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.™









3850 Hendricks Road, Youngstown, Ohio 44515

Phone: Toll Free: Fax: 330.270.7888 877.504.1507 330.392.0756

www.trumbull-mfg.com

COMPOSITE and POLYMER Meter Box Lids

Allow Radio Signals to be Read in AMR and AMI Systems



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



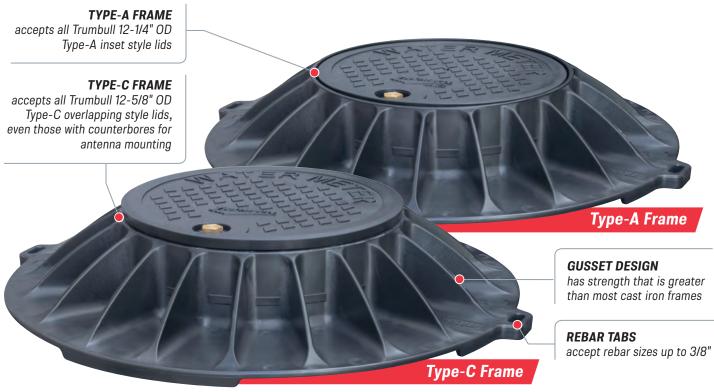
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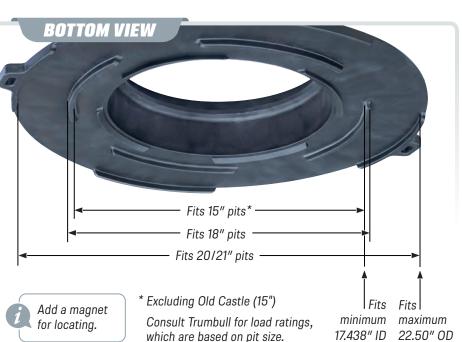
POLYMER Meter Pit Frames

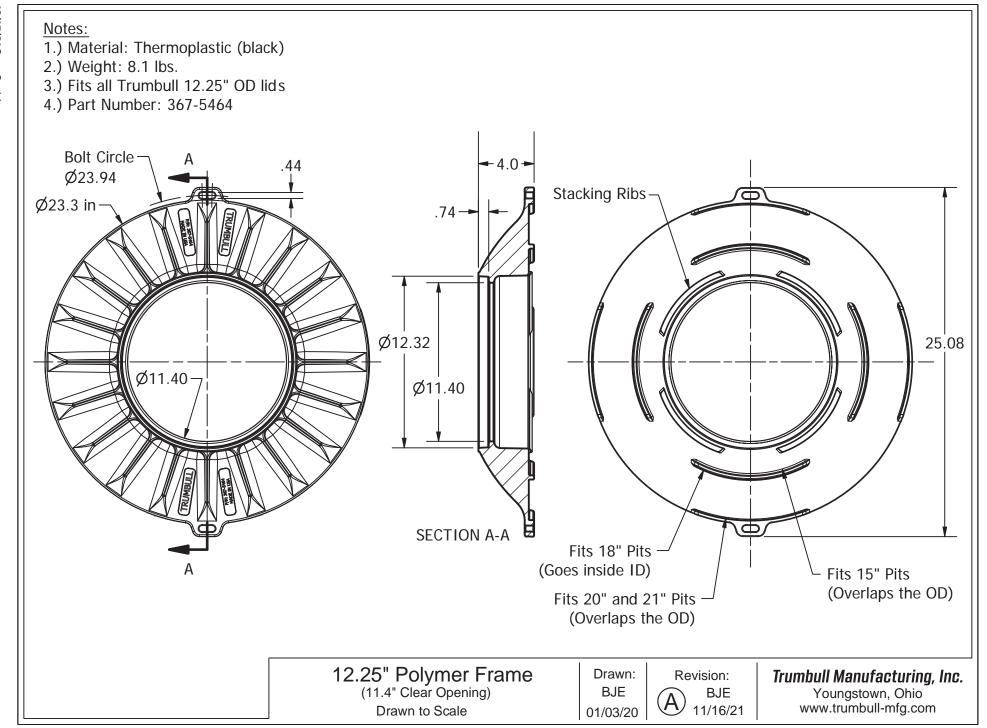
Fits on 15", 18", 20" and 21" Meter Pits





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





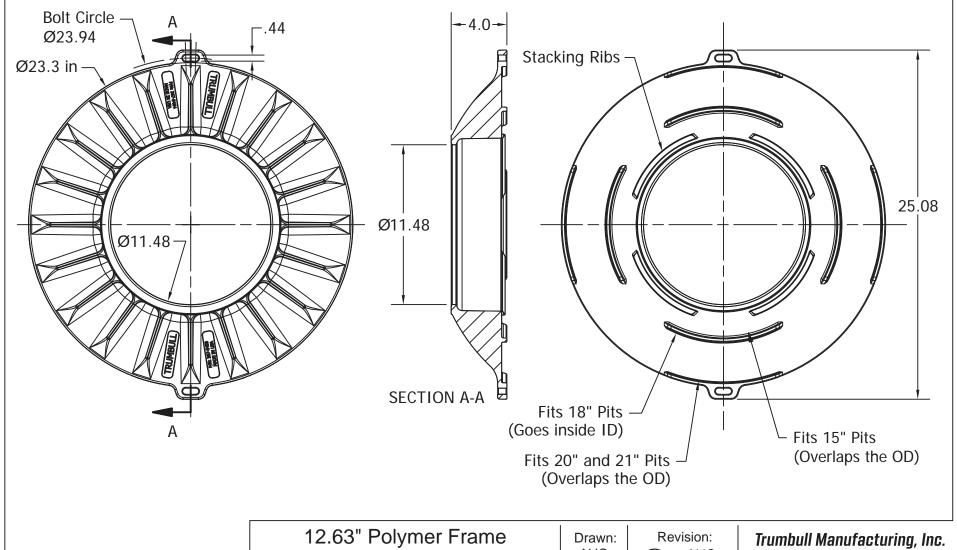
Notes: 1.) Mat 2.) We 3.) Fits

<u>NULES.</u> 1) Matarial, Tharmaniastic

Material: Thermoplastic (black)
 Weight: 8.1 lbs.

3.) Fits all Trumbull 12.63" OD lids

4.) Part Number: 367-5459



2.63" 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



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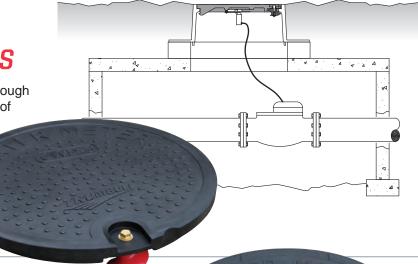
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COMPOSITE Manhole Lids for Large Meter Settings

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.



| Trumbull | | Antenna | | | | |
|----------|------|----------|---------------------|-------------|-----------|--|
| Item No. | Size | Mounting | Fits Pit Setters | Load Rating | Weight | |
| 367-5644 | 15″ | Solid* | AY McDonald/Mueller | Light Duty | 2.45 lbs. | |
| 367-5615 | 18″ | Solid* | AY McDonald | 40,000 lbs. | 2.45 lbs. | |



18" AY McDonald Pit Setter Lid.

L

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

* See chart on page 21 for other options for 15" lids, and page 22 for options for 18" lids.



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COUNTERBORES FOR THROUGH-THE-LID ANTENNA MOUNTING



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



















As some meter manufacturers offer more than one through-the-lid antenna or adapter, dimensions should be confirmed at time of order.

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



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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.



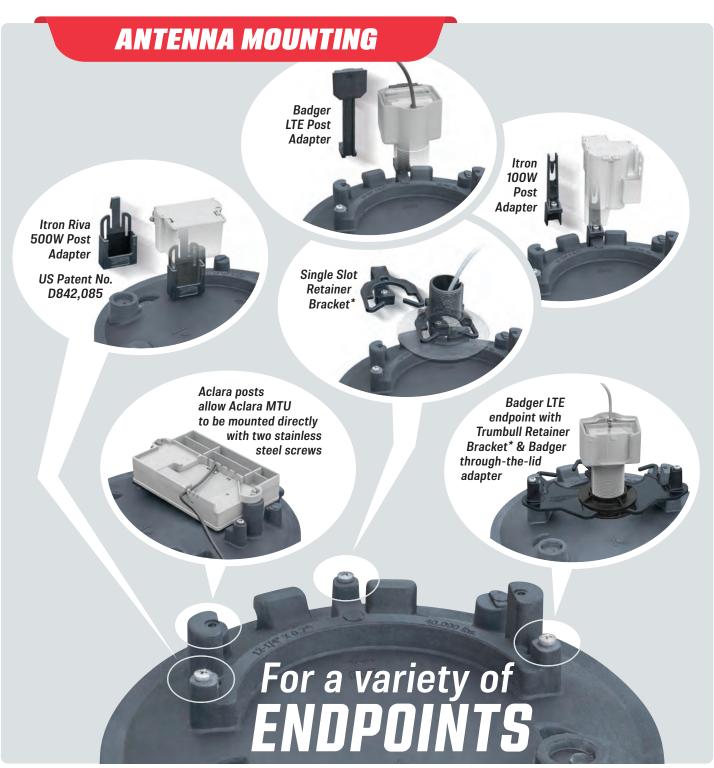
For dimensions, load ratings and additional options, refer to the product information chart on pages 18 - 28.



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^{*} 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.



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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.

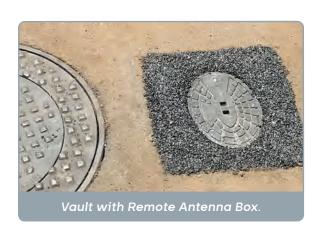


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Composite Oval Remote Antenna Box

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.

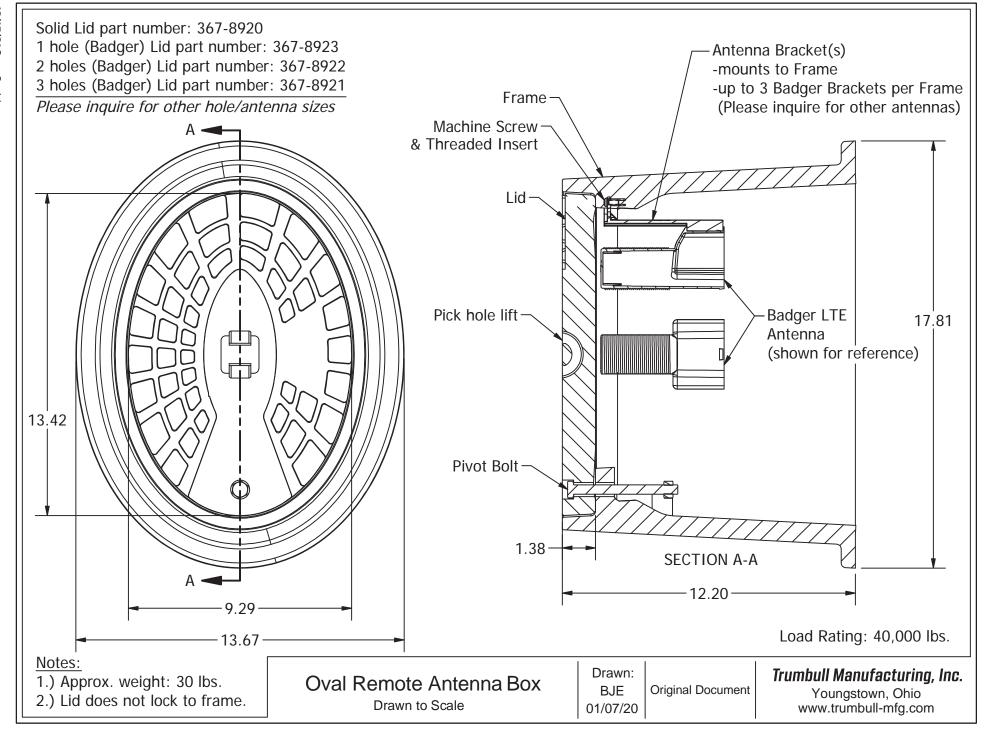
Made of durable SMC composite material. Box and solid lid are rated for a 40,000 lbs. test load, per AASHTO M-306, H-20. For load ratings with antenna holes throught the lid, please inquire.







| Trumbull Item No. | Lid Description | Height | Weight |
|----------------------|-----------------------|--------|------------|
| 367-8920 | Solid Lid | 12″ | 30.00 lbs. |
| 367-8923 | 1 Badger Counterbore | 12″ | 29.90 lbs. |
| 367-8922 | 2 badger Counterbores | 12″ | 29.80 lbs. |
| 367-8921 | 3 Badger Counterbores | 12″ | 29.70 lbs. |





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10"x 6.5" Polymer Yokebox Lids

Allows Radio Signals to be Read in AMR and AMI Systems



SLIDING LOCK: shown in closed positition

shown in open positition

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

| 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. |

Yokebox Lids Accessories



| Hand Ke | y |
|---------|---|
|---------|---|

Trumbull Item No. Weight 367-4334 0.40 lbs.

Single Slot Retainer Bracket

Details shown on page 9

| Trumbull | Weisch |
|----------|-----------|
| Item No. | Weight |
| 367-5782 | 0.05 lbs. |

THROUGH HOLE for other TTL adapters

Through-the-Lid Antennas/Adapters

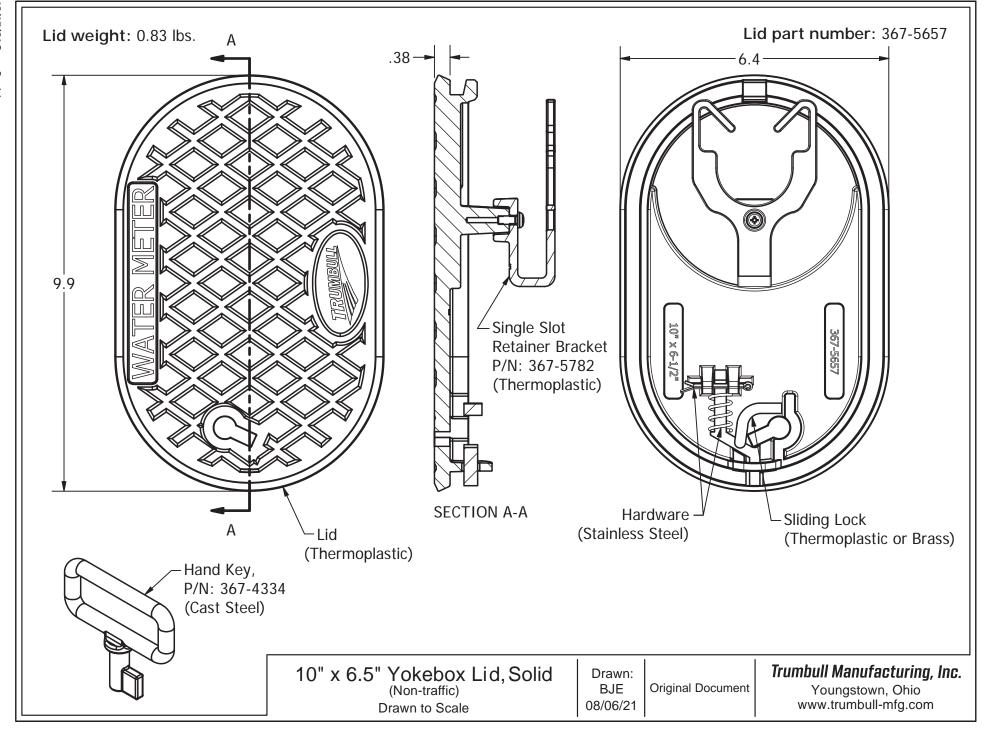
| | 5" Upper Yokebox | 8" Upper Yokebox | 10" Upper Yokebox |
|---------------------|---------------------|---------------------------|----------------------|
| Badger | × | √ | ✓ |
| Itron | × | \checkmark | √ |
| Mueller | × | × | √ |
| Sensus | × | × | \checkmark |
| Zenner | × | × | \checkmark |
| Neptune Kamstrup | | counterbore, provided. | |

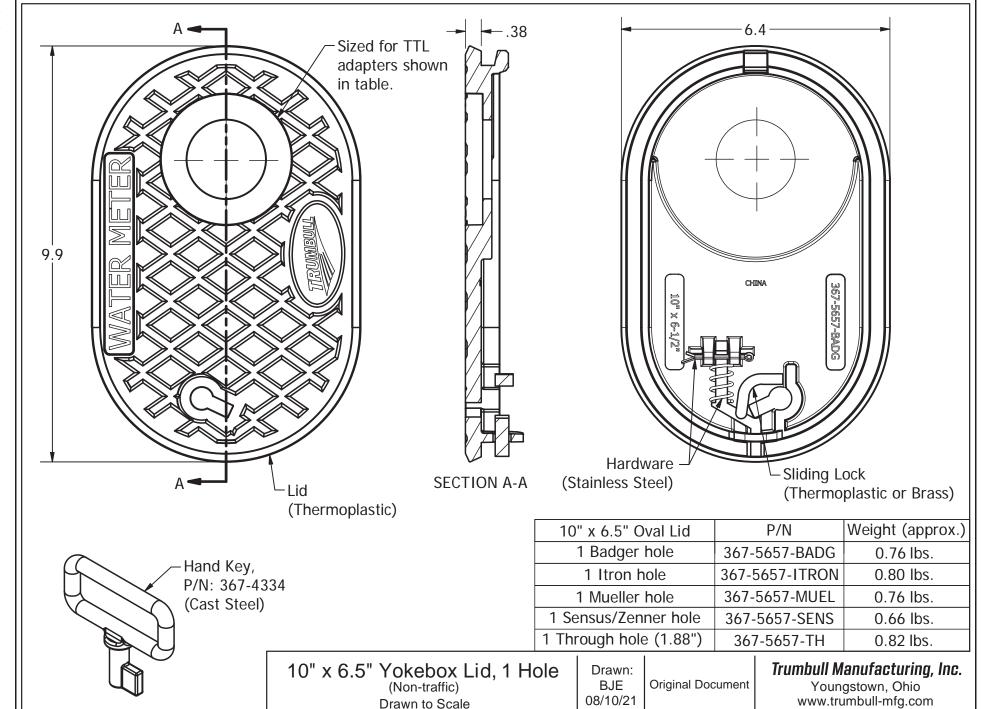
Single Slot Retainer Bracket (for Solid Lids)

| Badger | × | √ | √ |
|-----------------|---|--------------|--------------|
| Itron Riva 500W | × | \checkmark | \checkmark |
| Itron 100W | × | × | \checkmark |
| Mueller | × | × | × |
| Sensus | × | × | \checkmark |
| Neptune | × | \checkmark | \checkmark |
| Kamstrup | × | \checkmark | √ |

Post Adapter (for Solid Lids)

| Badger | × | √ | \checkmark |
|-----------------|---|--------------|--------------|
| Itron Riva 500W | × | \checkmark | \checkmark |
| Itron 100W | × | × | \checkmark |







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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

| | 15" Diameter | | | 18" Diameter | | |
|-----------|----------------------|----------|-----------|----------------------|----------|-----------|
| Thickness | Trumbull Item No. | Size | Weight | Trumbull Item No. | Size | Weight |
| 2" | 367-5824 | 15" x 2" | 0.40 lbs. | 367-5828 | 18" x 2" | 0.50 lbs. |
| 3" | 367-5825 | 15" x 3" | 0.60 lbs. | 367-5829 | 18" x 3" | 0.75 lbs. |
| 4" | 367-5826 | 15" x 4" | 0.80 lbs. | 367-5830 | 18" x 4" | 1.00 lbs. |

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.

| Trumbull Item No. | Frame | Weight |
|----------------------|---------------------------------|------------|
| 367-5466 | DI Meter Box Cover Base (T4-21) | 75.00 lbs. |
| 367-5462 | Frost Liner | 0.63 lbs. |





Manhole and Meter Lid

NOTE: All dimensions to be taken from frame

Frame Manufacturer Information

| | N | ew | Cover | Details |
|--|---|----|-------|---------|
|--|---|----|-------|---------|

| 1 | ГΤ | _ | | INI | \sim |
|---|----|---|--------------|-----|--------|
| | | | \mathbf{r} | 111 | |

- "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 _____

Name

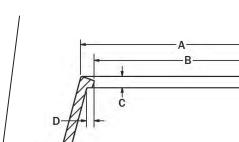
Customer Information

Company _____ Project Location _____

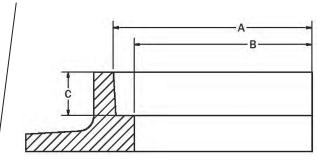
Inset Style

Phone _____





Overlapping Style



Straight Wall ID Style

| Lid Style | Address | Α | В | С | D | Е |
|-----------|---------|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |



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.

Lid O.D.

Clear Opening

Tile I.D. Size

| Lid Dimensions Types and | | Fits Frame Types | SOLID LID No Antenna Recess | BADGER Antenna Recess Ø 3.13" x 0.41"dp | ITRON GOW, 100W, RIVA Antenna Recess Ø 2.84" x 0.26" dp | KAMSTRUP Antenna Recess Ø 5.06" x 0.50" dp | MUELLER Antenna Recess Ø 3.36" x 0.33" dp | NEPTUNE** (FIGURE 8) Antenna Recess Ø 4.63" x 0.43" dp | SENSUS OR ZENNER Antenna Recess Ø 4.11" x 0.41" dp |
|---|--|---|--|---|--|--|--|---|---|
| 10-3/8" OD Clear Opening: 9-1/2" Rim Thickness: 0.65" | Non-Traffic / Polymer NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess | Ford W2A | 367-5530 1.85 lbs. | 367-5531 1.75 lbs. 500 pcs minimum order quantity | 367-5532 1.77 lbs. 500 pcs minimum order quantity | | 367-5533 1.80 lbs. 500 pcs minimum order quantity | 367-5534 1.73 lbs. 500 pcs minimum order quantity | 367-5535 1.77 lbs. 500 pcs minimum order quantity |
| 10-3/8" OD Clear Opening: 9-1/2" Rim Thickness: 3/8" "NEWPORT NEWS WATERWORKS" | Non-Traffic / Polymer NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess | Newport News Meter Box No. 1 and Capital Foundry | 5901 TMI 1.42 lbs. 500 pcs minimum order quantity | | | | 5902 TMI 1.60 lbs. 500 pcs minimum order quantity | | |
| 10-3/8" 00 Clear Opening: 9-1/2" Rim Thickness: 3/8" | Non-Traffic / Polymer NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess | Capital Foundry | 367-5581 1.42 lbs. 500 pcs minimum order quantity | | | | 367-5581-MUEL 1.60 lbs. 500 pcs minimum order quantity | | |
| 11-7/8" OD Clear Opening: 10" Rim Thickness: 5/8" | Non-Traffic / Composite DI WORM GEAR (1.5" OD) US Patent No. D858,797 Solid Lids* or MegaNet Antenna Recess | Clark Meter Box Frame | 367-5639 6.00 lbs. | 367-5638 MegaNet Recess (Not for Badger) 5.60 lbs. | | | | | |
| 11.91" OD Clear Opening: 10.7" Rim Thickness: 1" | 40,000 lbs. / Composite Ductile Iron Worm Gear Solid Lids* Only | Wilmington, DE (Old Style) Inner Lid | 367-5632 8.52 lbs. | | | | | | |
| 12-1/8" OD Clear Opening: 11" Rim Thickness: 5/8" | Non-Traffic / Polymer NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess | Mueller A and C | 367-5660 3.00 lbs. 500 pcs minimum order quantity | 367-5664 2.90 lbs. 500 pcs minimum order quantity | 367-5666 2.90 lbs. 500 pcs minimum order quantity | | | 367-5662 2.80 lbs. 500 pcs minimum order quantity | 367-5659 2.90 lbs. 500 pcs minimum order quantity |



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.

Clear Opening

Tile I.D. Size

| | s, Load Ratings, d Materials | Fits Frame Types | SOLID LID No Antenna Recess | BADGER Antenna Recess Ø 3.13" x 0.41"dp | ITRON 60W, 100W, RIVA Antenna Recess Ø 2.84" x 0.26" dp | KAMSTRUP Antenna Recess Ø 5.06" x 0.50" dp | MUELLER Antenna Recess Ø 3.36" x 0.33" dp | NEPTUNE** (FIGURE 8) Antenna Recess Ø 4.63" x 0.43" dp | SENSUS OR ZENNER Antenna Recess Ø 4.11" x 0.41" dp |
|--|--|--|---|---|--|--|---|---|---|
| 12-1/8" OD | 20,000 lbs. / Polymer | | 367-5671 | 367-5673 | 367-5674 | | | 367-5672 | 367-5668 |
| Clear Opening: 11" Rim Thickness: 5/8" | NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess | Mueller A and C | 3.00 lbs. | 2.90 lbs. | 2.90 lbs. | | | 2.80 lbs. | 2.90 lbs. |
| 12-1/4" OD | Non-Traffic / Polymer | Ford A, C, and X | 367-5810 | 367-5811 | 367-5812 | 367-5816 | 367-5813 | 367-5814 | 367-5815 |
| Clear Opening: 11-1/2" Rim Thickness: 0.65" | NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess | AY McDonald A and C | 3.06 lbs. 500 pcs minimum order quantity | 2.70 lbs. 500 pcs minimum order quantity | 2.72 lbs. 500 pcs minimum order quantity | 2.52 lbs. 500 pcs minimum order quantity | 2.72 lbs. 500 pcs minimum order quantity | 2.59 lbs. 500 pcs minimum order quantity | 2.62 lbs. 500 pcs minimum order quantity |
| 12-1/4" OD | Non-Traffic / Polymer | Ford A. C. and V | | 367-5823 | 367-5817 | 367-5821 | 367-5818 | 367-5819 | 367-5820 |
| Clear Opening: 11-1/2" Rim Thickness: 0.65" | NYLON WORM GEAR 2 Antenna Recesses | Ford A, C, and X AY McDonald A and C | | 2.53 lbs. 500 pcs minimum order quantity | 2.60 lbs. 500 pcs minimum order quantity | 2.14 lbs. 500 pcs minimum order quantity | 2.53 lbs. 500 pcs minimum order quantity | 2.27 lbs. 500 pcs minimum order quantity | 2.34 lbs. 500 pcs minimum order quantity |
| 12-1/4" OD | 20,000 lbs. / Polymer | Ford A and C | 367-5764 | 367-5762 | 367-5760 | | | 367-5763 | 367-5761 |
| Clear Opening: 11-1/2" Rim Thickness: 0.7" | NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess | AY McDonald A and C | 3.14 lbs. Non-Stock, Use Item 367-5751 | 3.03 lbs. Non-Stock, Use Item 367-5752 | 3.07 lbs. Non-Stock, Use Item 367-5754 | | | 2.92 lbs. Non-Stock, Use Item 367-5755 | 2.97 lbs. Non-Stock, Use Item 367-5753 |
| 12-1/4" OD | 20,000 lbs. / Polymer | Ford A, C, and X | 367-5751 | 367-5752 | 367-5754 | | | 367-5755 | 367-5753 |
| Clear Opening: 11-1/2" Rim Thickness: 0.7" | NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess | AY McDonald A and C Tyler 6150 | 3.04 lbs. | 2.87 lbs. | 2.91 lbs. | | | 2.82 lbs. | 2.87 lbs. |
| 12-1/4" OD | 40,000 lbs. / Polymer | Ford A and C | 367-5670 | 367-5676 | 367-5678 | | | 367-5675 | 367-5677 |
| Clear Opening: 11-1/2" Rim Thickness: 0.7" | DUCTILE IRON WORM GEAR Solid Lids* or with 1 Antenna Recess | AY McDonald type A | 3.93 lbs. 500 pcs minimum order quantity | 3.81 lbs. 500 pcs minimum order quantity | 3.85 lbs. 500 pcs minimum order quantity | | | 3.71 lbs. 500 pcs minimum order quantity | 3.73 lbs. 500 pcs minimum order quantity |



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.

Lid O.D.

Clear Opening

Tile I.D. Size

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

| Lid Dimensions. Types and | | Fits Frame Types | SOLID LID No Antenna Recess | BADGER Antenna Recess Ø 3.13" x 0.41" dp | ITRON 60W, 100W, RIVA Antenna Recess Ø 2.84" x 0.26" dp | KAMSTRUP Antenna Recess Ø 5.06" x 0.50" dp | MUELLER Antenna Recess Ø 3.36" x 0.33" dp | NEPTUNE** (FIGURE 8) Antenna Recess Ø 4.63" x 0.43" dp | SENSUS OR ZENNER Antenna Recess Ø 4.11" x 0.41" dp |
|---|---|--|--|--|--|---|---|---|---|
| 12-1/4" OD Clear Opening: 11-1/2" Rim Thickness: 0.7" | 40,000 lbs. / Composite DUCTILE IRON WORM GEAR Solid Lids* or with 1 Antenna Recess | Ford A and C AY McDonald type A | 367-5518 9.54 lbs. ALSO AVAILABLE: W/out Logo 367-5517 (40K) | 367-5591 9.00 lbs. | 367-5519 9.01 lbs. | | | 367-5593 <i>8.70 lbs.</i> | 367-5592 <i>8.71 lbs.</i> |
| 12-3/4" OD Clear Opening: 11-5/8" Rim Thickness: 3/8" "NEWPORT NEWS WATERWORKS" | Non-Traffic / Polymer NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess | Newport News Meter Box No. 2 and Capital Foundry | 4946 TMI 2.20 lbs. ALSO AVAIALBLE: w/out NN Lettering (Non-Traffic) | | | | 4945 TMI 2.20 lbs. ALSO AVAIALBLE: w/out NN Lettering (Non-Traffic) | | |
| 12.438" OD Clear Opening: 11" Rim Thickness: 0.65" | Non-Traffic / Polymer DROP-IN STYLE Solid Lids* or with 1 Antenna Recess | American Foundry, and misc. | 367-5719 3.30 lbs. 250 pcs minimum order quantity | 367-5721 3.10 lbs. 250 pcs minimum order quantity | 367-5722 3.10 lbs. 250 pcs minimum order quantity | | 367-5723 2.90 lbs. 250 pcs minimum order quantity | 367-5724 2.90 lbs. 250 pcs minimum order quantity | 3.00 lbs. 250 pcs minimum order quantity |
| 12.438" OD Clear Opening: 11" Rim Thickness: 0.65" | 20,000 lbs. / Polymer Drop-in Style Solid Lid* Only | MO American | 367-5720 3.30 lbs. 250 pcs minimum order quantity | | | | | | |
| 12-5/8" OD Clear Opening: 11-1/2" Rim Thickness: 9/16" | Non-Traffic / Polymer NYLON WORM GEAR Solid Lid* or Machined Recess | Ford, AY McD, Vestal and B&T Type C and Baltimore | 367-5769 3.08 lbs. 500 pcs minimum order quantity | | Antenn | na recesses can be machin | ned in the lid, charges may | r apply. | |
| 12-5/8" OD Clear Opening: 11-1/2" Rim Thickness: 9/16" | 20,000 lbs. / Polymer NYLON WORM GEAR Solid Lid* or Machined Recess | Ford, AY McD, Vestal and B&T Type C and Baltimore | 367-5767 3.08 lbs. | | Antenn | a recesses can be machin Load ratings may vary | | r apply. | |

Lids marked "WATER METER" are continued on the following page.

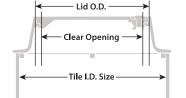


Worm Gears: Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

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.



| | s, Load Ratings, I Materials | Fits Frame Types | SOLID LID No Antenna Recess | BADGER Antenna Recess Ø 3.13" x 0.41" dp | ITRON 60W, 100W, RIVA Antenna Recess Ø 2.84" x 0.26" dp | KAMSTRUP Antenna Recess Ø 5.06" x 0.50" dp | MUELLER Antenna Recess Ø 3.36" x 0.33" dp | NEPTUNE** (FIGURE 8) Antenna Recess Ø 4.63" x 0.43" dp | SENSUS OR ZENNER Antenna Recess Ø 4.11" x 0.41"dp |
|---|--|---|--|---|--|--|--|---|--|
| 12-5/8" OD Clear Opening: 11-1/2" Rim Thickness: 1" | 40,000 lbs. / Composite Ductile Iron Worm Gear Solid Lid* Only | Ford, Vestal and B&T Type C and Baltimore | 367-5669 10.74 lbs. | Antenna recesses can be machined in the lid, charges may apply. Load ratings may vary depending on its size. | | | | | |
| 13" x 17-9/32" OD (Oval Shape Lid) Rim Thickness: 0.79" | 25,000 lbs. / Composite DROP-IN STYLE Solid Lid* Only | MB-10 Oval | 367-5650 14.80 lbs. | *** | *** | *** | *** | *** | |
| 14" x 16" MB Dual Lid (Rectangle Shape Lid) Clear Opening: 13" x 15-1/8" Rim Thickness: 1-1/2" | Non-Traffic / Polymer DROP-IN STYLE Solid Lids* or with 1 Antenna Recess | Brooks MB Dual Frame | 367-5594 7.70 lbs. | | 367-5595 <i>7.60 lbs.</i> | | | | |
| 14" x 16" MB Dual Lid (Rectangle Shape Lid) Clear Opening: 13" x 15-1/8" Rim Thickness: 1-1/2" | Non-Traffic / Polymer DROP-IN STYLE 2 Antenna Recesses | Brooks MB Dual Frame | | | 367-5596 <i>7.50 lbs.</i> | | | | |
| 15.4" OD Clear Opening: 14.7" Rim Thickness: 0.7" | Non-Traffic / Polymer UHMWPE WORM GEAR Solid Lids* or with 1 Antenna Recess | Mueller and AY McDonald Coil Pit Setter | 367-5644 5.65 lbs. | 367-5646 <i>5.45 lbs.</i> | 367-5648 5.45 lbs. 200 pcs minimum order quantity | | 367-5649 5.45 lbs. 200 pcs minimum order quantity | 367-5645 5.35 lbs. 200 pcs minimum order quantity | 367-5647 5.40 lbs. 200 pcs minimum order quantity |
| 16-1/16" OD Clear Opening: 15" Rim Thickness: 21/32" | Non-Traffic / Polymer NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess | Vestal type A, Ford type C, AY McDonald type C | 367-5771 6.04 lbs. 100 pcs minimum order quantity | 367-5773 ** 5.96 lbs. 100 pcs minimum order quantity | 367-5775 ** 6.01 lbs. 100 pcs minimum order quantity | *** | *** | 367-5772 ** 5.76 lbs. 100 pcs minimum order quantity | 367-5774** 5.84 lbs. 100 pcs minimum order quantity |



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.

Lid O.D.

Clear Opening

Tile I.D. Size

| | ns, Load Ratings, nd Materials | Fits Frame Types | SOLID LID No Antenna Recess | BADGER Antenna Recess Ø 3.13" x 0.41" dp | ITRON 60W, 100W, RIVA Antenna Recess Ø 2.84" x 0.26" dp | KAMSTRUP Antenna Recess Ø 5.06" x 0.50" dp | MUELLER Antenna Recess Ø 3.36" x 0.33" dp | NEPTUNE** (FIGURE 8) Antenna Recess Ø 4.63" x 0.43" dp | SENSUS OR ZENNER Antenna Recess Ø 4.11" x 0.41" dp |
|---|---|--|--|--|--|--|--|--|---|
| 16-3/16" OD Clear Opening: 15" Rim Thickness: 1" | 40,000 lbs. / Composite DUCTILE IRON WORM GEAR Solid Lids* or with 1 Antenna Recess | B&T, Vestal, Ford, AY McDonald type C and Baltimore | 367-5680 14.20 lbs. | | Antenn | arecesses can be machin Load ratings may vary | | y apply. | |
| 17-1/4" OD Clear Opening: 14" Rim Thickness: 0.5" | Non-Traffic / Polymer DROP-IN STYLE Solid Lids* or with 1 Antenna Recess | Flat Lid for 15" Plastic Pit | 367-5588 4.40 lbs. 250 pcs minimum order quantity | 367-5588-BADG 4.06 lbs. 250 pcs minimum order quantity | 367-5588-ITRON 4.09 lbs. 250 pcs minimum order quantity | 3.85 lbs. 250 pcs minimum order quantity | 367-5588-MUEL 4.06 lbs. 250 pcs minimum order quantity | 3.92 lbs. 250 pcs minimum order quantity | 367-5588-SENS 3.99 lbs. 250 pcs minimum order quantity |
| 17-1/4" DD Clear Opening: 14" Rim Thickness: 0.5" | Non-Traffic / Polymer DROP-IN STYLE 2 Antenna Recesses | Flat Lid for 15" Plastic Pit | | 367-5588-2BADG 4.14 lbs. 250 pcs minimum order quantity | 367-5588-21TRON 4.21 lbs. 250 pcs minimum order quantity | 367-5588-2KAMS 3.73 lbs. 250 pcs minimum order quantity | 367-5588-2MUEL 4.14 lbs. 250 pcs minimum order quantity | 367-5588-2NEPT 4.15 lbs. 250 pcs minimum order quantity | 367-5588-25ENS 3.87 lbs. 250 pcs minimum order quantity |
| 17-3/4" OD Clear Opening: 16-1/8" Rim Thickness: 1-1/16" Cap Style Lid | Non-Traffic / Composite DROP-IN STYLE Solid Lids* Only | Owosso Central Castings Co. | 367-5681 12.80 lbs. | | | | | | |
| 18-7/8" OD Clear Opening: 18" Rim Thickness: 7/16" | 40,000 lbs. / Composite DUCTILE IRON WORM GEAR Solid Lids* or with 1 Antenna Recess | 18" AY McDonald Pit Setter | 367-5615 24.60 lbs. | | 367-5614 <i>23.90 lbs.</i> | | | | |
| 19.35" OD Clear Opening: 17" Rim Thickness: 0.56" | Non-Traffic / Polymer OROP-IN STYLE Solid Lids* or with 1 Antenna Recess | Flat Lid for 18" Plastic Pit | 367-5590 6.07 lbs. 200 pcs minimum order quantity | 367-5590-BADG 5.71 lbs. 200 pcs minimum order quantity | 367-5590-ITRON 5.75 lbs. 200 pcs minimum order quantity | 367-5590-KAMS 5.51 lbs. 200 pcs minimum order quantity | 367-5590-MUEL 5.72 lbs. 200 pcs minimum order quantity | 367-5590-NEPT 5.58 lbs. 200 pcs minimum order quantity | 367-5590-SENS 5.64 lbs. 200 pcs minimum order quantity |



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.

Clear Opening

Tile I.D. Size

SENSUS ITRON 60W. NEPTUNE* SOLID LID BADGER 100W. RIVA KAMSTRUP MUELLER OR ZENNER (FIGURE 8) Lid Dimensions, Load Ratings, Types and Materials Fits Frame Types No Antenna Recess Ø 2.84" x 0.26" dp Ø 3.36" x 0.33" dp Ø 4.63" x 0.43" dp Ø 3.13" x 0.41" dp Ø 5.06" x 0.50" dp Ø 4.11" x 0.41" dp 19 35" NN Non-Traffic / Polvmer 367-5590-2BADG 367-5590-2ITRON 367-5590-2KAMS 367-5590-2MUEL 367-5590-2NEP1 367-5590-2SENS Clear Opening: 17" **DROP-IN STYLF** Flat Lid for 18" 5.80 lbs. 5.87 lbs. 5.39 lbs. 5.80 lbs. 5.54 lbs. 5.66 lbs. Rim Thickness: 0.56" 2 Antenna Recesses Plastic Pit 200 pcs minimum order quantity order quantity order quantity order quantity order quantity order quantity 19-3/4" OD 40,000 lbs. / Composite 367-5688 EJ 1525 " Clear Opening: 18" DOUBLE PADDLE LOCK (DI) 33.00 lbs. Neenah R-1566 Rim Thickness: 2-3/16" Solid Lids* Only Baltimore 19-13/16" OD 40.000 lbs. / Composite 367-5631 Clear Opening: 18-1/2" **DUCTILE IRON WORM GEAR** F.I 2990 28.30 lbs. Rim Thickness: 1" Solid Lids* Only Neenah R-1892 "CWD-2" 21-3/16" 00 Non-Traffic / Polvmer 367-5605 367-5605-BADG 367-5605-ITRON 367-5605-KAMS 367-5605-MUEL 367-5605-NEPT 367-5605-SENS Ford and Clear Opening: 20" NYLON WORM GEAR AY McDonald 10.91 lbs. 10.81 lbs. 10.77 lbs. 10.57 lbs. 10.79 lbs. 10.63 lbs. 10.70 lbs. Rim Thickness: 0.77" Solid Lids* or with Monitor Covers 1 Antenna Recess and Pit Rings 21-3/16" 00 10.000 lbs. / Composite 367-5610 367-5786 367-5788 367-5785 367-5787 Ford and Clear Opening: 20" **DUCTILE IRON WORM GEAR** AY McDonald 31.30 lbs. 30.60 lbs. 30.70 lbs. 30.50 lbs. 30.30 lbs. Rim Thickness: 0.77" Solid Lids* or with **Monitor Covers** 1 Antenna Recess and Pit Rinas 21-3/4" OD 20.000 lbs. / Composite 367-5633 Clear Opening: 20" **DROP-IN STYLF** 23.10 lbs. Arlinaton, VA Rim Thickness: 1-1/4" Solid Lids* Only



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.

Clear Opening Tile I.D. Size

| Lid Dimension Types an | ns, Load Ratings, nd Materials | Fits Frame Types | SOLID LID No Antenna Recess | BADGER Antenna Recess Ø 3.13" x 0.41" dp | ITRON 60W, 100W, RIVA Antenna Recess Ø 2.84" x 0.26" dp | KAMSTRUP Antenna Recess Ø 5.06" x 0.50" dp | MUELLER Antenna Recess Ø 3.36" x 0.33" dp | NEPTUNE** (FIGURE 8) Antenna Recess Ø 4.63" x 0.43" dp | SENSUS OR ZENNER Antenna Recess Ø 4.11" x 0.41" dp |
|---|--|---|--------------------------------------|--|--|--|---|---|---|
| 22-3/4" OD Clear Opening: 21" Rim Thickness: 1-11/16" | 40,000 lbs. / Composite Ductile Iron Worm Gear Solid Lids* Only | EJ 1020 Neenah R-1580 | 367-8905 45.70 lbs. | | | | | | |
| 23-3/4" OD Clear Opening: 22" Rim Thickness: 1" | 20,000 lbs. / Composite DROP-IN STYLE Solid Lids* Only | Arlington, VA | 367-5634 26.30 lbs. | | | | | | |
| 23-3/4" OD Clear Opening: 21-1/2" Rim Thickness: 1" | 40,000 lbs. / Composite DUCTILE IRON WORM GEAR Solid Lids* Only | EJ 1450 and 1690 Neenah R-1771 Neenah R-1785 | 367-8908 44.80 lbs. | | | | | | |
| 23-3/4" OD Clear Opening: 21-1/2" Rim Thickness: 1" | 40,000 lbs. / Composite UHMWPE WORM GEAR Solid Lids* Only | Trumbull Frame 367-5623 4 Badger LTE Brackets in frame | 367-8910 44.80 lbs. | | | | | | |
| 23-3/4" OD Clear Opening: 21-1/2" Rim Thickness: 1" "AURORA" | 40,000 lbs. / Composite UHMWPE WORM GEAR Solid Lids* or with 1 Antenna Recess | Trumbull Frame 367-5623 4 Badger LTE Brackets in frame | 367-8912 44.80 lbs. | 367-8914 44.60 lbs. | | | | | |
| 23-3/4" OD Clear Opening: 21-1/2" Rim Thickness: 1" "AURORA" | 40,000 lbs. / Composite UHMWPE WORM GEAR 2 Antenna Recesses | Trumbull Frame 367-5623 4 Badger LTE Brackets in frame | | 367-8916 44.50 lbs. | | | | | |

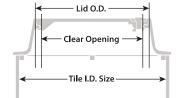


Worm Gears: Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

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.



| | ns, Load Ratings, nd Materials | Fits Frame Types | SOLID LID No Antenna Recess | BADGER Antenna Recess Ø 3.13" x 0.41"dp | ITRON 60W, 100W, RIVA Antenna Recess Ø 2.84" x 0.26" dp | KAMSTRUP Antenna Recess Ø 5.06" x 0.50" dp | MUELLER Antenna Recess Ø 3.36" x 0.33"dp | NEPTUNE** (FIGURE 8) Antenna Recess Ø 4.63" x 0.43" dp | SENSUS OR ZENNER Antenna Recess Ø 4.11" x 0.41"dp |
|--|---|--|-----------------------------------|---|--|--|--|---|--|
| 24" OD Clear Opening: 19" Rim Thickness: 0.56" | Non-Traffic / Polymer DROP-IN STYLE Solid Lids* or with 1 Antenna Recess | Flat Lid for 20" and 21" Plastic Pit | 367-5597 8.57 lbs. | 367-5597-BADG 8.22 lbs . | 367-5597-ITRON 8.25 lbs. | 367-5597-KAMS 8.00 lbs. | 367-5597-MUEL 8.22 lbs. | 367-5597-NEPT <i>8.09 lbs.</i> | 367-5597-SENS 8.15 lbs. |
| 24" OD Clear Opening: 19" Rim Thickness: 0.56" | Non-Traffic / Polymer DROP-IN STYLE 2 Antenna Recesses | Flat Lid for 20" and 21" Plastic Pit | | 367-5597-2BADG 8.31 lbs. | 367-5597-21TRON 8.38 lbs. | 367-5597-2KAMS 7.90 lbs. | 367-5597-2MUEL <i>8.32 lbs.</i> | 8.05 lbs. | 367-5597-2SENS 8.17 lbs. |
| 24-3/16" OD Clear Opening: 21" Rim Thickness: 3" "WSNY" | 40,000 lbs. / Composite DUCTILE IRON WORM GEAR Solid Lids* Only T316SS Pentagon Bolt | NYC | 5218 TMI 60.50 lbs. | | | | | | |
| 25-1/4" OD Clear Opening: 22-3/4" Rim Thickness: 2" | 40,000 lbs. / Composite Ductile Iron Worm Gear Solid Lids* Only | EJ 1700 | 367-5685 <i>63.50 lbs.</i> | | | | | | |
| 25-3/4" OD Clear Opening: 24" Rim Thickness: 2-1/2" | 40,000 lbs. / Composite DOUBLE PADDLE LOCK (DI) Solid Lids* Only | EJ 1543/1545 * Neenah R-1565 * Baltimore | 367-5698 <i>64.00 lbs.</i> | | | | | | |
| 25-1/2" OD Clear Opening: 24-3/16" Rim Thickness: 1-1/4" | 40,000 lbs. / Composite DUCTILE IRON WORM GEAR Solid Lids* Only | EJ 1040, 1045, 1048 and 1705 | 367-5527 54.00 lbs. | | | | | | |



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.

Clear Opening

Tile I.D. Size

| | s, Load Ratings, I Materials | Fits Frame Types | SOLID LID No Antenna Recess | BADGER Antenna Recess Ø 3.13" x 0.41" dp | ITRON 60W, 100W, RIVA Antenna Recess Ø 2.84" x 0.26" dp | KAMSTRUP Antenna Recess Ø 5.06" x 0.50" dp | MUELLER Antenna Recess Ø 3.36" x 0.33" dp | NEPTUNE** (FIGURE 8) Antenna Recess Ø 4.63" x 0.43" dp | SENSUS OR ZENNER Antenna Recess Ø 4.11" x 0.41" dp |
|---|--|---|--|--|--|---|--|---|---|
| 25-1/2" OD Clear Opening: 24-3/16" Rim Thickness: 1-1/4" | 40,000 lbs. / Composite UHMWPE WORM GEAR Solid Lids* Only | Trumbull Frame 367-5635 6" height | 367-5528 54.00 lbs. | | | | | | |
| 30-1/2" x 17-1/2" Rect. Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2" | Non-Traffic / Polymer DROP-IN STYLE Solid Lids* or with 1 Antenna Recess | 17" x 30" Hubbell, Old Castle Polymer, & Old Castle Concrete | 367-5560 <i>27.80 lbs.</i> | 367-5562 27.60 lbs. 250 pcs minimum order quantity | 367-5563 27.60 lbs. 250 pcs minimum order quantity | 367-5582 27.40 lbs. 250 pcs minimum order quantity | 367-5564 27.60 lbs. 250 pcs minimum order quantity | 367-5565 27.40 lbs. 250 pcs minimum order quantity | 367-5566 27.50 lbs. 250 pcs minimum order quantity |
| 30-1/2" x 17-1/2" Rect. Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2" | Non-Traffic / Polymer DROP-IN STYLE 2 Antenna Recesses | 17" x 30" Hubbell, Old Castle Polymer, & Old Castle Concrete | | 367-5572 27.50 lbs. 250 pcs minimum order quantity | 367-5573 27.50 lbs. 250 pcs minimum order quantity | 367-5584 27.00 lbs. 250 pcs minimum order quantity | 367-5574 27.40 lbs. 250 pcs minimum order quantity | 367-5575 27.00 lbs. 250 pcs minimum order quantity | 367-5576 27.30 lbs. 250 pcs minimum order quantity |
| 30-1/2" x 17-1/2" Rect. Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2" | Non-Traffic / Polymer BOLT-DOWN STYLE Solid Lids* or with 1 Antenna Recess | 17" x 30" Hubbell, Old Castle Polymer, & Old Castle Concrete | 367-5561 <i>27.70 lbs.</i> | 367-5567 27.50 lbs. 250 pcs minimum order quantity | 367-5568 27.50 lbs. 250 pcs minimum order quantity | 367-5583 27.30 lbs. 250 pcs minimum order quantity | 367-5569 27.50 lbs. 250 pcs minimum order quantity | 367-5570 27.30 lbs. 250 pcs minimum order quantity | 367-5571 27.40 lbs. 250 pcs minimum order quantity |
| 30-1/2" x 17-1/2" Rect. Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2" | Non-Traffic / Polymer BOLT-DOWN STYLE 2 Antenna Recesses | 17" x 30" Hubbell, Old Castle Polymer, & Old Castle Concrete | | 367-5577 27.40 lbs. 250 pcs minimum order quantity | 367-5578 27.40 lbs. 250 pcs minimum order quantity | 367-5585 26.90 lbs. 250 pcs minimum order quantity | 367-5579 27.30 lbs. 250 pcs minimum order quantity | 367-5580 26.90 lbs. 250 pcs minimum order quantity | 367-5581 27.20 lbs. 250 pcs minimum order quantity |
| 30-1/2" x 17-1/2" Rect. Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2" | 40,000 lbs. / Composite DROP-IN STYLE Solid Lids* or with 1 Antenna Recess | 17" x 30" Hubbell, Old Castle Polymer, & Old Castle Concrete | 367-5560-40K 52.00 lbs. 25 pcs minimum order quantity | 367-5562-40K 51.20 lbs. 25 pcs minimum order quantity | 367-5563-40K 51.30 lbs. 25 pcs minimum order quantity | | 367-5564-40K 51.20 lbs. 25 pcs minimum order quantity | 367-5565-40K 50.90 lbs. 25 pcs minimum order quantity | |

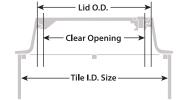


Worm Gears: Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

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.



| | s, Load Ratings, d Materials | Fits Frame Types | SOLID LID No Antenna Recess | BADGER Antenna Recess Ø 3.13" x 0.41" dp | 11 RUN BUW, 100W, RIVA Antenna Recess Ø 2.84" x 0.26" dp | KAMSTRUP Antenna Recess Ø 5.06" x 0.50" dp | MUELLER Antenna Recess Ø 3.36" x 0.33" dp | (FIGURE 8) Antenna Recess Ø 4.63" x 0.43" dp | OR ZENNER Antenna Recess Ø 4.11" x 0.41" dp |
|---|--|---|--|--|---|--|--|--|--|
| 30-1/2" x 17-1/2" Rect. Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2" | 40,000 lbs. / Composite DROP-IN STYLE 2 Antenna Recesses | 17" x 30" Hubbell, Old Castle Polymer, & Old Castle Concrete | | 367-5572-40K 50.80 lbs. 25 pcs minimum order quantity | 367-5573-40K 51.00 lbs. 25 pcs minimum order quantity | | 367-5564-40K 50.90 lbs. 25 pcs minimum order quantity | 367-5575-40K 50.20 lbs. 25 pcs minimum order quantity | |
| 30-1/2" x 17-1/2" Rect. Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2" | 40,000 lbs. / Composite BOLT-DOWN STYLE Solid Lids* or with 1 Antenna Recess | 17" x 30" Hubbell, Old Castle Polymer, & Old Castle Concrete | 367-5561-40K 51.50 lbs. 25 pcs minimum order quantity | 367-5567-40K 51.10 lbs. 25 pcs minimum order quantity | 367-5568-40K 51.10 lbs. 25 pcs minimum order quantity | | 367-5569-40K 51.10 lbs. 25 pcs minimum order quantity | 367-5570-40K 50.70 lbs. 25 pcs minimum order quantity | |
| 30-1/2" x 17-1/2" Rect. Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2" | 40,000 lbs. / Composite BOLT-DOWN STYLE 2 Antenna Recesses | 17" x 30" Hubbell, Old Castle Polymer, & Old Castle Concrete | | 367-5577-40K 50.70 lbs. 25 pcs minimum order quantity | 367-5578-40K 50.80 lbs. 25 pcs minimum order quantity | | 367-5579-40K 50.80 lbs. 25 pcs minimum order quantity | 367-5580-40K 50.00 lbs. 25 pcs minimum order quantity | |
| 31-13/16" OD Clear Opening: 30" Rim Thickness: 2-1/2" | 40,000 lbs. / Composite DOUBLE PADDLE LOCK (DI) Solid Lids* Only | Neenah R-1568 - Baltimore | 367-5710 108.70 lbs. 15 pcs minimum order quantity | | | | | | |
| 35-27/32" OD Clear Opening: 34" Rim Thickness: 1.44" "CONFINED SPACE NEORSD" | 40,000 lbs. / Composite DROP-IN STYLE Solid Lids* Only | EJ 1585 Neenah R-1752 | 367-5715 131.30 lbs. 15 pcs minimum order quantity | | | | | | |
| 35-27/32" OD Clear Opening: 34" Rim Thickness: 1.44" "ARLINGTON" | 40,000 lbs. / Composite DROP-IN STYLE Solid Lids* Only | EJ 1585 Neenah R-1752 Arlington, VA | 367-5712 131.30 lbs. 30 pcs minimum order quantity | | | | | | |



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 Dimensior Types an | ns, Load Ratings, ad Materials | Fits Frame Types | BOLT DOV | PADDLE LOCK Style | |
|--|---|--|---------------------------------------|---|--------------------------------------|
| 23-3/4" OD | 50,000 lbs. / Composite | | 367-5790 | | |
| Clear Opening: 21-1/2" ID Rim Thickness: 1" | BOLT-DOWN STYLE Or Paddle Lock Style Solid Lids* Only | Trumbull Frame 367-5468 4" height | 66.10 lbs. Frame and Cover | | |
| 26" OD | 50,000 lbs. / Composite | | 367-5702 | | 367-5704 |
| Clear Opening: 24" ID Rim Thickness: 1" | BOLT-DOWN STYLE Or Paddle Lock Style Solid Lids* Only | Trumbull Frame 367-5705 4" height | 93.00 lbs. Frame and Cover | | 93.00 lbs. Frame and Cover |
| 32" OD | 50,000 lbs. / Composite | | 367-5793 | 367-5799 | 367-5901 |
| Clear Opening: 30" ID Rim Thickness: 1-1/4" | BOLT-DOWN STYLE Or Paddle Lock Style Solid Lids* Only | Trumbull Frame 367-5794 4" height | 129.00 lbs. Frame and Cover | Same as 367-5793 except has lettering "WATER", not "WATER METER" | 129.00 lbs. Frame and Cover |
| 38" OD | 50,000 lbs. / Composite | | 367-5465 | | 367-5618 |
| Clear Opening: 36" ID Rim Thickness: 1-1/2" | BOLT-DOWN STYLE OR PADDLE LOCK STYLE Solid Lids* Only | Trumbull Frame 367-5784 6" height | 236.80 lbs. Frame and Cover | | 236.00 lbs. Frame and Cover |

"ADDIT

* 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.



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PROOF LOAD TESTING PER... AASHTO M-306

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.



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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.

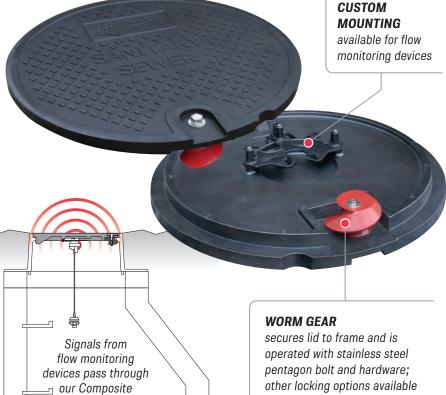


LOAD TESTED PER AASHTO M-306, H-20 - 40,000 lbs.

(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.

I ids!

upon request



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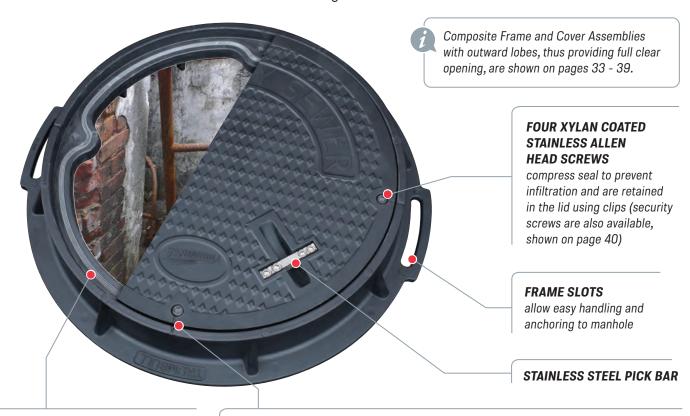
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Composite Manhole Frame and Cover Assembly

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.



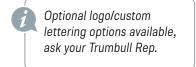
GROOVED DESIGN EPDM SEAL

prevents infiltration through bolt holes (artificially colored here for emphasis)

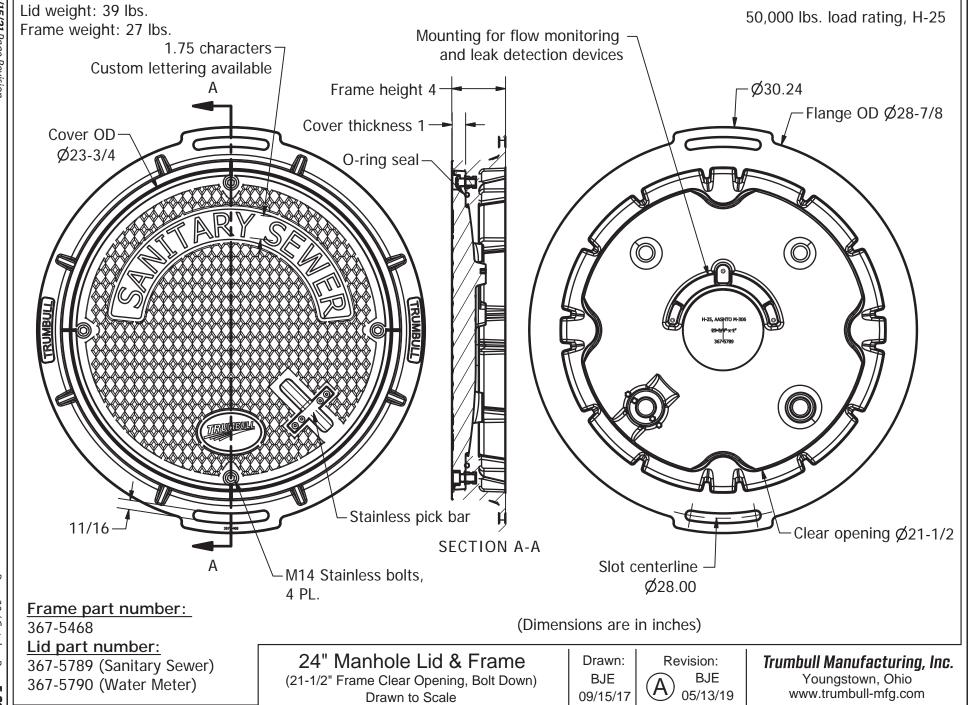
MATCHING ALIGNMENT INDICATORS - Patent No. US 10,240,317 B2

help line up the stainless screws with threaded inserts in the frame; in addition, the underside has cutouts that cause the lid to drop into the proper "bolt-down" position

| | | FRAME | SANITARY SEWER LID | WATER METER LID | |
|----------------|----------------------|----------------------|-----------------------|----------------------|-----------------|
| Lid OD Size | Locking Mechanism | Trumbull Item No. | Trumbull Item No. | Trumbull Item No. | Total Weight |
| 23-3/4" | Bolt Down | 367-5468 | 367-5789 | 367-5790 | 66.10 lbs. |



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





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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

OUTWARD LOBES allow for precise bolt and paddle lock alignment

prevents infiltration

STAINLESS STEEL PICK BARS 1 or 2, depending on manhole size

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.

FRAME SLOTS

allow easy handling and anchoring to manhole

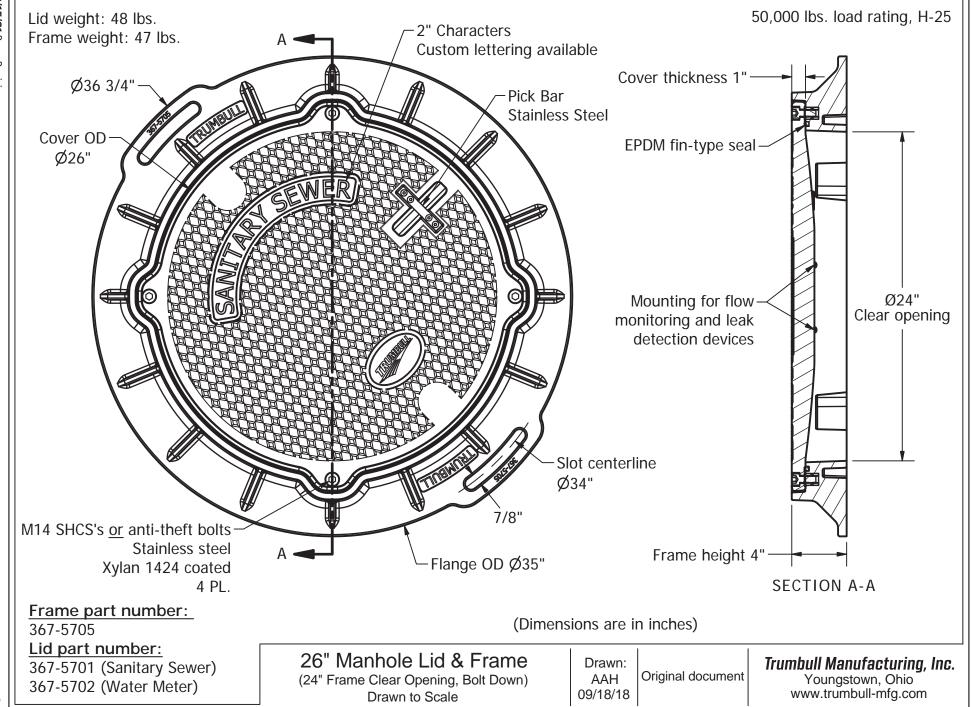


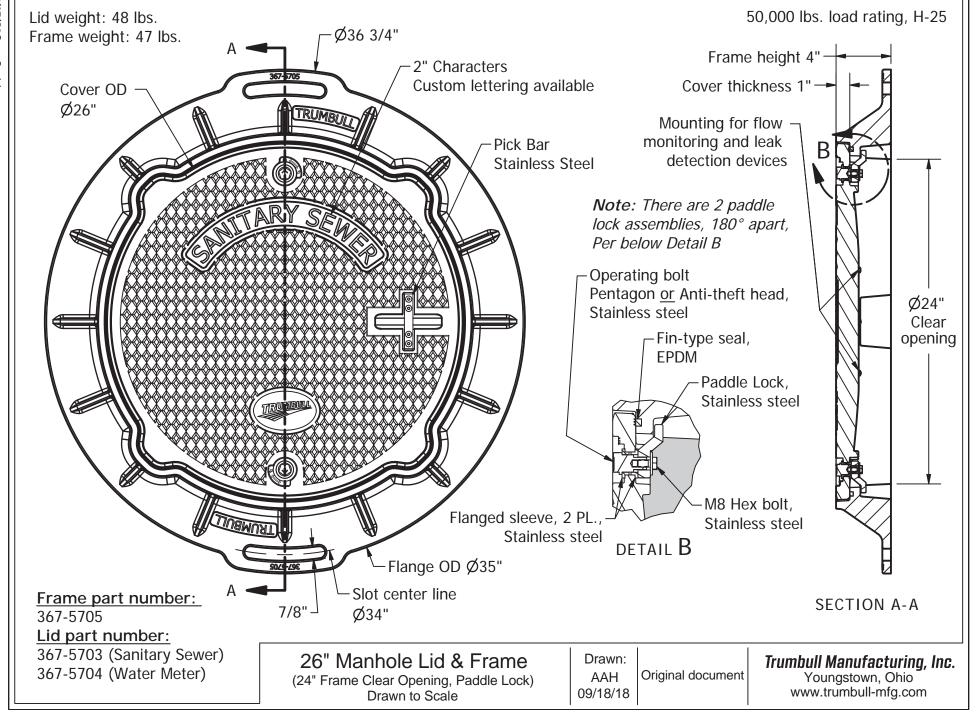
Additional security options available, shown on page 40.

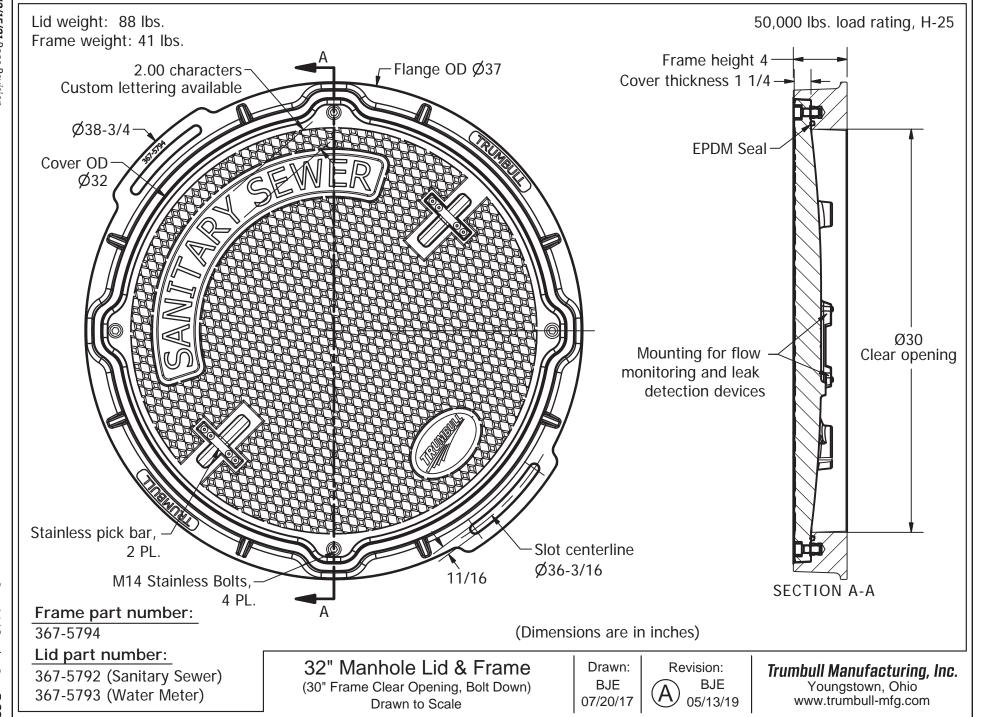
| | | FRAME | SANITARY SEWER LID | WATER METER LID | |
|-----------|----------------------|----------------------|-----------------------|----------------------|-----------------|
| Lid OD | Locking Mechanism | Trumbull Item No. | Trumbull Item No. | Trumbull Item No. | Total Weight |
| 26" | Bolt Down | 367-5705 | 367-5701 | 367-5702 | 93.00 lbs. |
| 26" | Paddle Lock | | 367-5703 | 367-5704 | 93.00 lbs. |
| 32" | Bolt Down | 267 5704 | 367-5792 | 367-5793 | 129.00 lbs. |
| 32" | Paddle Lock | 367-5794 | 367-5900 | 367-5901 | 129.00 lbs. |
| 38" | Bolt Down | 367-5784 | 367-5795 | 367-5465 | 236.80 lbs. |
| 38" | Paddle Lock | 307-3784 | 367-5617 | 367-5618 | 236.80 lbs. |

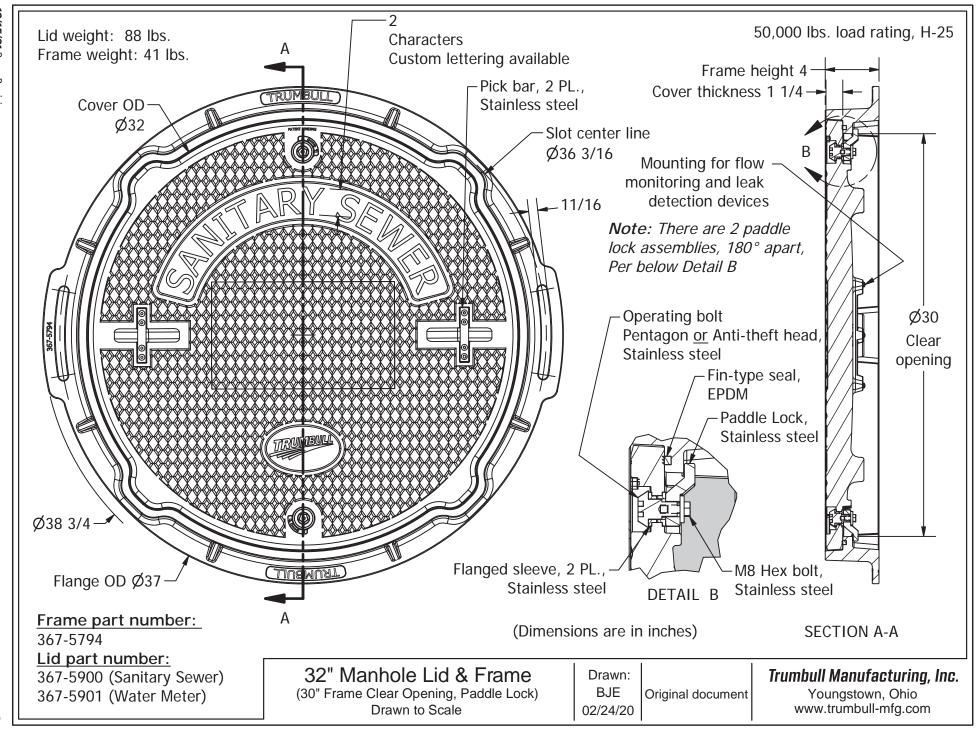
- Composite design can pass a 50,000 lb. proof load test per AASHTO M-306, H-25, yet weighs only one-third of comparable cast iron frame and lid, reducing back and finger injuries.
- Two lid fastening styles available.
- All hardware is stainless steel, along with the composite construction provides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

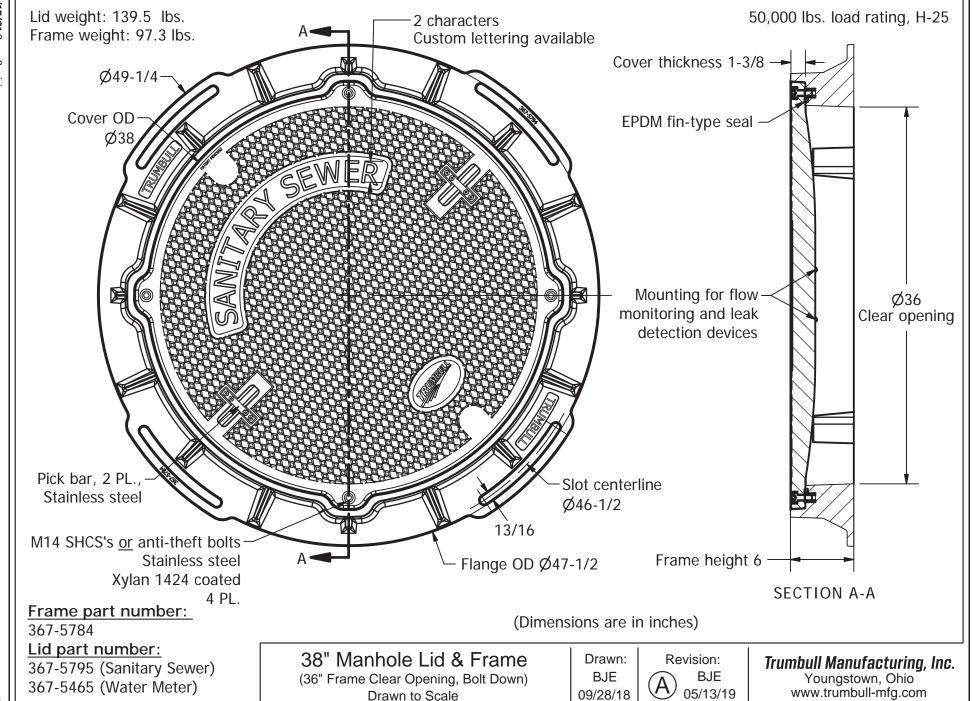
For dimensions, load ratings and additional options, refer to the product information chart on page 28 (WATER METER) and page 46 (SANITARY SEWER).

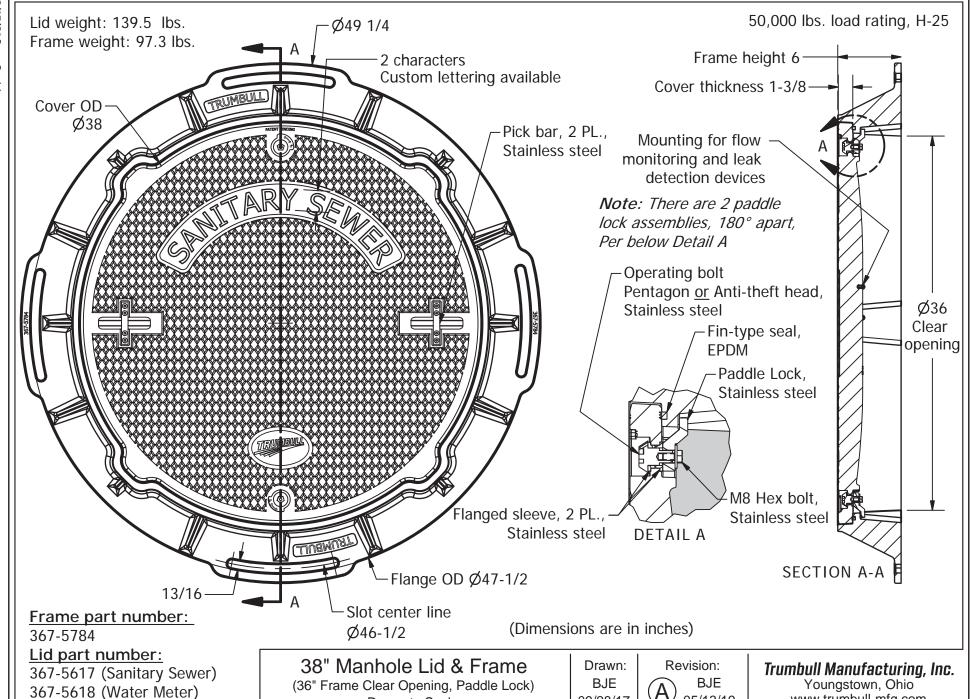












Drawn to Scale

09/28/17

05/13/19

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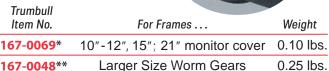
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Additional Security for Meter and Manhole Lids

Security Bolts

Made from stainless steel

For Worm Gear Lids



For Paddle-Lock Frames and Covers

| Trumbull Item No. | For Frames | Weight |
|----------------------|--------------------|-----------|
| 167-0062* | Paddle-Lock Covers | 0.10 lbs. |



| Trumbull Item No. | Description | Weight |
|----------------------|--------------------|-----------|
| 167-0070 | Key Only | 0.18 lbs. |
| spec/ord. | Key, with T-Handle | |

^{* 316} Stainless Steel

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

| Trumbull Item No. | Frame | Weight |
|----------------------|-------------------------------|-----------|
| 167-0146 | M14-2.0 x 30MM Security Screw | 0.10 lbs. |
| 167-0148 | M14-2.0 x 35MM Security Screw | 0.10 lbs. |

| D | on't get the |
|---|-------------------|
| | stom EY |

| Trumbull Item No. | Frame | Weight |
|----------------------|--------------------|-----------|
| 167-0152 | Key Only | 0.15 lbs. |
| 367-4403 | Key, with T-Handle | |

RELATED PRODUCT

Manhole Cover Hooks

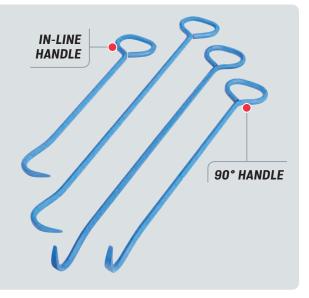
Trumbull Manhole Cover Hooks are made of 5/8" hexagonal steel. The 1/2" point engages the lid of the manhole cover. Painted in Safety Blue enamel paint for safety and durability. Product shown in more detail on Catalog page A-3.

In-Line Handle

| Trumbull Item No. | Overall Length | Weight |
|----------------------|-------------------|-----------|
| 367-4286 | 24" | 3.35 lbs. |
| 367-4290 | 36″ | 4.50 lbs. |

90° Handle

| Trumbull Item No. | Overall Length | Weight |
|----------------------|-------------------|-----------|
| 367-4288 | 30" | 3.85 lbs. |
| 367-4289 | 36" | 4.45 lbs. |



^{** 17-4} Stainless Steel



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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.







EPDM SEAL

prevents infiltration

4 WORM GEAR RECESSES

allow cover to be placed in any of 4 directions

WIDE FLANGE DIAMETER

FRAME SLOTS

WATER

allow easy handling and anchoring to manhole

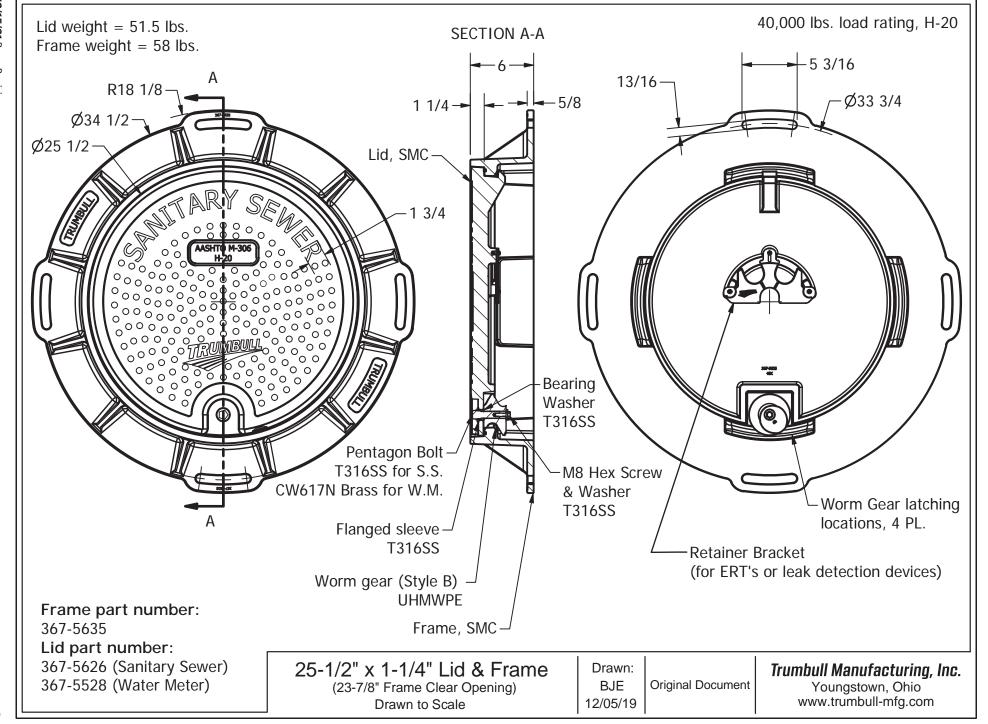


SANITARY

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

| | | - Olivia | | FRAME | SEWER LID | METER LID | |
|-----------|-------------------------------------|----------|----------------------|----------------------|----------------------|----------------------|-----------------|
| Flange OD | Dimensions of Lids that will Fit | Height | Locking Mechanism | Trumbull Item No. | Trumbull Item No. | Trumbull Item No. | Total Weight |
| 34-1/2" | 25-1/2" x 1-1/4" | 6″ | Worm Gear | 367-5635 | 367-5626 | 367-5528 | 109.50 lbs. |

For dimensions, load ratings and additional options, refer to the product information chart on page 26 (WATER METER) and page 45 (SANITARY SEWER).





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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.



CANITADV

WATED



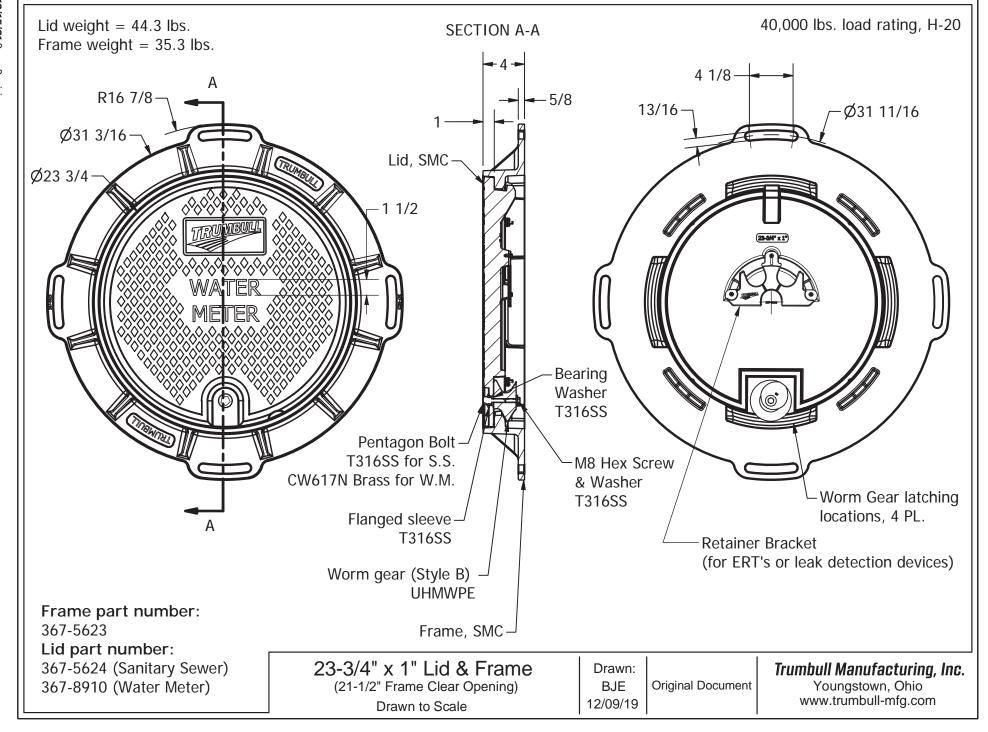


allow up to 4 Badger LTE Adapters to risk of ripping wire when removing lid or damage to endpoint



| | | | | FRAME | SEWER LID | METER LID | |
|-----------|-------------------------------------|--------|----------------------|----------------------|----------------------|----------------------|-----------------|
| Flange OD | Dimensions of Lids that will Fit | Height | Locking Mechanism | Trumbull Item No. | Trumbull Item No. | Trumbull Item No. | Total Weight |
| 31-3/16" | 23-3/4" x 1" | 4" | Worm Gear | 367-5623 | 367-5624 | 367-8910 | 79.60 lbs. |

For dimensions, load ratings and additional options, refer to the product information chart on page 24 (WATER METER) and page 45 (SANITARY SEWER).





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.

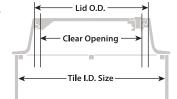
Lettering: Lids normally furnished marked "SANITARY SEWER", special lettering available.

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.



| Lid Dimensions Types and | s, Load Ratings, d Materials | Fits Frame Types | SOLID LID No Antenna Recess |
|--|---|---|--------------------------------------|
| 21-3/8" OD Clear Opening: 19-13/16" Rim Thickness: 15/16" | 40,000 lbs. / Composite DROP-IN STYLE Solid Lid* with Pick Hole Retainer Bracket | Capitol Foundry #14000-10 Richmond, VA | 367-5695 28.60 lbs. |
| "SEWER" 22-3/4" OD Clear Opening: 21" | 40,000 lbs. / Composite | EJ 1020, | 367-5619 45.70 lbs. |
| Rim Thickness: 1-11/16" 23-3/4" ND | Solid Lid* Retainer Bracket 40,000 lbs. / Composite | Neenah R-1580 | 367-5622 |
| Clear Opening: 21-1/2" Rim Thickness: 1" | DUCTILE IRON WORM GEAR " Solid Lid* Retainer Bracket | EJ 1450 and 1690 Neenah R-1771, Neenah R-1785 | 44.80 lbs. |
| 23-3/4" OD Clear Opening: 21-1/2" Rim Thickness: 1" | 40,000 lbs. / Composite UHMWPE WORM GEAR Solid Lid* Retainer Bracket | Trumbull Frame 367-5623 | 367-5624 44.80 lbs. |
| 25-1/4" 00 Clear Opening: 22-3/4" Rim Thickness: 2" "Sanitary Sewer" | 40,000 lbs. / Composite DUCTILE IRON WORM GEAR Solid Lid* Retainer Bracket | EJ 1700 | 367-5686 63.50 lbs. |
| 25-1/4" OD Clear Opening: 22-3/4" Rim Thickness: 2" "CONFINEO SPACE NEORSO" | 40,000 lbs. / Composite DUCTILE IRON WORM GEAR Solid Lid* Retainer Bracket | EJ 1700 | 367-5687 <i>63.50 lbs.</i> |

| Continued on the righ | ١t |
|-----------------------|----|

| Lid Dimensions Types and | Lid Dimensions, Load Ratings, Types and Materials | | SOLID LID No Antenna Recess |
|--|---|--|---|
| 25-1/2" 00 Clear Opening: 24-3/16" Rim Thickness: 1-1/4" | 40,000 lbs. / Composite DUCTILE IRON WORM GEAR Solid Lid* Retainer Bracket | EJ 1040, 1045, 1048 and 1705 | 367-5625 54.00 lbs. |
| 25-1/2" 00 Clear Opening: 24-3/16" Rim Thickness: 1-1/4" | 40,000 lbs. / Composite UHMWPE WORM GEAR *** Solid Lid* Retainer Bracket | Trumbull Frame 367-5635 6" height | 367-5626 54.00 lbs. |
| 25-1/2" DD Clear Opening: 24-3/16" Rim Thickness: 1-1/4" "CITY OF TACOMA CONFINED SPACE" | 40,000 lbs. / Composite UHMWPE WORM GEAR *** Solid Lid* Retainer Bracket | Trumbull Frame 367-5635 6" height | 367-5627 54.00 lbs. |
| 35-27/32" OD Clear Opening: 34" Rim Thickness: 1.44" "CONFINED SPACE NEORSD" | 40,000 lbs. / Composite DROP-IN STYLE Solid Lid* Retainer Bracket | EJ 1585, Neenah R-1752 | 367-5714 131.30 lbs. 25 pcs minimum order quantity |
| 35-27/32" OD Clear Opening: 34" Rim Thickness: 1.44" | 40,000 lbs. / Composite DROP-IN STYLE Solid Lid* Retainer Bracket | EJ 1585, Neenah R-1752 | 367-5716 131.30 lbs. 25 pcs minimum order quantity |



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.

| Lid Dimensions, Load Ratings, Types and Materials | | Fits Frame Types BOLT DOWN STYLE | | PADDLE LOCK STYLE | | |
|--|--|--|--|---|--|--|
| 23-3/4" OD Clear Opening: 21-1/2" ID Rim Thickness: 1" | 50,000 lbs. / Composite BOLT-DOWN STYLE OR PADDLE LOCK STYLE Solid Lids* Only | Trumbull Frame 367-5468 4" height | 367-5789 66.10 lbs. Frame and Cover | | | |
| 26" OD Clear Opening: 24" ID Rim Thickness: 1" | 50,000 lbs. / Composite BOLT-DOWN STYLE OR PADDLE LOCK STYLE Solid Lids* Only | Trumbull Frame 367-5705 4" height | 367-5701 93.00 lbs. Frame and Cover | 367-5706 Same as 367-5793 except has lettering "STORM DRAIN" | 367-5703 93.00 lbs. Frame and Cover | |
| 32" OD Clear Opening: 30" ID Rim Thickness: 1-1/4" | 50,000 lbs. / Composite BOLT-DOWN STYLE OR PADDLE LOCK STYLE Solid Lids* Only | Trumbull Frame 367-5794 4" height | 367-5792 129.00 lbs. Frame and Cover | | 367-5900 129.00 lbs. Frame and Cover | |
| 38" OD Clear Opening: 36" ID Rim Thickness: 1-1/2" | 50,000 lbs. / Composite BOLT-DOWN STYLE OR PADDLE LOCK STYLE Solid Lids* Only | Trumbull Frame 367-5784 6" height | 367-5795 236.80 lbs. Frame and Cover | | 367-5617 236.00 lbs. Frame and Cover | |
| | | | J | | | |
| | | | EEEE | | | |



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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.

| TRUMBULL# | SIZE OF METER | LAYING LENGTH | WEIGHT |
|-----------|--|---------------|-----------|
| 368-0590 | Coupling, 1/2" (for 5/8" x 3/4" & 3/4" meters) | 2-3/8" | 0.44 lbs. |
| 368-0591 | Coupling, 1/2" (for 5/8" x 1/2" meters) | 2-3/8" | 0.25 lbs. |
| 368-0646 | Coupling, 1/2" (for 5/8" x 3/4" & 3/4" meters) | 1-5/8" | 0.40 lbs. |
| 368-0593 | Coupling, 3/4" (for 5/8" x 3/4" & 3/4" meters) | 2" | 0.45 lbs. |
| 368-0592 | Coupling, 3/4" (for 5/8" x 3/4" & 3/4" meters) | 2-1/2" | 0.50 lbs. |
| 368-0595 | Coupling, 1" | 2-5/8" | 0.70 lbs. |
| 368-0597 | Coupling, 1-1/2", less bushing** | 2-7/8" | 1.85 lbs. |
| 368-0598 | Coupling, 2", less bushing** | 3" | 2.65 lbs. |
| 368-0618 | Bushing, for 1-1/2" Coupling** | | 0.85 lbs. |
| 368-0619 | Bushing, for 2" Coupling** | | 1.20 lbs. |
| 379-1015 | Flange w/full-face gasket, 1-1/2" | | 2.00 lbs. |
| 379-1016 | Flange w/full-face gasket, 2" | | 2.45 lbs. |

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.

| | ZINC-PLATED FASTENERS | BRASS FASTENERS | STAINLESS FASTENERS |
|--------------------------------|--------------------------|--------------------|------------------------|
| DESCRIPTION | TRUMBULL# | TRUMBULL# | TRUMBULL# |
| Brass Meter Flange Kit, 1-1/2" | 379-2015 | 379-2025 | 379-2030 |
| Brass Meter Flange Kit, 2" | 379-2016 | 379-2026 | 379-2031 |



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

| TRUMBULL# | DESCRIPTION | WEIGHT |
|-----------|--|-----------|
| 367-5470 | Meter Yoke, for 5/8" meters | 3.65 lbs. |
| 367-5469 | Meter Yoke, for 5/8" x 3/4" meters | 4.20 lbs. |
| 367-5471 | Meter Yoke, for 3/4" meters | 4.60 lbs. |
| 367-5472 | Meter Yoke, for 1" meters | 7.30 lbs. |
| 368-0630 | Expansion Connection, for 5/8" meters | 0.72 lbs. |
| 368-0632 | Expansion Connection, for 5/8" x 3/4" or 3/4" meters | 0.93 lbs. |
| 368-0635 | Expansion Connection, for 1" meters | 1.61 lbs. |

Meter Adapters 🕼 💵





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

| | | ORIGINAL METER | | NEW METER | | QUANTITY | |
|-----------|-------|----------------|---------------|--------------------|----------------|----------|----------|
| TRUMBULL# | FORD# | METER SIZE | LAYING LENGTH | METER SIZE | LAYING LENGTH* | REQUIRED | WEIGHT |
| 368-0642 | A13 | 3/4" | 9" | 5/8" | 7-1/2" | 2 | 0.4 lbs. |
| 368-0643 | A14 | 1″ | 10-3/4" | 5/8" | 7-1/2" | 2 | 0.4 lbs. |
| 368-0639 | A23 | 3/4" | 9" | 5/8" x 3/4" | 7-1/2" | 1 | 0.4 lbs. |
| 368-0641 | A24 | 1″ | 10-3/4" | 5/8" x 3/4" & 3/4" | ** 7-1/2" | 2 | 0.6 lbs. |
| 368-0644 | A34 | 1″ | 10-3/4" | 3/4" | 7-1/2" | 2 | 0.4 lbs. |
| 368-0640 | A44 | 1″ | 10-3/4" | 3/4" x 1" | 9" | 1 | 0.7 lbs. |
| 379-1022 | A47 | 2" flange | 17" | 1" | 10-3/4" | 2 | 3.2 lbs. |

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.









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