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.



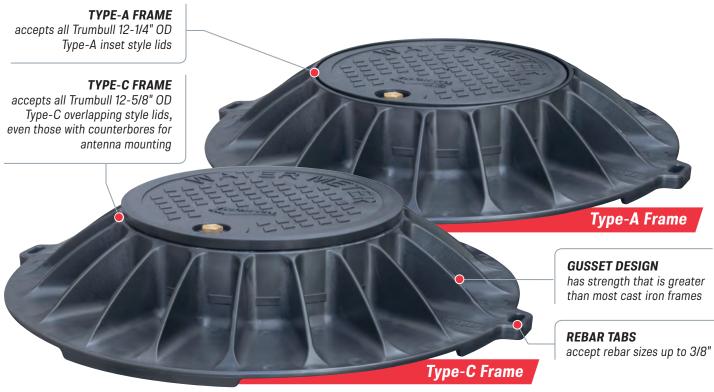
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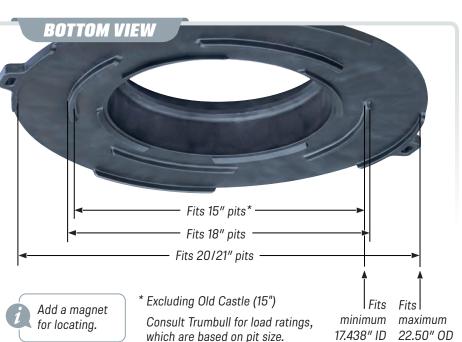
POLYMER Meter Pit Frames

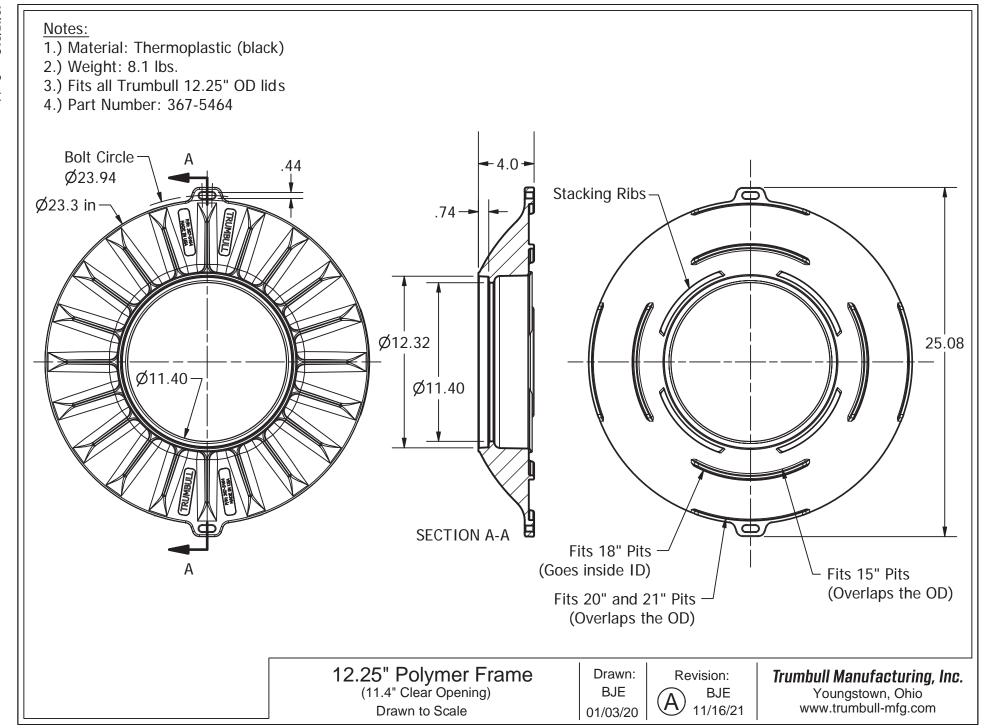
Fits on 15", 18", 20" and 21" Meter Pits





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





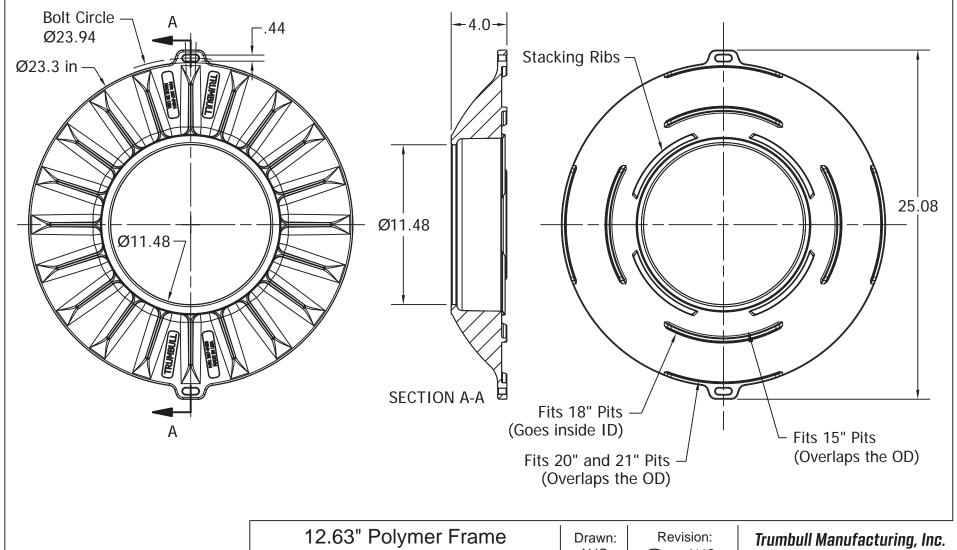
Notes: 1.) Mat 2.) We 3.) Fits

<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



3850 Hendricks Road, Youngstown, Ohio 44515

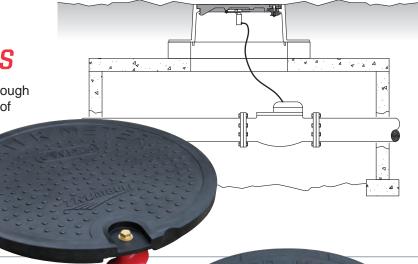
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COMPOSITE Manhole Lids for Large Meter Settings

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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Phone: **Toll Free:** 330.270.7888 | 877.504.1507 | 330.392.0756

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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.



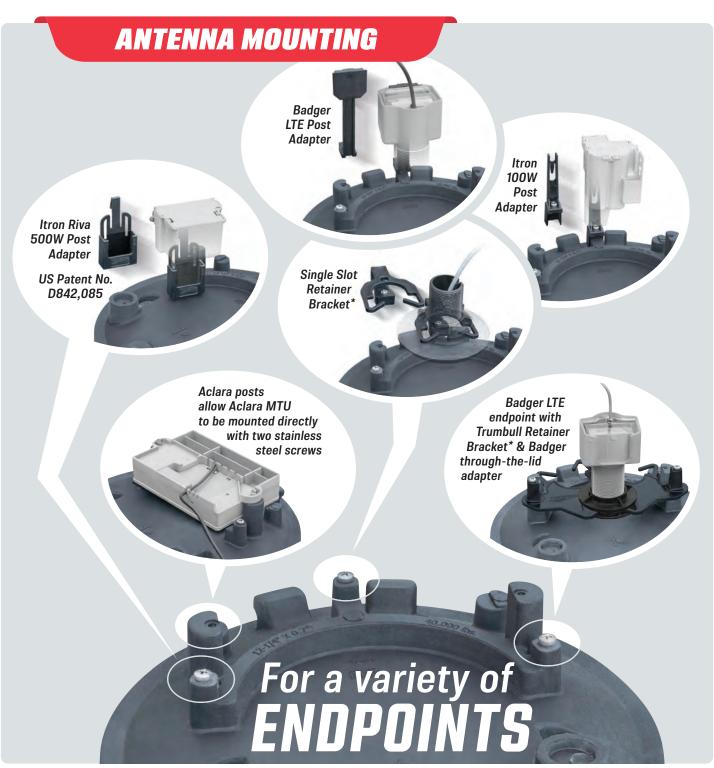
For dimensions, load ratings and additional options, refer to the product information chart on pages 18 - 28.



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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.

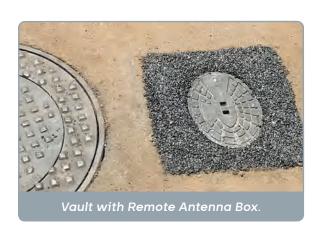


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Composite Oval Remote Antenna Box

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.

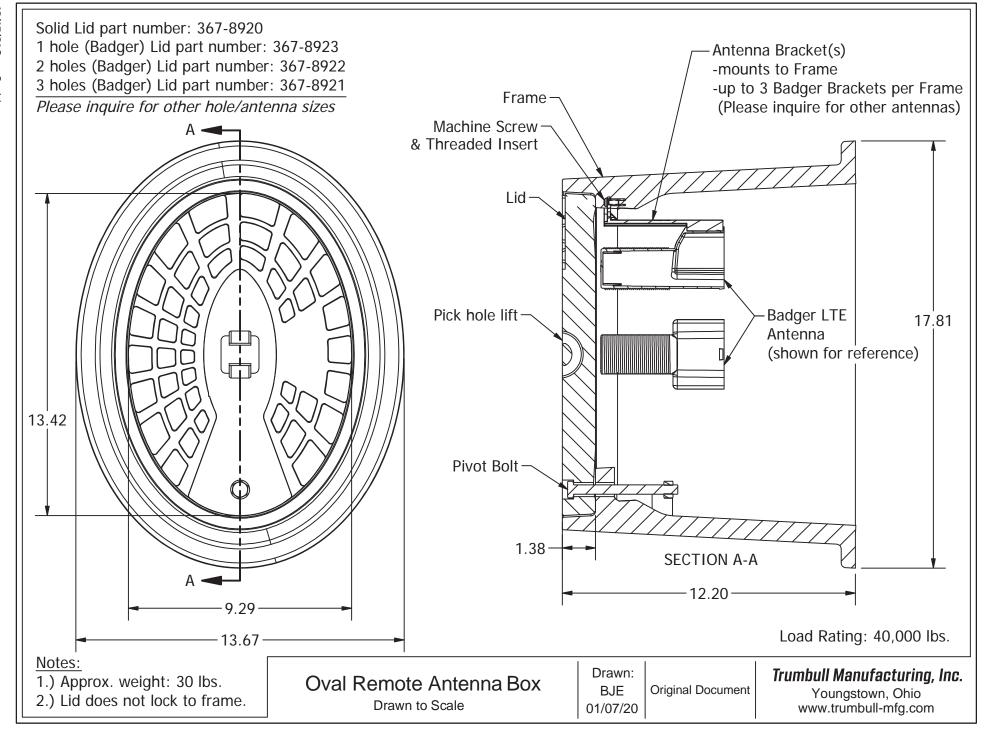
Made of durable SMC composite material. Box and solid lid are rated for a 40,000 lbs. test load, per AASHTO M-306, H-20. For load ratings with antenna holes throught the lid, please inquire.







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

Single Slot Retainer Bracket

Details shown on page 9

Trumbull	Mainh
Item No.	Weight
367-5782	0.05 lbs.

THROUGH HOLE for other TTL adapters

Through-the-Lid Antennas/Adapters

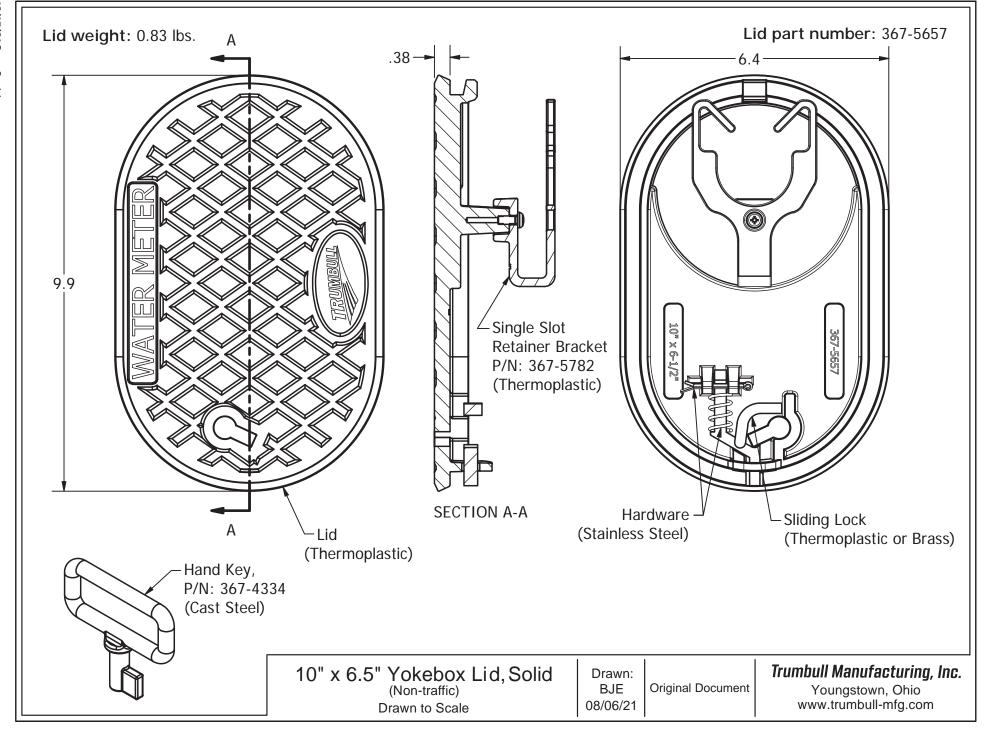
	5" Upper Yokebox	8" Upper Yokebox	10" Upper Yokebox
Badger	×	√	✓
Itron	×	\checkmark	√
Mueller	×	×	√
Sensus	×	×	\checkmark
Zenner	×	×	\checkmark
Neptune Kamstrup		of space for o	

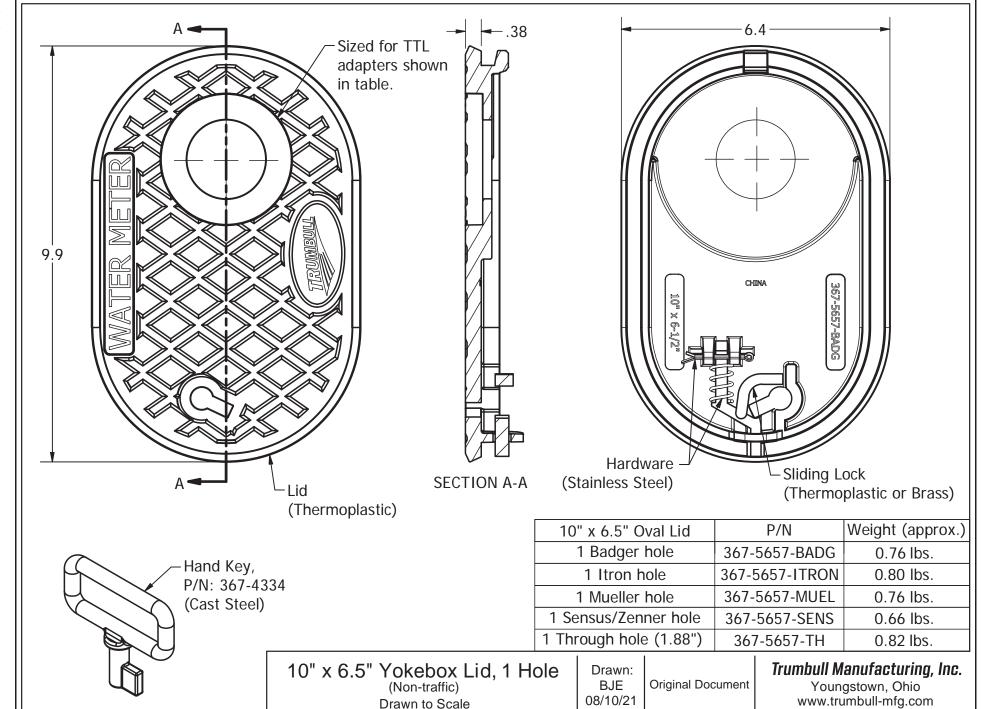
Single Slot Retainer Bracket (for Solid Lids)

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

Post Adapter (for Solid Lids)

Badger	×	√	✓
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	5" Diameter		18	8" Diamete	r
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.





Customer Information

Phone _____

Name

Company _____

Project Location _____

Manhole and Meter Pit Lid **FIELD SURVEY FORM**

NOTE: All dimensions to be taken from frame

New Cover Details

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"SANHARY SEWER"
"WATER METER"

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Oth	٠.	_			

LOAD RATING REQUIRED

	Не	avy [Outy A	ASHTO	M306,	H-20;	40,000	lbs
	B 4		ь.	00 000				

	Medium	Duty;	20,000	lbs.

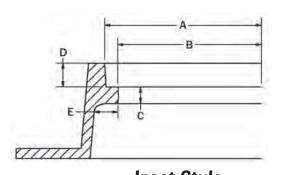
	Light	Duty;	5,000	lbs
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AMI/AMR Antenna & Leak Detection Mounting

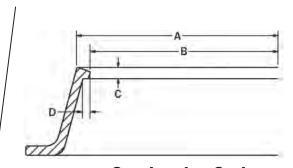
	Bracket	mounting	on	underside
--	---------	----------	----	-----------

\neg			1.1	
	Through-the-lid,	flush	with	grade
-				J

	Mfa	&	model	of	endpoint	İ
	IVIII	CX	HIUUCI	ΟI	CHUDUIH	ı



Inset Style



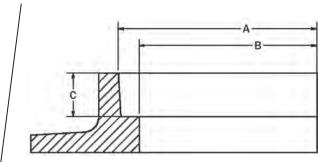
Frame Manufacturer Information

Frame Make & Model No. _____

Lid Make & Model No. ________

Lettering On Lid ______

Overlapping Style



Straight Wall ID Style

Lid Style	Address	Α	В	С	D	Е



OUR 20,000 LB. LIDS HAVE NOMINAL LOAD RATINGS:

Based on past load tests of specific sizes and lid configurations. When test reports are required, please inquire at the time of quote, stating the test load required and if lids will be solid or have a specific antenna counterbore. A separate testing charge may apply.

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 46.



	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
10-3/8" OD	Non-Traffic / Polymer		367-5530	367-5531	367-5532		367-5533	367-5534	367-5535
Clear Opening: 9-1/2" Rim Thickness: 0.65"	NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	Ford W2A	1.85 lbs.	1.75 lbs. 500 pcs min	1.77 lbs. 500 pcs min		1.80 lbs. 500 pcs min	1.73 lbs. 500 pcs min	1.77 lbs. 500 pcs min
10-3/8" OD	Non-Traffic / Polymer	Newport News	5901 TMI				5902 TMI		
Clear Opening: 9-1/2" Rim Thickness: 3/8" "NEWPORT NEWS WATERWORKS"	NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	Meter Box No. 1 and Capital Foundry	1.42 lbs. 500 pcs min				1.60 lbs. 500 pcs min		
10-3/8" OD	Non-Traffic / Polymer		367-5581				367-5581-MUEL		
Clear Opening: 9-1/2" Rim Thickness: 3/8"	NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	Capital Foundry	1.42 lbs. 500 pcs min				1.60 lbs. 500 pcs min		
11-7/8" OD	Non-Traffic / Composite		367-5639	367-5638					
Clear Opening: 10" Rim Thickness: 5/8"	DI WORM GEAR (1.5" OD) US Patent No. D858,797 Solid Lids* or MegaNet Antenna Recess	Clark Meter Box Frame	6.00 lbs.	5.60 lbs. MegaNet Recess (Not for Badger)					
11.91" OD	40,000 lbs. / Composite	Wilmington DE	367-5632						
Clear Opening: 10.7" Rim Thickness: 1"	DUCTILE IRON WORM GEAR Solid Lids* Only	Wilmington, DE (Old Style) Inner Lid	8.52 lbs.						
12-1/8" OD	Non-Traffic / Polymer		367-5660	367-5664	367-5666			367-5662	367-5659
Clear Opening: 11" Rim Thickness: 5/8"	NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	Mueller A and C	3.00 lbs. 500 pcs min	2.90 lbs. 500 pcs min	2.90 lbs. 500 pcs min			2.80 lbs. 500 pcs min	2.90 lbs. 500 pcs min



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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 46.

Clear Opening Tile I.D. Size

Lid O.D.

· · · · · · · · · · · · · · · · · · ·	A separate testing charge may apply.			BADGER 100W, RIVA		KAMSTRUP MUELLER		NEPTUNE^^ (FIGURE 8)	SENSUS OR ZENNER
	s, Load Ratings, d Materials	Fits Frame Types	SOLID LID No Antenna Recess	Antenna Recess Ø 3.13" x 0.41" dp	Antenna Recess Ø 2.84" x 0.26" dp	Antenna Recess Ø 5.06" x 0.50" dp	Antenna Recess Ø 3.36" x 0.33" dp	Antenna Recess Ø 4.63" x 0.43" dp	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	20,000 lbs. / 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 Tyler 6150	3.06 lbs.	2.70 lbs.	2.72 lbs.	2.52 lbs.	2.72 lbs.	2.59 lbs.	2.62 lbs.
12-1/4" OD	20,000 lbs. / Polymer	Ford A, C, and X		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	AY McDonald A and C Tyler 6150		2.53 lbs.	2.60 lbs.	2.14 lbs.	2.53 lbs.	2.27 lbs.	2.34 lbs.
12-1/4" OD	20,000 lbs. / Polymer		367-5764	367-5762	367-5760			367-5763	367-5761
Clear Opening: 11-1/2"	NYLON WORM GEAR	Ford A and C AY McDonald	3.14 lbs.	3.03 lbs.	3.07 lbs.			2.92 lbs.	2.97 lbs.
Rim Thickness: 0.7"	Solid Lids* or with 1 Antenna Recess	A and C	- Use - 367-5810	- Use - 367-5811	- Use - 367-5812			- Use - 367-5814	- Use - 367-5815
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	AY McDonald	3.04 lbs.	2.87 lbs.	2.91 lbs.			2.82 lbs.	2.87 lbs.
Rim Inickness: 0.7"	Solid Lids* or with 1 Antenna Recess	A and C Tyler 6150	- Use - 367-5810	- Use - 367-5811	- Use - 367-5812			- Use - 367-5814	- Use - 367-5815
12-1/4" OD	40,000 lbs. / Polymer	5 14 16	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	Ford A and C AY McDonald type A	3.93 lbs. 500 pcs min	3.81 lbs. 500 pcs min	3.85 lbs. 500 pcs min			3.71 lbs. 500 pcs min	3.73 lbs. 500 pcs min



OUR 20,000 LB. LIDS HAVE NOMINAL LOAD RATINGS:

Based on past load tests of specific sizes and lid configurations. When test reports are required, please inquire at the time of quote, stating the test load required and if lids will be solid or have a specific antenna counterbore. A separate testing charge may apply.

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

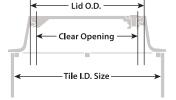
IORM GEARS: Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears.

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 46.



A separate testing cha	separate testing charge may apply.		60112112	24222	ITRON 60W,			NEPTUNE**	SENSUS
Lid Dimensions Types and	s, Load Ratings, I Materials	Fits Frame Types	SOLID LID No Antenna Recess	BADGER Antenna Recess Ø 3.13" x 0.41" dp	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
12-1/4" OD	40,000 lbs. / Composite		367-5518	367-5591	367-5519			367-5593	367-5592
Clear Opening: 11-1/2" Rim Thickness: 0.7"	DUCTILE IRON WORM GEAR Solid Lids* or with 1 Antenna Recess	Ford A and C AY McDonald type A	Available w/out Logo 367-5517 (40K) 9.54 lbs.	9.00 lbs.	9.01 lbs.			8.70 lbs.	8.71 lbs.
12-3/4" OD	Non-Traffic / Polymer	Newport News	4946 TMI				4945 TMI		
Clear Opening: 11-5/8" Rim Thickness: 3/8" "NEWPORT NEWS WATERWORKS"	NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	Meter Box No. 2 and Capital Foundry	Also available w/out NN Lettering (Non-Traffic) 2.20 lbs.				Also available wlout NN Lettering (Non-Traffic) 2.20 lbs.		
12.438" OD	Non-Traffic / Polymer		367-5719	367-5721	367-5722		367-5723	367-5724	367-5725
Clear Opening: 11" Rim Thickness: 0.65"	DROP-IN STYLE Solid Lids* or with 1 Antenna Recess	American Foundry, and misc.	3.30 lbs. 250 pcs min	3.10 lbs. 250 pcs min	3.10 lbs. 250 pcs min		2.90 lbs. 250 pcs min	2.90 lbs. 250 pcs min	3.00 lbs. 250 pcs min
12.438" OD	20,000 lbs. / Polymer		367-5720						
Clear Opening: 11" Rim Thickness: 0.65"	DROP-IN STYLE Solid Lid* Only	MO American	3.30 lbs. 250 pcs min						
12-5/8" OD	Non-Traffic / Polymer	Ford, AY McD,	367-5769						
Clear Opening: 11-1/2" Rim Thickness: 9/16"	NYLON WORM GEAR Solid Lid* or Machined Recess	Vestal and B&T Type C and Baltimore							
12-5/8″ OD	20,000 lbs. / Polymer	Ford, AY McD,	367-5767						
Clear Opening: 11-1/2" Rim Thickness: 9/16"	NYLON WORM GEAR Solid Lid* or Machined Recess	Vestal and B&T Type C and Baltimore	Antenna recesses can be machined in the lid, charges may apply. 3.08 lbs. Antenna recesses can be machined in the lid, charges may apply.						

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



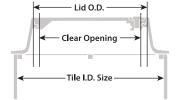
PENTAGON BOLTS: Water meter lids are normally furnished with standard (27/32") brass pentagon bolt, but are also available with large (1-1/32") brass pentagon bolt. Not furnished on drop-in style lids.

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 46.



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	
12-5/8" OD Clear Opening: 11-1/2"	40,000 lbs. / Composite	Ford, Vestal and B&T	367-5669							
Rim Thickness: 1"	Solid Lid* Only	Type C and Baltimore	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	25,000 lbs. / Composite		367-5650							
(Oval Shape Lid) Rim Thickness: 0.79"	DROP-IN STYLE Solid Lid* Only	MB-10 Oval	14.80 lbs.							
14" x 16" MB Dual Lid	Non-Traffic / Polymer		367-5594		367-5595					
(Rectangle Shape Lid) Clear Opening: 13" x 15-1/8" Rim Thickness: 1-1/2"	DROP-IN STYLE Solid Lids* or with 1 Antenna Recess	Brooks MB Dual Frame	7.70 lbs.		7.60 lbs.					
14" x 16" MB Dual Lid	Non-Traffic / Polymer				367-5596					
(Rectangle Shape Lid) Clear Opening: 13" x 15-1/8" Rim Thickness: 1-1/2"	DROP-IN STYLE 2 Antenna Recesses	Brooks MB Dual Frame			7.50 lbs.					
15.4" OD	Non-Traffic / Polymer		367-5644	367-5646	367-5648		367-5649	367-5645	367-5647	
Clear Opening: 14.7" Rim Thickness: 0.7"	UHMWPE WORM GEAR Solid Lids* or with 1 Antenna Recess	Mueller and AY McDonald Coil Pit Setter	5.65 lbs.	5.45 lbs.	5.45 lbs. 200 pcs min		5.45 lbs. 200 pcs min	5.35 lbs. 200 pcs min	5.40 lbs. 200 pcs min	
16-1/16" OD	Non-Traffic / Polymer	Vestal type A,	367-5771	367-5773 	367-5775			367-5772	367-5774	
Clear Opening: 15" Rim Thickness: 21/32"	NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	Ford type C, AY McDonald type C	6.04 lbs. 100 pcs min	5.96 lbs. 100 pcs min	6.01 lbs. 100 pcs min			5.76 lbs. 100 pcs min	5.84 lbs. 100 pcs min	



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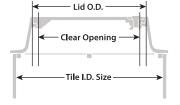
WORM GEARS: Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

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 46.



	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
16-3/16" OD Clear Opening: 15"	40,000 lbs. / Composite	B&T, Vestal, Ford, AY McDonald	367-5680						
Rim Thickness: 1"	Solid Lids* or with 1 Antenna Recess	type C and Baltimore	14.20 lbs.	Antenna recesses can be machined in the lid, charges may apply. Load ratings may vary depending on its size.					
17-1/4" OD	Non-Traffic / Polymer		367-5588	367-5588-BADG	367-5588-ITRON	367-5588-KAMS	367-5588-MUEL	367-5588-NEPT	367-5588-SENS
Clear Opening: 14" Rim Thickness: 0.5"	DROP-IN STYLE Solid Lids* or with 1 Antenna Recess	Flat Lid for 15" Plastic Pit	4.40 lbs. 250 pcs min	4.06 lbs. 250 pcs min	4.09 lbs. 250 pcs min	3.85 lbs. 250 pcs min	4.06 lbs. 250 pcs min	3.92 lbs. 250 pcs min	3.99 lbs. 250 pcs min
17-1/4" OD	Non-Traffic / Polymer			367-5588-2BADG	367-5588-2ITRON	367-5588-2KAMS	367-5588-2MUEL	367-5588-2NEPT	367-5588-2SENS
Clear Opening: 14" Rim Thickness: 0.5"	DROP-IN STYLE 2 Antenna Recesses	Flat Lid for 15" Plastic Pit		4.14 lbs. 250 pcs min	4.21 lbs. 250 pcs min	3.73 lbs. 250 pcs min	4.14 lbs. 250 pcs min	4.15 lbs. 250 pcs min	3.87 lbs. 250 pcs min
17-3/4" OD	Non-Traffic / Composite		367-5681						
Clear Opening: 16-1/8" Rim Thickness: 1-1/16" Cap Style Lid	DROP-IN STYLE Solid Lids* Only	Owosso Central Castings Co.	12.80 lbs.						
18-7/8" OD	40,000 lbs. / Composite		367-5615		367-5614				
Clear Opening: 18" Rim Thickness: 7/16"	DUCTILE IRON WORM GEAR Solid Lids* or with 1 Antenna Recess	18" AY McDonald Pit Setter	24.60 lbs.		23.90 lbs.				
19.35" OD	Non-Traffic / Polymer		367-5590	367-5590-BADG	367-5590-ITRON	367-5590-KAMS	367-5590-MUEL	367-5590-NEPT	367-5590-SENS
Clear Opening: 17" Rim Thickness: 0.56"	DROP-IN STYLE Solid Lids* or with 1 Antenna Recess	Flat Lid for 18" Plastic Pit	6.07 lbs.	5.71 lbs.	5.75 lbs. 200 pcs min	5.51 lbs. 200 pcs min	5.72 lbs. 200 pcs min	5.58 lbs. 200 pcs min	5.64 lbs.



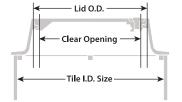
PENTAGON BOLTS: Water meter lids are normally furnished with standard (27/32") brass pentagon bolt, but are also available with large (1-1/32") brass pentagon bolt. Not furnished on drop-in style lids.

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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	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
19.35" OD	Non-Traffic / Polymer			367-5590-2BADG	367-5590-2ITRON	367-5590-2KAMS	367-5590-2MUEL	367-5590-2NEPT	367-5590-2SENS
Clear Opening: 17" Rim Thickness: 0.56"	DROP-IN STYLE 2 Antenna Recesses	Flat Lid for 18" Plastic Pit		5.80 lbs. 200 pcs min	5.87 lbs. 200 pcs min	5.39 lbs. 200 pcs min	5.80 lbs. 200 pcs min	5.54 lbs. 200 pcs min	5.66 lbs. 200 pcs min
19-3/4" OD	40,000 lbs. / Composite	EL 1505	367-5688						
Clear Opening: 18" Rim Thickness: 2-3/16"	DOUBLE PADDLE LOCK (DI) Solid Lids* Only	EJ 1525" Neenah R-1566 " Baltimore	33.00 lbs.						
19-13/16" OD	40,000 lbs. / Composite		367-5631						
Clear Opening: 18-1/2" Rim Thickness: 1" "CWD-2"	DUCTILE IRON WORM GEAR Solid Lids* Only	EJ 2990 Neenah R-1892	28.30 lbs.						
21-3/16" OD	Non-Traffic / Polymer	Faul and	367-5605	367-5605-BADG	367-5605-ITRON	367-5605-KAMS	367-5605-MUEL	367-5605-NEPT	367-5605-SENS
Clear Opening: 20" Rim Thickness: 0.77"	NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	Ford and AY McDonald Monitor Covers and Pit Rings	10.91 lbs.	10.81 lbs.	10.77 lbs.	10.57 lbs.	10.79 lbs.	10.63 lbs.	10.70 lbs.
21-3/16" OD	40,000 lbs. / Composite	Ford and	367-5610	367-5786	367-5788			367-5785	367-5787
Clear Opening: 20" Rim Thickness: 0.77"	DUCTILE IRON WORM GEAR Solid Lids* or with 1 Antenna Recess	AY McDonald Monitor Covers and Pit Rings	31.30 lbs.	30.60 lbs.	30.70 lbs.			30.50 lbs.	30.30 lbs.
21-3/4" OD	20,000 lbs. / Composite		367-5633						
Clear Opening: 20" Rim Thickness: 1-1/4"	DROP-IN STYLE Solid Lids* Only	Arlington, VA	23.10 lbs.						



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

/ORM 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.

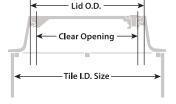
Not furnished on drop-in style lids.

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Lid Dimension Types an	Lid Dimensions, Load Ratings, Fits Frame Types and Materials 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	40,000 lbs. / Composite		367-8905						
Clear Opening: 21" Rim Thickness: 1-11/16"	DUCTILE IRON WORM GEAR Solid Lids* Only	EJ 1020 Neenah R-1580	45.70 lbs.						
23-3/4" OD	20,000 lbs. / Composite		367-5634						
Clear Opening: 22" Rim Thickness: 1"	DROP-IN STYLE Solid Lids* Only	Arlington, VA	26.30 lbs.						
23-3/4" OD	40,000 lbs. / Composite	FL14F0 L1000	367-8908						
Clear Opening: 21-1/2" Rim Thickness: 1"	DUCTILE IRON WORM GEAR *** Solid Lids* Only	T EI 1/150 and 1600	44.80 lbs.						
23-3/4" OD	40,000 lbs. / Composite	Trumbull Frame	367-8910						
Clear Opening: 21-1/2" Rim Thickness: 1"	UHMWPE WORM GEAR *** Solid Lids* Only	367-5623 4 Badger LTE Brackets in frame	44.80 lbs.						
23-3/4" OD	40,000 lbs. / Composite	Trumbull Frame	367-8912	367-8914					
Clear Opening: 21-1/2" Rim Thickness: 1" "AURORA"	UHMWPE WORM GEAR *** Solid Lids* or with 1 Antenna Recess	367-5623 4 Badger LTE Brackets in frame	44.80 lbs.	44.60 lbs. Non-Traffic					
23-3/4" OD	23-3/4" OD Non-Traffic / Composite			367-8916					
Clear Opening: 21-1/2" Rim Thickness: 1" "AURORA"	UHMWPE WORM GEAR *** 2 Antenna Recesses	Trumbull Frame 367-5623 4 Badger LTE Brackets in frame		44.50 lbs.					



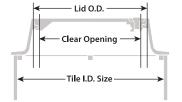
PENTAGON BOLTS: Water meter lids are normally furnished with standard (27/32") brass pentagon bolt, but are also available with large (1-1/32") brass pentagon bolt. Not furnished on drop-in style lids.

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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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 46.



	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
24" OD	Non-Traffic / Polymer		367-5597	367-5597-BADG	367-5597-ITRON	367-5597-KAMS	367-5597-MUEL	367-5597-NEPT	367-5597-SENS
Clear Opening: 19" Rim Thickness: 0.56"	DROP-IN STYLE Solid Lids* or with 1 Antenna Recess	Flat Lid for 20" and 21" Plastic Pit	8.57 lbs.	8.22 lbs.	8.25 lbs.	8.00 lbs.	8.22 lbs.	8.09 lbs.	8.15 lbs.
24" OD	Non-Traffic / Polymer			367-5597-2BADG	367-5597-2ITRON	367-5597-2KAMS	367-5597-2MUEL	367-5597-2NEPT	367-5597-2SENS
Clear Opening: 19" Rim Thickness: 0.56"	DROP-IN STYLE 2 Antenna Recesses	Flat Lid for 20" and 21" Plastic Pit		8.31 lbs.	8.38 lbs.	7.90 lbs.	8.32 lbs.	8.05 lbs.	8.17 lbs.
24-3/16" OD	40,000 lbs. / Composite		5218 TMI						
Clear Opening: 21" Rim Thickness: 3" "WSNY"	DUCTILE IRON WORM GEAR Solid Lids* Only T316SS Pentagon Bolt	NYC	60.50 lbs.						
25-1/4" OD	40,000 lbs. / Composite		367-5685						
Clear Opening: 22-3/4" Rim Thickness: 2"	DUCTILE IRON WORM GEAR Solid Lids* Only	EJ 1700	63.50 lbs.						
25-3/4" OD	40,000 lbs. / Composite	EL 4E 40 4E 4E 8	367-5698						
Clear Opening: 24" Rim Thickness: 2-1/2"	DOUBLE PADDLE LOCK (DI) Solid Lids* Only	EJ 1543/1545 " Neenah R-1565 " Baltimore	64.00 lbs.						
25-1/2" OD	40,000 lbs. / Composite		367-5527						
Clear Opening: 24-3/16" Rim Thickness: 1-1/4" "CWD"	DUCTILE IRON WORM GEAR *** Solid Lids* Only	EJ 1040, 1045, 1048 and 1705	54.00 lbs.						



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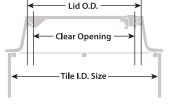
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Lid Dimensions. Types and		Fits Frame Types	SOLID LID No Antenna Recess	BADGER Antenna Recess Ø 3.13" x 0.41"dp	ITRON 60W, 100W, RIVA Antenna Recess Ø 2.84" x 0.26"dp	KAMSTRUP Antenna Recess Ø 5.06" x 0.50" dp	MUELLER Antenna Recess Ø 3.36" x 0.33" 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
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	367-5528 54.00 lbs.						
30-1/2" x 17-1/2" Rect.	Non-Traffic / Polymer	17" x 30"	367-5560	367-5562	367-5563	367-5582	367-5564	367-5565	367-5566
Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2"	DROP-IN STYLE Solid Lids* or with 1 Antenna Recess	Hubbell, Old Castle Polymer, & Old Castle Concrete	27.80 lbs.	27.60 lbs. 250 pcs min	27.60 lbs. 250 pcs min	27.40 lbs. 250 pcs min	27.60 lbs. 250 pcs min	27.40 lbs. 250 pcs min	27.50 lbs. 250 pcs min
30-1/2" x 17-1/2" Rect.	Non-Traffic / Polymer	17" x 30"		367-5572	367-5573	367-5584	367-5574	367-5575	367-5576
Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2"	ning: DROP-IN STYLE Hu 5-1/4" 2 Antenna Recesses Old Cast	Hubbell, Old Castle Polymer, & Old Castle Concrete		27.50 lbs. 250 pcs min	27.50 lbs. 250 pcs min	27.00 lbs. 250 pcs min	27.40 lbs. 250 pcs min	27.00 lbs. 250 pcs min	27.30 lbs. 250 pcs min
30-1/2" x 17-1/2" Rect.	Non-Traffic / Polymer	17" x 30"	367-5561	367-5567	367-5568	367-5583	367-5569	367-5570	367-5571
Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2"	BOLT-DOWN STYLE Solid Lids* or with 1 Antenna Recess	Hubbell, Old Castle Polymer, & Old Castle Concrete	27.70 lbs.	27.50 lbs. 250 pcs min	27.50 lbs. 250 pcs min	27.30 lbs. 250 pcs min	27.50 lbs. 250 pcs min	27.30 lbs. 250 pcs min	27.40 lbs. 250 pcs min
30-1/2" x 17-1/2" Rect.	Non-Traffic / Polymer	17" x 30"		367-5577	367-5578	367-5585	367-5579	367-5580	367-5581
Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2"	BOLT-DOWN STYLE 2 Antenna Recesses	Hubbell, Old Castle Polymer, & Old Castle Concrete		27.40 lbs. 250 pcs min	27.40 lbs. 250 pcs min	26.90 lbs. 250 pcs min	27.30 lbs. 250 pcs min	26.90 lbs. 250 pcs min	27.20 lbs. 250 pcs min
30-1/2" x 17-1/2" Rect.	40,000 lbs. / Composite	17" x 30"	367-5560-40K	367-5562-40K	367-5563-40K		367-5564-40K	367-5565-40K	
Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2"	DROP-IN STYLE Solid Lids* or with 1 Antenna Recess	Hubbell, Old Castle Polymer, & Old Castle Concrete	52.00 lbs. 25 pcs min	51.20 lbs. 25 pcs min	51.30 lbs. 25 pcs min		51.20 lbs. 25 pcs min	50.90 lbs. 25 pcs min	

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



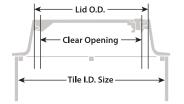
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	s, Load Ratings, I Materials	Fits Frame Types	SOLID LID No Antenna Recess	BADGER Antenna Recess Ø 3.13" x 0.41"dp	ITRON 60W, 100W, RIVA Antenna Recess Ø 2.84" x 0.26" dp	KAMSTRUP Antenna Recess Ø 5.06" x 0.50" dp	MUELLER Antenna Recess Ø 3.36" x 0.33" 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
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 min	367-5573-40K 51.00 lbs. 25 pcs min		367-5564-40K 50.90 lbs. 25 pcs min	367-5575-40K 50.20 lbs. 25 pcs min	
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 min	367-5567-40K 51.10 lbs. 25 pcs min	367-5568-40K 51.10 lbs. 25 pcs min		367-5569-40K 51.10 lbs. 25 pcs min	367-5570-40K 50.70 lbs. 25 pcs min	
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 min	367-5578-40K 50.80 lbs. 25 pcs min		367-5579-40K 50.80 lbs. 25 pcs min	367-5580-40K 50.00 lbs. 25 pcs min	
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 min						
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 min						
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 min						



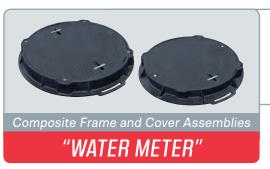
Hand Key 367-4334 \$7.00

Single Slot Retainer Bracket 367-5782

see pricing on pg 30

- Please inquire for TTL antenna and Bracket/Post Adapter fitment (it will vary on each installation)
- Sliding Lock normally furnished in nylon; add \$3.00 LIST for brass
- All other hardware is stainless steel
- Single slot retainer bracket can be used on other lids as well with posts

LID DIMENSIONS, Types and		FITS FRAME TYPE	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	MUELLER Antenna Recess Ø 3.36" x 0.33" dp	SENSUS OR ZENNER Antenna Recess Ø 4.11" x 0.41" dp	FUR "UTHER" TTL ADAPTERS NOT SHOWN Ø 1.88" Through Hole
10" x 6-1/2"	Non-Traffic / Polymer		367-5657	367-5657-BADG	367-5657-ITRON	367-5657-MUEL	367-5657-SENS	367-5657-TH
Clear Opening: 9.10" x 5.63" Rim Thickness: 0.38"	SLIDING LOCK Solid Lids* or with 1 Antenna Recess	Ford and AY McDonald Yokeboxes	0.83 lbs.	0.76 lbs. 500 pcs min	0.80 lbs. 500 pcs min	0.76 lbs. 500 pcs min	0.66 lbs. 500 pcs min	0.82 lbs. 500 pcs min



Pricing does not include retainer brackets or antenna adapters.

LETTERING: Lids normally furnished marked "WATER METER", special lettering available.

SEAL: All Frame & Cover Assemblies are sealed by an EPDM gasket. **BOLT DOWN LIDS:** Are secured to frames with four Xylan coated stainless screws, see page 30 for optional security screws.

PADDLE LOCK LIDS: Are secured to frame with pentagon bolt, see page 30 for optional security bolts.

ANTENNA MOUNTING OPTIONS: Shown in "Additional Notes" on page 29.

LID DIMENSION Types and	S, LOAD RATINGS, D MATERIALS	FITS FRAME TYPE	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 Solid Lids* Only	Trumbull Frame 367-5468	367-5790 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	367-5702 93.00 lbs. Frame and Cover	367-5704 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	367-5793 129.00 lbs. Frame and Cover	367-5901 129.00 lbs. Frame and Cover
32" OD Clear Opening: 30" ID Rim Thickness: 1-1/4" "WATER"	50,000 lbs. / Composite BOLT-DOWN STYLE Solid Lids* Only	Trumbull Frame 367-5794	367-5799 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	367-5465 236.80 lbs. Frame and Cover	367-5618 236.00 lbs. Frame and Cover



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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.

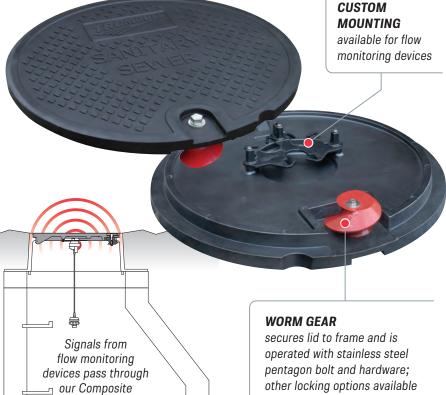


LOAD TESTED PER AASHTO M-306, H-20 - 40,000 lbs.

(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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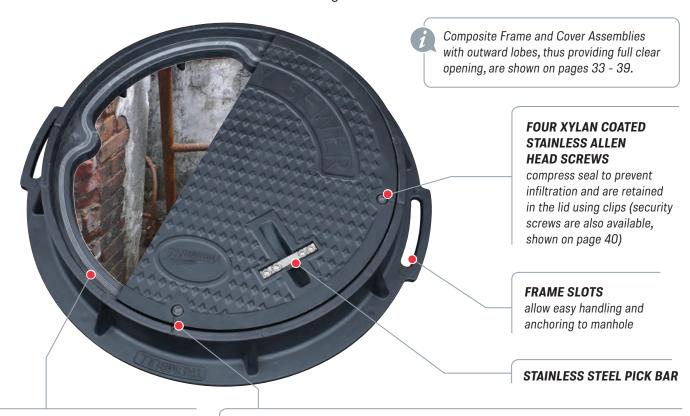
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Composite Manhole Frame and Cover Assembly

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.



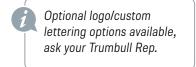
GROOVED DESIGN EPDM SEAL

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

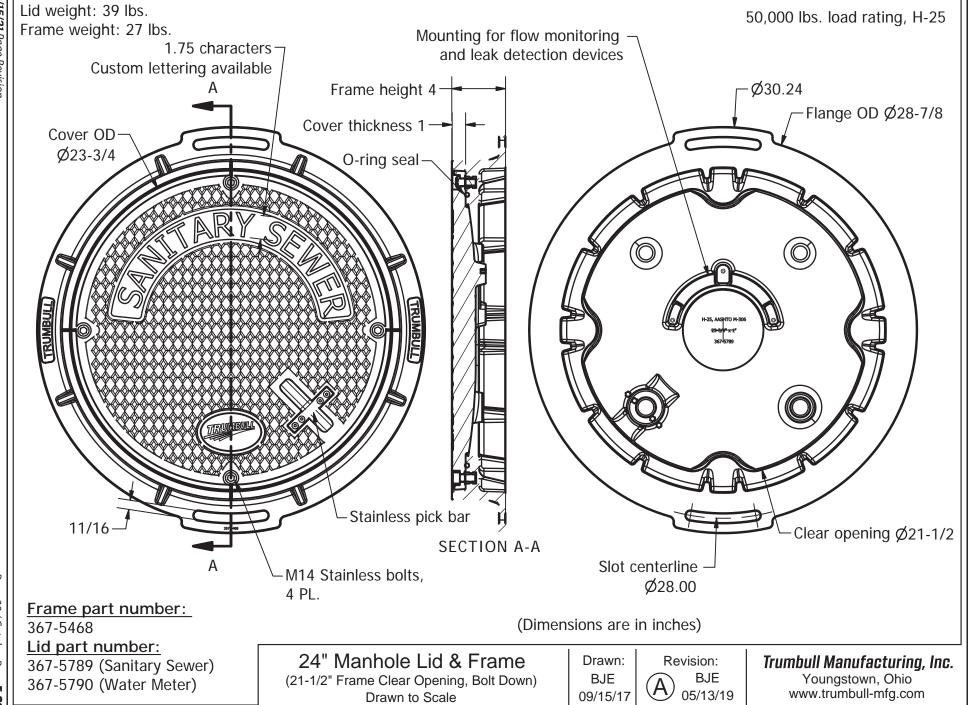
MATCHING ALIGNMENT INDICATORS - Patent No. US 10,240,317 B2

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

COVER STYLES

GROOVED DESIGN EPDM SEAL

prevents infiltration

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

WOFRSIDE PROD

OUTWARD LOBES

allow for precise bolt and paddle lock alignment

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.



allow easy handling and anchoring to manhole

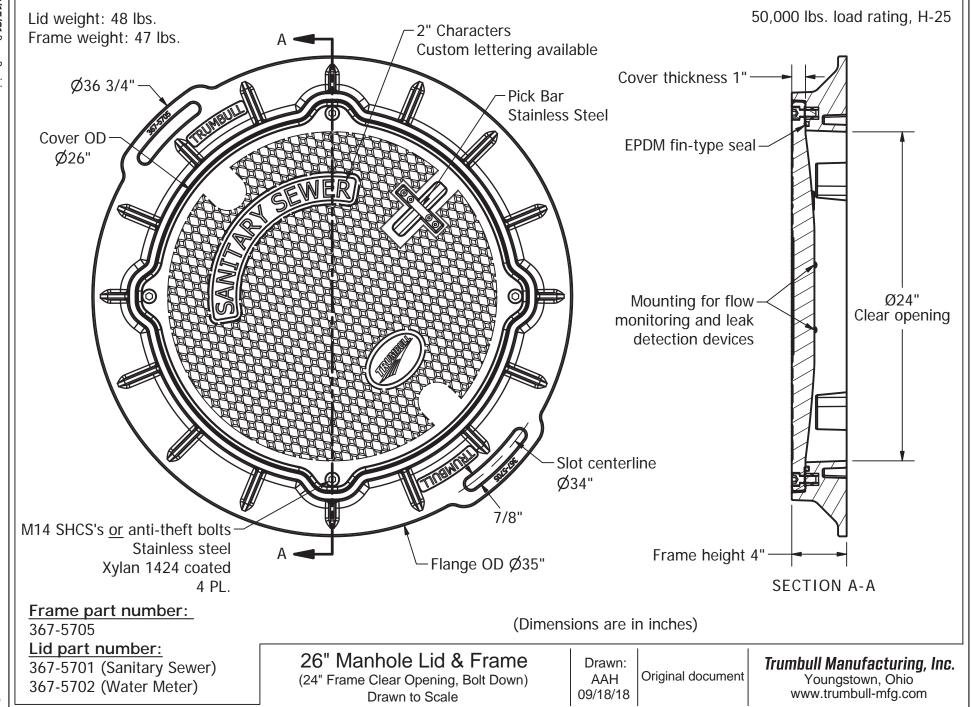


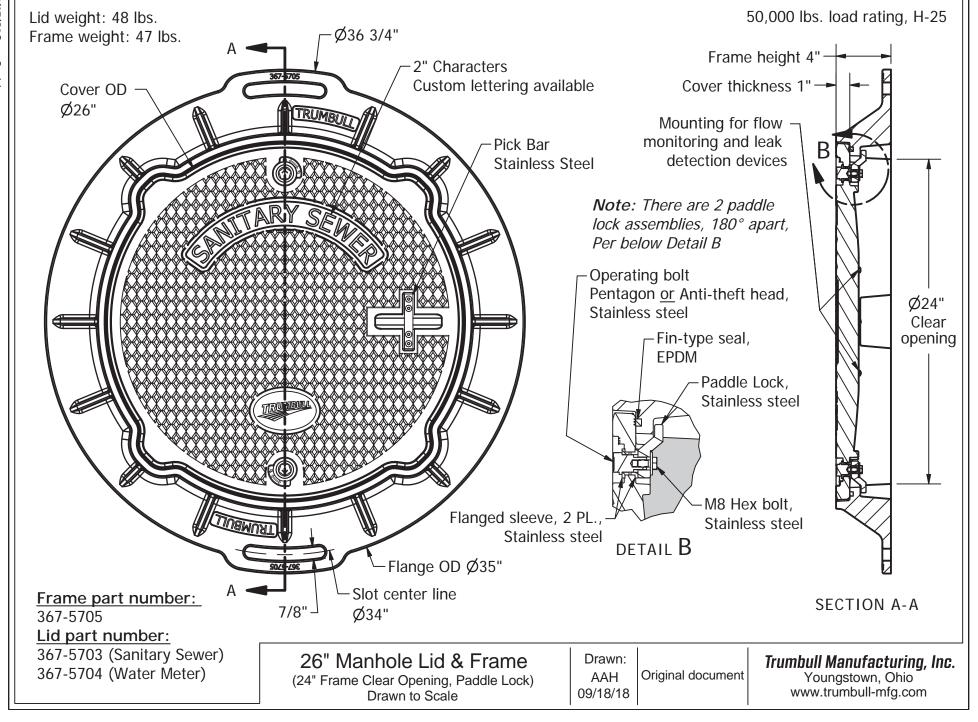
Additional security options available, shown on page 40.

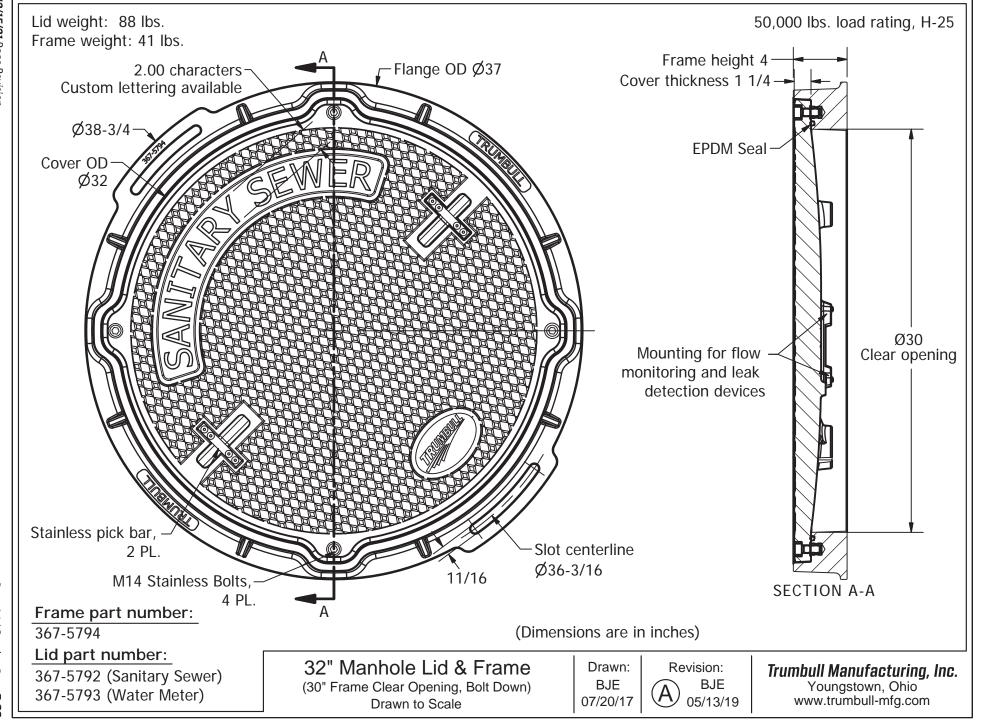
		FRAME	SANITARY SEWER LID	WATER METER LID	
Lid OD	Locking Mechanism	Trumbull Item No.	Trumbull Item No.	Trumbull Item No.	Total Weight
26"	Bolt Down	267 5705	367-5701	367-5702	93.00 lbs.
26"	Paddle Lock	367-5705	367-5703	367-5704	93.00 lbs.
32"	Bolt Down	267 5704	367-5792	367-5793	129.00 lbs.
32"	Paddle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

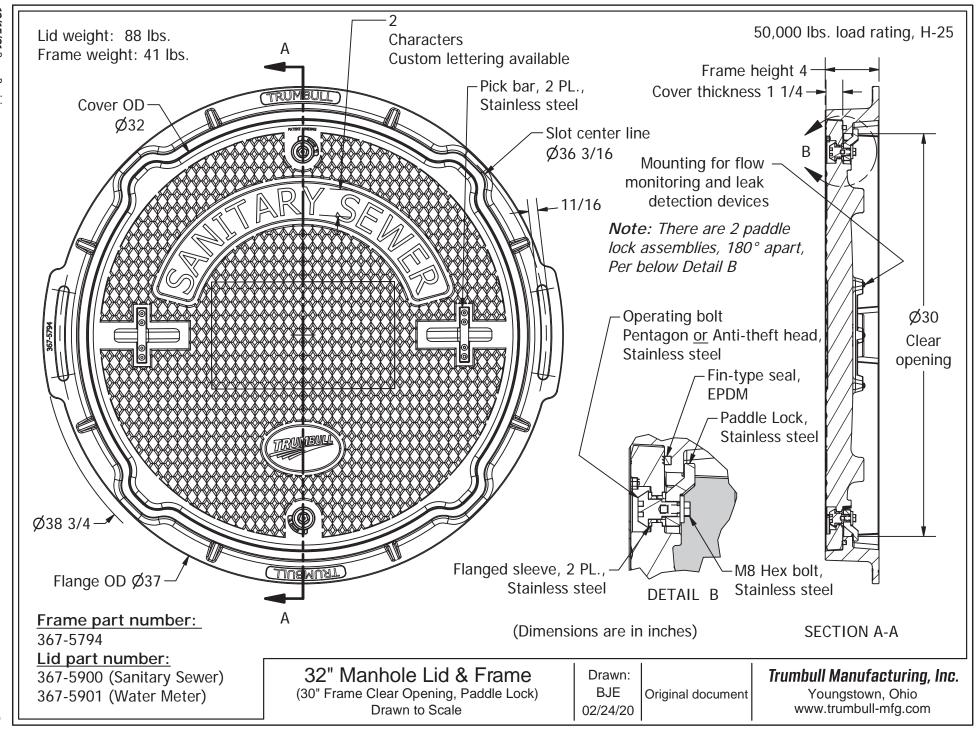
- Composite design can pass a 50,000 lb. proof load test per AASHTO M-306, H-25, yet weighs only one-third of comparable cast iron frame and lid, reducing back and finger injuries.
- Two lid fastening styles available.
- All hardware is stainless steel, along with the composite construction provides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

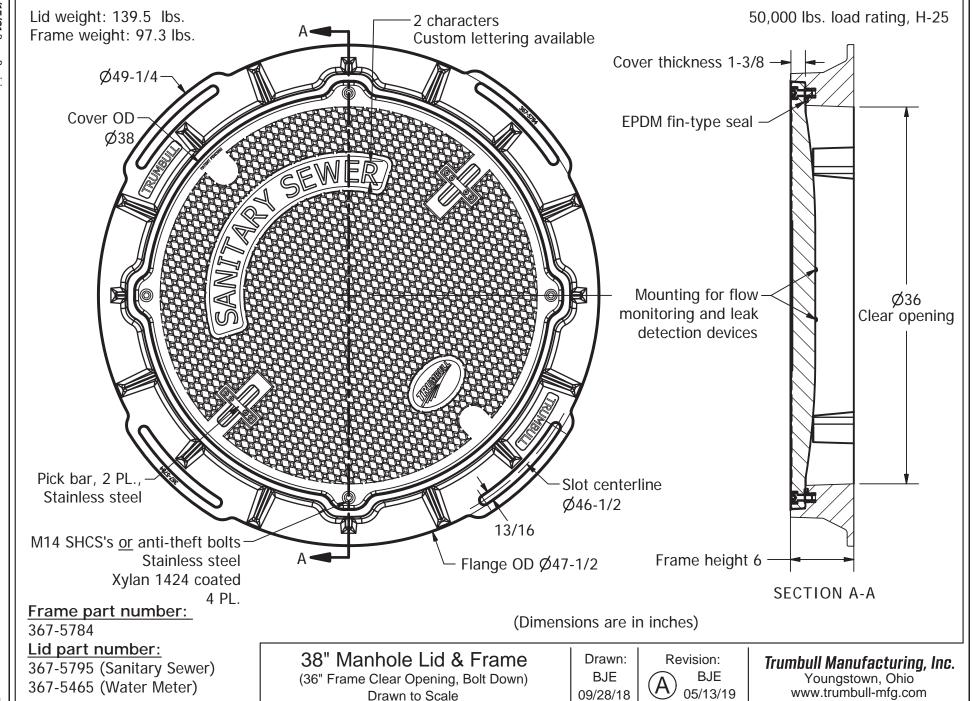
For dimensions, load ratings and additional options, refer to the product information chart on page 28 (WATER METER) and page 46 (SANITARY SEWER).

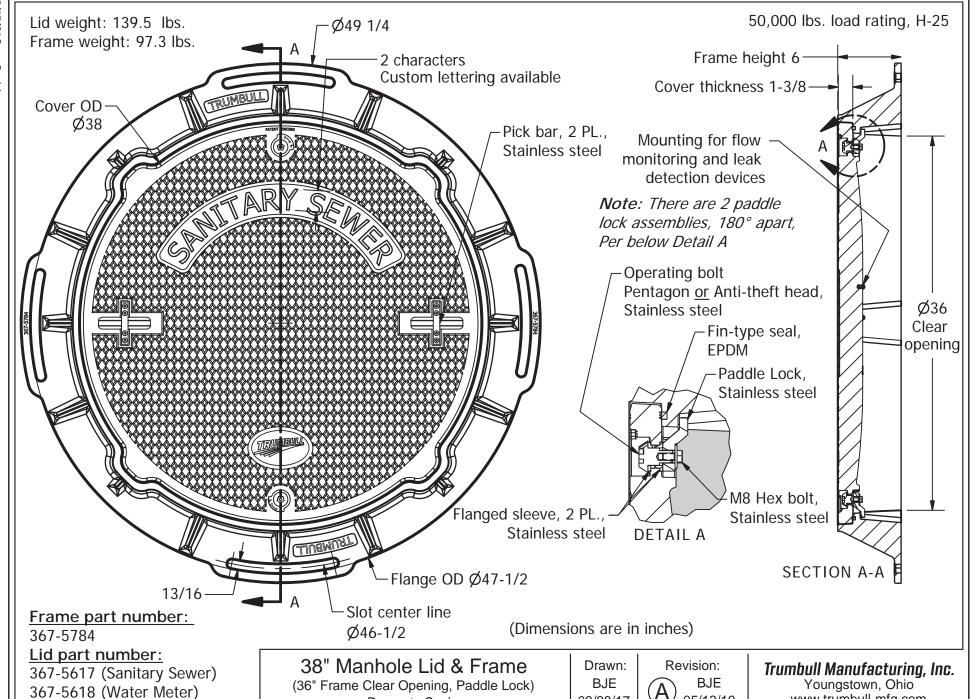












Drawn to Scale

09/28/17

05/13/19

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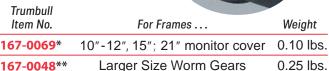
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Additional Security for Meter and Manhole Lids

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.				
167-0146	M14-2.0 x 30MM Security Screw	0.10 lbs.		
167-0148	M14-2.0 x 35MM Security Screw	0.10 lbs.		



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

RELATED PRODUCT

Manhole Cover Hooks

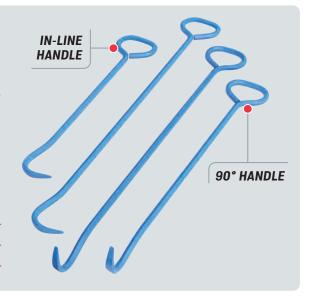
Trumbull Manhole Cover Hooks are made of 5/8" hexagonal steel. The 1/2" point engages the lid of the manhole cover. Painted in Safety Blue enamel paint for safety and durability. Product shown in more detail on Catalog page A-3.

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

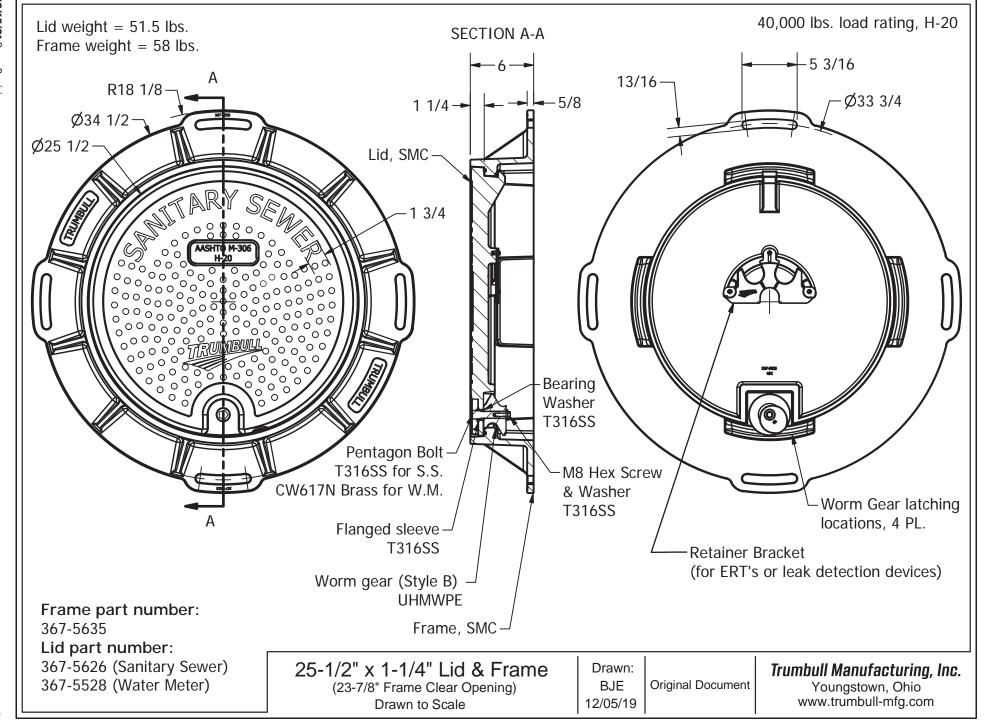


SANITARY

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

			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



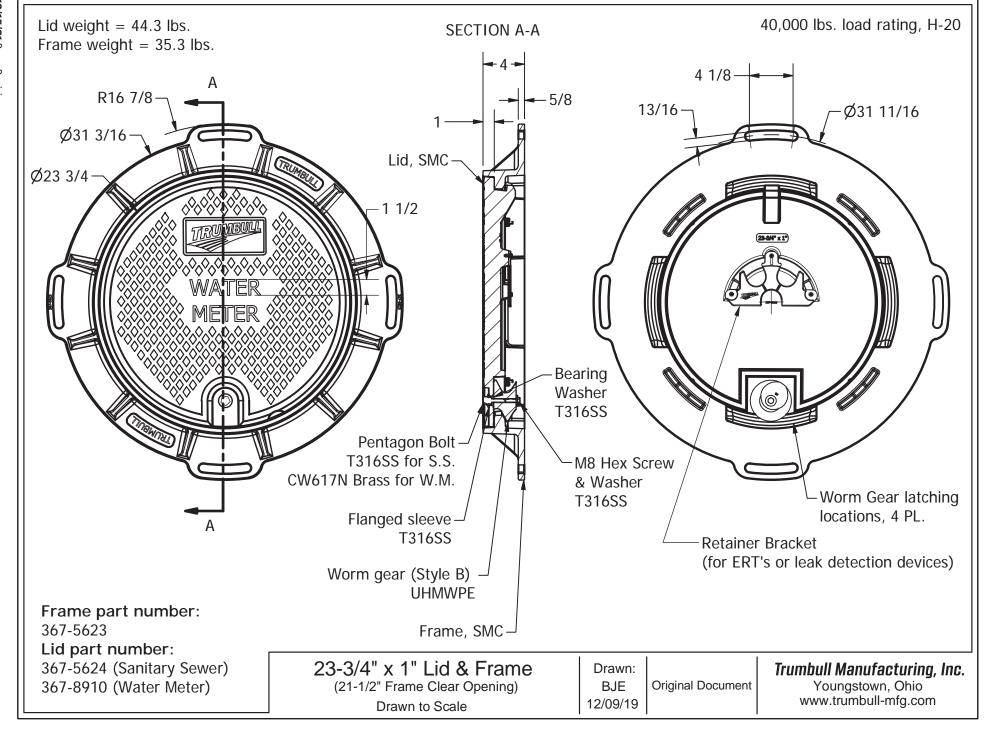


allow up to 4 Badger LTE Adapters to risk of ripping wire when removing lid or damage to endpoint



				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).





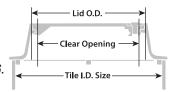
PENTAGON BOLTS: Sanitary sewer lids are normally furnished with standard (27/32") T316SS pentagon bolt. Not furnished on drop-in style lids.

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 46.



LID DIMENSION Types ani	S, LOAD RATINGS, I Materials	FITS FRAME TYPE	SOLID LID No Antenna Recess
21-3/8" OD Clear Opening: 19-13/16" Rim Thickness: 15/16" "SEWER"	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.
22-3/4" OD Clear Opening: 21" Rim Thickness: 1-11/16"	40,000 lbs. / Composite DUCTILE IRON WORM GEAR Solid Lid* Retainer Bracket	EJ 1020, Neenah R-1580	367-5619 45.70 lbs.
23-3/4" OD Clear Opening: 21-1/2" Rim Thickness: 1"	40,000 lbs. / Composite DUCTILE IRON WORM GEAR Solid Lid* Retainer Bracket	EJ 1450 and 1690 Neenah R-1771, Neenah R-1785	367-5622 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" OD 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" "CONFINED SPACE NEORSD"	40,000 lbs. / Composite DUCTILE IRON WORM GEAR Solid Lid* Retainer Bracket	EJ 1700	367-5687 63.50 lbs.

Continued	on	tho	riaht
Continued	UII	ıne	rignt.

LID DIMENSIONS Types and	, LOAD RATINGS, MATERIALS	FITS FRAME TYPE	SOLID LID No Antenna Recess
25-1/2" OD Clear Opening: 24-3/16"	40,000 lbs. / Composite	EJ 1040, 1045,	367-5625
Rim Thickness: 1-1/4"	Solid Lid* Retainer Bracket	1048 and 1705	54.00 lbs.
25-1/2" OD	40,000 lbs. / Composite		367-5626
Clear Opening: 24-3/16" Rim Thickness: 1-1/4"	UHMWPE WORM GEAR Solid Lid* Retainer Bracket	Trumbull Frame 367-5635	54.00 lbs.
25-1/2″ OD	40,000 lbs. / Composite		367-5627
Clear Opening: 24-3/16" Rim Thickness: 1-1/4" "CITY OF TACOMA CONFINED SPACE"	UHMWPE WORM GEAR Solid Lid* Retainer Bracket	Trumbull Frame 367-5635	54.00 lbs.
35-27/32" OD	40,000 lbs. / Composite		367-5714
Clear Opening: 34" Rim Thickness: 1.44" "CONFINED SPACE NEORSD"	DROP-IN STYLE Solid Lid* Retainer Bracket	EJ 1585, Neenah R-1752	131.30 lbs. 25 pcs min
35-27/32" OD	40,000 lbs. / Composite		367-5716
Clear Opening: 34" Rim Thickness: 1.44"	DROP-IN STYLE Solid Lid* Retainer Bracket	EJ 1585, Neenah R-1752	131.30 lbs. 25 pcs min

Pricing does not include retainer brackets or antenna adapters (see page 30).



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 30 for optional security screws.

PADDLE LOCK LIDS: Are secured to frame with pentagon bolt, see page 30 for optional security bolts.

	S, LOAD RATINGS, D MATERIALS	FITS FRAME TYPE	BOLT DOWN STYLE	PADDLE LOCK Style
23-3/4" OD	50,000 lbs. / Composite		367-5789	
Clear Opening: 21-1/2" ID Rim Thickness: 1"	BOLT-DOWN STYLE Solid Lids* Only	Trumbull Frame 367-5468	66.10 lbs. Frame and Cover	
26" OD	50,000 lbs. / Composite		367-5701	367-5703
Clear Opening: 24" ID Rim Thickness: 1"	BOLT-DOWN STYLE OR PADDLE LOCK STYLE Solid Lids* Only	Trumbull Frame 367-5705	93.00 lbs. Frame and Cover	93.00 lbs. Frame and Cover
32" OD	50,000 lbs. / Composite		367-5792	367-5900
Clear Opening: 30" ID Rim Thickness: 1-1/4"	BOLT-DOWN STYLE OR PADDLE LOCK STYLE Solid Lids* Only	Trumbull Frame 367-5794	129.00 lbs. Frame and Cover	129.00 lbs. Frame and Cover
38" OD	50,000 lbs. / Composite		367-5795	367-5617
Clear Opening: 36" ID Rim Thickness: 1-1/2"	BOLT-DOWN STYLE OR PADDLE LOCK STYLE Solid Lids* Only	Trumbull Frame 367-5784	236.80 lbs. Frame and Cover	236.00 lbs. Frame and Cover

"ADDITIONA"

* 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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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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