
Frame weight = 58 lbs.

Frame part number:
367-5635

Lid part number:
367-5626 (Sanitary Sewer)
367-5528 (Water Meter)

25-1/2" x 1-1/4" Lid & Frame
(23-7/8" Frame Clear Opening)

Drawn to Scale

Drawn: BJE
12/05/19

Trumbull Manufacturing, Inc.
Youngstown, Ohio
www.trumbull-mfg.com
Composite Manhole Frames and Covers
Worm Gear Style – For Use with 23-3/4" x 1" Covers

- Composite design can pass a 40,000 lbs. proof load test per AASHTO M-306, H-20, yet weighs only one-third of comparable cast iron frame, reducing back and finger injuries.
- Frame’s composite construction provides corrosion resistance, making it suitable for both water and sewer applications.

For dimensions, load ratings and additional options, refer to the product information chart on page 24 (WATER METER) and page 46 (SANITARY SEWER).
Lid weight = 44.3 lbs.
Frame weight = 35.3 lbs.

SECTION A-A

40,000 lbs. load rating, H-20

Frame part number:
367-5623

Lid part number:
367-5624 (Sanitary Sewer)
367-8910 (Water Meter)

23-3/4" x 1" Lid & Frame
(21-1/2" Frame Clear Opening)
Drawn to Scale

Drawn:
BJE
12/09/19

Trumbull Manufacturing, Inc.
Youngstown, Ohio
www.trumbull-mfg.com
Composite Oval Remote Antenna Box

13.42” x 9.29” Lid Size – Sold Complete with Box and Lid Together

The Oval Remote Antenna Box provides a good solution to house endpoints when replacement composite lids are not available to replace the larger cast iron lid.

Designed to accept up to 3 Badger endpoints in the box, rather than attached to the lid, reducing the chance of ripping wires when removing lids.

Made of durable SMC composite material. Box and solid lid are rated for a 40,000 lbs. test load, per AASHTO M-306, H-20. For load ratings with antenna holes through the lid, please inquire.

<table>
<thead>
<tr>
<th>Trumbull Item No.</th>
<th>Lid Description</th>
<th>Height</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>367-8920</td>
<td>Solid Lid</td>
<td>12”</td>
<td>30.00 lbs.</td>
</tr>
<tr>
<td>367-8923</td>
<td>1 Badger Counterbore</td>
<td>12”</td>
<td>29.90 lbs.</td>
</tr>
<tr>
<td>367-8922</td>
<td>2 Badger Counterbores</td>
<td>12”</td>
<td>29.80 lbs.</td>
</tr>
<tr>
<td>367-8921</td>
<td>3 Badger Counterbores</td>
<td>12”</td>
<td>29.70 lbs.</td>
</tr>
</tbody>
</table>
Solid Lid part number: 367-8920
1 hole (Badger) Lid part number: 367-8923
2 holes (Badger) Lid part number: 367-8922
3 holes (Badger) Lid part number: 367-8921

Notes:
1.) Approx. weight: 30 lbs.
2.) Lid does not lock to frame.

Antenna Bracket(s)
- mounts to Frame
- up to 3 Badger Brackets per Frame
 (Please inquire for other antennas)

Load Rating: 40,000 lbs.

Oval Remote Antenna Box
Drawn to Scale

Drawn: BJE
01/07/20

Trumbull Manufacturing, Inc.
Youngstown, Ohio
www.trumbull-mfg.com
Additional Security for Meter and Manhole Lids

**Security Bolts**
Made from stainless steel

**For Worm Gear Lids**
<table>
<thead>
<tr>
<th>Trumbull Item No.</th>
<th>For Frames . . .</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>167-0069*</td>
<td>10”-12”, 15”; 21” monitor cover</td>
<td>0.10 lbs.</td>
</tr>
<tr>
<td>167-0048**</td>
<td>Larger Size Worm Gears</td>
<td>0.25 lbs.</td>
</tr>
</tbody>
</table>

**For Paddle-Lock Frames and Covers**
<table>
<thead>
<tr>
<th>Trumbull Item No.</th>
<th>For Frames . . .</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>167-0062*</td>
<td>Paddle-Lock Covers</td>
<td>0.10 lbs.</td>
</tr>
</tbody>
</table>

* Don't forget the Custom KEY

**Security Screws**
- Xylan coated stainless steel
- M14 x 30MM for use with 24” Frame and Covers
- M14 x 35MM for use with 30” and 36” Frame and Covers

**For Bolt Down Frames and Covers**
<table>
<thead>
<tr>
<th>Trumbull Item No.</th>
<th>Frame</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>167-0146</td>
<td>M14-2.0 x 30MM Security Screw</td>
<td>0.10 lbs.</td>
</tr>
<tr>
<td>167-0148</td>
<td>M14-2.0 x 35MM Security Screw</td>
<td>0.10 lbs.</td>
</tr>
</tbody>
</table>

**RELATED PRODUCTS**

**Ductile Iron Meter Box Cover**
Accepts All Trumbull 12-1/4” OD Lids

Trumbull double lid Meter Box Covers provide both physical and frost protection for underground meters. The insulating air space captured in the ductile iron base casting, between the lid and the plastic frost liner, helps keep the ground heat inside the meter chamber to reduce the chance of freezing. The internal plastic frost liner is molded with a central hub to permit easy removal.

Use of frost liner is not compatible with most antenna mountings. Consult your Trumbull Rep for more info.

<table>
<thead>
<tr>
<th>Trumbull Item No.</th>
<th>Frame</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>367-5466</td>
<td>DI Meter Box Cover Base (T4-21)</td>
<td>75.00 lbs.</td>
</tr>
<tr>
<td>367-5462</td>
<td>Frost Liner</td>
<td>0.63 lbs.</td>
</tr>
</tbody>
</table>
40,000 lbs. load rated Lids marked “SANITARY SEWER” are continued on the following page.
### SANITARY SEWER
Composite and Polymer Lids

**40,000 lbs. Rating**

- 40,000 lbs. lids normally furnished with ductile iron worm gear.
- Lids are normally furnished with standard (27/32") pentagon bolt.
- Lids normally furnished marked “SANITARY SEWER”. Special lettering available, please inquire.
- Lids include a T316SS bearing washer (below lid) & T316SS flanged sleeve to protect hole from elongation (above lid).
- Flanged sleeve protects the hole from elongation (not furnished with drop-in style lids).
- Frames other than Trumbull Composite or Polymer models are shown for illustration purposes only.
- For explanation of asterisk (*) and dash (*) points for our lids, see “Additional Notes” on page 27.

<table>
<thead>
<tr>
<th>CLEAR OPENING</th>
<th>LID OD</th>
<th>RIM THICKNESS</th>
<th>FITS FRAME TYPES</th>
<th>MATERIAL AND ANTENNA MOUNTING</th>
<th>CBORE DIM.</th>
<th>LOCKING MECHANISM</th>
<th>TRUMBULL ITEM NO.</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>24-3/16&quot;</td>
<td>25-1/2&quot;</td>
<td>1-1/4&quot;</td>
<td>EJ 1040, 1045, 1048 &amp; 1705</td>
<td>Solid Lid — COMPOSITE — Retainer Bracket</td>
<td>---</td>
<td>Ductile Iron Worm Gear</td>
<td>367-5625</td>
<td>54.00 lbs.</td>
</tr>
<tr>
<td>34&quot;</td>
<td>35-27/32&quot;</td>
<td>1-1/2&quot;</td>
<td>EJ 1585, Neenah R-1752</td>
<td>Solid Lid — COMPOSITE — Retainer Bracket</td>
<td>---</td>
<td>None, Drop In Style</td>
<td>367-5714</td>
<td>131.3 lbs.</td>
</tr>
</tbody>
</table>

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08/01/20
Page Revision Page 47 / Catalog Page E-47
**SANITARY SEWER**

Frame and Cover Assemblies

50,000 lbs. Rating

- Lids normally furnished marked “SANITARY SEWER”. Special lettering available, please inquire.
- Frame and Cover Assemblies are sealed by an EPDM gasket.
- Bolt down lids are secured to frames with four Xylan coated stainless screws, see page 45 for optional security screws.
- Underside of solid lids can accept a Trumbull retainer bracket to hold a flow monitoring device or other equipment.
- To refer to antenna mounting options, see “Additional Notes” on page 27.

<table>
<thead>
<tr>
<th>CLEAR OPENING</th>
<th>LID OD</th>
<th>RIM THICKNESS</th>
<th>FITS FRAME TYPES</th>
<th>MATERIAL AND ANTENNA MOUNTING</th>
<th>LOCKING MECHANISM</th>
<th>FASTENER TYPE</th>
<th>TRUMBULL ITEM NO.</th>
<th>WEIGHT</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>21-1/2” ID</td>
<td>23-3/4”</td>
<td>1”</td>
<td>Trumbull Frame Only 367-5468</td>
<td>Solid Lid —COMPOSITE— Retainer Bracket for flow monitoring*</td>
<td>Bolt Down</td>
<td>Allen Head or Security Screw</td>
<td>367-5789</td>
<td>66.1 lbs.</td>
<td>Frame and Cover</td>
</tr>
<tr>
<td>24” ID</td>
<td>26”</td>
<td>1”</td>
<td>Trumbull Frame Only 367-5705</td>
<td>Solid Lid —COMPOSITE— Retainer Bracket for flow monitoring*</td>
<td>Bolt Down</td>
<td>Allen Head or Security Screw</td>
<td>367-5701</td>
<td>93.0 lbs.</td>
<td>Frame and Cover</td>
</tr>
<tr>
<td>30” ID</td>
<td>32”</td>
<td>1-1/4”</td>
<td>Trumbull Frame Only 367-5794</td>
<td>Solid Lid —COMPOSITE— Retainer Bracket for flow monitoring*</td>
<td>Bolt Down</td>
<td>Allen Head or Security Screw</td>
<td>367-5792</td>
<td>129.0 lbs.</td>
<td>Frame and Cover</td>
</tr>
</tbody>
</table>

*Underside of solid lids can accept a Trumbull retainer bracket to hold a flow monitoring device or other equipment.

50,000 lbs.load rated Frame and Cover Assemblies marked “SANITARY SEWER” are continued on the following page.


**TRUMBULL**

“SANITARY SEWER”
Frame and Cover Assemblies

50,000 lbs. Rating

- Lids normally furnished marked “SANITARY SEWER”. Special lettering available, please inquire.
- Frame and Cover Assemblies are sealed by an EPDM gasket.
- Bolt down lids are secured to frames with four Xylan coated stainless screws, see page 45 for optional security screws.
- Underside of solid lids can accept a Trumbull retainer bracket to hold a flow monitoring device or other equipment.
- To refer to antenna mounting options, see “Additional Notes” on page 27.

<table>
<thead>
<tr>
<th>CLEAR OPENING</th>
<th>LID OD</th>
<th>RIM THICKNESS</th>
<th>FITS FRAME TYPES</th>
<th>MATERIAL AND ANTENNA MOUNTING</th>
<th>LOCKING MECHANISM</th>
<th>FASTENER TYPE</th>
<th>TRUMBULL ITEM NO.</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>36” ID</td>
<td>38”</td>
<td>1-1/2”</td>
<td>Trumbull Frame Only 367-5784</td>
<td>Solid Lid — COMPOSITE — Retainer Bracket for flow monitoring*</td>
<td>Bolt Down</td>
<td>Allen Head or Security Screw</td>
<td>367-5795</td>
<td>236.8 lbs. Frame and Cover</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Paddle Lock</td>
<td>Pentagon Bolt or Security Bolt</td>
<td>367-5617</td>
<td>236.8 lbs. Frame and Cover</td>
</tr>
</tbody>
</table>

* Underside of solid lids can accept a Trumbull retainer bracket to hold a flow monitoring device or other equipment.
Manhole and Meter Lid
FIELD SURVEY FORM
All Dimensions to be Taken from Frame

Customer Information
Name ______________________________
Company ____________________________
Project Location ______________________
Email ________________________________
Phone ________________________________

Frame Manufacturer Information
Frame Make & Model No. ____________________________
Lid Make & Model No. ____________________________
Lettering On Lid ____________________________

Inset Style

Overlapping Style

Straight Wall ID Style

New Cover Details
LETTERING
☐ “SANITARY SEWER”
☐ “WATER METER”
☐ Other ____________________________

LOAD RATING REQUIRED
☐ Heavy Duty AASHTO M306, H-20; 40,000 lbs.
☐ Medium Duty; 20,000 lbs.
☐ Light Duty; 5,000 lbs.

AMI/AMR Antenna & Leak Detection Mounting
☐ Bracket mounting on underside
☐ Through-the-lid, flush with grade
☐ Mfg & model of endpoint ____________________________
Brass Meter Couplings and Meter Flanges
Complete w/gasket. Additional gaskets can be purchased separately. Shown in more detail on page E-54 of our Catalog.

<table>
<thead>
<tr>
<th>TRUMBULL#</th>
<th>SIZE OF METER</th>
<th>LAYING LENGTH</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>368-0590</td>
<td>Coupling, 1/2” (for 5/8” x 3/4” &amp; 3/4” meters)</td>
<td>2-3/8”</td>
<td>0.44 lbs.</td>
</tr>
<tr>
<td>368-0591</td>
<td>Coupling, 1/2” (for 5/8” x 1/2” meters)</td>
<td>2-3/8”</td>
<td>0.25 lbs.</td>
</tr>
<tr>
<td>368-0646</td>
<td>Coupling, 1/2” (for 5/8” x 3/4” &amp; 3/4” meters)</td>
<td>1-5/8”</td>
<td>0.40 lbs.</td>
</tr>
<tr>
<td>368-0593</td>
<td>Coupling, 3/4” (for 5/8” x 3/4” &amp; 3/4” meters)</td>
<td>2”</td>
<td>0.45 lbs.</td>
</tr>
<tr>
<td>368-0592</td>
<td>Coupling, 3/4” (for 5/8” x 3/4” &amp; 3/4” meters)</td>
<td>2-1/2”</td>
<td>0.50 lbs.</td>
</tr>
<tr>
<td>368-0595</td>
<td>Coupling, 1”</td>
<td>2-5/8”</td>
<td>0.70 lbs.</td>
</tr>
<tr>
<td>368-0597</td>
<td>Coupling, 1-1/2”, less bushing**</td>
<td>2-7/8”</td>
<td>1.85 lbs.</td>
</tr>
<tr>
<td>368-0598</td>
<td>Coupling, 2”, less bushing**</td>
<td>3”</td>
<td>2.65 lbs.</td>
</tr>
<tr>
<td>368-0618</td>
<td>Bushing, for 1-1/2” Coupling**</td>
<td>0.85 lbs.</td>
<td></td>
</tr>
<tr>
<td>368-0619</td>
<td>Bushing, for 2” Coupling**</td>
<td>1.20 lbs.</td>
<td></td>
</tr>
<tr>
<td>368-0642</td>
<td>A13 3/4”</td>
<td>9”</td>
<td>0.4 lbs.</td>
</tr>
<tr>
<td>368-0643</td>
<td>A14 1”</td>
<td>10-3/4”</td>
<td>0.4 lbs.</td>
</tr>
<tr>
<td>368-0639</td>
<td>A23 3/4”</td>
<td>9”</td>
<td>0.4 lbs.</td>
</tr>
<tr>
<td>368-0641</td>
<td>A24 1”</td>
<td>10-3/4”</td>
<td>0.6 lbs.</td>
</tr>
<tr>
<td>368-0644</td>
<td>A34 1”</td>
<td>10-3/4”</td>
<td>0.6 lbs.</td>
</tr>
<tr>
<td>368-0640</td>
<td>A44 2” flare</td>
<td>17”</td>
<td>0.7 lbs.</td>
</tr>
<tr>
<td>379-1015</td>
<td>Flange w/full-face gasket, 1-1/2”</td>
<td>2.00 lbs.</td>
<td></td>
</tr>
<tr>
<td>379-1016</td>
<td>Flange w/full-face gasket, 2”</td>
<td>2.45 lbs.</td>
<td></td>
</tr>
</tbody>
</table>

Meter Flange Kits
Kits include 2 flanges, 2 gaskets and 4 fasteners (bolts and nuts). Shown in more detail on page E-54 of our Catalog.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>ZINC-PLATED FASTENERS</th>
<th>BRASS FASTENERS</th>
<th>STAINLESS FASTENERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brass Meter Flange Kit, 1-1/2”</td>
<td>379-2015</td>
<td>379-2025</td>
<td>379-2030</td>
</tr>
<tr>
<td>Brass Meter Flange Kit, 2”</td>
<td>379-2016</td>
<td>379-2026</td>
<td>379-2031</td>
</tr>
</tbody>
</table>

Meter Yokes, Expansion Connections and Gaskets
Shown in more detail on page E-55.

<table>
<thead>
<tr>
<th>TRUMBULL#</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>367-5470</td>
<td>Meter Yoke, for 5/8” meters</td>
<td>3.65 lbs.</td>
</tr>
<tr>
<td>367-5469</td>
<td>Meter Yoke, for 5/8” x 3/4” meters</td>
<td>4.20 lbs.</td>
</tr>
<tr>
<td>367-5471</td>
<td>Meter Yoke, for 3/4” meters</td>
<td>4.60 lbs.</td>
</tr>
<tr>
<td>367-5472</td>
<td>Meter Yoke, for 1” meters</td>
<td>7.30 lbs.</td>
</tr>
<tr>
<td>368-0630</td>
<td>Expansion Connection, for 5/8” meters</td>
<td>0.72 lbs.</td>
</tr>
<tr>
<td>368-0632</td>
<td>Expansion Connection, for 5/8” x 3/4” or 3/4” meters</td>
<td>0.93 lbs.</td>
</tr>
<tr>
<td>368-0635</td>
<td>Expansion Connection, for 1” meters</td>
<td>1.61 lbs.</td>
</tr>
</tbody>
</table>

Meter Adapters
Shown in more detail on page E-53 of our Catalog.

<table>
<thead>
<tr>
<th>TRUMBULL#</th>
<th>FORD#</th>
<th>METER SIZE</th>
<th>LAYING LENGTH</th>
<th>METER SIZE</th>
<th>LAYING LENGTH</th>
<th>QUANTITY</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>368-0642</td>
<td>A13</td>
<td>3/4”</td>
<td>9”</td>
<td>5/8”</td>
<td>7-1/2”</td>
<td>2</td>
<td>0.4 lbs.</td>
</tr>
<tr>
<td>368-0643</td>
<td>A14</td>
<td>1”</td>
<td>10-3/4”</td>
<td>5/8”</td>
<td>7-1/2”</td>
<td>2</td>
<td>0.4 lbs.</td>
</tr>
<tr>
<td>368-0639</td>
<td>A23</td>
<td>3/4”</td>
<td>9”</td>
<td>5/8” x 3/4”</td>
<td>7-1/2”</td>
<td>1</td>
<td>0.4 lbs.</td>
</tr>
<tr>
<td>368-0641</td>
<td>A24</td>
<td>1”</td>
<td>10-3/4”</td>
<td>5/8” x 3/4” &amp; 3/4”**</td>
<td>7-1/2”</td>
<td>2</td>
<td>0.6 lbs.</td>
</tr>
<tr>
<td>368-0644</td>
<td>A34</td>
<td>1”</td>
<td>10-3/4”</td>
<td>3/4”</td>
<td>7-1/2”</td>
<td>2</td>
<td>0.4 lbs.</td>
</tr>
<tr>
<td>368-0640</td>
<td>A44</td>
<td>1”</td>
<td>10-3/4”</td>
<td>3/4” x 1”</td>
<td>9”</td>
<td>1</td>
<td>0.7 lbs.</td>
</tr>
<tr>
<td>379-1022</td>
<td>A47</td>
<td>2” flare</td>
<td>17”</td>
<td>1”</td>
<td>10-3/4”</td>
<td>2</td>
<td>3.2 lbs.</td>
</tr>
</tbody>
</table>
SPECIALTY PRODUCTS FOR THE WATERWORKS AND VALVE INDUSTRIES

Our product categories include waterworks tools, valve position indicators, polywrap, joint restraints products, meter pit lids and couplings, valve and curb box accessories, as well as valves and accessories for water/wastewater treatment plants.

We specialize in unique and customized accessories for the valve market. We have pioneered cast stainless valve accessories such as stainless chainwheels, floorstands, wall brackets and stem guides. Other innovations include our valve position indicators and cast stainless mud valves that have been thoughtfully designed to meet the highest expectations of Engineers and Operators. Trumbull Manufacturing is a leader in providing thermoplastic and composite lids for water meter changeout programs, as well as composite manhole frames and covers.

We stand behind our product with experienced Engineering, Quality Control and Field Service personnel. Our products are designed for long life, and are rigorously tested, in-house and at independent labs. Our inside sales staff is passionate about customer satisfaction, contact them today.

Trumbull Manufacturing, Inc.
3850 Hendricks Road, Youngstown, Ohio 44515

Phone: 330.270.7888  Toll Free: 877.504.1507  Fax: 330.392.0756

www.trumbull-mfg.com