COMPOSITE AND POLYMER
METER PIT LIDS
and Meter Pit Frames

Radio-Friendly.

TRAFFIC RATED COMPOSITE
MANHOLE COVERS
and Frame and Cover Assemblies

Amazingly Strong. Surprisingly Light.™

Contact us at...
877.504.1507
trumbull-mfg.com
COMPOSITE and POLYMER Meter Box Lids
Allow Radio Signals to be Read in AMR and AMI Systems

RETAINER BRACKET for installation of antennas under lid, see page 9

SLIP-RESISTANT SURFACE ADA Compliant

COUNTERBORES available for “through-the-lid” antenna mounting (see page 7 and 8)

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 9)

STAINLESS HARDWARE retains worm gear assembly and allows for easy field replacement

WORM GEAR* has square opening to reduce localized stress on pentagon bolt

BRASS SLEEVE & BEARING WASHER prevents wear and elongation of hole for pentagon bolt

PENTAGON BOLT square shank

Our Lids are UV resistant

POLYMER INJECTION MOLDED

COMPOSITE COMPRESSION MOLDED

*For Polymer Lids, worm gears normally furnished as high-strength polymer.

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 18 - 28.
POLYMER Meter Pit Frames

Fits on 15”, 18”, 20” and 21” Meter Pits

**TYPE-A FRAME**
accepts all Trumbull 12-1/4” OD
Type-A inset style lids

**TYPE-C FRAME**
accepts all Trumbull 12-5/8” OD
Type-C overlapping style lids, even those with counterbores for antenna mounting

---

**Trumbull Item No.** | **Frame** | **Weight**
--- | --- | ---
367-5464 | Type-A Frame | 8.10 lbs.
367-5459 | Type-C Frame | 8.10 lbs.

---

Can be used with most common meter pits used today.

Add a magnet for locating.

* Excluding Old Castle (15”)
Consult Trumbull for load ratings, which are based on pit size.

---

GUSSET DESIGN
has strength that is greater than most cast iron frames

REBAR TABS
accept rebar sizes up to 3/8”

---

Fits 15” pits*
Fits 18” pits
Fits 20/21” pits

Fits minimum 17.438” ID
Fits maximum 22.50” OD
Notes:
1.) Material: Thermoplastic (black)
2.) Weight: 8.1 lbs.
3.) Fits all Trumbull 12.25" OD lids
4.) Part Number: 367-5464

12.25" Polymer Frame
(11.4" Clear Opening)
Drawn to Scale

12/15/21
Page Revision Page 4 / Catalog Page

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www.trumbull-mfg.com
Notes:
1.) Material: Thermoplastic (black)
2.) Weight: 8.1 lbs.
3.) Fits all Trumbull 12.63" OD lids
4.) Part Number: 367-5459

12.63" Polymer Frame
(11.48" Clear Opening)
Drawn to Scale

Drawn: NJC 10/09/20
Revision: NJC 11/19/21

Trumbull Manufacturing, Inc.
Youngstown, Ohio
www.trumbull-mfg.com
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 settlers 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>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&quot;</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&quot;</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 21 for other options for 15” lids, and page 22 for options for 18” lids.

LIDS are designed and manufactured by Trumbull Manufacturing, not AY McDonald or Mueller.

ALIGNMENT MARKS on top of lid help installer find the correct position for hook and worm gear to lock lids to brackets in pit setter pipe

US Patent #9,350,148
For dimensions, load ratings and additional options, refer to product information chart on pages 18 - 28.
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 LOGOS

SECURITY BOLTS (see page 40)

COUNTERBORES (see page 7)

CUSTOM LETTERING

CUSTOM SHAPES

Composite frames are shown on pages 41 - 44.

For dimensions, load ratings and additional options, refer to the product information chart on pages 18 - 28.
**ANTENNA MOUNTING**

*Both Retainer Brackets will fit all antennas or through-the-lid adapters with 1-3/4” shaft.*

The elevation of the meter in the pit may cause interference with the endpoint which should be verified.

**For a variety of ENDPOINTS**
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 31 & 33) or optional security screws (see page 40).

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 18 - 28.
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 throught 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&quot;</td>
<td>30.00 lbs.</td>
</tr>
<tr>
<td>367-8923</td>
<td>1 Badger Counterbore</td>
<td>12&quot;</td>
<td>29.90 lbs.</td>
</tr>
<tr>
<td>367-8922</td>
<td>2 badger Counterbores</td>
<td>12&quot;</td>
<td>29.80 lbs.</td>
</tr>
<tr>
<td>367-8921</td>
<td>3 Badger Counterbores</td>
<td>12&quot;</td>
<td>29.70 lbs.</td>
</tr>
</tbody>
</table>

*Vault with Remote Antenna Box.*

Lid is attached to box with a non-locking pivot bolt.

Lid closes flush with top edge of box.

**ADAPTER RECESSES**

allow up to 3 Badger adapters to be mounted below the lid.
Oval Remote Antenna Box

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.

Load Rating: 40,000 lbs.
10” x 6.5” Polymer Yokebox Lids

Allows Radio Signals to be Read in AMR and AMI Systems

Trumbull Item No. Lid Description Weight
367-5657 Solid Lid 0.83 lbs.
367-5657-BADG 1 Badger Hole 0.76 lbs.
367-5657-ITRON 1 Itron Hole 0.80 lbs.
367-5657-MUEL 1 Mueller Hole 0.76 lbs.
367-5657-SENS 1 Sensus or Zenner Hole 0.66 lbs.
367-5657-TH 1 Through Hole (1.88”) 0.82 lbs.

Made to fit inside Ford and A Y McDonald Yokeboxes. Post on underside accommodates our Single Slot Retainer Bracket and Post Adapters. Counterbores also available for through-the-lid antenna mounting. Sliding lock mechanism provided in Nylon as standard, but also available in brass, please inquire. All other hardware is stainless steel.

Yokebox Lids Accessories

Don’t forget the Custom Key

Hand Key Trumbull Item No. Weight
367-4334 0.40 lbs.

Single Slot Retainer Bracket Details shown on page 9

Trumbull Item No. Weight
367-5782 0.05 lbs.

Through-the-Lid Antennas/Adapters

5” Upper Yokebox 8” Upper Yokebox 10” Upper Yokebox
Badger ☒ ☐ ☐
Itron ☐ ☒ ☐
Mueller ☐ ☒ ☒
Sensus ☐ ☐ ☒
Zenner ☒ ☒ ☒
Neptune ☒ ☒ ☒
Kamstrup ☐ ☒ ☒
Due to lack of space for counterbore, a through hole will be provided.

Single Slot Retainer Bracket (for Solid Lids)

Badger ☒ ☐ ☐
Itron Riva 500W ☒ ☐ ☐
Itron 100W ☐ ☒ ☒
Mueller ☐ ☐ ☒
Sensus ☐ ☐ ☒
Neptune ☒ ☐ ☒
Kamstrup ☐ ☐ ☒

Post Adapter (for Solid Lids)

Badger ☒ ☐ ☐
Itron Riva 500W ☒ ☐ ☐
Itron 100W ☐ ☒ ☒
**Lid weight:** 0.83 lbs.

**Lid part number:** 367-5657

10" x 6.5" Yokebox Lid, Solid
(Non-traffic)
Drawn to Scale

Hand Key, P/N: 367-4334 (Cast Steel)

Single Slot Retainer Bracket
P/N: 367-5782 (Thermoplastic)

Sliding Lock
(Thermoplastic or Brass)

Hardware
(Stainless Steel)
10" x 6.5" Yokebox Lid, 1 Hole
(Non-traffic)
Drawn to Scale

<table>
<thead>
<tr>
<th>10&quot; x 6.5&quot; Oval Lid</th>
<th>P/N</th>
<th>Weight (approx.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Badger hole</td>
<td>367-5657-BADG</td>
<td>0.76 lbs.</td>
</tr>
<tr>
<td>1 Itron hole</td>
<td>367-5657-ITRON</td>
<td>0.80 lbs.</td>
</tr>
<tr>
<td>1 Mueller hole</td>
<td>367-5657-MUEL</td>
<td>0.76 lbs.</td>
</tr>
<tr>
<td>1 Sensus/Zenner hole</td>
<td>367-5657-SENS</td>
<td>0.66 lbs.</td>
</tr>
<tr>
<td>1 Through hole (1.88&quot;)</td>
<td>367-5657-TH</td>
<td>0.82 lbs.</td>
</tr>
</tbody>
</table>
METER PIT INSULATING DISCS

- Closed cell polyethylene
- 1.7 Density
- 2.5 R-Value
- Less than 0.1 water absorption
- White in color

For larger sizes not shown, please inquire

<table>
<thead>
<tr>
<th>Thickness</th>
<th>15” Diameter</th>
<th>18” Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Trumbull Item No.</td>
<td>Size</td>
</tr>
<tr>
<td>2”</td>
<td>367-5824</td>
<td>15” x 2”</td>
</tr>
<tr>
<td>3”</td>
<td>367-5825</td>
<td>15” x 3”</td>
</tr>
<tr>
<td>4”</td>
<td>367-5826</td>
<td>15” x 4”</td>
</tr>
</tbody>
</table>

RELATED PRODUCT

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>
Manhole and Meter Lid
FIELD SURVEY FORM
NOTE: 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 ______________________

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 __________________

Inset Style

Overlapping Style

Straight Wall ID Style

<table>
<thead>
<tr>
<th>Lid Style</th>
<th>Address</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
</tr>
</tbody>
</table>
Pentagon Bolts: Water meter lids are normally furnished with standard (27/32”) brass pentagon bolt, but are also available with large (1-1/32”) brass pentagon bolt. Not furnished on drop-in style lids.

Worm Gears: Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

Lettering: Lids normally furnished marked “WATER METER”, special lettering available.

Recesses: All lids with antenna recesses have thru hole diameter of 1.88”.

Bearing Washers: Polymer lids have UHMWPE bearing washers above and below lid. Composite Lids include a brass bearing washer below the lid and brass flanged sleeve (protects hole from elongation) above the lid. Not furnished on drop-in style lids.

Additional Notes: Explanations for asterisk (*) and (•) points shown on page 28.

<table>
<thead>
<tr>
<th>Lid Dimensions, Load Ratings, Types and Materials</th>
<th>Fits Frame Types</th>
<th>SOLID LID No Antenna Recess</th>
<th>BADGER Antenna Recess (3.13” x 0.41”) dp</th>
<th>ITRON 60W, 100W, RIVA Antenna Recess (2.64” x 0.26”) dp</th>
<th>KAMSTRUP Antenna Recess (0.66” x 0.50”) dp</th>
<th>MUELLER Antenna Recess (0.38” x 0.33”) dp</th>
<th>NEPTUNE** (Figure 8) Antenna Recess (0.63” x 0.43”) dp</th>
<th>SENSUS OR ZENNER Antenna Recess (0.41” x 0.4”) dp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear Opening: 9-1/2”</td>
<td>Rim Thickness: 0.65”</td>
<td>NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess</td>
<td>1.85 lbs.</td>
<td>1.75 lbs.</td>
<td>1.77 lbs.</td>
<td>1.80 lbs.</td>
<td>1.73 lbs.</td>
<td>1.77 lbs.</td>
</tr>
<tr>
<td>Newport News Meter Box No. 1 and Capital Foundry</td>
<td>5901 TMI</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>10-3/8&quot; OD</td>
<td>Non-Traffic / Polymer</td>
<td>Capital Foundry</td>
<td>367-5581</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Clear Opening: 9-1/2”</td>
<td>Rim Thickness: 3/8”</td>
<td>NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess</td>
<td>1.42 lbs.</td>
<td>500 pcs minimum order quantity</td>
<td>1.60 lbs.</td>
<td>500 pcs minimum order quantity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capital Foundry</td>
<td>367-5581-MUEL</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>11-7/8&quot; OD</td>
<td>Non-Traffic / Composite</td>
<td>Clark Meter Box Frame</td>
<td>367-5639</td>
<td>367-5638</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Clear Opening: 10”</td>
<td>Rim Thickness: 5/8”</td>
<td>DUCTILE IRON WORM GEAR Solid Lids* Only</td>
<td>6.00 lbs.</td>
<td>MegaNet Recess (Not for badger) 5.60 lbs.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.91&quot; OD</td>
<td>40,000 lbs. / Composite</td>
<td>Wilmington, DE (Old Style) Inner Lid</td>
<td>367-5632</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Clear Opening: 10.7”</td>
<td>Rim Thickness: 1”</td>
<td>---</td>
<td>8.52 lbs.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clear Opening: 11”</td>
<td>Rim Thickness: 5/8”</td>
<td>NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess</td>
<td>3.00 lbs.</td>
<td>2.90 lbs.</td>
<td>2.90 lbs.</td>
<td>2.80 lbs.</td>
<td>2.90 lbs.</td>
<td>2.90 lbs.</td>
</tr>
</tbody>
</table>

Lids marked “WATER METER” are continued on the following page.
**Composite and Polymer Lids**

**"WATER METER"**

---

**Pentagon Bolts:** Water meter lids are normally furnished with standard (27/32") brass pentagon bolt, but are also available with large (1-1/32") brass pentagon bolt. Not furnished on drop-in style lids.

**Worm Gears:** Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

**Lettering:** Lids normally furnished marked “WATER METER”, special lettering available.

**Recesses:** All lids with antenna recesses have thru hole diameter of 1.88”.

**Bearing Washers:** Polymer lids have UHMWPE bearing washers above and below lid. Composite Lids include a brass bearing washer below the lid and brass flanged sleeve (protects hole from elongation) above the lid. Not furnished on drop-in style lids.

**Additional Notes:** Explanations for asterisk (*) and (•) points shown on page 28.

---

<table>
<thead>
<tr>
<th>Lid Dimensions, Load Ratings, Types and Materials</th>
<th>Fits Frame Types</th>
<th>SOLID LID</th>
<th>BADGER</th>
<th>ITRON GDW</th>
<th>KAMSTRUP</th>
<th>MUELLER</th>
<th>NEPTUNE (FIGURE B)</th>
<th>SENSUS OR ZENNER</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-1/8&quot; OD 20,000 lbs. / Polymer</td>
<td>Mueller A and C</td>
<td>367-5671</td>
<td>367-5673</td>
<td>367-5674</td>
<td>——</td>
<td>——</td>
<td>367-5672</td>
<td>367-5668</td>
</tr>
<tr>
<td>Clear Opening: 11&quot; Rim Thickness: 5/8&quot;</td>
<td>NYLON WORM GEAR</td>
<td>3.00 lbs.</td>
<td>2.90 lbs.</td>
<td>2.90 lbs.</td>
<td>——</td>
<td>——</td>
<td>2.80 lbs.</td>
<td>2.90 lbs.</td>
</tr>
<tr>
<td>Clear Opening: 11-1/2&quot; Rim Thickness: 0.65&quot;</td>
<td>NYLON WORM GEAR</td>
<td>3.06 lbs.</td>
<td>2.70 lbs.</td>
<td>2.72 lbs.</td>
<td>2.52 lbs.</td>
<td>2.72 lbs.</td>
<td>2.59 lbs.</td>
<td>2.62 lbs.</td>
</tr>
<tr>
<td>Clear Opening: 11-1/2&quot; Rim Thickness: 0.65&quot;</td>
<td>NYLON WORM GEAR</td>
<td>2 Antenna Recesses</td>
<td>——</td>
<td>2.53 lbs.</td>
<td>2.60 lbs.</td>
<td>2.14 lbs.</td>
<td>2.53 lbs.</td>
<td>2.70 lbs.</td>
</tr>
<tr>
<td>12-1/4&quot; OD 20,000 lbs. / Polymer</td>
<td>Ford A, C, and X</td>
<td>367-5764</td>
<td>367-5762</td>
<td>367-5760</td>
<td>——</td>
<td>——</td>
<td>367-5763</td>
<td>367-5761</td>
</tr>
<tr>
<td>Clear Opening: 11-1/2&quot; Rim Thickness: 0.7&quot;</td>
<td>NYLON WORM GEAR</td>
<td>3.14 lbs.</td>
<td>3.03 lbs.</td>
<td>3.07 lbs.</td>
<td>——</td>
<td>——</td>
<td>2.92 lbs.</td>
<td>2.97 lbs.</td>
</tr>
<tr>
<td>12-1/4&quot; OD 20,000 lbs. / Polymer</td>
<td>Ford A, C, and X</td>
<td>367-5751</td>
<td>367-5752</td>
<td>367-5754</td>
<td>——</td>
<td>——</td>
<td>367-5755</td>
<td>367-5753</td>
</tr>
<tr>
<td>Clear Opening: 11-1/2&quot; Rim Thickness: 0.7&quot;</td>
<td>NYLON WORM GEAR</td>
<td>3.04 lbs.</td>
<td>2.97 lbs.</td>
<td>2.91 lbs.</td>
<td>——</td>
<td>——</td>
<td>2.92 lbs.</td>
<td>2.97 lbs.</td>
</tr>
<tr>
<td>12-1/4&quot; OD 40,000 lbs. / Polymer</td>
<td>Ford A, C, and X</td>
<td>367-5670</td>
<td>367-5676</td>
<td>367-5678</td>
<td>——</td>
<td>——</td>
<td>367-5675</td>
<td>367-5677</td>
</tr>
<tr>
<td>Clear Opening: 11-1/2&quot; Rim Thickness: 0.7&quot;</td>
<td>DUCTILE IRON WORM GEAR</td>
<td>3.93 lbs.</td>
<td>3.81 lbs.</td>
<td>3.85 lbs.</td>
<td>——</td>
<td>——</td>
<td>3.71 lbs.</td>
<td>3.73 lbs.</td>
</tr>
</tbody>
</table>

Lids marked “WATER METER” are continued on the following page.
**Pentagon Bolts:** Water meter lids are normally furnished with standard (27/32”) brass pentagon bolt, but are also available with large (1-1/32”) brass pentagon bolt. Not furnished on drop-in style lids.

**Worm Gears:** Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

**Lettering:** Lids normally furnished marked “WATER METER”, special lettering available.

**Recesses:** All lids with antenna recesses have thru hole diameter of 1.88”.

**Bearing Washers:** Polymer lids have UHMWPE bearing washers above and below lid. Composite Lids include a brass bearing washer below the lid and brass flanged sleeve (protects hole from elongation) above the lid. Not furnished on drop-in style lids.

**Additional Notes:** Explanations for asterisk (*) and (•) points shown on page 28.

<table>
<thead>
<tr>
<th>Lid Dimensions, Load Ratings, Types and Materials</th>
<th>Fits Frame Types</th>
<th>SOLID LID No Antenna Recess</th>
<th>BADGER Antenna Recess (Ø 3.13” x 0.41” dp)</th>
<th>ITRON 60W, 100W, RIVA Antenna Recess (Ø 2.84” x 0.26” dp)</th>
<th>KAMSTRUP Antenna Recess (Ø 3.36” x 0.33” dp)</th>
<th>MUELLER Antenna Recess (Ø 4.63” x 0.43” dp)</th>
<th>NEPTUNE (FIGURE 8) Antenna Recess (Ø 4.2” x 0.41” dp)</th>
<th>SENSUS OR ZENNER Antenna Recess (Ø 3.9” x 0.41” dp)</th>
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</thead>
<tbody>
<tr>
<td><strong>12-1/4” OD</strong> 40,000 lbs. / Composite</td>
<td></td>
<td>367-5518</td>
<td>367-5591</td>
<td>367-5519</td>
<td>367-5519</td>
<td>367-5593</td>
<td>367-5592</td>
<td></td>
</tr>
<tr>
<td>Clear Opening: 11-1/2”</td>
<td></td>
<td></td>
<td>9.54 lbs.</td>
<td>9.00 lbs.</td>
<td>9.01 lbs.</td>
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</tr>
<tr>
<td>Rim Thickness: 0.7”</td>
<td></td>
<td></td>
<td>ALSO AVAILABLE: w/out Logo 367-5517 (40K)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>12-3/4” OD</strong> Non-Traffic / Polymer</td>
<td></td>
<td>4946 TMI</td>
<td>4945 TMI</td>
<td>4945 TMI</td>
<td>4945 TMI</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clear Opening: 11-5/8”</td>
<td></td>
<td></td>
<td>2.20 lbs.</td>
<td>2.20 lbs.</td>
<td>2.20 lbs.</td>
<td></td>
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</tr>
<tr>
<td>Rim Thickness: 3/8”</td>
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<td></td>
<td>ALSO AVAILABLE: w/out NN Lettering (Non-Traffic)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>&quot;NEWPORT NEWS WATERWORKS&quot;</td>
<td></td>
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</tr>
<tr>
<td><strong>12.438” OD</strong> Non-Traffic / Polymer</td>
<td></td>
<td>367-5719</td>
<td>367-5721</td>
<td>367-5722</td>
<td>367-5723</td>
<td>367-5724</td>
<td>367-5725</td>
<td></td>
</tr>
<tr>
<td>Clear Opening: 11”</td>
<td></td>
<td></td>
<td>3.30 lbs.</td>
<td>3.10 lbs.</td>
<td>3.10 lbs.</td>
<td>2.90 lbs.</td>
<td>2.90 lbs.</td>
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<tr>
<td>Rim Thickness: 0.65”</td>
<td></td>
<td></td>
<td>250 pcs minimum order quantity</td>
<td>250 pcs minimum order quantity</td>
<td>250 pcs minimum order quantity</td>
<td>250 pcs minimum order quantity</td>
<td>250 pcs minimum order quantity</td>
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</tr>
<tr>
<td><strong>12.438” OD</strong> Non-Traffic / Polymer</td>
<td></td>
<td>367-5720</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Clear Opening: 11”</td>
<td></td>
<td></td>
<td>3.30 lbs.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rim Thickness: 0.65”</td>
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<td>250 pcs minimum order quantity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>12-5/8” OD</strong> Non-Traffic / Polymer</td>
<td></td>
<td>367-5769</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clear Opening: 11-1/2”</td>
<td></td>
<td></td>
<td>3.08 lbs.</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Rim Thickness: 9/16”</td>
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<td></td>
<td>500 pcs minimum order quantity</td>
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</tr>
<tr>
<td><strong>12-5/8” OD</strong> Non-Traffic / Polymer</td>
<td></td>
<td>367-5767</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Clear Opening: 11-1/2”</td>
<td></td>
<td></td>
<td>3.08 lbs.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Lids marked “WATER METER” are continued on the following page.
**Pentagon Bolts**: Water meter lids are normally furnished with standard (27/32”) brass pentagon bolt, but are also available with large (1-1/32”) brass pentagon bolt. Not furnished on drop-in style lids.

**Worm Gears**: Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

**Lettering**: Lids normally furnished marked “WATER METER”, special lettering available.

**Recesses**: All lids with antenna recesses have thru hole diameter of 1.88”.

**Bearing Washers**: Polymer lids have UHMWPE bearing washers above and below lid. Composite Lids include a brass bearing washer below the lid and brass flanged sleeve (protects hole from elongation) above the lid. Not furnished on drop-in style lids.

**Additional Notes**: Explanations for asterisk (*) and (•) points shown on page 28.

### Lid Dimensions, Load Ratings, Types and Materials

<table>
<thead>
<tr>
<th>Lid Dimensions, Types and Materials</th>
<th>Fits Frame Types</th>
<th>SOLID LID</th>
<th>BADGER</th>
<th>ITRON 60W, RIVA</th>
<th>KAMSTRUP</th>
<th>MUELLER</th>
<th>NEPTUNE **</th>
<th>SENSUS OR ZENNER</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5/8” OD 40,000 lbs. / Composite</td>
<td>No Antenna Recess</td>
<td>367-5669</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Clear Opening: 11-1/2”</td>
<td>Solid Lid Only</td>
<td>Ford, Vestal and B&amp;T Type C and Baltimore</td>
<td>10.74 lbs.</td>
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</tr>
<tr>
<td>13” x 17-9/32” OD 25,000 lbs. / Composite</td>
<td>No Antenna Recess</td>
<td>367-5650</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>(Oval Shape Lid)</td>
<td>Solid Lid Only</td>
<td>MB-10 Oval</td>
<td>14.80 lbs.</td>
<td></td>
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</tr>
<tr>
<td>14” x 15” MB Dual Lid Non-Traffic / Polymer</td>
<td>No Antenna Recess</td>
<td>367-5594</td>
<td>---</td>
<td>---</td>
<td>367-5595</td>
<td>---</td>
<td>---</td>
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</tr>
<tr>
<td>(Rectangle Shape Lid)</td>
<td>Solid Lids* or with 1 Antenna Recess</td>
<td>Brooks MB Dual Frame</td>
<td>7.70 lbs.</td>
<td>7.60 lbs.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14” x 15” MB Dual Lid Non-Traffic / Polymer</td>
<td>No Antenna Recess</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>367-5596</td>
<td>---</td>
<td>---</td>
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</tr>
<tr>
<td>(Rectangle Shape Lid)</td>
<td>2 Antenna Recesses</td>
<td>Brooks MB Dual Frame</td>
<td>---</td>
<td>---</td>
<td>7.50 lbs.</td>
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<tr>
<td>15.4” OD Non-Traffic / Polymer</td>
<td>No Antenna Recess</td>
<td>367-5644</td>
<td>367-5646</td>
<td>367-5648</td>
<td>---</td>
<td>367-5649</td>
<td>367-5645</td>
<td>367-5647</td>
</tr>
<tr>
<td>Mueller and AY McDonald Coil Pit Setter</td>
<td>UHMWPE WORM GEAR</td>
<td>Solid Lids* or with 1 Antenna Recess</td>
<td>5.65 lbs.</td>
<td>5.45 lbs.</td>
<td>5.45 lbs.</td>
<td>5.45 lbs.</td>
<td>5.35 lbs.</td>
<td>5.40 lbs.</td>
</tr>
<tr>
<td>16-1/16” OD Non-Traffic / Polymer</td>
<td>No Antenna Recess</td>
<td>367-5771</td>
<td>367-5773 **</td>
<td>367-5775 **</td>
<td>---</td>
<td>367-5772 **</td>
<td>367-5774 **</td>
<td></td>
</tr>
<tr>
<td>Vestal type A, Ford type C, AY McDonald type C</td>
<td>NYLON WORM GEAR</td>
<td>Solid Lids* or with 1 Antenna Recess</td>
<td>6.04 lbs.</td>
<td>5.96 lbs.</td>
<td>6.01 lbs.</td>
<td>5.76 lbs.</td>
<td>5.64 lbs.</td>
<td></td>
</tr>
</tbody>
</table>

*Load ratings may vary depending on lid size.

Lids marked “WATER METER” are continued on the following page.
<table>
<thead>
<tr>
<th>Lid Dimensions, Load Ratings, Types and Materials</th>
<th>Fits Frame Types</th>
<th>SOLID LID No Antenna Recess</th>
<th>BADGER Antenna Recess Ø 3.13” x 0.41” dp</th>
<th>ITRON 60W, RIVA Antenna Recess Ø 2.84” x 0.26” dp</th>
<th>KAMSTRUP Antenna Recess Ø 5.66” x 0.50” dp</th>
<th>MUELLER Antenna Recess Ø 3.96” x 0.33” dp</th>
<th>NEPTUNE (FIGURE B) Antenna Recess Ø 4.80” x 0.43” dp</th>
<th>SENSUS OR ZENNER Antenna Recess Ø 4.11” x 0.41” dp</th>
</tr>
</thead>
<tbody>
<tr>
<td>16-3/16” OD 40,000 lbs. / Composite</td>
<td>Clear Opening: 15” Rim Thickness: 1” BaT, Vestal, Ford, AY McDonald type C and Baltimore</td>
<td>367-5580</td>
<td>14.20 lbs.</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>17-1/4” OD Non-Traffic / Polymer</td>
<td>Clear Opening: 14” Rim Thickness: 0.5” DROP-IN STYLE Solid Lids* or with 1 Antenna Recess Flat Lid for 15” Plastic Pit</td>
<td>367-5588</td>
<td>4.40 lbs.</td>
<td>4.06 lbs.</td>
<td>4.09 lbs.</td>
<td>3.85 lbs.</td>
<td>4.06 lbs.</td>
<td>3.92 lbs.</td>
</tr>
<tr>
<td>17-1/4” OD Non-Traffic / Polymer</td>
<td>Clear Opening: 14” Rim Thickness: 0.5” DROP-IN STYLE 2 Antenna Recesses Flat Lid for 15” Plastic Pit</td>
<td>—</td>
<td>4.14 lbs.</td>
<td>4.21 lbs.</td>
<td>3.73 lbs.</td>
<td>4.14 lbs.</td>
<td>4.15 lbs.</td>
<td>3.87 lbs.</td>
</tr>
<tr>
<td>18-7/8” OD 40,000 lbs. / Composite</td>
<td>Clear Opening: 18” Rim Thickness: 7/16” 18” AY McDonald Pit Setter</td>
<td>367-5615</td>
<td>24.60 lbs.</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
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</tr>
<tr>
<td>19.35” OD Non-Traffic / Polymer</td>
<td>Clear Opening: 17” Rim Thickness: 0.56” DROP-IN STYLE Solid Lids* or with 1 Antenna Recess Flat Lid for 18” Plastic Pit</td>
<td>367-5590</td>
<td>6.07 lbs.</td>
<td>5.71 lbs.</td>
<td>5.75 lbs.</td>
<td>5.51 lbs.</td>
<td>5.72 lbs.</td>
<td>5.58 lbs.</td>
</tr>
</tbody>
</table>

**Pentagon Bolts:** Water meter lids are normally furnished with standard (27/32”) brass pentagon bolt, but are also available with large (1-1/32”) brass pentagon bolt. Not furnished on drop-in style lids.

**Worm Gears:** Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

**Lettering:** Lids normally furnished marked “WATER METER”, special lettering available.

**Recesses:** All lids with antenna recesses have thru hole diameter of 1.88”.

**Bearing Washers:** Polymer lids have UHMWPE bearing washers above and below lid. Composite Lids include a brass bearing washer below the lid and brass flanged sleeve (protects hole from elongation) above the lid. Not furnished on drop-in style lids.

**Additional Notes:** Explanations for asterisk (*) and (•) points shown on page 28.

*Lids marked “WATER METER” are continued on the following page.*
**Pentagon Bolts:** Water meter lids are normally furnished with standard (27/32”) brass pentagon bolt, but are also available with large (1-1/32”) brass pentagon bolt. Not furnished on drop-in style lids.

**Worm Gears:** Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

**Lettering:** Lids normally furnished marked “WATER METER”, special lettering available.

**Recesses:** All lids with antenna recesses have thru hole diameter of 1.88”.

**Bearing Washers:** Polymer lids have UHMWPE bearing washers above and below lid. Composite Lids include a brass bearing washer below the lid and brass flanged sleeve (protects hole from elongation) above the lid. Not furnished on drop-in style lids.

**Additional Notes:** Explanations for asterisk (*) and (•) points shown on page 28.

### Lid Dimensions, Load Ratings, Types and Materials

<table>
<thead>
<tr>
<th>Lid Dimensions</th>
<th>Load Ratings</th>
<th>Types</th>
<th>Fits Frame Types</th>
<th>SOLID LID</th>
<th>BADGER</th>
<th>ITRON GOW</th>
<th>KAMSTRUP</th>
<th>MUELLER</th>
<th>NEPTUNE** (FIGURE B)</th>
<th>SENSUS OR ZENNER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear Opening: 17” Rim Thickness: 0.56”</td>
<td>40,000 lbs.</td>
<td>2 Antenna Recesses</td>
<td>EJ 1525* Neenah R-1566* Baltimore</td>
<td>367-5590-2ITRON</td>
<td>367-5590-2KAMS</td>
<td>367-5590-2MUEL</td>
<td>367-5590-NEPT</td>
<td>367-5590-2SENS</td>
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</tr>
<tr>
<td>19-13/16” OD</td>
<td>Composite</td>
<td>40,000 lbs.</td>
<td>DUCTILE IRON WORM GEAR</td>
<td>367-5590-2ITRON</td>
<td>367-5590-2KAMS</td>
<td>367-5590-2MUEL</td>
<td>367-5590-NEPT</td>
<td>367-5590-2SENS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clear Opening: 18-1/2” Rim Thickness: 1” “CWB-2”</td>
<td>Neenah R-1-1892</td>
<td>200 pcs minimum order quantity</td>
<td>367-5590-2ITRON</td>
<td>367-5590-2KAMS</td>
<td>367-5590-2MUEL</td>
<td>367-5590-NEPT</td>
<td>367-5590-2SENS</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>21-3/16” OD</td>
<td>Non-Traffic / Polymer</td>
<td>NYLON WORM GEAR</td>
<td>10.91 lbs.</td>
<td>10.81 lbs.</td>
<td>10.77 lbs.</td>
<td>10.57 lbs.</td>
<td>10.79 lbs.</td>
<td>10.63 lbs.</td>
<td>10.70 lbs.</td>
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<tr>
<td>Clear Opening: 26” Rim Thickness: 0.77”</td>
<td>Ford and AY McDonald Monitor Covers and Pit Rings</td>
<td>367-5590-2ITRON</td>
<td>367-5590-2KAMS</td>
<td>367-5590-2MUEL</td>
<td>367-5590-NEPT</td>
<td>367-5590-2SENS</td>
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<tr>
<td>21-3/16” OD</td>
<td>Composite</td>
<td>40,000 lbs.</td>
<td>DUCTILE IRON WORM GEAR</td>
<td>367-5590-2ITRON</td>
<td>367-5590-2KAMS</td>
<td>367-5590-2MUEL</td>
<td>367-5590-NEPT</td>
<td>367-5590-2SENS</td>
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</tr>
<tr>
<td>Clear Opening: 26” Rim Thickness: 0.77”</td>
<td>Ford and AY McDonald Monitor Covers and Pit Rings</td>
<td>367-5590-2ITRON</td>
<td>367-5590-2KAMS</td>
<td>367-5590-2MUEL</td>
<td>367-5590-NEPT</td>
<td>367-5590-2SENS</td>
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</table>

Lids marked “WATER METER” are continued on the following page.
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**Worm Gears:** Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

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**Recesses:** All lids with antenna recesses have thru hole diameter of 1.88”.

**Bearing Washers:** Polymer lids have UHMWPE bearing washers above and below lid. Composite Lids include a brass bearing washer below the lid and brass flanged sleeve (protects hole from elongation) above the lid. Not furnished on drop-in style lids.

**Additional Notes:** Explanations for asterisk (*) and (⁎) points shown on page 28.

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<tr>
<th>Lid Dimensions, Load Ratings, Types and Materials</th>
<th>Fits Frame Types</th>
<th>SOLID LID</th>
<th>BADGER</th>
<th>ITRON 60W</th>
<th>KAMSTRUP</th>
<th>MUELLER</th>
<th>NEPTUNE** (FIGURE 8)</th>
<th>SENSUS</th>
<th>OR ZENNER</th>
</tr>
</thead>
<tbody>
<tr>
<td>22-3/4” OD</td>
<td>40,000 lbs. / Composite</td>
<td>DUCTILE IRON WORM GEAR</td>
<td>EJ 1020 Neenah R-1560</td>
<td>367-8905</td>
<td>45.70 lbs.</td>
<td>——</td>
<td>——</td>
<td>——</td>
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<tr>
<td>Clear Opening: 21”</td>
<td>Rim Thickness: 1-11/16”</td>
<td>Ductile Iron Worm Gear * Only</td>
<td>——</td>
<td>——</td>
<td>——</td>
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</tr>
<tr>
<td>23-3/4” OD</td>
<td>20,000 lbs. / Composite</td>
<td>DUCTILE IRON WORM GEAR</td>
<td>Arlington, VA</td>
<td>367-5634</td>
<td>26.30 lbs.</td>
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<td>——</td>
<td>——</td>
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</tr>
<tr>
<td>Clear Opening: 22”</td>
<td>Rim Thickness: 1”</td>
<td>Ductile Iron Worm Gear ** Only</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td>——</td>
</tr>
<tr>
<td>23-3/4” OD</td>
<td>40,000 lbs. / Composite</td>
<td>DUCTILE IRON WORM GEAR ***</td>
<td>EJ 1450 and 1630 Neenah R-1771 Neenah R-1785</td>
<td>367-8908</td>
<td>44.80 lbs.</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td>——</td>
</tr>
<tr>
<td>Clear Opening: 21-1/2”</td>
<td>Rim Thickness: 1”</td>
<td>Ductile Iron Worm Gear *** Only</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td>——</td>
</tr>
<tr>
<td>23-3/4” OD</td>
<td>40,000 lbs. / Composite</td>
<td>UHMWPE WORM GEAR</td>
<td>Trumbull Frame 367-5623</td>
<td>367-8910</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td>——</td>
</tr>
<tr>
<td>Clear Opening: 21-1/2”</td>
<td>Rim Thickness: 1”</td>
<td>UHMWPE Worm Gear ***</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td>——</td>
</tr>
<tr>
<td>23-3/4” OD</td>
<td>40,000 lbs. / Composite</td>
<td>UHMWPE WORM GEAR</td>
<td>Trumbull Frame 367-5623</td>
<td>367-8914</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td>——</td>
</tr>
<tr>
<td>Clear Opening: 21-1/2”</td>
<td>Rim Thickness: 1”</td>
<td>* AURORA*</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td>——</td>
</tr>
</tbody>
</table>

Lids marked “WATER METER” are continued on the following page.
**Pentagon Bolts:** Water meter lids are normally furnished with standard (27/32”) brass pentagon bolt, but are also available with large (1-1/32”) brass pentagon bolt. Not furnished on drop-in style lids.

**Worm Gears:** Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

**Lettering:** Lids normally furnished marked “WATER METER”, special lettering available.

**Recesses:** All lids with antenna recesses have thru hole diameter of 1.88”.

**Bearing Washers:** Polymer lids have UHMWPE bearing washers above and below lid. Composite Lids include a brass bearing washer below the lid and brass flanged sleeve (protects hole from elongation) above the lid. Not furnished on drop-in style lids.

**Additional Notes:** Explanations for asterisk (*) and (•) points shown on page 28.
**Pentagon Bolts:** Water meter lids are normally furnished with standard (27/32") brass pentagon bolt, but are also available with large (1-1/32") brass pentagon bolt. Not furnished on drop-in style lids.

**Worm Gears:** Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

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**Additional Notes:** Explanations for asterisk (*) and (*) points shown on page 28.

---

**Lid Dimensions, Load Ratings, Types and Materials**

<table>
<thead>
<tr>
<th>Fits Frame Types</th>
<th>SOLID LID No Antenna Recess</th>
<th>BADGER Antenna Recess</th>
<th>ITRON 60W, RIVA</th>
<th>KAMSTRUP Antenna Recess</th>
<th>MUELLER (FIGURE B)</th>
<th>NEPTUNE**</th>
<th>SENSUS OR ZENNER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rim Thickness: 3&quot;</td>
<td>367-5565</td>
<td>367-5567</td>
<td>367-5568</td>
<td>367-5585</td>
<td>367-5587</td>
<td>367-5588</td>
<td>367-5589</td>
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</tbody>
</table>

Lids marked “WATER METER” are continued on the following page.
**Pentagon Bolts:** Water meter lids are normally furnished with standard (27/32”) brass pentagon bolt, but are also available with large (1-1/32”) brass pentagon bolt. Not furnished on drop-in style lids.

**Worm Gears:** Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

**Lettering:** Lids normally furnished marked “WATER METER”, special lettering available.

**Recesses:** All lids with antenna recesses have thru hole diameter of 1.88”.

**Bearing Washers:** Polymer lids have UHMWPE bearing washers above and below lid. Composite Lids include a brass bearing washer below the lid and brass flanged sleeve (protects hole from elongation) above the lid. Not furnished on drop-in style lids.

**Additional Notes:** Explanations for asterisk (*) and (•) points shown on page 28.

---

<table>
<thead>
<tr>
<th>Lid Dimensions, Load Ratings, Types and Materials</th>
<th>Fits Frame Types</th>
<th>SOLID LID</th>
<th>BADGER</th>
<th>ITRON GOW 100W, RIVA</th>
<th>KAMSTRUP</th>
<th>MUELLER</th>
<th>NEPTUNE <strong>(FIGURE B)</strong></th>
<th>SENSUS OR ZENNER</th>
</tr>
</thead>
<tbody>
<tr>
<td>30-1/2” x 17-1/2” Rect. 40,000 lbs. / Composite</td>
<td>Clear Opening: 28-1/4” x 15-1/4” Rim Thickness: 2”</td>
<td>17” x 30” Hubbell, Old Castle Polymer, &amp; Old Castle Concrete</td>
<td>No Antenna Recess</td>
<td>367-5572-40K</td>
<td>367-5573-40K</td>
<td>367-5564-40K</td>
<td>367-5575-40K</td>
<td></td>
</tr>
<tr>
<td>30-1/2” x 17-1/2” Rect. 40,000 lbs. / Composite</td>
<td>Clear Opening: 28-1/4” x 15-1/4” Rim Thickness: 2”</td>
<td>17” x 30” Hubbell, Old Castle Polymer, &amp; Old Castle Concrete</td>
<td>BOLT-DOWN STYLE Solid Lids* or with 1 Antenna Recess</td>
<td>367-5561-40K</td>
<td>367-5567-40K</td>
<td>367-5569-40K</td>
<td>367-5570-40K</td>
<td></td>
</tr>
<tr>
<td>30-1/2” x 17-1/2” Rect. 40,000 lbs. / Composite</td>
<td>Clear Opening: 28-1/4” x 15-1/4” Rim Thickness: 2”</td>
<td>17” x 30” Hubbell, Old Castle Polymer, &amp; Old Castle Concrete</td>
<td>BOLT-DOWN STYLE 2 Antenna Recesses</td>
<td>367-5577-40K</td>
<td>367-5578-40K</td>
<td>367-5579-40K</td>
<td>367-5580-40K</td>
<td></td>
</tr>
<tr>
<td>31-13/16” OD 40,000 lbs. / Composite</td>
<td>Clear Opening: 30” Rim Thickness: 2-1/2”</td>
<td>Neenah R-1568 * Baltimore</td>
<td>DOUBLE PADDLE LOCK (DI) Solid Lids* Only</td>
<td>367-5710</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td></td>
</tr>
<tr>
<td>35-27/32” OD 40,000 lbs. / Composite</td>
<td>Clear Opening: 34” Rim Thickness: 1.44” CONFINED SPACE NEORDS</td>
<td>EJ 1585 Neenah R-1752</td>
<td>BOLT-DOWN STYLE Solid Lids* Only</td>
<td>367-5715</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td></td>
</tr>
<tr>
<td>35-27/32” OD 40,000 lbs. / Composite</td>
<td>Clear Opening: 34” Rim Thickness: 1.44” ARLINGTON</td>
<td>EJ 1585 Neenah R-1752 Arlington, VA</td>
<td>BOLT-DOWN STYLE Solid Lids* Only</td>
<td>367-5712</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td></td>
</tr>
</tbody>
</table>
**Lettering:** Lids normally furnished marked “WATER METER”, special lettering available.

**Seal:** All 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 42 for optional security screws.

**Paddle Lock Lids:** Are secured to frame with pentagon bolt, see page 40 for optional security bolts.

---

### Lid Dimensions, Load Ratings, Types and Materials

<table>
<thead>
<tr>
<th>Style</th>
<th>Diameter</th>
<th>Load Rating</th>
<th>Frame Type</th>
<th>BOLT DOWN STYLE</th>
<th>PADDLE LOCK STYLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOLT-DOWN STYLE</td>
<td>OR PADDLE LOCK STYLE</td>
<td>Solid Lids * Only</td>
<td>Trumbull Frame</td>
<td>367-5790</td>
<td>367-5704</td>
</tr>
<tr>
<td>23-3/4” OD</td>
<td>50,000 lbs. / Composite</td>
<td>Clear Opening: 21-1/2” ID Rim Thickness: 1”</td>
<td>367-5468</td>
<td>367-5705</td>
<td></td>
</tr>
<tr>
<td>26” OD</td>
<td>50,000 lbs. / Composite</td>
<td>Clear Opening: 24” ID Rim Thickness: 1”</td>
<td>367-5702</td>
<td>367-5704</td>
<td></td>
</tr>
<tr>
<td>32” OD</td>
<td>50,000 lbs. / Composite</td>
<td>Clear Opening: 30” ID Rim Thickness: 1-1/4”</td>
<td>367-5793</td>
<td>367-5799</td>
<td></td>
</tr>
<tr>
<td>36” OD</td>
<td>50,000 lbs. / Composite</td>
<td>Clear Opening: 36” ID Rim Thickness: 1-1/2”</td>
<td>367-5465</td>
<td>367-5618</td>
<td></td>
</tr>
</tbody>
</table>

**Frame and Cover:**
- 66.10 lbs.
- 93.00 lbs.
- 129.00 lbs.
- 236.80 lbs.
- 236.00 lbs.

---

**“ADDITIONAL NOTES”**

* 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 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.

**A ductile iron worm gear is required when cover is used with an iron frame, and UHMWPE worm gear when used with a composite frame.**
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 Lids

For Sanitary Sewer

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.

LOAD TESTED PER AASHTO M-306, H-20 – 40,000 lbs.
(See page 29 for details on load testing)

For compatible Trumbull Composite Frames, see pages 41 - 44.

For dimensions, load ratings and additional options, refer to the product information chart on pages 45 - 46.
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.

For dimensions, load ratings and additional options, refer to the product information chart on page 28 (WATER METER) and page 46 (SANITARY SEWER).
Lid weight: 39 lbs.
Frame weight: 27 lbs.

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

Mounting for flow monitoring and leak detection devices

Frame height: 4

Clear opening: Ø21-1/2

Slot centerline: Ø28.00

Flange OD: Ø28-7/8

O-ring seal

Stainless pick bar

M14 Stainless bolts, 4 PL.

11/16

Cover OD: Ø23-3/4

Cover thickness: 1

(Dimensions are in inches)

50,000 lbs. load rating, H-25

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**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

- **GROOVED DESIGN EPDM SEAL** prevents infiltration
- **STAINLESS STEEL PICK BARS** 1 or 2, depending on manhole size
- **OUTWARD LOBES** allow for precise bolt and paddle lock alignment
- **FRAME SLOTS** allow easy handling and anchoring to manhole
- **PADDLE LOCK** Two quarter turn pentagon bolts open and close cover via paddle lock located on the underside.
- **BOLT DOWN** Four Xylan coated stainless screws compress the EPDM seal on the frame to prevent infiltration.

Additional security options available, shown on page 40.

<table>
<thead>
<tr>
<th>Lid OD</th>
<th>Locking Mechanism</th>
<th>FRAME</th>
<th>SANITARY SEWER LID</th>
<th>WATER METER LID</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>367-5703</td>
<td>367-5704</td>
<td>93.00 lbs.</td>
<td></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>367-5900</td>
<td>367-5901</td>
<td>129.00 lbs.</td>
<td></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>367-5617</td>
<td>367-5618</td>
<td>236.80 lbs.</td>
<td></td>
</tr>
</tbody>
</table>

- 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.

For dimensions, load ratings and additional options, refer to the product information chart on page 28 (WATER METER) and page 46 (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)

50,000 lbs. load rating, H-25

(Dimensions are in inches)
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

Lid weight: 48 lbs.
Frame weight: 47 lbs.

50,000 lbs. load rating, H-25

Drawn: AAH 09/18/18
Original document

Trumbull Manufacturing, Inc.
Youngstown, Ohio
www.trumbull-mfg.com

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

A

SECTION A-A

A A

B

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

Frame part number: 367-5705
Lid part number: 367-5703 (Sanitary Sewer) 367-5704 (Water Meter)
Lid weight:  88 lbs.
Frame weight: 41 lbs.

Frame part number:
367-5794

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

32” Manhole Lid & Frame
(30” Frame Clear Opening, Bolt Down)
Drawn to Scale

(Dimensions are in inches)

50,000 lbs. load rating, H-25
**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)
Drawn to Scale

- **Lid weight:** 88 lbs.
- **Frame weight:** 41 lbs.
- **Dimensions are in inches**
- **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
- **Flanged sleeve:** 2 PL., Stainless steel
- **Paddle Lock:** Stainless steel
- **Fin-type seal:** EPDM
- **M8 Hex bolt:** Stainless steel

- **Cover OD:** 32
- **Flange OD:** 37
- **Slot center line:** 36 3/16
- **Pick bar:** 2 PL., Stainless steel
- **Mounting for flow monitoring and leak detection devices**
- **30** Clear opening
- **38 3/4**

**Trumbull Manufacturing, Inc.**
Youngstown, Ohio
www.trumbull-mfg.com

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12/15/21 Page Revision Page 37 / Catalog Page E-37
**Lid weight:** 139.5 lbs.  
**Frame weight:** 97.3 lbs.

**Frame part number:** 367-5784  
**Lid part number:**  
- 367-5795 (Sanitary Sewer)  
- 367-5465 (Water Meter)

**Drawn to Scale**

**38" Manhole Lid & Frame**  
**(36" Frame Clear Opening, Bolt Down)**

- **Pick bar, 2 PL., Stainless steel**
- **M14 SHCS's or anti-theft bolts, Stainless steel**
- **Xylan 1424 coated, 4 PL.**
- **Slot centerline, $\phi 46-1/2$**
- **Flange OD, $\phi 47-1/2$**
- **Cover OD, $\phi 38$**
- **Cover thickness, 1-3/8"**
- **EPDM fin-type seal**
- **Mounting for flow monitoring and leak detection devices**
- **Frame height, 6"**
- **Clear opening, $\phi 36$**

**SECTION A-A**

- **Dimensions are in inches**

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12/15/21  
Page Revision Page 38 / Catalog Page E-38
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

Frame height: 6
Cover thickness: 1-3/8

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

Pick bar, 2 PL., Stainless steel
Operating bolt
Pentagon or Anti-theft head, Stainless steel
Flanged sleeve, 2 PL., Stainless steel
Slot center line

Fin-type seal, EPDM
M8 Hex bolt, Stainless steel

Mounting for flow monitoring and leak detection devices

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Trumbull Manufacturing, Inc.
Youngstown, Ohio
www.trumbull-mfg.com
### 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>

### 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 Product
Manhole Cover Hooks
Trumbull Manhole Cover Hooks are made of 5/8” hexagonal steel. The 1/2” point engages the lid of the manhole cover. Painted in Safety Blue enamel paint for safety and durability. Product shown in more detail on Catalog page A-3.

<table>
<thead>
<tr>
<th>Trumbull Item No.</th>
<th>Overall Length</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>367-4286</td>
<td>24”</td>
<td>3.35 lbs.</td>
</tr>
<tr>
<td>367-4290</td>
<td>36”</td>
<td>4.50 lbs.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trumbull Item No.</th>
<th>Overall Length</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>367-4288</td>
<td>30”</td>
<td>3.85 lbs.</td>
</tr>
<tr>
<td>367-4289</td>
<td>36”</td>
<td>4.45 lbs.</td>
</tr>
</tbody>
</table>
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.

### Dimensions of Lids that will Fit

<table>
<thead>
<tr>
<th>Flange OD</th>
<th>Dimensions of Lids</th>
<th>Height</th>
<th>Locking Mechanism</th>
<th>FRAME</th>
<th>SANITARY SEWER LID</th>
<th>WATER METER LID</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 26 (WATER METER) and page 45 (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.

<table>
<thead>
<tr>
<th>Flange OD</th>
<th>Dimensions of Lids that will Fit</th>
<th>Height</th>
<th>Locking Mechanism</th>
<th>FRAME</th>
<th>SANITARY SEWER LID</th>
<th>WATER METER LID</th>
<th>Total Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>31-3/16&quot;</td>
<td>23-3/4&quot; x 1&quot;</td>
<td>4&quot;</td>
<td>Worm Gear</td>
<td>367-5623</td>
<td>367-5624</td>
<td>367-8910</td>
<td>79.60 lbs.</td>
</tr>
</tbody>
</table>

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

BADGER LTE ADAPTER RECESSES allow up to 4 Badger LTE Adapters to be mounted in frame, which eliminates risk of ripping wire when removing lid or damage to endpoint.

FRAME SLOTS

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

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

For dimensions, load ratings and additional options, refer to the product information chart on page 24 (WATER METER) and page 45 (SANITARY SEWER).
Lid weight = 44.3 lbs.
Frame weight = 35.3 lbs.

SECTION A-A

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

Frame part number:
367-5623

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

40,000 lbs. load rating, H-20
**Composite Lids**

### “SANITARY SEWER”

<table>
<thead>
<tr>
<th>Lid Dimensions, Load Ratings, Types and Materials</th>
<th>Fits Frame Types</th>
<th>SOLID LID</th>
<th>No Antenna Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>21-3/8” OD 40,000 lbs. / Composite</td>
<td>Capitol Foundry #14000-10 Richmond, VA</td>
<td>367-5695</td>
<td>28.60 lbs.</td>
</tr>
<tr>
<td>Clear Opening: 19-13/16”</td>
<td>Rim Thickness: 15/16”</td>
<td>DROP-IN STYLE</td>
<td>Solid Lid* with Pick Hole Retainer Bracket</td>
</tr>
<tr>
<td>22-3/4” OD 40,000 lbs. / Composite</td>
<td>EJ 1020, Neenah R-1580</td>
<td>367-5619</td>
<td>45.70 lbs.</td>
</tr>
<tr>
<td>Clear Opening: 21”</td>
<td>Rim Thickness: 1-11/16”</td>
<td>DUCTILE IRON WORM GEAR</td>
<td>Solid Lid* Retainer Bracket</td>
</tr>
<tr>
<td>23-3/4” OD 40,000 lbs. / Composite</td>
<td>EJ 1450 and 1690 Neenah R-1771, Neenah R-1785</td>
<td>367-5622</td>
<td>44.80 lbs.</td>
</tr>
<tr>
<td>Clear Opening: 21-1/2”</td>
<td>Rim Thickness: 1”</td>
<td>DUCTILE IRON WORM GEAR***</td>
<td>Solid Lid* Retainer Bracket</td>
</tr>
<tr>
<td>23-3/4” OD 40,000 lbs. / Composite</td>
<td>Trumbull Frame 367-5623</td>
<td>367-5624</td>
<td>44.80 lbs.</td>
</tr>
<tr>
<td>Clear Opening: 21-1/2”</td>
<td>Rim Thickness: 1”</td>
<td>UHMWPE WORM GEAR***</td>
<td>Solid Lid* Retainer Bracket</td>
</tr>
<tr>
<td>25-1/4” OD 40,000 lbs. / Composite</td>
<td>EJ 1700</td>
<td>367-5686</td>
<td>63.50 lbs.</td>
</tr>
<tr>
<td>Clear Opening: 22-3/4”</td>
<td>Rim Thickness: 2”</td>
<td>DUCTILE IRON WORM GEAR</td>
<td>Solid Lid* Retainer Bracket</td>
</tr>
<tr>
<td>25-1/4” OD 40,000 lbs. / Composite</td>
<td>EJ 1700</td>
<td>367-5687</td>
<td>63.50 lbs.</td>
</tr>
<tr>
<td>Clear Opening: 22-3/4”</td>
<td>Rim Thickness: 2”</td>
<td>DUCTILE IRON WORM GEAR</td>
<td>Solid Lid* Retainer Bracket</td>
</tr>
</tbody>
</table>

**Pentagon Bolts:** Sanitary sewer lids are normally furnished with standard (27/32") T316SS pentagon bolt. Not furnished on drop-in style lids.

**Worm Gears:** Lids furnished with ductile worm gears. Not furnished on drop-in style lids.

**Lettering:** Lids normally furnished marked “SANITARY SEWER”, special lettering available.

**Bearing Washers:** Composite Lids include a T316SS bearing washer below the lid and T316SS flanged sleeve (protects hole from elongation) above the lid. Not furnished on drop-in style lids.

**Flow Monitoring:** Please inquire about custom brackets to mount flow monitoring equipment under the lid.

**Additional Notes:** Explanations for asterisk (*) and (*** points shown on page 28.

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**Continued on the right.**
**Lettering:** Lids normally furnished marked “SANITARY SEWER”, special lettering available.

**Seal:** All 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 42 for optional security screws.

**Paddle Lock Lids:** Are secured to frame with pentagon bolt, see page 40 for optional security bolts.

**Antenna Mounting Options:** Shown in “Additional Notes” on page 28.

---

<table>
<thead>
<tr>
<th>Lid Dimensions, Load Ratings, Types and Materials</th>
<th>Fits Frame Types</th>
<th>BOLT DOWN STYLE</th>
<th>PADDLE LOCK STYLE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>23-3/4” OD</strong></td>
<td>50,000 lbs / Composite</td>
<td>Trumbull Frame 367-5468 4” height</td>
<td>367-5789—</td>
</tr>
<tr>
<td>Clear Opening: 21-1/2” ID Rim Thickness: 1”</td>
<td>BOLT-DOWN STYLE OR PADDLE LOCK STYLE Solid Lids* Only</td>
<td>66.10 lbs. Frame and Cover</td>
<td>—</td>
</tr>
</tbody>
</table>

| **26” OD** | 50,000 lbs / Composite | Trumbull Frame 367-5705 4” height | 367-5701 | 367-5706 | 367-5703 |
| Clear Opening: 24” ID Rim Thickness: 1” | BOLT-DOWN STYLE OR PADDLE LOCK STYLE Solid Lids* Only | 93.00 lbs. Frame and Cover | Same as 367-5793 except has lettering “STORM DRAIN” | 93.00 lbs. Frame and Cover |

| **32” OD** | 50,000 lbs / Composite | Trumbull Frame 367-5794 4” height | 367-5792— | — | 367-5900 |
| Clear Opening: 30” ID Rim Thickness: 1-1/4” | BOLT-DOWN STYLE OR PADDLE LOCK STYLE Solid Lids* Only | 129.00 lbs. Frame and Cover | — | 129.00 lbs. Frame and Cover |

| **38” OD** | 50,000 lbs / Composite | Trumbull Frame 367-5784 6” height | 367-5795— | — | 367-5617 |
| Clear Opening: 36” ID Rim Thickness: 1-1/2” | BOLT-DOWN STYLE OR PADDLE LOCK STYLE Solid Lids* Only | 236.80 lbs. Frame and Cover | — | 236.00 lbs. Frame and Cover |
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></td>
<td>0.85 lbs.</td>
</tr>
<tr>
<td>368-0619</td>
<td>Bushing, for 2” Coupling**</td>
<td></td>
<td>1.20 lbs.</td>
</tr>
<tr>
<td>368-0639</td>
<td>A13 3/4”</td>
<td>9”</td>
<td>0.4 lbs.</td>
</tr>
<tr>
<td>368-0640</td>
<td>A14 1”</td>
<td>10-3/4”</td>
<td>0.7 lbs.</td>
</tr>
<tr>
<td>368-0641</td>
<td>A23 3/4”</td>
<td>9”</td>
<td>0.4 lbs.</td>
</tr>
<tr>
<td>368-0642</td>
<td>A24 1”</td>
<td>10-3/4”</td>
<td>0.4 lbs.</td>
</tr>
<tr>
<td>368-0643</td>
<td>A34 1”</td>
<td>10-3/4”</td>
<td>0.6 lbs.</td>
</tr>
<tr>
<td>379-1015</td>
<td>Flange w/full-face gasket, 1-1/2”</td>
<td></td>
<td>2.00 lbs.</td>
</tr>
<tr>
<td>379-1016</td>
<td>Flange w/full-face gasket, 2”</td>
<td></td>
<td>2.45 lbs.</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>TRUMBULL #</td>
<td>TRUMBULL #</td>
<td>TRUMBULL #</td>
</tr>
<tr>
<td>Brass Meter Flange Kit, 2”</td>
<td>379-2019</td>
<td>379-2020</td>
<td>379-2021</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>ORIGINAL METER</th>
<th>NEW METER</th>
<th>QUANTITY REQUIRED</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>368-0642</td>
<td>A13</td>
<td>3/4” x 9”</td>
<td>5/8” x 7-1/2”</td>
<td>2</td>
<td>0.4 lbs.</td>
</tr>
<tr>
<td>368-0643</td>
<td>A14</td>
<td>1” x 10-3/4”</td>
<td>5/8” x 7-1/2”</td>
<td>2</td>
<td>0.4 lbs.</td>
</tr>
<tr>
<td>368-0639</td>
<td>A23</td>
<td>3/4” x 9”</td>
<td>5/8” x 3/4” &amp; 7-1/2”</td>
<td>1</td>
<td>0.4 lbs.</td>
</tr>
<tr>
<td>368-0644</td>
<td>A24</td>
<td>1” x 10-3/4”</td>
<td>3/4” x 7-1/2”</td>
<td>2</td>
<td>0.6 lbs.</td>
</tr>
<tr>
<td>368-0646</td>
<td>A34</td>
<td>1” x 10-3/4”</td>
<td>3/4” x 1”</td>
<td>1</td>
<td>0.7 lbs.</td>
</tr>
<tr>
<td>379-1022</td>
<td>A47</td>
<td>2” flange x 17”</td>
<td>1” x 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.