Trumbull Manufacturing

www.trumbull-mfg.com

2026

MANHOLE COVER & METER PIT LIDS

MANHOLE COVERS, FRAMES & ASSEMBLIES | METER PIT LIDS & FRAMES



CALL OUR SALES TEAM

877.504.1507

CONTACT INFORMATION

To find the Regional Sales Manager for your area, and their contact information, please scan the QR code or review our Rep Locator Map.

NAME	POSITION	EMAIL	PHONE	FAX
SHARON PALO	Inside Sales Manager	sharon.palo@trumbull-mfg.com	330-393-1293	330-392-1393
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LISA BLAIR	Customer Service Rep	lisa.blair@trumbull-mfg.com	330-392-1352	330-392-0756
CHRIS MENSINGA	National Sales Manager	chris.mensinga@trumbull-mfg.com	585-831-2053	330-392-0756
SCOTT GREAVER	Plant Manager	scott.greaver@trumbull-mfg.com	330-393-1291	330-392-0756
ADAM KANE	Treatment Plant Quotations	adam.kane@trumbull-mfg.com	330-392-1397	330-392-0756
GRACE LISTE	Catalogs, Literature, Invoicing	grace.liste@trumbull-mfg.com	330-392-1366	330-392-0756
DENNIS TAGUE II	Manager, Digital Marketing		409-490-1662	330-392-0756

INTERNATIONAL DISTRIBUTORS

NAME	COUNTRY	EMAIL / WEBSITE	PHONE	FAX / MOBILE
ACRODYNE PTY LTD	Australia	www.acrodyne.com.au	+61 (3) 8727-7800	F: +61 (3) 9729-8699
MIRANOX ARMATUREN GMBH	Germany	armaturen@miranox.de www.miranox.de	+49 (0) 391 52 08 93 74	M: +49 (0) 151 43 20 43 88
H N SUPPLIES	United Kingdom	info@stainlesschainwheels.co.uk www.stainlesschainwheels.com	+44 (0) 1743 792355	F: +44 (0) 1743 792471
DIANE ROGERS	International, Other Than Shown	diane.rogers@trumbull-mfg.com	+1 330-270-7878	F: +1 330-270-3078

3850 Hendricks Rd.
Youngstown, OH 44515
Phone: 877-504-1507
Fax: 330-392-0756

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COMPOSITE AND POLYMER METER BOX LIDS

Allow Radio Signals to be Read in AMR and AMI Systems

SLIP-RESISTANT SURFACE
ADA Compliant

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

POSTS ON UNDERSIDE
allow for attachment of retainer bracket (see below), Aclara MTU, and adapters for Itron 100W, Itron Riva and Badger LTE (shown on page 9)

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



COMPOSITE

COMPRESSION MOLDED



UV RESISTANT

POLYMER

INJECTION MOLDED



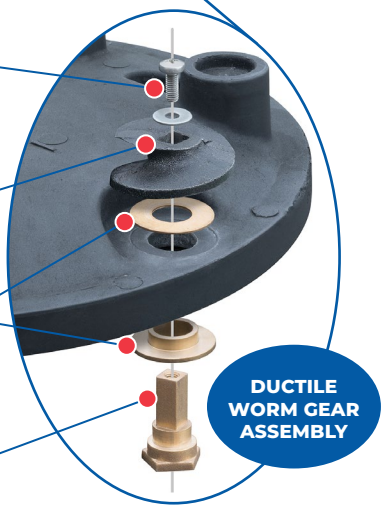
* For Polymer Lids, worm gears normally furnished as high-strength polymer.

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

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

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

PENTAGON BOLT
square shank



DUCTILE WORM GEAR ASSEMBLY

ALSO AVAILABLE:

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

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

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POLYMER METER PIT FRAMES

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

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

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



TYPE-A FRAME

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

REBAR TABS
accept rebar sizes
up to 3/8"

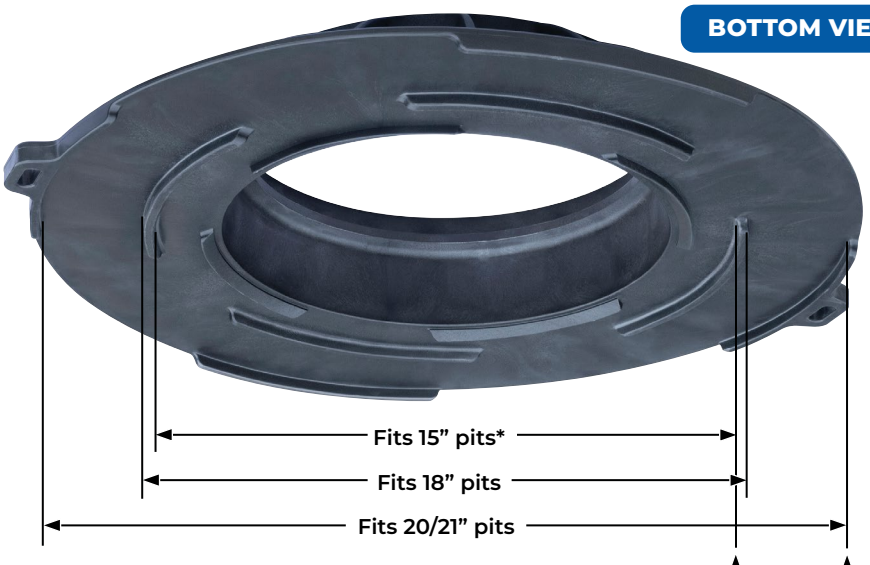
TYPE-C FRAME



CAN BE USED WITH MOST COMMON METER PITS USED TODAY.

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

BOTTOM VIEW



Add a magnet for locating.

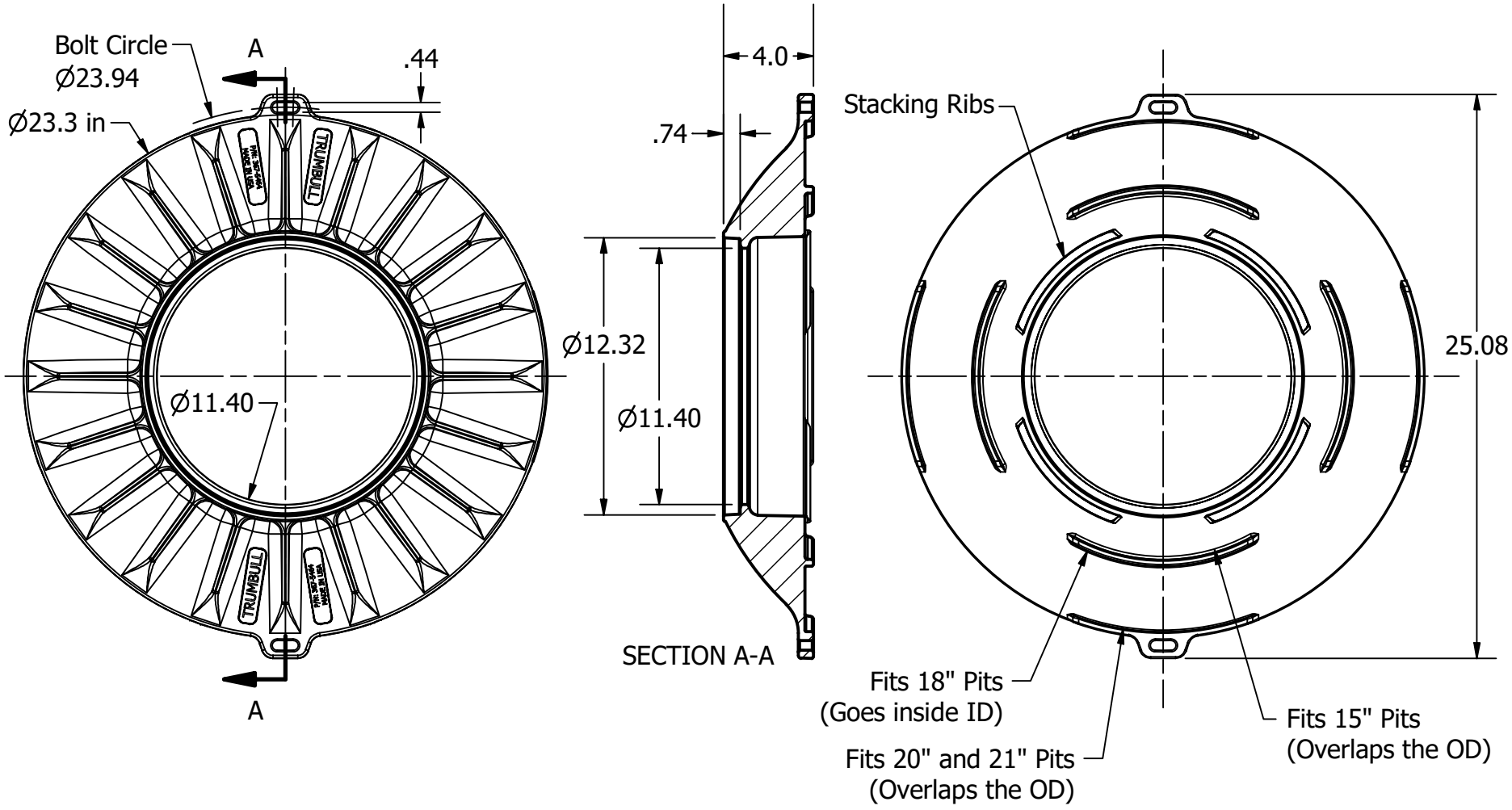
* Excluding Old Castle (15")

Consult Trumbull for load ratings, which are based on pit size.

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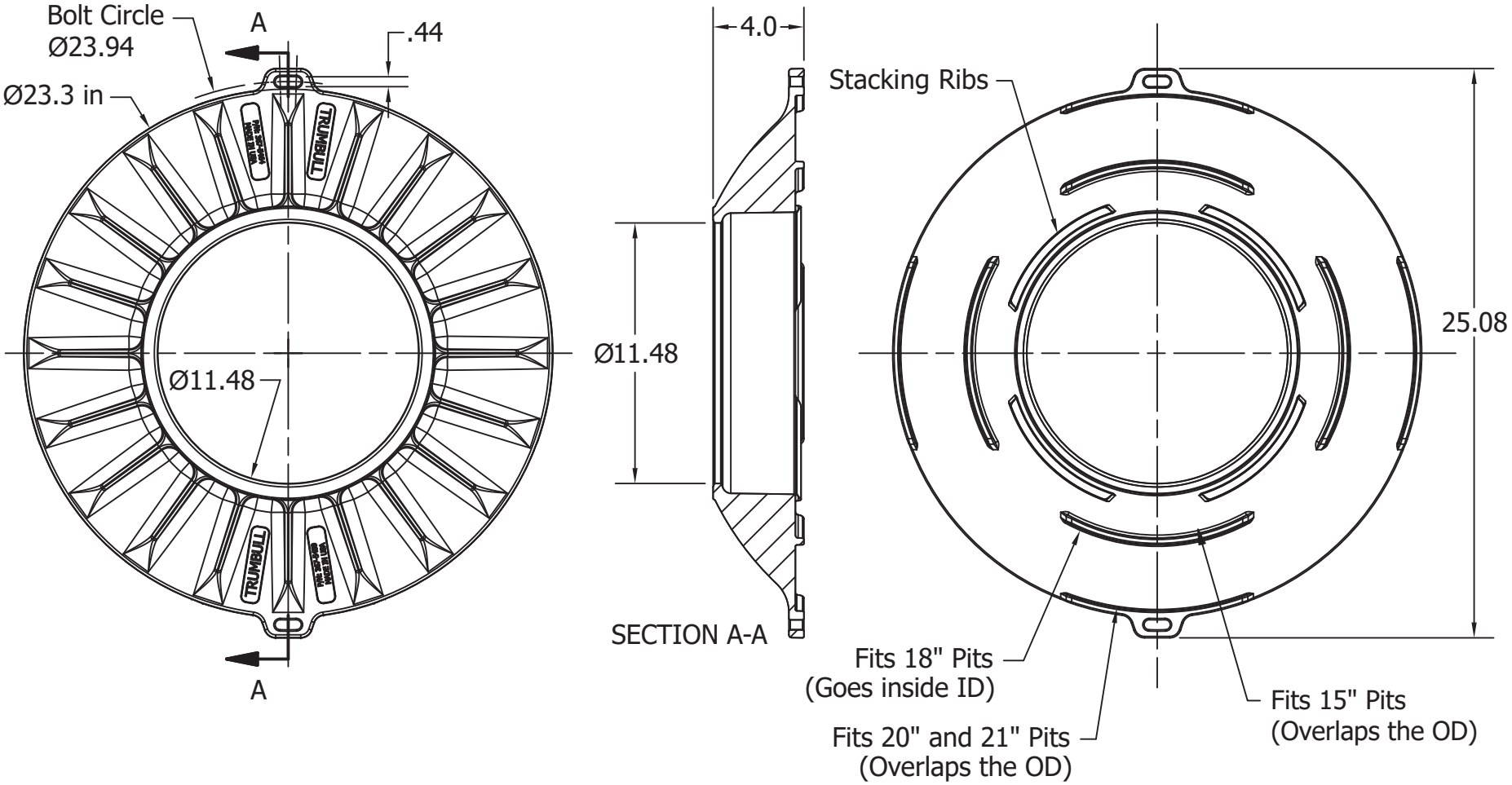
Notes:
1.) Material: Thermoplastic (black)
2.) Weight: 8.1 lbs.
3.) Fits all Trumbull 12.25" OD lids
4.) Part Number: 367-5464



12.25" Polymer Frame (11.4" Clear Opening) Drawn to Scale	Drawn: BJE 01/03/20	Revision: A BJE 11/16/21	**Trumbull Manufacturing** Youngstown, Ohio www.trumbull-mfg.com

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



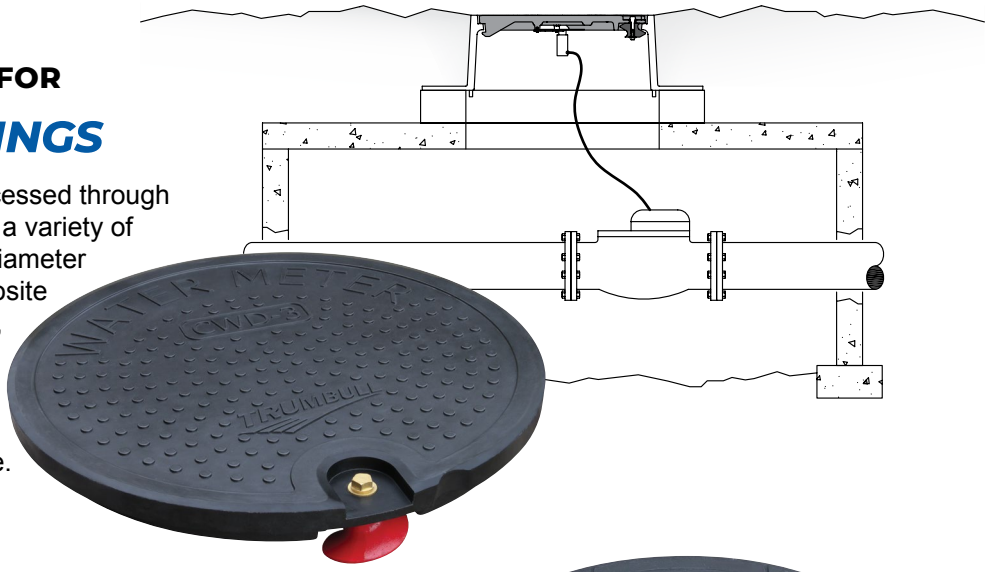
12.63" Polymer Frame (11.48" Clear Opening) Drawn to Scale	Drawn: NJC 10/09/20	Revision: A NJC 11/19/21	**Trumbull Manufacturing** Youngstown, Ohio www.trumbull-mfg.com

COMPOSITE MANHOLE LIDS FOR

LARGE METER SETTINGS

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

Custom lettering and graphics available.



COMPOSITE LIDS FOR

COILED PIT SETTERS

Worm gears on pit lids typically engage the shelf of an iron frame that covers the entire circumference of the frame. However, coiled pit 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.



Illustrated here is an 18” AY McDonald Pit Setter Lid.



RECESSES ON UNDERSIDE allow lid to drop into lockable position

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 No. 9,350,148

Item №	*Size*	*Antenna 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.

* 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



CAST IRON LID

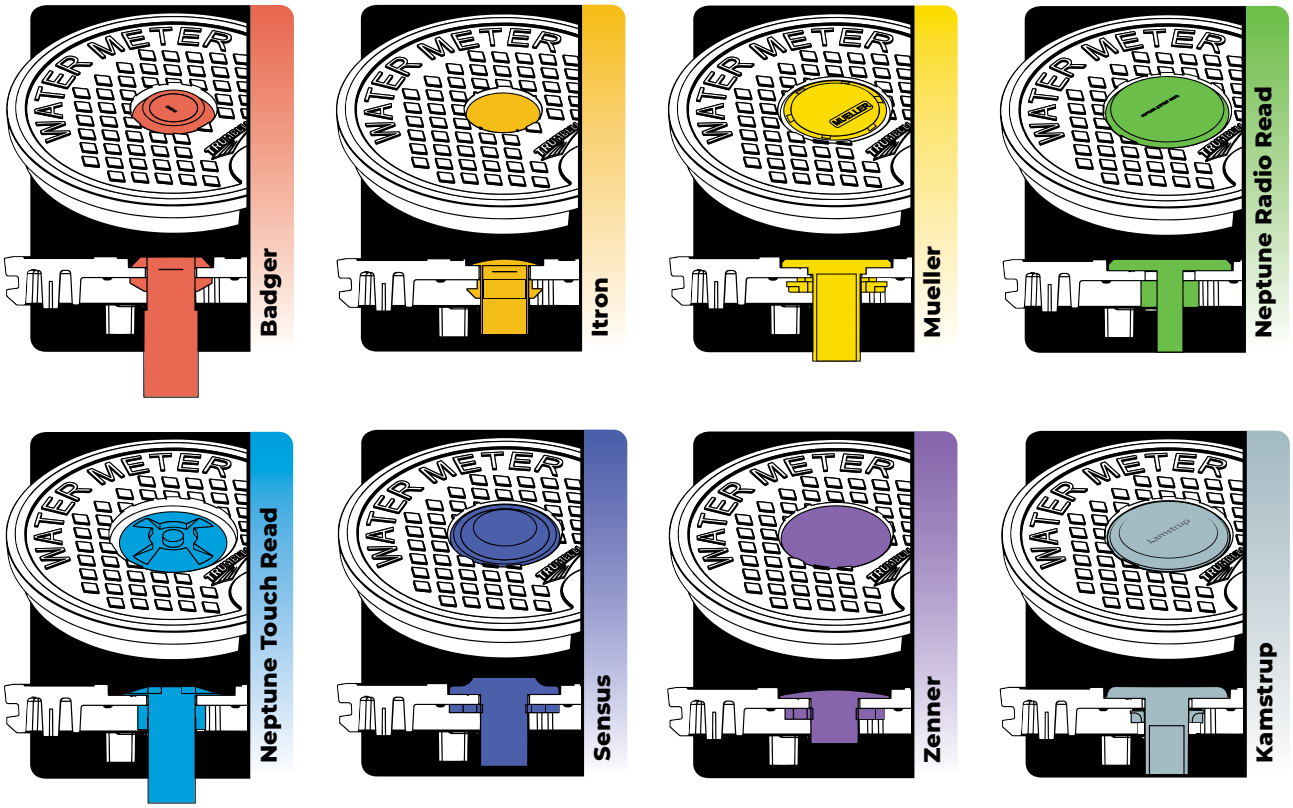
Drilling holes in existing cast iron lids may save money in the short run. However, most iron lids do not have the thickness for a counterbore. If lids are simply drilled without a counterbore, the result is a trip hazard. Drilling iron lids in the field frequently results in cracks in the lid.

SOLUTION:

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



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.

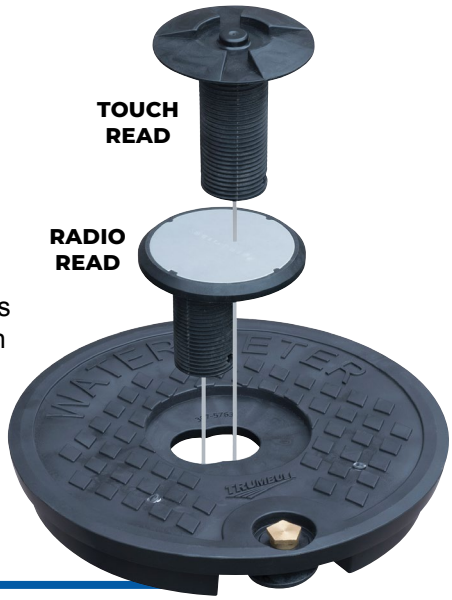
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NEPTUNE COUNTERBORES



EASY TRANSITION OF NEPTUNE ANTENNAS

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

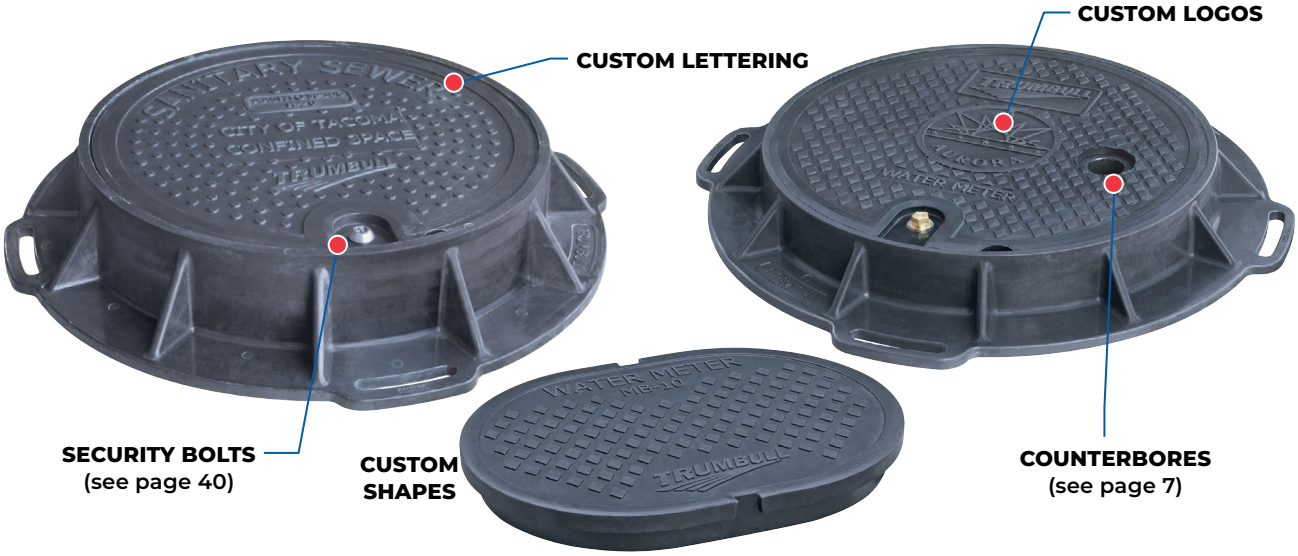


BLUE COLOR LIDS

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



CUSTOM LID OPTIONS

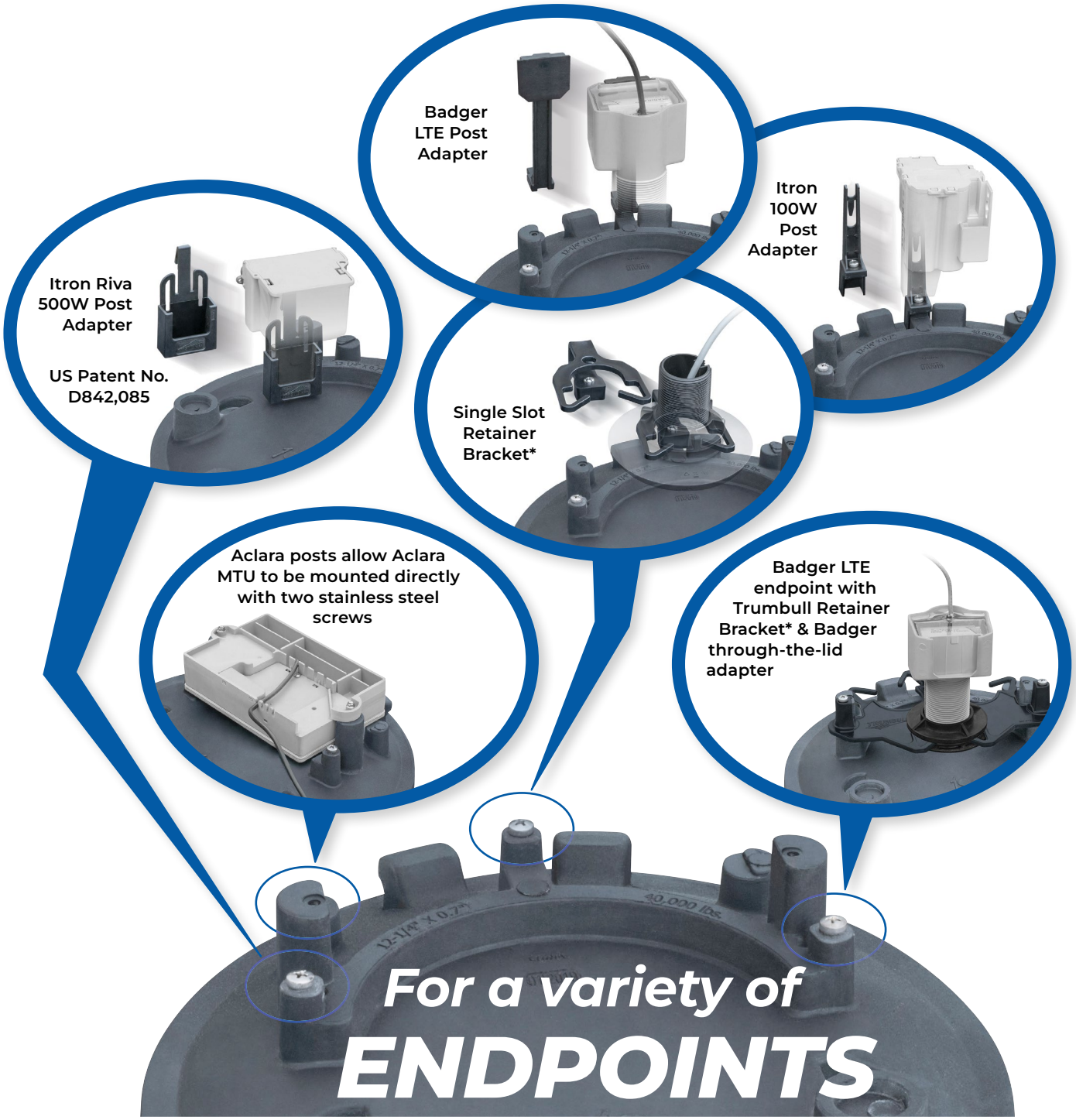


Composite frames are shown on pages 41 - 44.

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

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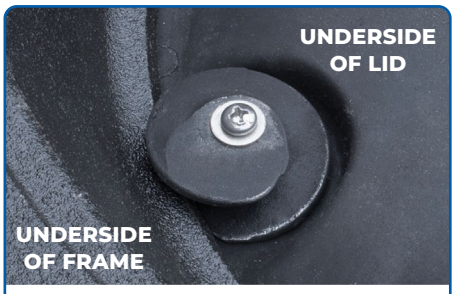
ANTENNA MOUNTING



* Both Retainer Brackets will fit all antennas or through-the-lid adapters with 1-3/4" shaft. The elevation of the meter in the pit may cause interference with the endpoint which should be verified.

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LID FASTENING STYLES



WORM GEAR



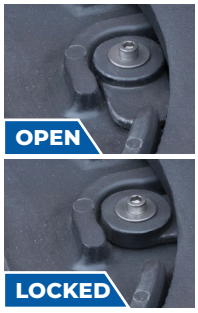
Worm gear locks to shelf on frame. Cast iron or polymer.



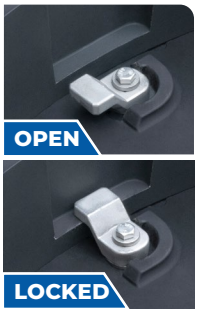
BOLT-DOWN STYLE

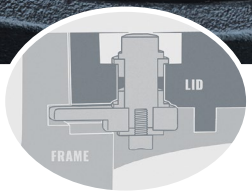
Our Frame and Cover Assemblies have threaded inserts in the frame to accept stainless screws (see page 31 & 33) or optional security screws (see page 40).











QUARTER-TURN DOUBLE PADDLE LOCK STYLE

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

REDUCING RINGS

FABRICATED REDUCING RINGS

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



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

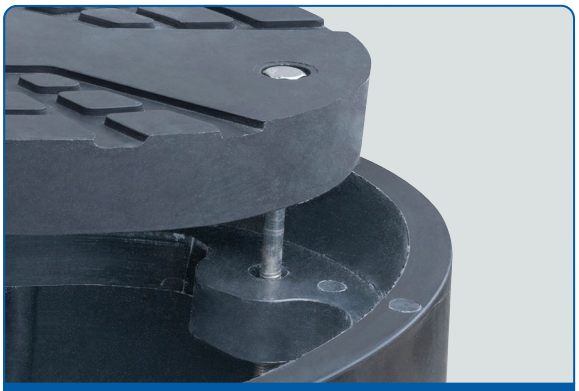
© 2026 Trumbull Manufacturing

COMPOSITE OVAL REMOTE ANTENNA BOX

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



VAULT WITH REMOTE ANTENNA BOX.



LID IS ATTACHED TO BOX WITH A NON-LOCKING PIVOT BOLT.



LID CLOSES FLUSH WITH TOP EDGE OF BOX.

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.

ADAPTER RECESSES allow up to 3 Badger adapters to be mounted below the lid



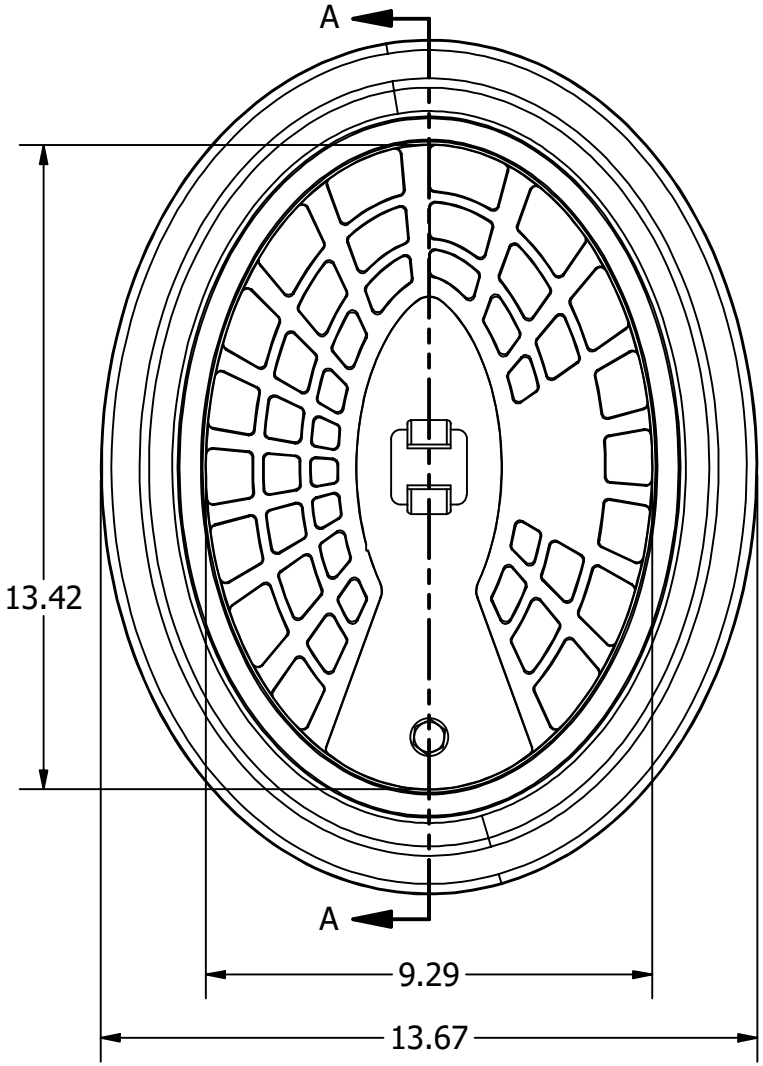
Item №	*Lid Description*	*Height*	*Weight*
367-8920	Solid Lid	12”	30.00 lbs.
367-8923	1 Badger Counterbore	12”	29.90 lbs.
367-8922	2 Badger Counterbores	12”	29.80 lbs.
367-8921	3 Badger Counterbores	12”	29.70 lbs.

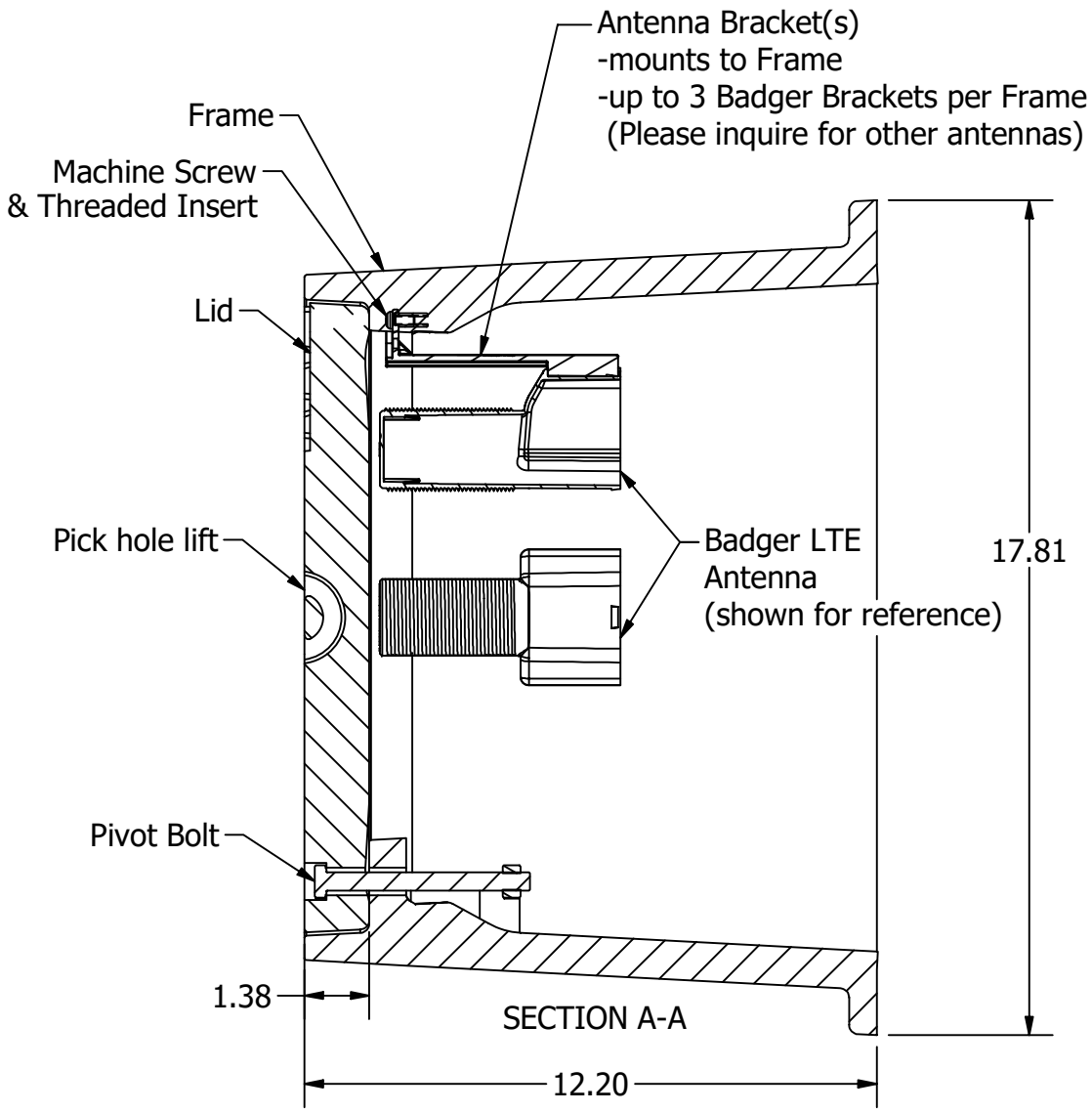
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Solid Lid part number: 367-8920
1 hole (Badger) Lid part number: 367-8923
2 holes (Badger) Lid part number: 367-8922
3 holes (Badger) Lid part number: 367-8921

Please inquire for other hole/antenna sizes





Load Rating: 40,000 lbs.

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

Oval Remote Antenna Box

Drawn to Scale

Drawn:		
BJE	Original Document	**Trumbull Manufacturing**
01/07/20		Youngstown, Ohio
		www.trumbull-mfg.com

MBX SERIES METER BOXES AND LIDS

Rounded Rectangle Enclosures for Meter Settings





THREE Different Load Rated Lids . . .
. . . ONE KEY for All of Them.

- Slip resistant surface - ADA compliant
- Available solid, or with counterbores for through-the-lid meter reading antennas
- 12” and 18” meter box depths
- 20K and 40K Lids have brass sliding lock
- Supplied standard black in color, others available

MBX SERIES METER BOXES

Item №	*Depth*	*Weight*
530-450-01645	12”	?.?? lbs.
530-475-01475	18”	?.?? lbs.

MBX SERIES METER BOX ACCESSORIES

HAND KEY

Item №	*Weight*
100-440-00030	?.?? lbs.

MBX SERIES LIDS

19-3/8” x 9-3/4”

Counterbore	*Load Rating*	*Item №.*	*Weight*
Solid	Non Traffic*	530-425-00190	?.?? lbs.
Solid	20,000 lbs.	530-450-01565	?.?? lbs.
Solid	40,000 lbs.	530-450-01605	?.?? lbs.
Badger	20,000 lbs.	530-450-01570	?.?? lbs.
Badger	40,000 lbs.	530-450-01610	?.?? lbs.
Itron	20,000 lbs.	530-450-01575	?.?? lbs.
Itron	40,000 lbs.	530-450-01615	?.?? lbs.
Mueller	20,000 lbs.	530-450-01580	?.?? lbs.
Mueller	40,000 lbs.	530-450-01620	?.?? lbs.
Sensus	20,000 lbs.	530-450-01585	?.?? lbs.
Sensus	40,000 lbs.	530-450-01625	?.?? lbs.
Neptune	20,000 lbs.	530-450-01590	?.?? lbs.
Neptune	40,000 lbs.	530-450-01630	?.?? lbs.
NepCell	20,000 lbs.	530-450-01595	?.?? lbs.
NepCell	40,000 lbs.	530-450-01635	?.?? lbs.
Kamstrup	20,000 lbs.	530-450-01600	?.?? lbs.
Kamstrup	40,000 lbs.	530-450-01640	?.?? lbs.

* Non Traffic Lids have composite sliding lock mechanism

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10” x 6.5” POLYMER YOKEBOX LIDS

Allows Radio Signals to be Read in AMR and AMI Systems

HAND KEY
purchased separately



ANTENNA HOLE
for through-the-lid antennas

THROUGH HOLE
for other TTL adapters

SLIDING LOCK: shown in closed position shown in open position

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

Item №.	*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

Item №	*Weight*
367-4334	0.40 lbs.

SINGLE SLOT RETAINER BRACKET
Details shown on page 9

Item №	*Weight*
367-5782	0.05 lbs.

THROUGH-THE-LID ANTENNAS/ADAPTERS

	5” UPPER YOKEBOX	*8” UPPER YOKEBOX*	*10” UPPER YOKEBOX*
BADGER	✗	✓	✓
ITRON	✗	✓	✓
MUELLER	✗	✗	✓
SENSUS	✗	✗	✓
ZENNER	✗	✗	✓
NEPTUNE	Due to lack of space for counterbore, a through hole will be provided.		
KAMSTRUP			

SINGLE SLOT RETAINER BRACKET (FOR SOLID LIDS)

BADGER	✗	✓	✓
ITRON RIVA 500W	✗	✓	✓
ITRON 100W	✗	✗	✓
MUELLER	✗	✗	✗
SENSUS	✗	✗	✓
NEPTUNE	✗	✓	✓
KAMSTRUP	✗	✓	✓

POST ADAPTER (FOR SOLID LIDS)

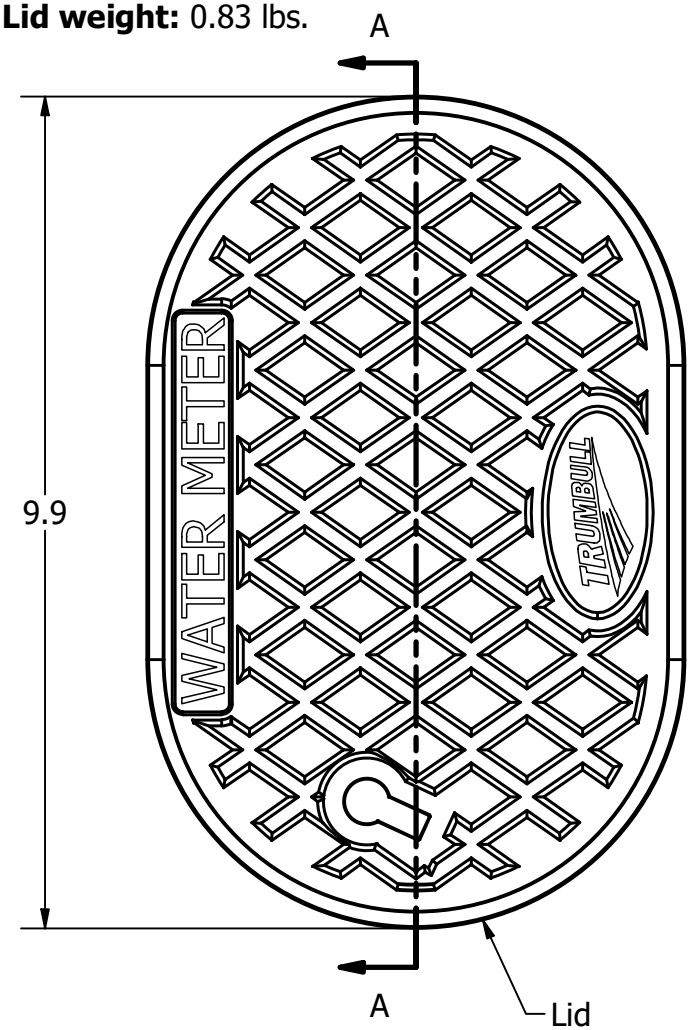
BADGER	✗	✓	✓
ITRON RIVA 500W	✗	✓	✓
ITRON 100W	✗	✗	✓

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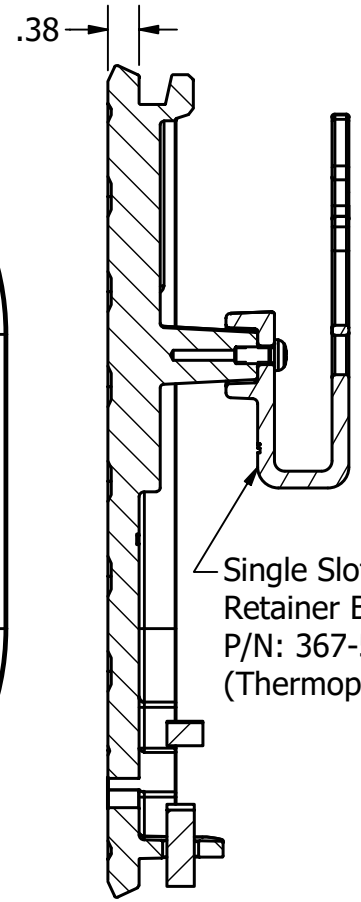
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Lid weight: 0.83 lbs.

Lid part number: 367-5657

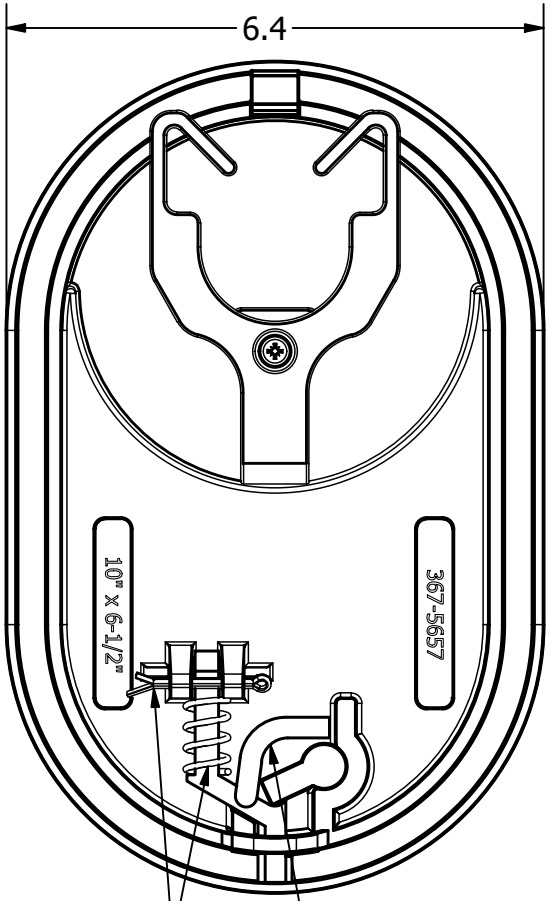


Lid
(Thermoplastic)



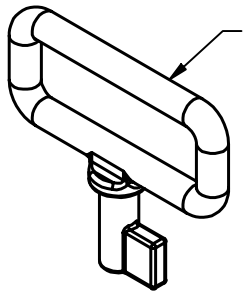
Single Slot
Retainer Bracket
P/N: 367-5782
(Thermoplastic)

SECTION A-A



Hardware
(Stainless Steel)

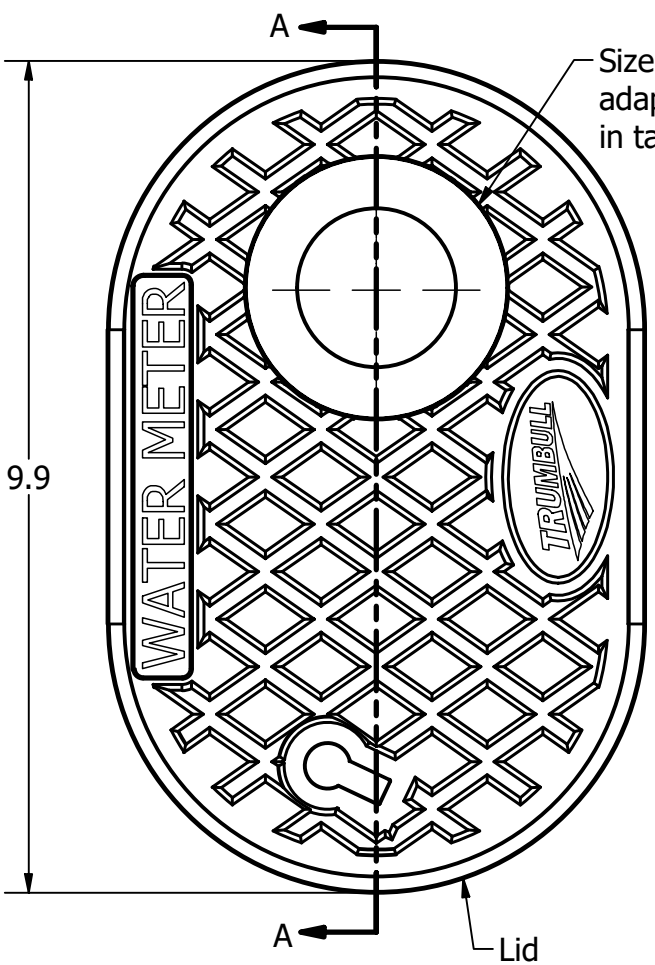
Sliding Lock
(Thermoplastic or Brass)

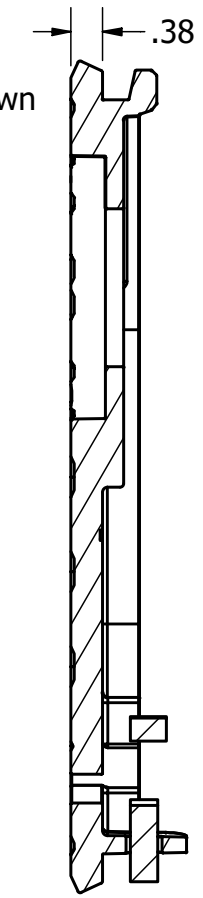


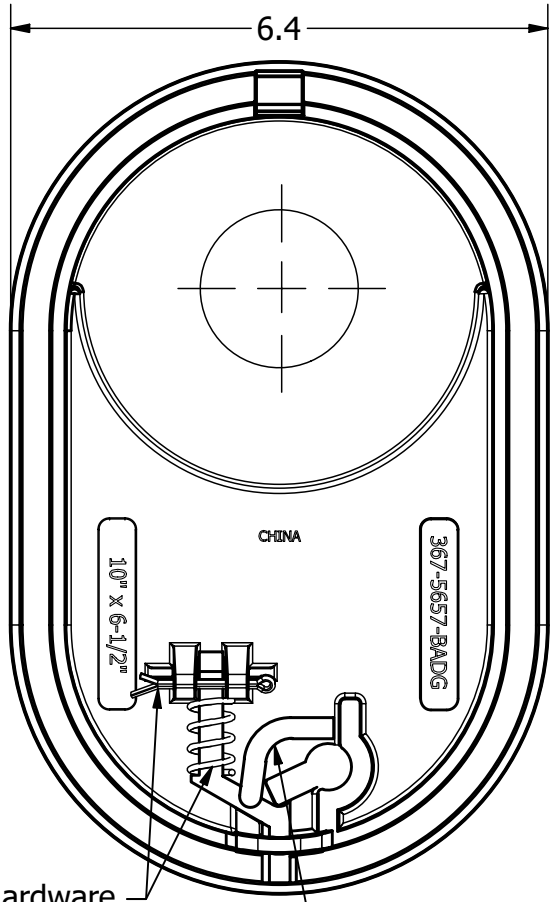
Hand Key,
P/N: 367-4334
(Cast Steel)

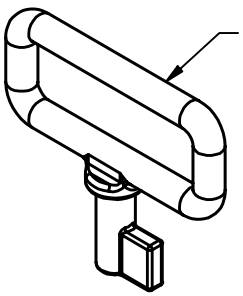
10" x 6.5" Yokebox Lid, Solid (Non-traffic) Drawn to Scale	Drawn: BJE 08/06/21	Original Document	***Trumbull Manufacturing*** Youngstown, Ohio www.trumbull-mfg.com

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10" x 6.5" Oval Lid	P/N	Weight (approx.)
1 Badger hole	367-5657-BADG	0.76 lbs.
1 Itron hole	367-5657-ITRON	0.80 lbs.
1 Mueller hole	367-5657-MUEL	0.76 lbs.
1 Sensus/Zenner hole	367-5657-SENS	0.66 lbs.
1 Through hole (1.88")	367-5657-TH	0.82 lbs.

10" x 6.5" Yokebox Lid, 1 Hole

(Non-traffic)
Drawn to Scale

Drawn: BJE 08/10/21

Original Document

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

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	*Item №*	*Size*	*Weight*	*Item №*	*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.

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

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Trumbull Manufacturing

MANHOLE AND METER PIT LID FIELD SURVEY FORM

NOTE: All dimensions to be taken from frame

CUSTOMER INFORMATION

Name _____

Company _____

Project Location _____

Email _____

Phone _____

FRAME MANUFACTURER INFORMATION

Frame Make & Model No. _____

Lid Make & Model No. _____

Lettering On Lid _____

NEW COVER DETAILS

LETTERING

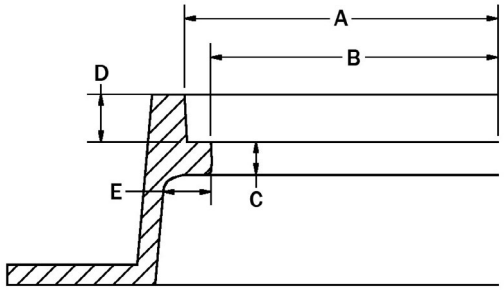
- ☐ "SANITARY SEWER"
- ☐ "WATER METER"
- ☐ Other _____

LOAD RATING REQUIRED

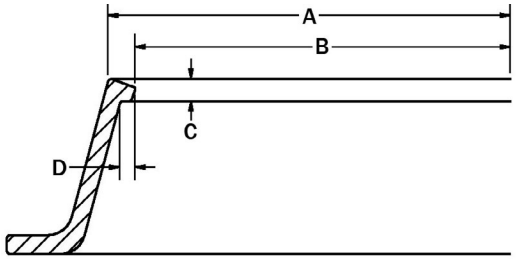
- ☐ Heavy Duty AASHTO M306, H-20; 40,000 lbs.
- ☐ Medium Duty; 20,000 lbs.
- ☐ Light Duty; 5,000 lbs.

AMI/AMR ANTENNA & LEAK DETECTION MOUNTING

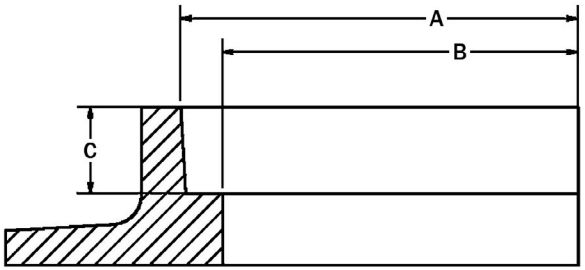
- ☐ Bracket mounting on underside
- ☐ Through-the-lid, flush with grade
- ☐ Mfg & model of endpoint _____



INSET STYLE



OVERLAPPING STYLE



STRAIGHT WALL ID STYLE

Lid Style	*Address*	*A*	*B*	*C*	*D*	*E*

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Composite and Polymer Lids

"WATER METER"

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.

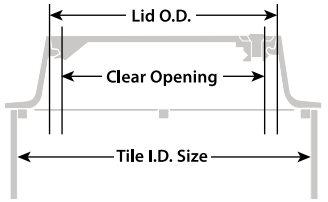
WORM GEARS: Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

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

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ADDITIONAL NOTES: Explanations for asterisk (*) and (▪) points shown on page 46.



LID DIMENSIONS, LOAD RATINGS, TYPES AND 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**	Ford W2A	**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		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 Meter Box No. 1 and Capital Foundry	**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		1.42 lbs. 500 pcs min				1.60 lbs. 500 pcs min		
10-3/8" OD	**Non-Traffic / Polymer**	Capital Foundry	**367-5581**	----	----	----	**367-5581-MUEL**	----	----
Clear Opening: 9-1/2" Rim Thickness: 3/8"	NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess		1.42 lbs. 500 pcs min				1.60 lbs. 500 pcs min		
11-7/8" OD	**Non-Traffic / Composite**	Clark Meter Box Frame	**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		6.00 lbs.	5.60 lbs. MegaNet Recess (Not for Badger)					
11.91" OD	**40,000 lbs. / Composite**	Wilmington, DE (Old Style) Inner Lid	**367-5632**	----	----	----	----	----	----
Clear Opening: 10.7" Rim Thickness: 1"	DUCTILE IRON WORM GEAR Solid Lids* Only		8.52 lbs.						
12-1/8" OD	**Non-Traffic / Polymer**	Mueller A and C	**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		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

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

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Composite and Polymer Lids

"WATER METER"

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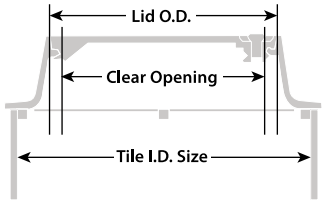
WORM GEARS: Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

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.

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LID DIMENSIONS, LOAD RATINGS, TYPES AND 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 Clear Opening: 11" Rim Thickness: 5/8"	**20,000 lbs. / Polymer** NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	**Mueller A and C**	**367-5671** 3.00 lbs.	**367-5673** 2.90 lbs.	**367-5674** 2.90 lbs.	----	----	**367-5672** 2.80 lbs.	**367-5668** 2.90 lbs.
12-1/4" OD Clear Opening: 11-1/2" Rim Thickness: 0.65"	**20,000 lbs. / Polymer** NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	**Ford A, C, and X AY McDonald A and C Tyler 6150**	**367-5810** 3.06 lbs.	**367-5811** 2.70 lbs.	**367-5812** 2.72 lbs.	**367-5816** 2.52 lbs.	**367-5813** 2.72 lbs.	**367-5814** 2.59 lbs.	**367-5815** 2.62 lbs.
12-1/4" OD Clear Opening: 11-1/2" Rim Thickness: 0.65"	**20,000 lbs. / Polymer** NYLON WORM GEAR 2 Antenna Recesses	**Ford A, C, and X AY McDonald A and C Tyler 6150**	----	**367-5823** 2.53 lbs.	**367-5817** 2.60 lbs.	**367-5821** 2.14 lbs.	**367-5818** 2.53 lbs.	**367-5819** 2.27 lbs.	**367-5820** 2.34 lbs.
12-1/4" OD Clear Opening: 11-1/2" Rim Thickness: 0.7"	**20,000 lbs. / Polymer** NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	**Ford A and C AY McDonald A and C**	**367-5764** 3.14 lbs. – Use – **367-5810**	**367-5762** 3.03 lbs. – Use – **367-5811**	**367-5760** 3.07 lbs. – Use – **367-5812**	----	----	**367-5763** 2.92 lbs. – Use – **367-5814**	**367-5761** 2.97 lbs. – Use – **367-5815**
12-1/4" OD Clear Opening: 11-1/2" Rim Thickness: 0.7"	**20,000 lbs. / Polymer** NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	**Ford A, C, and X AY McDonald A and C Tyler 6150**	**367-5751** 3.04 lbs. – Use – **367-5810**	**367-5752** 2.87 lbs. – Use – **367-5811**	**367-5754** 2.91 lbs. – Use – **367-5812**	----	----	**367-5755** 2.82 lbs. – Use – **367-5814**	**367-5753** 2.87 lbs. – Use – **367-5815**
12-1/4" OD Clear Opening: 11-1/2" Rim Thickness: 0.7"	**40,000 lbs. / Polymer** DUCTILE IRON WORM GEAR Solid Lids* or with 1 Antenna Recess	**Ford A and C AY McDonald type A**	**367-5670** 3.93 lbs. 500 pcs min	**367-5676** 3.81 lbs. 500 pcs min	**367-5678** 3.85 lbs. 500 pcs min	----	----	**367-5675** 3.71 lbs. 500 pcs min	**367-5677** 3.73 lbs. 500 pcs min

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

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Composite and Polymer Lids

"WATER METER"

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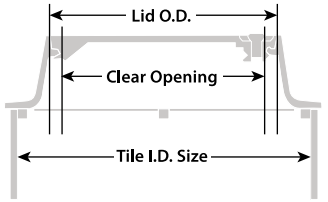
WORM GEARS: Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

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LID DIMENSIONS, LOAD RATINGS, TYPES AND 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
12-1/4" 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** Available w/out Logo **367-5517** (40K) 9.54 lbs.	**367-5591** 9.00 lbs.	**367-5519** 9.01 lbs.	----	----	**367-5593** 8.70 lbs.	**367-5592** 8.71 lbs.
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** Also available w/ out NN Lettering (Non-Traffic) 2.20 lbs.	----	----	----	**4945-TMI** Also available w/ out NN Lettering (Non-Traffic) 2.20 lbs.	----	----
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 min	**367-5721** 3.10 lbs. 250 pcs min	**367-5722** 3.10 lbs. 250 pcs min	----	**367-5723** 2.90 lbs. 250 pcs min	**367-5724** 2.90 lbs. 250 pcs min	**367-5725** 3.00 lbs. 250 pcs min
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 min	----	----	----	----	----	----
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 min	----	----	----	----	----	----
				Antenna recesses can be machined in the lid, charges may 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.	----	----	----	----	----	----
				Antenna recesses can be machined in the lid, charges may apply. Load ratings may vary depending on its size.					

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Composite and Polymer Lids

"WATER METER"

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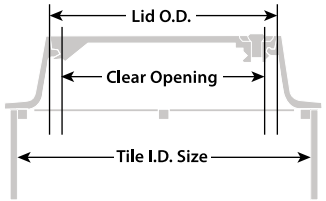
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LID DIMENSIONS, LOAD RATINGS, TYPES AND MATERIALS		FITS FRAME TYPES	SOLID LID No Antenna Recess	BADGER Antenna Recess Ø 3.13" x 0.41" dp	ITRON 60W, 100W, RIVA Antenna Recess Ø 2.84" x 0.26" dp	KAMSTRUP Antenna Recess Ø 5.06" x 0.50" dp	MUELLER Antenna 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** 7.60 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 2 Antenna Recesses	**Brooks MB Dual Frame**	----	----	**367-5596** 7.50 lbs.	----	----	----	----
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** 5.45 lbs.	**367-5648** 5.45 lbs. 200 pcs min	----	**367-5649** 5.45 lbs. 200 pcs min	**367-5645** 5.35 lbs. 200 pcs min	**367-5647** 5.40 lbs. 200 pcs min
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 min	**367-5773 ▪▪** 5.96 lbs. 100 pcs min	**367-5775 ▪▪** 6.01 lbs. 100 pcs min	----	----	**367-5772▪▪** 5.76 lbs. 100 pcs min	**367-5774 ▪▪** 5.84 lbs. 100 pcs min

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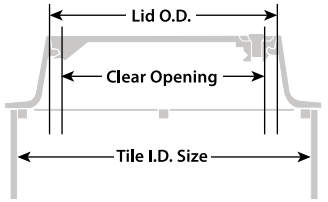
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16-3/16" OD Clear Opening: 15" Rim Thickness: 1"	**40,000 lbs. / Composite** DUCTILE IRON WORM GEAR Solid Lids* or with 1 Antenna Recess	**B&T, Vestal, Ford, AY McDonald type C and Baltimore**	**367-5680** 14.20 lbs.	----	----	----	----	----	----
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

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

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Composite and Polymer Lids

"WATER METER"

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

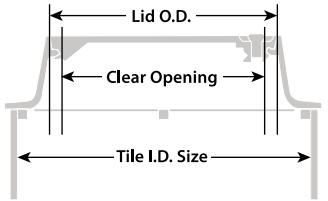
WORM GEARS: Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

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

RECESSES: All lids with antenna recesses have thru hole diameter of 1.88".

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

ADDITIONAL NOTES: Explanations for asterisk (*) and (▪) points shown on page 46.



LID DIMENSIONS, LOAD RATINGS, TYPES AND 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**	**Flat Lid for 18" Plastic Pit**	----	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			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**	**EJ 1525▪ Neenah R-1566 ▪ Baltimore**	367-5688	----	----	----	----	----	----
Clear Opening: 18" Rim Thickness: 2-3/16"	DOUBLE PADDLE LOCK (DI) Solid Lids* Only		33.00 lbs.						
19-13/16" OD	**40,000 lbs. / Composite**	**EJ 2990 Neenah R-1892**	367-5631	----	----	----	----	----	----
Clear Opening: 18-1/2" Rim Thickness: 1" "CWD-2"	DUCTILE IRON WORM GEAR Solid Lids* Only		28.30 lbs.						
21-3/16" OD	**Non-Traffic / Polymer**	**Ford and AY McDonald Monitor Covers and Pit Rings**	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		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 AY McDonald Monitor Covers and Pit Rings**	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		31.30 lbs.	30.60 lbs.	30.70 lbs.			30.50 lbs.	30.30 lbs.
21-3/4" OD	**20,000 lbs. / Composite**	**Arlington, VA**	367-5633	----	----	----	----	----	----
Clear Opening: 20" Rim Thickness: 1-1/4"	DROP-IN STYLE Solid Lids* Only		23.10 lbs.						

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

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Composite and Polymer Lids

"WATER METER"

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

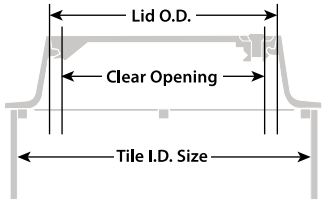
WORM GEARS: Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

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

RECESSES: All lids with antenna recesses have thru hole diameter of 1.88".

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

ADDITIONAL NOTES: Explanations for asterisk (*) and (▪) points shown on page 46.



LID DIMENSIONS, LOAD RATINGS, TYPES AND 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	**40,000 lbs. / Composite**	**EJ 1020 Neenah R-1580**	**367-8905** 45.70 lbs.	----	----	----	----	----	----
Clear Opening: 21" Rim Thickness: 1-11/16"	DUCTILE IRON WORM GEAR Solid Lids* Only								
23-3/4" OD	**20,000 lbs. / Composite**	**Arlington, VA**	**367-5634** 26.30 lbs.	----	----	----	----	----	----
Clear Opening: 22" Rim Thickness: 1"	DROP-IN STYLE Solid Lids* Only								
23-3/4" OD	**40,000 lbs. / Composite**	**EJ 1450 and 1690 Neenah R-1771 Neenah R-1785**	**367-8908** 44.80 lbs.	----	----	----	----	----	----
Clear Opening: 21-1/2" Rim Thickness: 1"	DUCTILE IRON WORM GEAR ▪▪▪ Solid Lids* Only								
23-3/4" OD	**40,000 lbs. / Composite**	**Trumbull Frame 367-5623 4 Badger LTE Brackets in frame**	**367-8910** 44.80 lbs.	----	----	----	----	----	----
Clear Opening: 21-1/2" Rim Thickness: 1"	UHMWPE WORM GEAR ▪▪▪ Solid Lids* Only								
23-3/4" OD	**40,000 lbs. / Composite**	**Trumbull Frame 367-5623 4 Badger LTE Brackets in frame**	**367-8912** 44.80 lbs.	**367-8914** 44.60 lbs. Non-Traffic	----	----	----	----	----
Clear Opening: 21-1/2" Rim Thickness: 1" "AURORA"	UHMWPE WORM GEAR ▪▪▪ Solid Lids* or with 1 Antenna Recess								
23-3/4" OD	**Non-Traffic / Composite**	**Trumbull Frame 367-5623 4 Badger LTE Brackets in frame**	----	**367-8916** 44.50 lbs.	----	----	----	----	----
Clear Opening: 21-1/2" Rim Thickness: 1" "AURORA"	UHMWPE WORM GEAR ▪▪▪ 2 Antenna Recesses								

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

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Composite and Polymer Lids

"WATER METER"

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

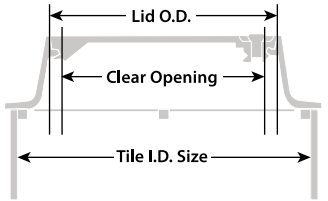
WORM GEARS: Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

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

RECESSES: All lids with antenna recesses have thru hole diameter of 1.88".

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

ADDITIONAL NOTES: Explanations for asterisk (*) and (▪) points shown on page 46.



LID DIMENSIONS, LOAD RATINGS, TYPES AND 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** 8.09 lbs.	**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.	**367-5597-2ITRON** 8.38 lbs.	**367-5597-2KAMS** 7.90 lbs.	**367-5597-2MUEL** 8.32 lbs.	**367-5597-2NEPT** 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** 63.50 lbs.	----	----	----	----	----	----
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** 64.00 lbs.	----	----	----	----	----	----
25-1/2" OD Clear Opening: 24-3/16" Rim Thickness: 1-1/4" "CWD"	**40,000 lbs. / Composite** DUCTILE IRON WORM GEAR ▪▪▪ Solid Lids* Only	**EJ 1040, 1045, 1048 and 1705**	**367-5527** 54.00 lbs.	----	----	----	----	----	----

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

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Composite and Polymer Lids

"WATER METER"

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

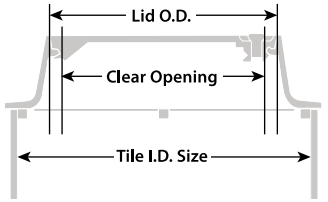
WORM GEARS: Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

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

RECESSES: All lids with antenna recesses have thru hole diameter of 1.88".

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

ADDITIONAL NOTES: Explanations for asterisk (*) and (▪) points shown on page 46.



LID DIMENSIONS, LOAD RATINGS, TYPES AND 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	**40,000 lbs. / Composite**	Trumbull Frame 367-5635	**367-5528**	----	----	----	----	----	----
Clear Opening: 24-3/16" Rim Thickness: 1-1/4"	UHMWPE WORM GEAR ▪▪▪ Solid Lids* Only		54.00 lbs.						
30-1/2" x 17-1/2" Rect.	**Non-Traffic / Polymer**	17" x 30" Hubbell, Old Castle Polymer, & Old Castle Concrete	**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		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" Hubbell, Old Castle Polymer, & Old Castle Concrete	----	**367-5572**	**367-5573**	**367-5584**	**367-5574**	**367-5575**	**367-5576**
Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2"	DROP-IN STYLE 2 Antenna Recesses			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" Hubbell, Old Castle Polymer, & Old Castle Concrete	**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		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" Hubbell, Old Castle Polymer, & Old Castle Concrete	----	**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			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" Hubbell, Old Castle Polymer, & Old Castle Concrete	**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		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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Composite and Polymer Lids

"WATER METER"

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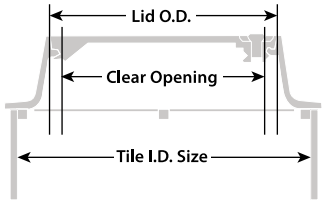
WORM GEARS: Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

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.



LID DIMENSIONS, LOAD RATINGS, TYPES AND 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.	**40,000 lbs. / Composite**	**17" x 30" Hubbell, Old Castle Polymer, & Old Castle Concrete**	----	**367-5572-40K**	**367-5573-40K**	----	**367-5564-40K**	**367-5575-40K**	----
Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2"	DROP-IN STYLE 2 Antenna Recesses			50.80 lbs. 25 pcs min	51.00 lbs. 25 pcs min		50.90 lbs. 25 pcs min	50.20 lbs. 25 pcs min	
30-1/2" x 17-1/2" Rect.	**40,000 lbs. / Composite**	**17" x 30" Hubbell, Old Castle Polymer, & Old Castle Concrete**	**367-5561-40K**	**367-5567-40K**	**367-5568-40K**	----	**367-5569-40K**	**367-5570-40K**	----
Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2"	BOLT-DOWN STYLE Solid Lids* or with 1 Antenna Recess		51.50 lbs. 25 pcs min	51.10 lbs. 25 pcs min	51.10 lbs. 25 pcs min		51.10 lbs. 25 pcs min	50.70 lbs. 25 pcs min	
30-1/2" x 17-1/2" Rect.	**40,000 lbs. / Composite**	**17" x 30" Hubbell, Old Castle Polymer, & Old Castle Concrete**	----	**367-5577-40K**	**367-5578-40K**	----	**367-5579-40K**	**367-5580-40K**	----
Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2"	BOLT-DOWN STYLE 2 Antenna Recesses			50.70 lbs. 25 pcs min	50.80 lbs. 25 pcs min		50.80 lbs. 25 pcs min	50.00 lbs. 25 pcs min	
31-13/16" OD	**40,000 lbs. / Composite**	**Neenah R-1568 ▪ Baltimore**	**367-5710**	----	----	----	----	----	----
Clear Opening: 30" Rim Thickness: 2-1/2"	DOUBLE PADDLE LOCK (DI) Solid Lids* Only		108.70 lbs. 15 pcs min						
35-27/32" OD	**40,000 lbs. / Composite**	**EJ 1585 Neenah R-1752**	**367-5715**	----	----	----	----	----	----
Clear Opening: 34" Rim Thickness: 1.44" "CONFINED SPACE NEORSD"	DROP-IN STYLE Solid Lids* Only		131.30 lbs. 15 pcs min						
35-27/32" OD	**40,000 lbs. / Composite**	**EJ 1585 Neenah R-1752 Arlington, VA**	**367-5712**	----	----	----	----	----	----
Clear Opening: 34" Rim Thickness: 1.44" "ARLINGTON"	DROP-IN STYLE Solid Lids* Only		131.30 lbs. 30 pcs min						

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Polymer Yokebox Lids

"WATER METER"

Hand Key
367-4334

Single Slot Retainer Bracket
367-5782

- 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, LOAD RATINGS, TYPES AND 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	MUELLER Antenna Recess Ø 3.36" x 0.33" dp	SENSUS OR ZENNER Antenna Recess Ø 4.11" x 0.41" dp	FOR "OTHER" 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



Composite Frame and Cover Assemblies

"WATER METER"

Pricing does not include retainer brackets or antenna adapters.

LID DIMENSIONS, LOAD RATINGS, TYPES AND MATERIALS		FITS FRAME TYPES	BOLT DOWN STYLE	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 Solid Lids* Only	Trumbull Frame 367-5468	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	93.00 lbs. Frame and Cover	93.00 lbs. Frame and Cover
32" OD	**50,000 lbs. / Composite**		367-5793	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	129.00 lbs. Frame and Cover	129.00 lbs. Frame and Cover
32" OD	**50,000 lbs. / Composite**		367-5799	----
Clear Opening: 30" ID Rim Thickness: 1-1/4" "WATER"	BOLT-DOWN STYLE Solid Lids* Only	Trumbull Frame 367-5794	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	236.80 lbs. Frame and Cover	236.00 lbs. Frame and Cover

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 46.

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



RATED FOR TRAFFIC LOADS, AND TESTED IN EXCESS OF 40,000 LBS.

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.

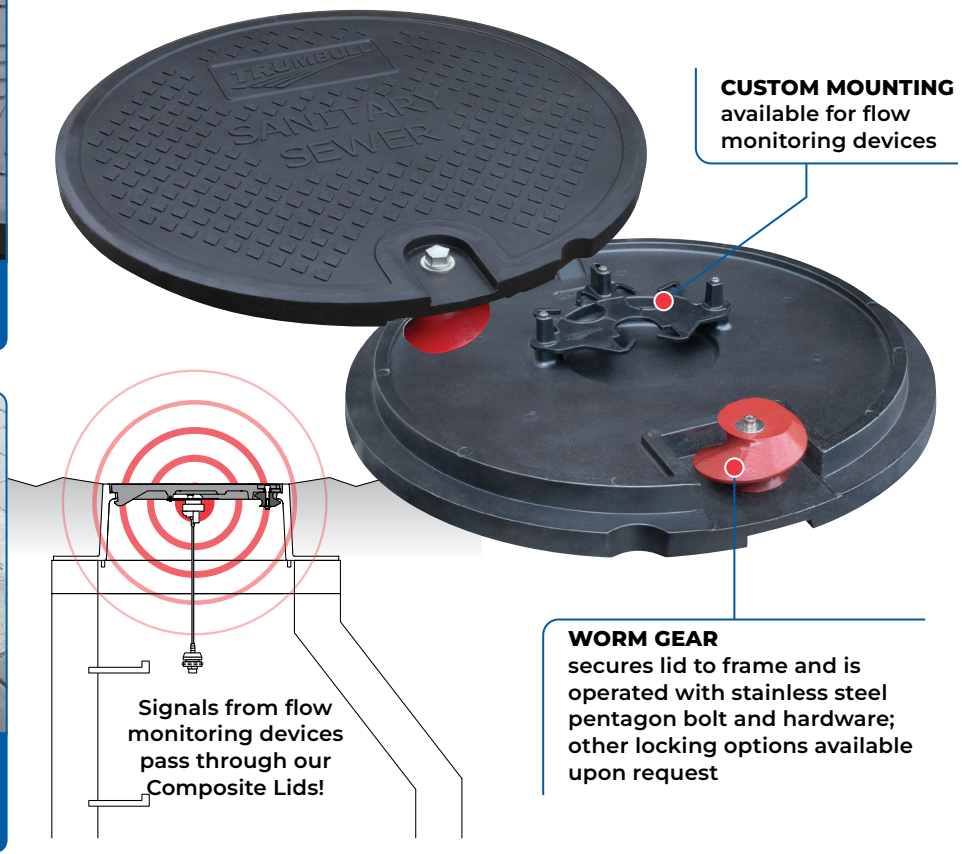
LOAD TESTED PER AASHTO M-306, H-20 – 40,000 LBS.
(See page 29 for details on load testing)



THE LIGHT WEIGHT OF COMPOSITES REDUCES FINGER AND BACK INJURIES.



COMPOSITES HAVE NO SCRAP VALUE, SO THEY REDUCE THEFT PROBLEM COMMON TO CAST IRON LIDS.



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.

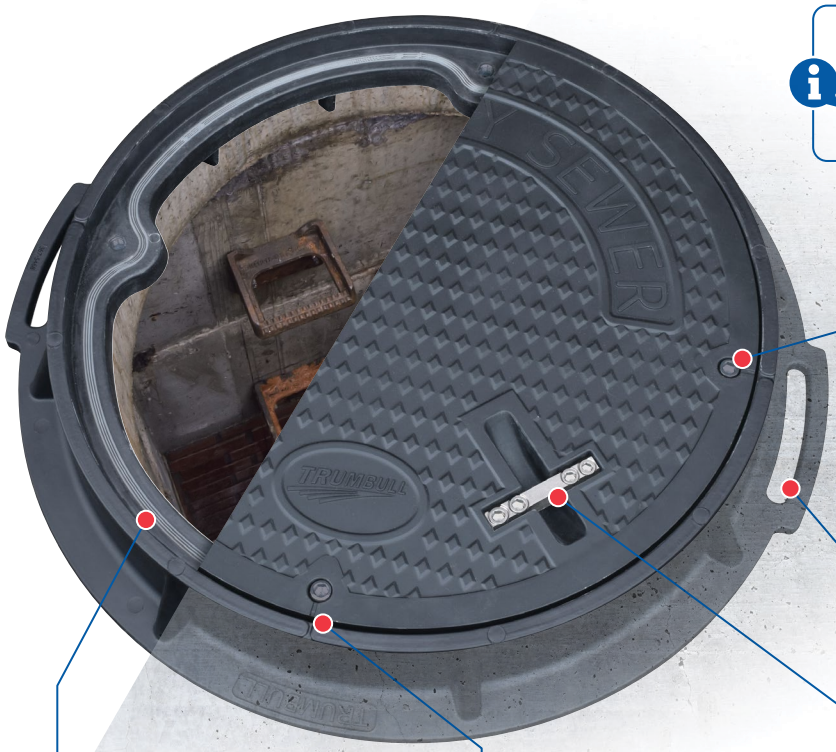
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COMPOSITE MANHOLE FRAME AND COVER ASSEMBLY

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.



Composite Frame and Cover Assemblies with outward lobes, thus providing full clear opening, are shown on pages 33 - 39.

FOUR XYLAN COATED STAINLESS ALLEN HEAD SCREWS
compress seal to prevent infiltration and are retained in the lid using clips (security screws are also available, shown on page 40)

FRAME SLOTS
allow easy handling and anchoring to manhole

STAINLESS STEEL PICK BAR

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

Lid OD Size	*Locking Mechanism*	**Frame** *Item №*	**Sanitary Sewer Lid** *Item №*	**Water Meter Lid** *Item №*	*Total Weight*
23-3/4”	Bolt Down	**367-5468**	**367-5789**	**367-5790**	66.10 lbs.

Optional logo/custom lettering options available, ask your Trumbull Rep.

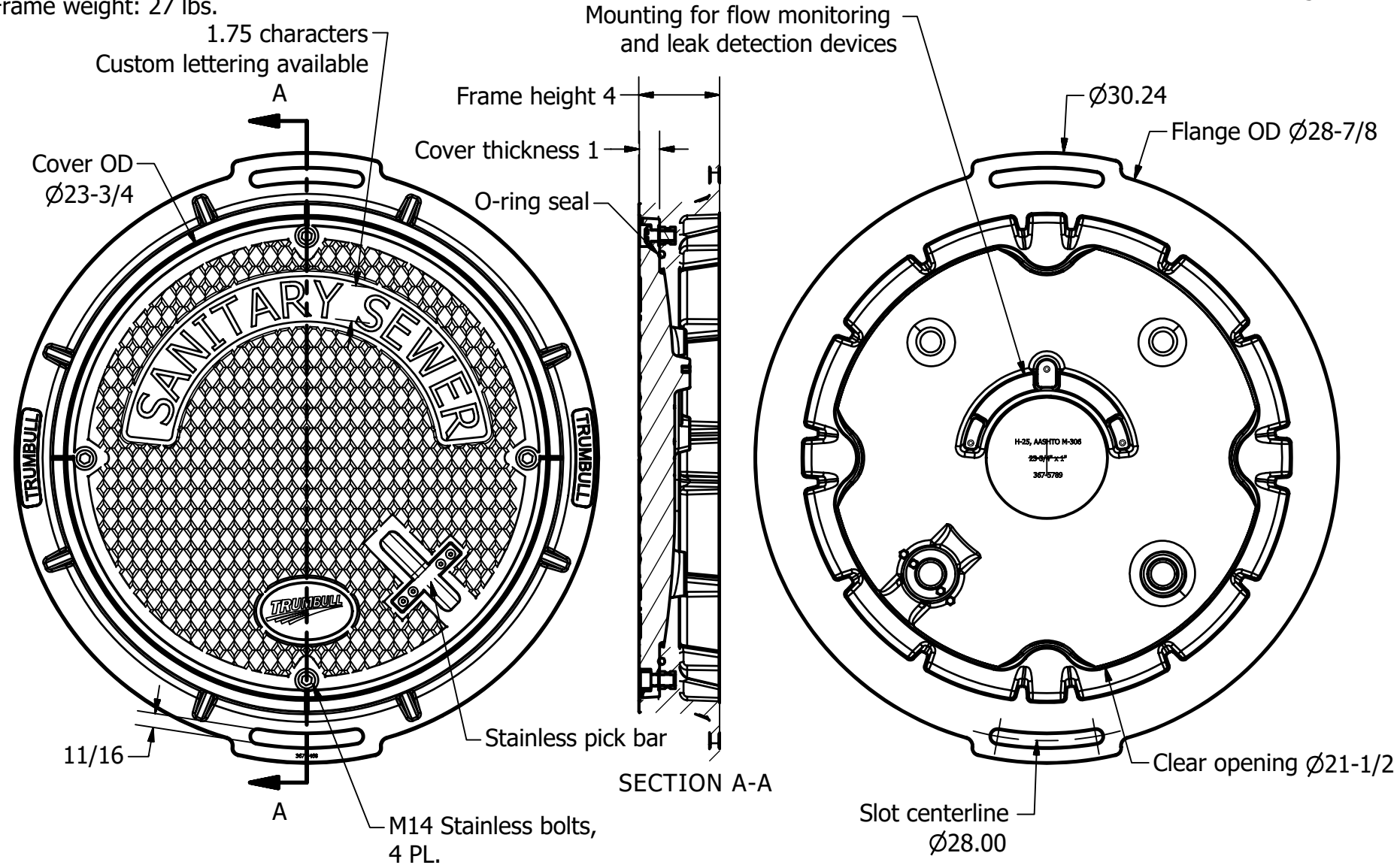
For dimensions, load ratings and additional options, refer to the product information charts on pages 24–30 (WATER METER) and pages 47–48 (SANITARY SEWER).

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Lid weight: 39 lbs.
Frame weight: 27 lbs.

50,000 lbs. load rating, H-25



Frame part number:
367-5468

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

(Dimensions are in inches)

24" Manhole Lid & Frame (21-1/2" Frame Clear Opening, Bolt Down) Drawn to Scale	Drawn: BJE 09/15/17	Revision: A BJE 05/13/19	***Trumbull Manufacturing*** Youngstown, Ohio www.trumbull-mfg.com

COMPOSITE MANHOLE FRAME AND COVER ASSEMBLIES

WITH FULL CLEAR OPENING – PADDLE LOCK AND BOLT DOWN STYLES

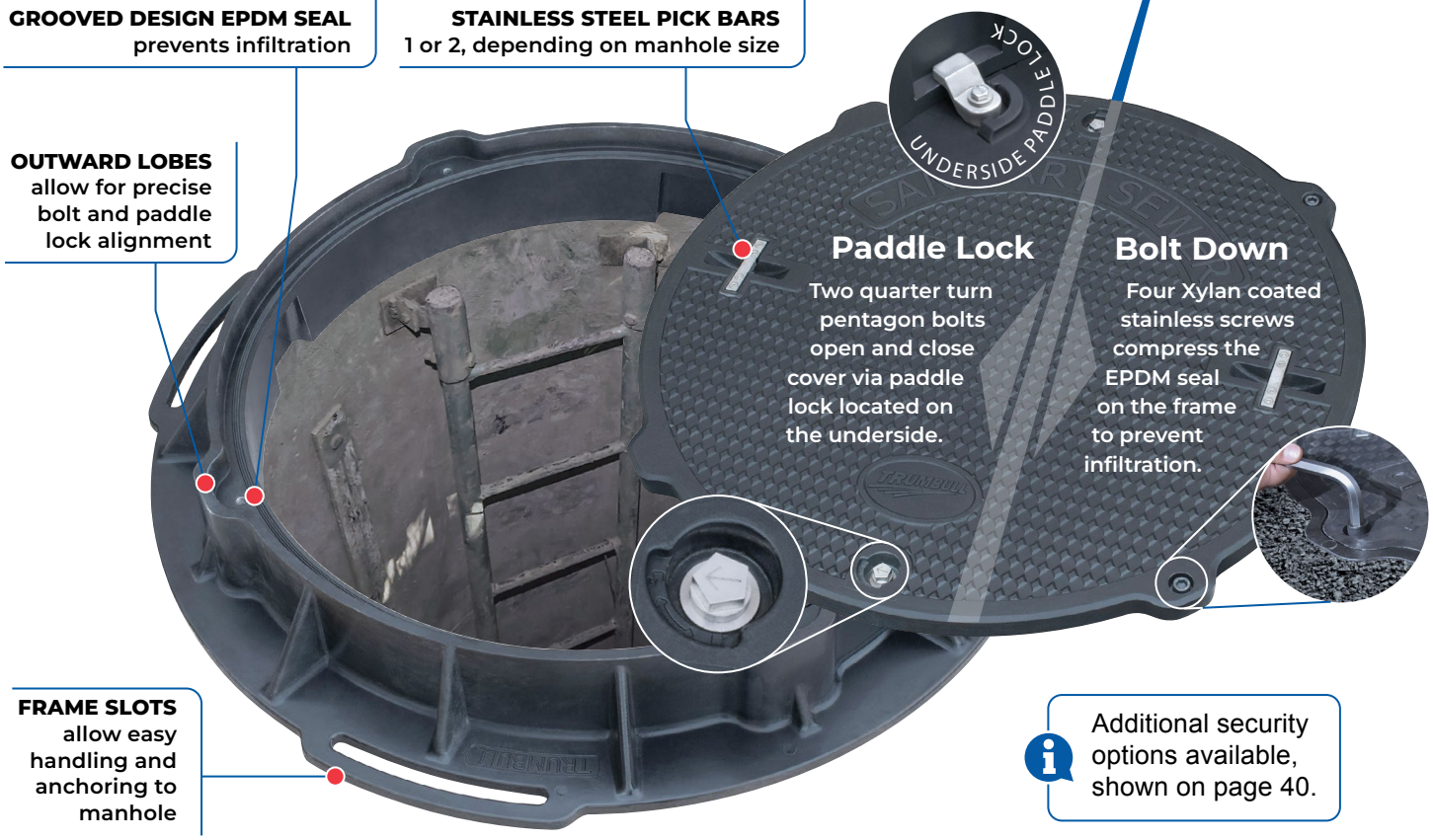
Available in 26", 32" and 38" Sizes – EPDM Sealed

2 COVER STYLES

GROOVED DESIGN EPDM SEAL prevents infiltration

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

OUTWARD LOBES allow for precise bolt and paddle lock alignment



FRAME SLOTS allow easy handling and anchoring to manhole

Additional security options available, shown on page 40.

Lid OD	*Locking Mechanism*	**Frame** *Item №*	**Sanitary Sewer Lid** *Item №*	**Water Meter Lid** *Item №*	*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	367-5794	367-5792	367-5793	129.00 lbs.
32”	Paddle Lock		367-5900	367-5901	129.00 lbs.
38”	Bolt Down	367-5784	367-5795	367-5465	236.80 lbs.
38”	Paddle Lock		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.

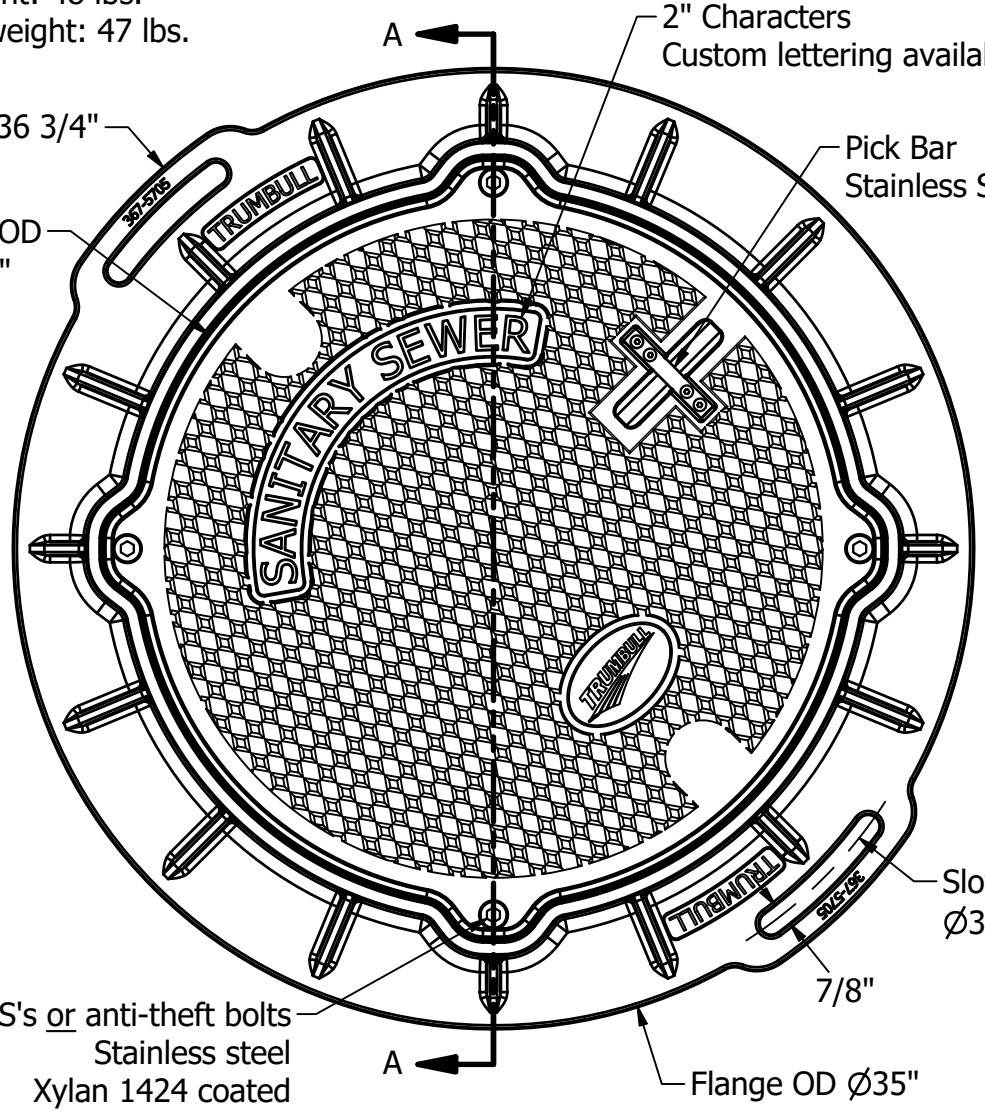
For dimensions, load ratings and additional options, refer to the product information charts on pages 24–30 (WATER METER) and pages 47–48 (SANITARY SEWER).

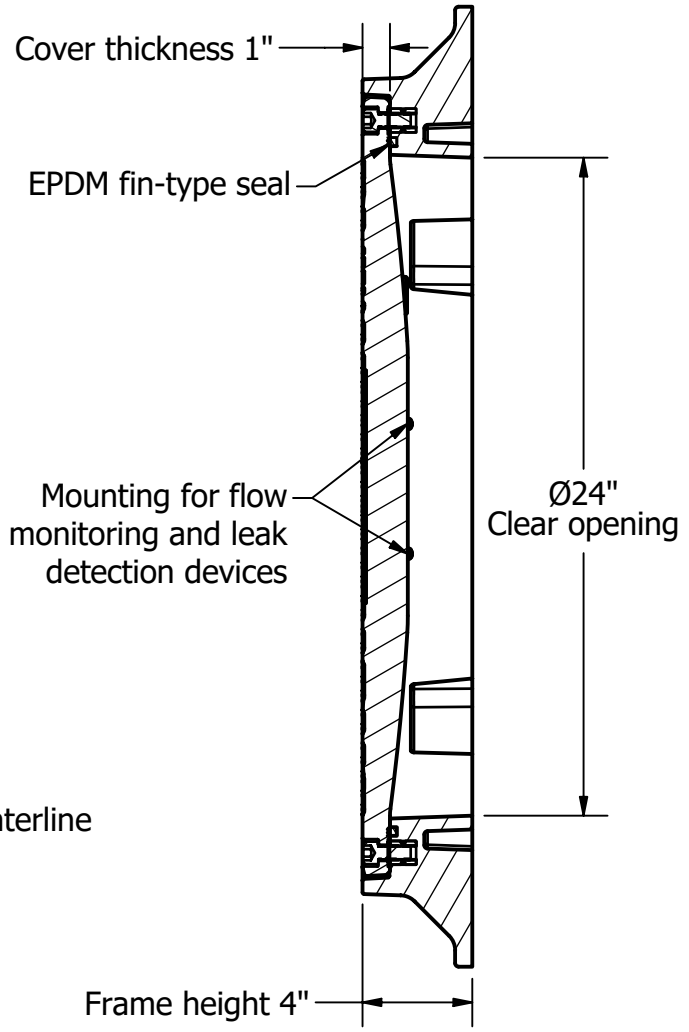
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Lid weight: 48 lbs.
Frame weight: 47 lbs.

50,000 lbs. load rating, H-25





SECTION A-A

Frame part number:
367-5705

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

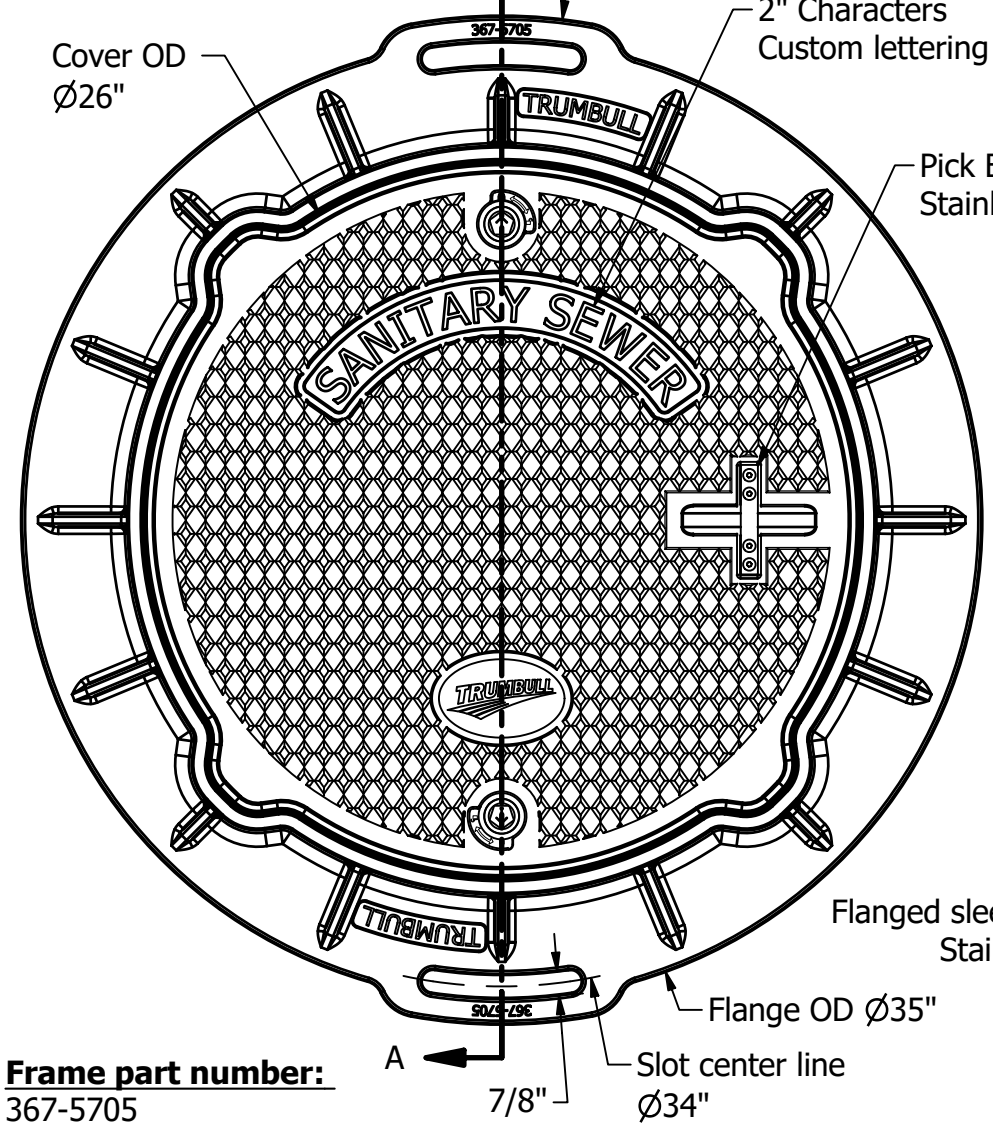
(Dimensions are in inches)

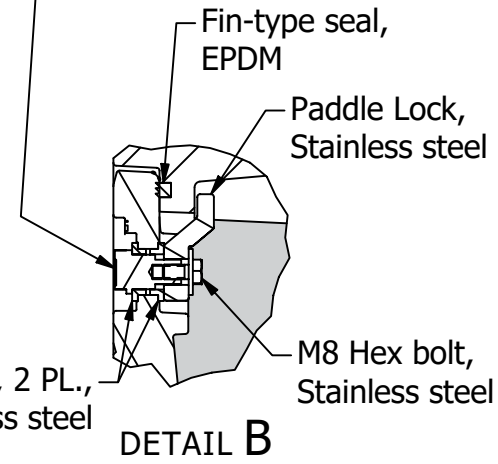
26" Manhole Lid & Frame (24" Frame Clear Opening, Bolt Down) Drawn to Scale	Drawn: AAH 09/18/18	Original document	***Trumbull Manufacturing*** Youngstown, Ohio www.trumbull-mfg.com

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

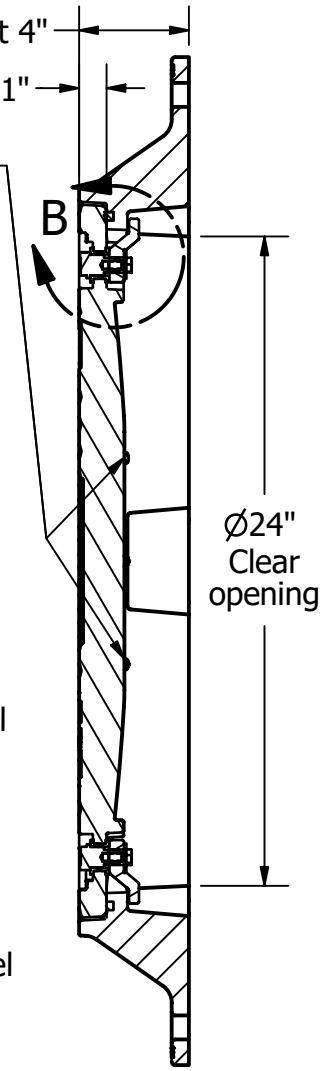
50,000 lbs. load rating, H-25





DETAIL B

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



SECTION A-A

Frame part number:
367-5705

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

26" Manhole Lid & Frame

(24" Frame Clear Opening, Paddle Lock)
Drawn to Scale

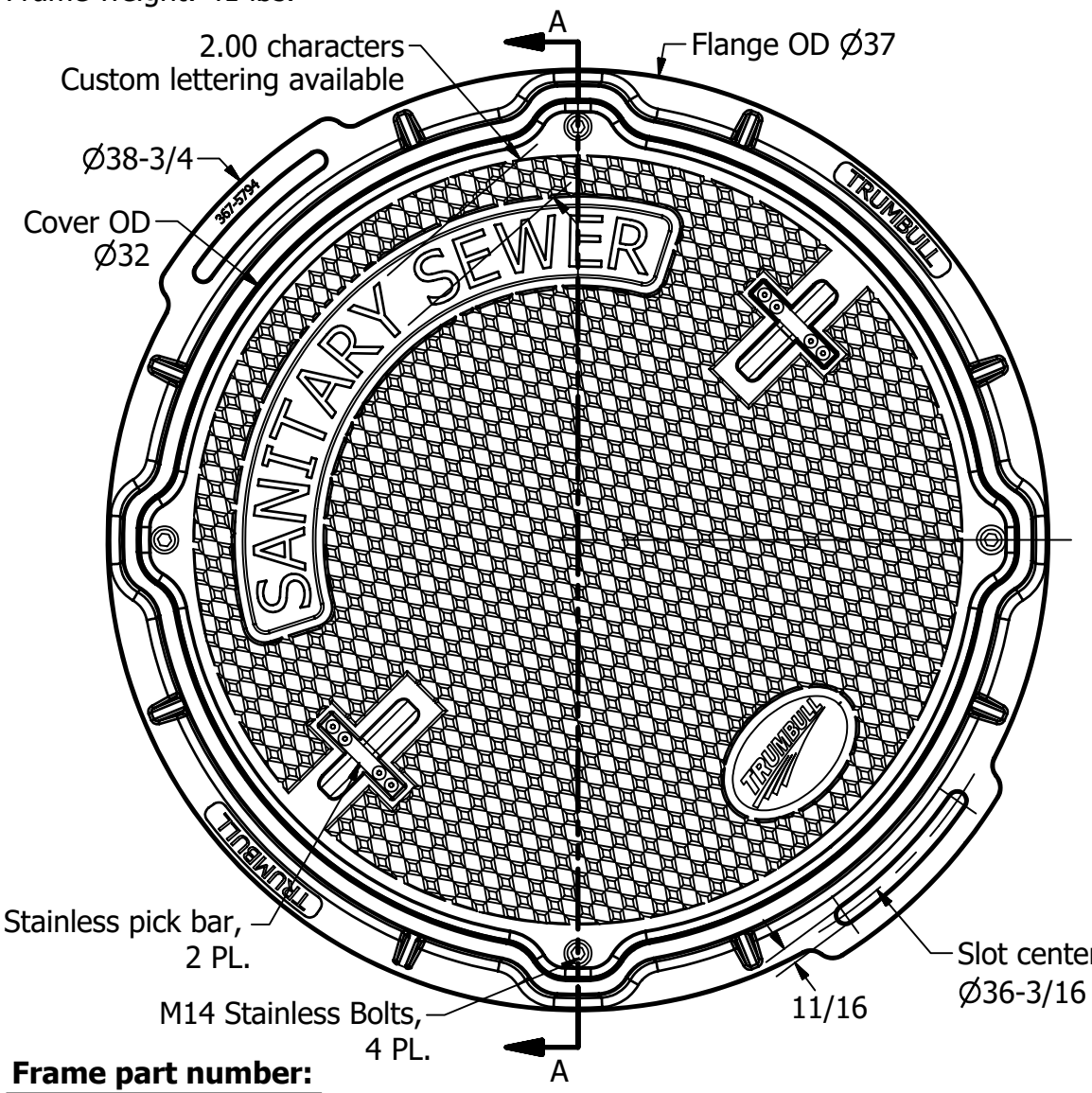
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AAH 09/18/18	Original document	

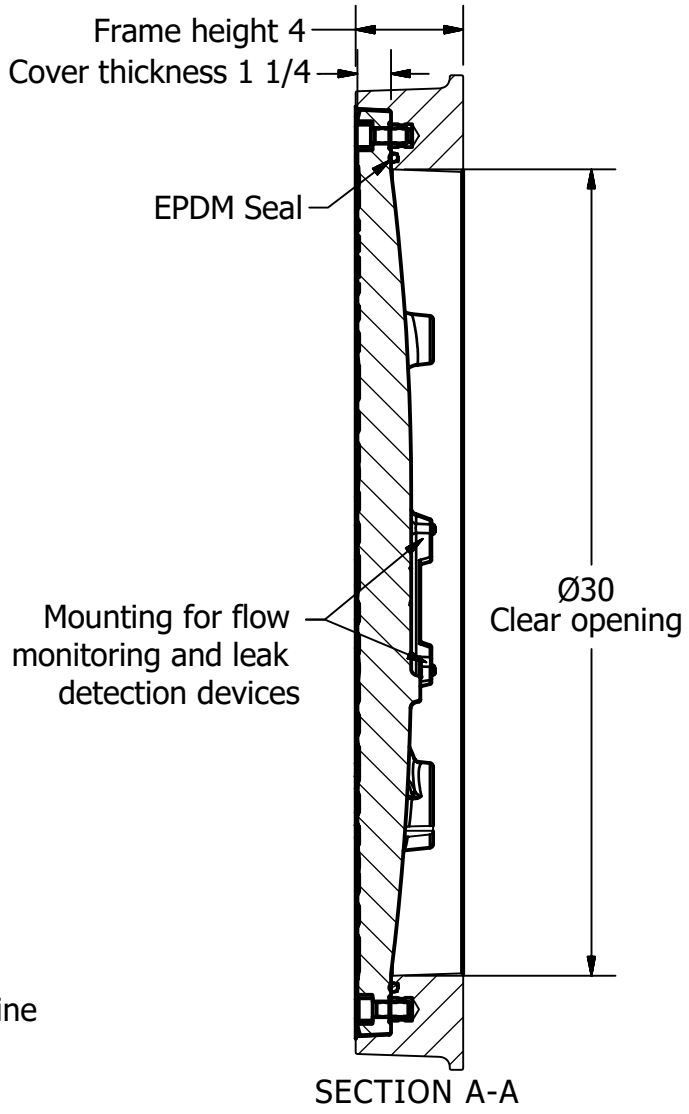
Trumbull Manufacturing
Youngstown, Ohio
www.trumbull-mfg.com

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

50,000 lbs. load rating, H-25





Frame part number:
367-5794

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

(Dimensions are in inches)

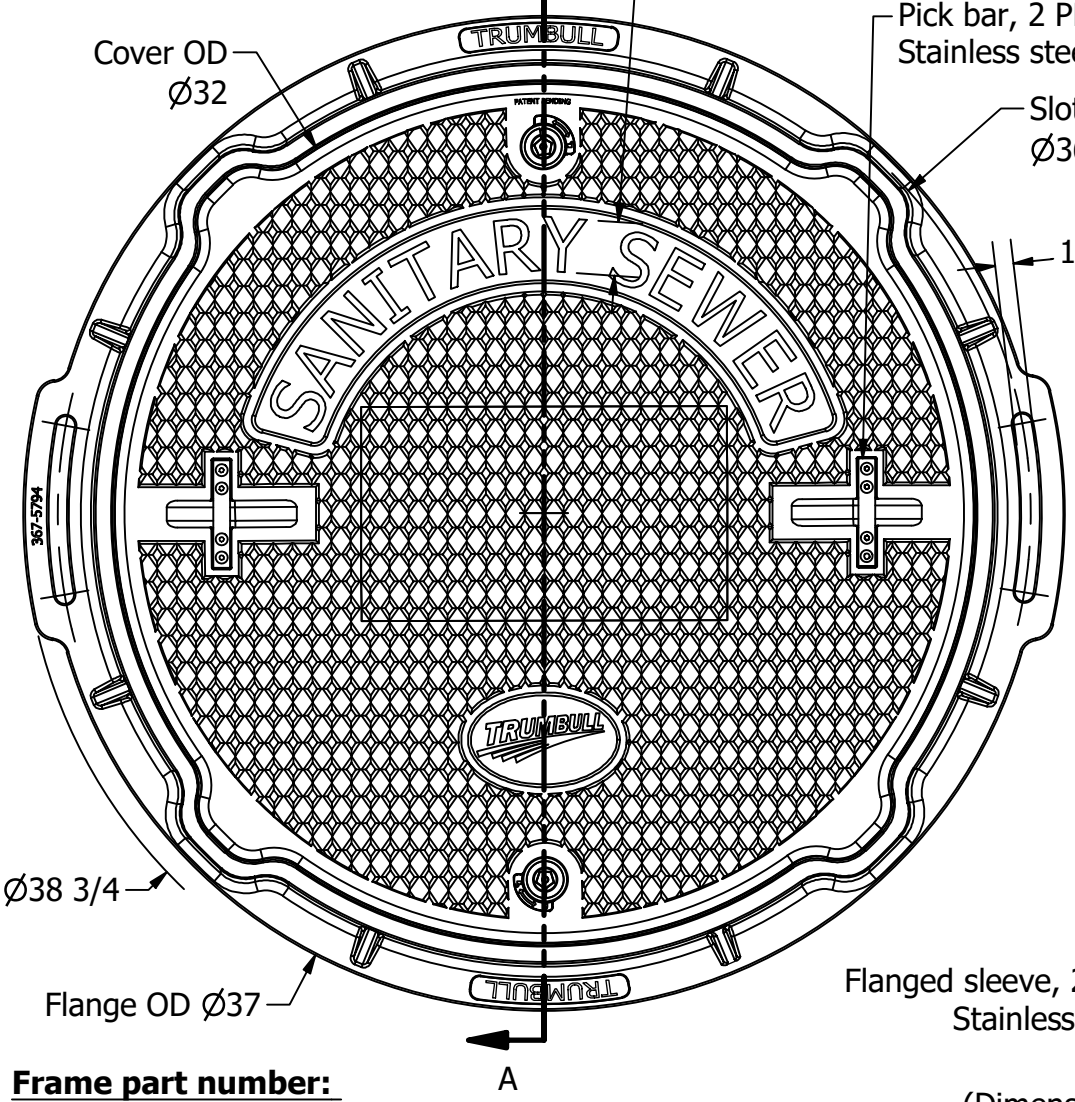
32" Manhole Lid & Frame
(30" Frame Clear Opening, Bolt Down)
Drawn to Scale

Drawn:	Revision:
BJE 07/20/17	(A) BJE 05/13/19

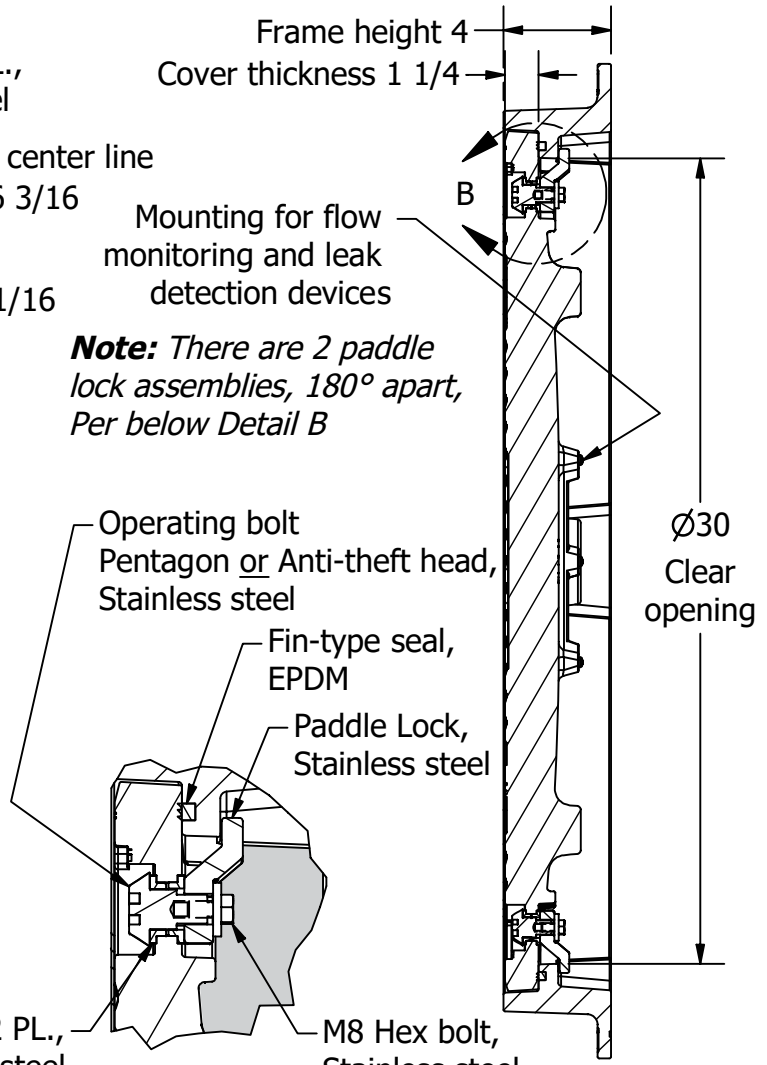
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Youngstown, Ohio
www.trumbull-mfg.com

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



50,000 lbs. load rating, H-25



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

DETAIL B

(Dimensions are in inches)

SECTION A-A

Frame part number:
367-5794

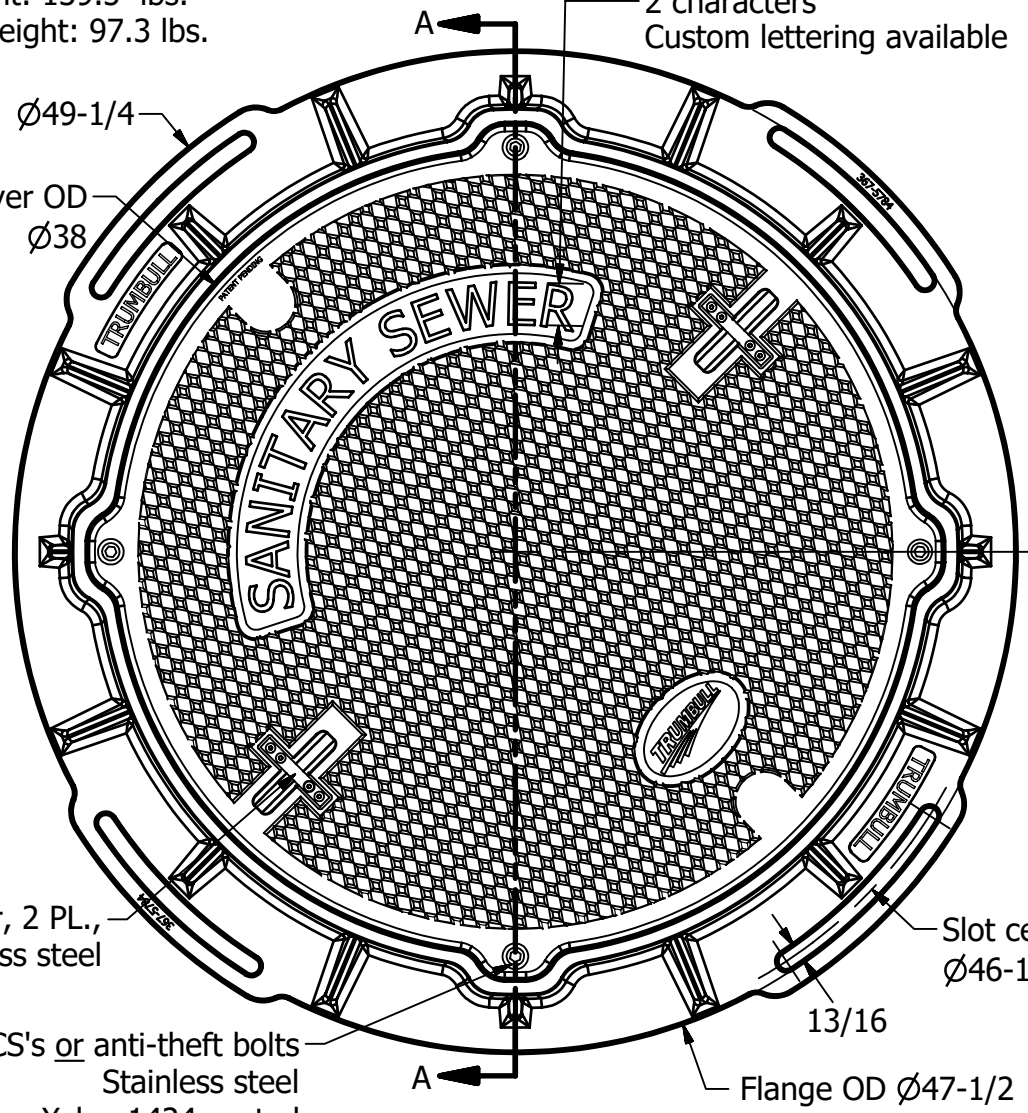
Lid part number:
367-5900 (Sanitary Sewer)
367-5901 (Water Meter)

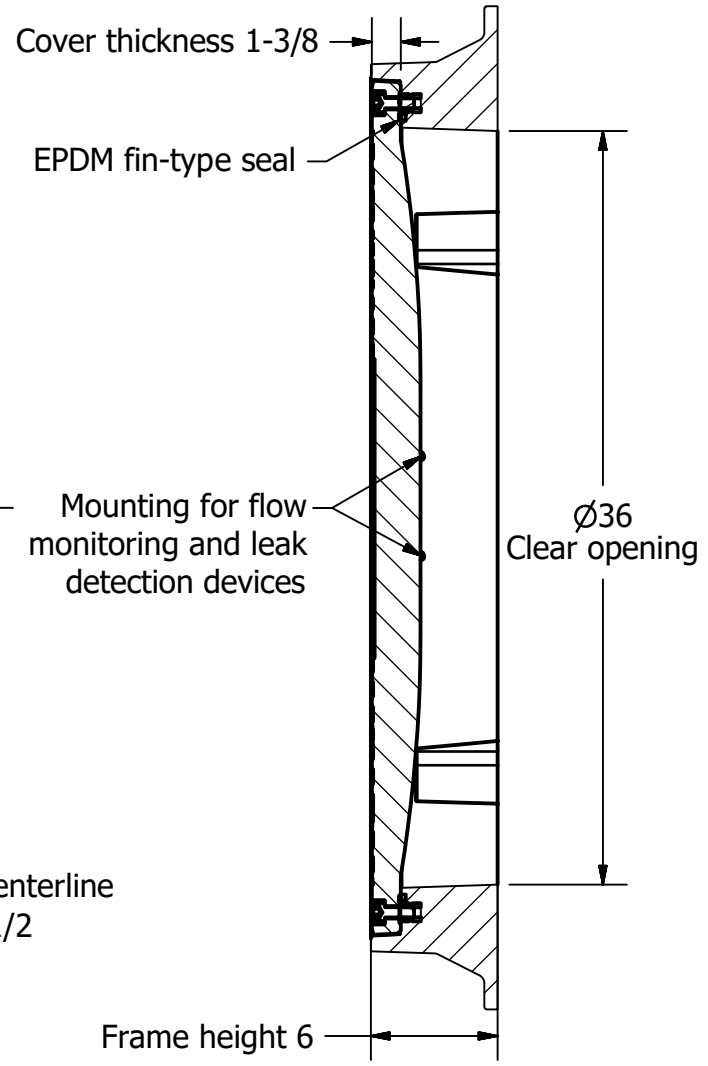
32" Manhole Lid & Frame (30" Frame Clear Opening, Paddle Lock) Drawn to Scale	Drawn: BJE 02/24/20	Original document	***Trumbull Manufacturing*** Youngstown, Ohio www.trumbull-mfg.com

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

50,000 lbs. load rating, H-25





SECTION A-A

(Dimensions are in inches)

Frame part number:
367-5784

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

38" Manhole Lid & Frame
(36" Frame Clear Opening, Bolt Down)
Drawn to Scale

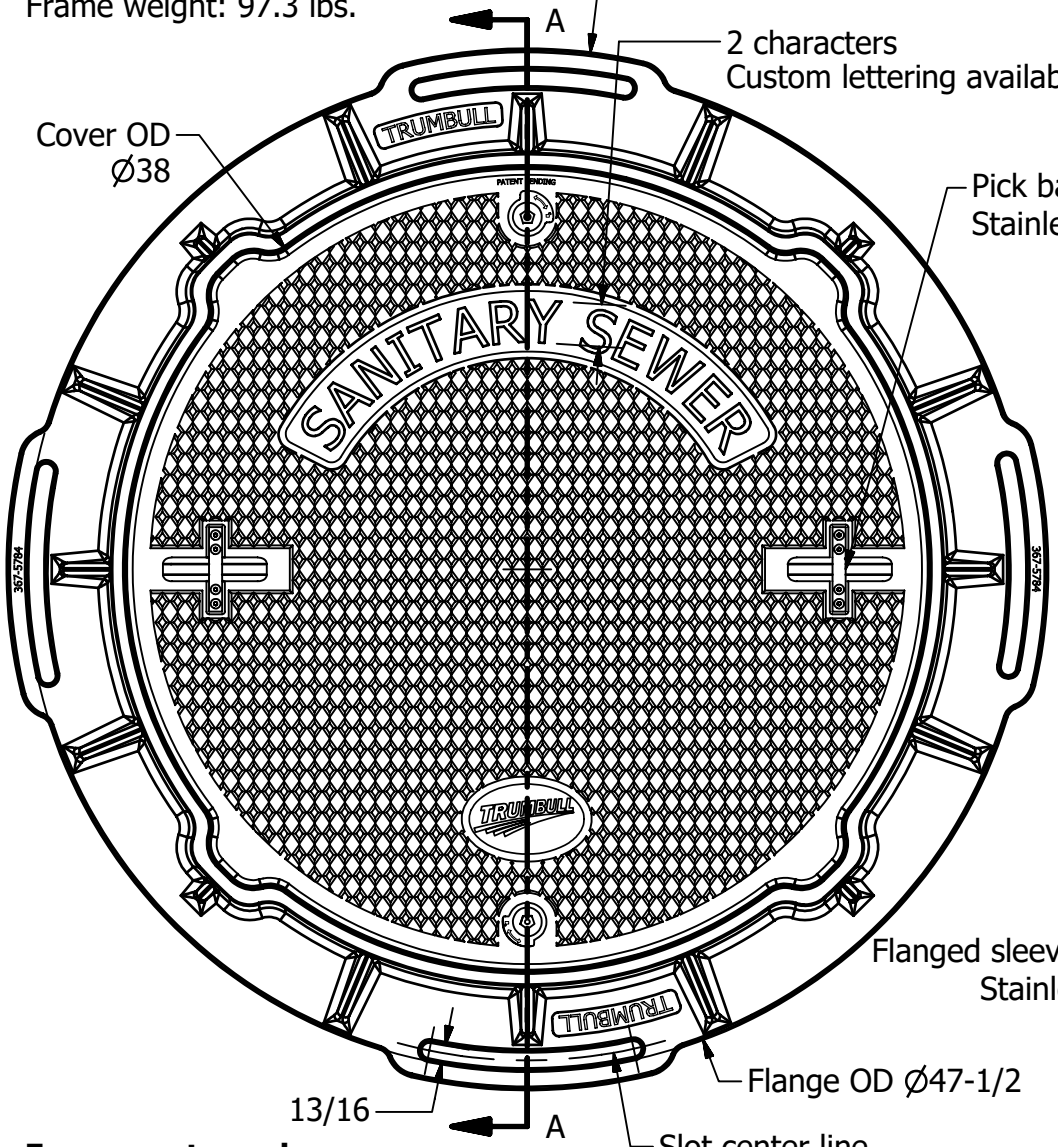
Drawn:	Revision:	
BJE 09/28/18	(A) BJE 05/13/19	

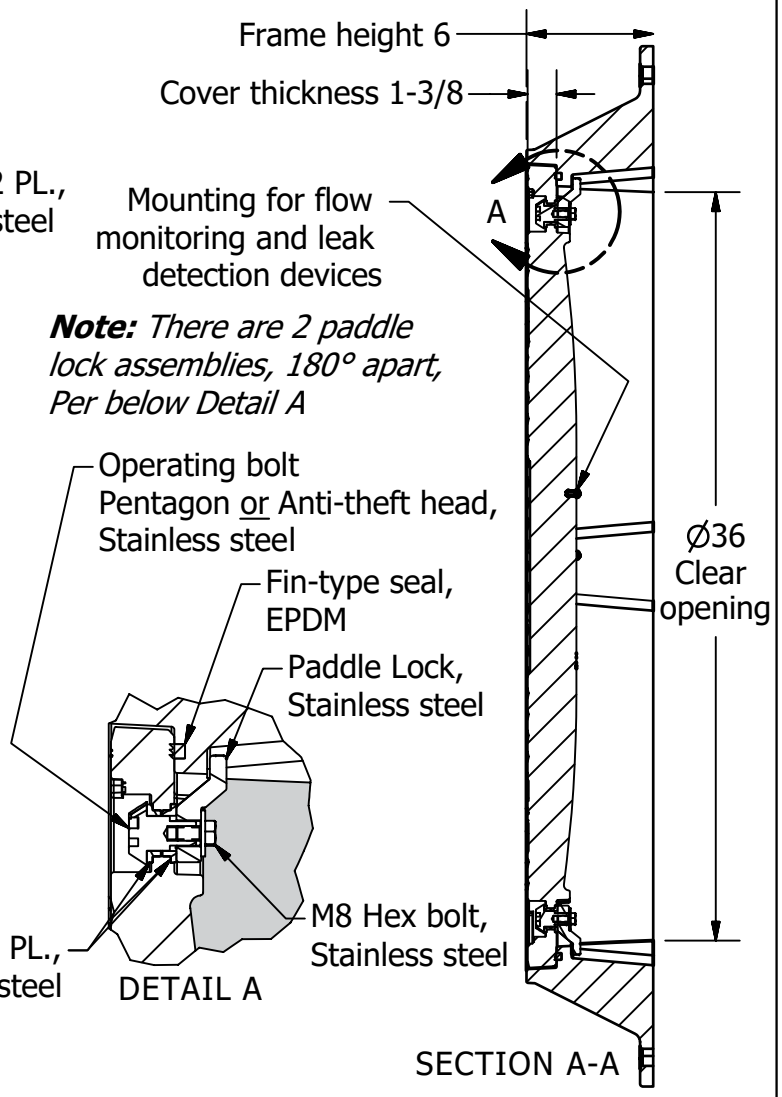
Trumbull Manufacturing
Youngstown, Ohio
www.trumbull-mfg.com

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

50,000 lbs. load rating, H-25





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

Frame part number:
367-5784

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

(Dimensions are in inches)

38" Manhole Lid & Frame (36" Frame Clear Opening, Paddle Lock) Drawn to Scale	Drawn: BJE 09/28/17	Revision: A BJE 05/13/19	***Trumbull Manufacturing*** Youngstown, Ohio www.trumbull-mfg.com

ADDITIONAL SECURITY FOR METER AND MANHOLE LIDS

SECURITY BOLTS...

Made from stainless steel



...FOR WORM GEAR LIDS

Item №	For Frames . . .	Weight
167-0069 *	10”-12”, 15”; 21” monitor cover	0.10 lbs.
167-0048 **	Larger Size Worm Gears	0.25 lbs.

...FOR PADDLE-LOCK FRAMES AND COVERS

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

Don't forget the Custom KEY

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

* 316 Stainless Steel
** 17-4 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

Item №	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.

Don't forget the Custom KEY

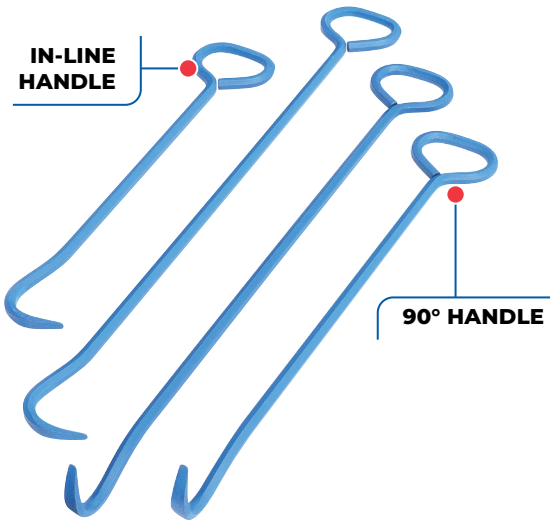
Item №	Frame	Weight
167-0152	Key Only	0.15 lbs.
367-4403	Key, with T-Handle	----

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

Item №	Overall Length	Weight
367-4286	24”	3.35 lbs.
367-4290	36”	4.50 lbs.

90° HANDLE

Item №	Overall Length	Weight
367-4288	30”	3.85 lbs.
367-4289	36”	4.45 lbs.

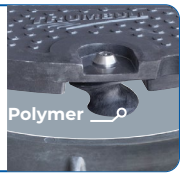
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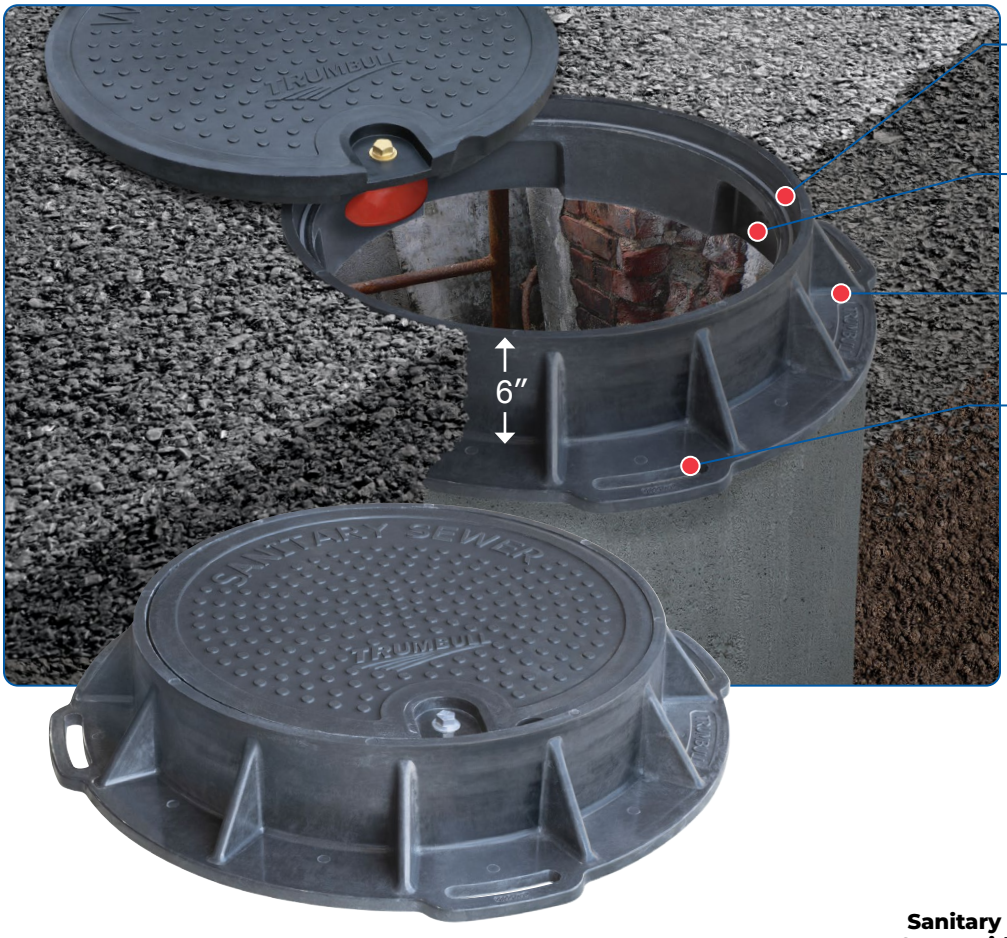
COMPOSITE MANHOLE FRAMES AND COVERS

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.

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





EPDM SEAL
prevents infiltration

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

WIDE FLANGE DIAMETER

FRAME SLOTS
allow easy handling and anchoring to manhole

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

				Frame	Sanitary Sewer Lid	Water Meter Lid	
Flange OD	*Dimensions of Lids that will Fit*	*Height*	*Locking Mechanism*	*Item №*	*Item №*	*Item №*	*Total Weight*
34-1/2”	25-1/2” x 1-1/4”	6”	Worm Gear	**367-5635**	**367-5626**	**367-5528**	109.50 lbs.

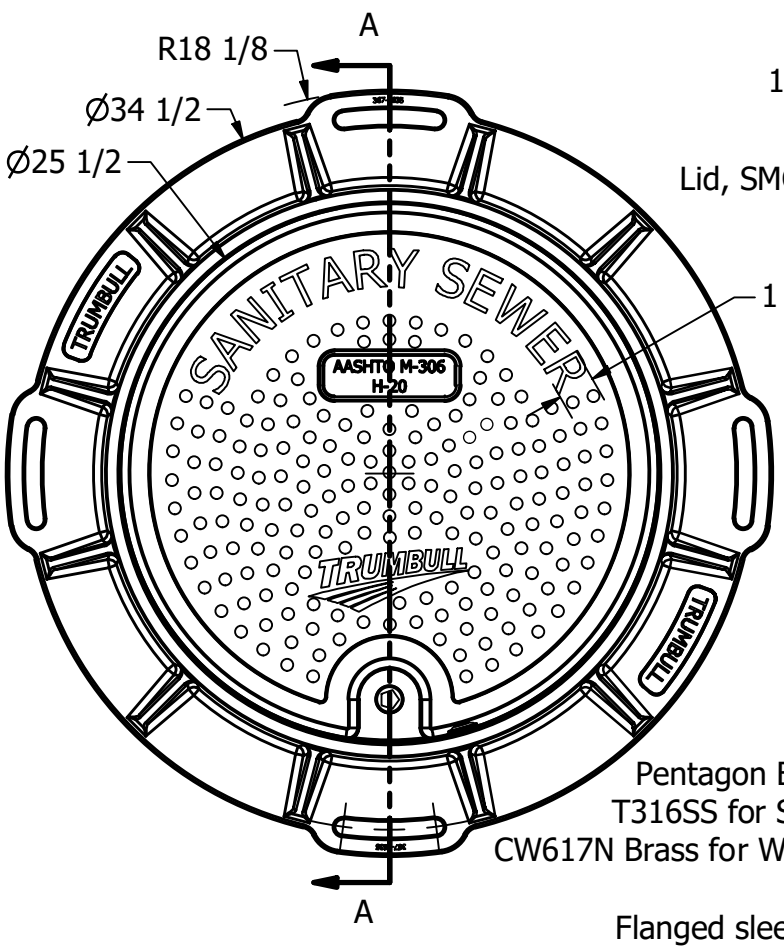
For dimensions, load ratings and additional options, refer to the product information charts on pages 24–30 (WATER METER) and pages 47–48 (SANITARY SEWER).

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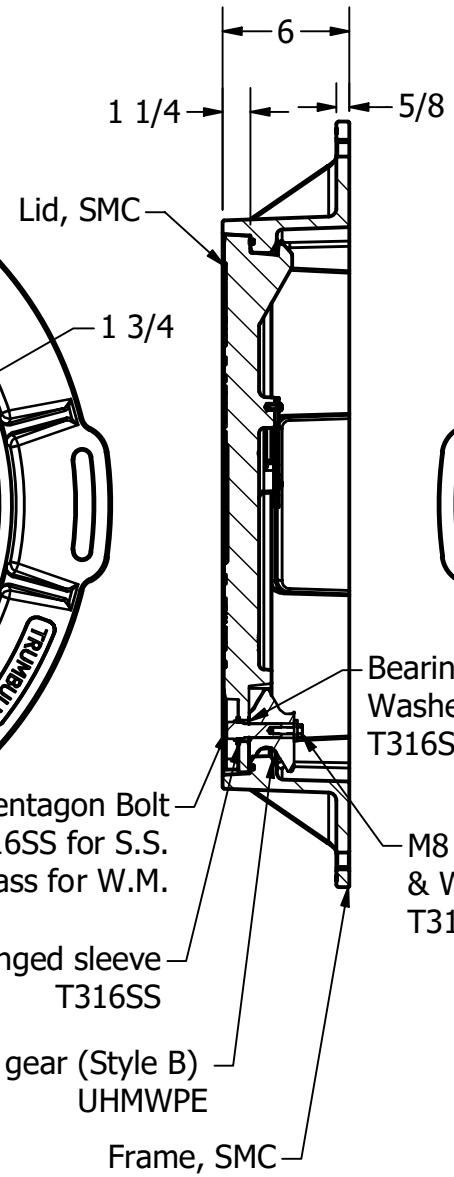
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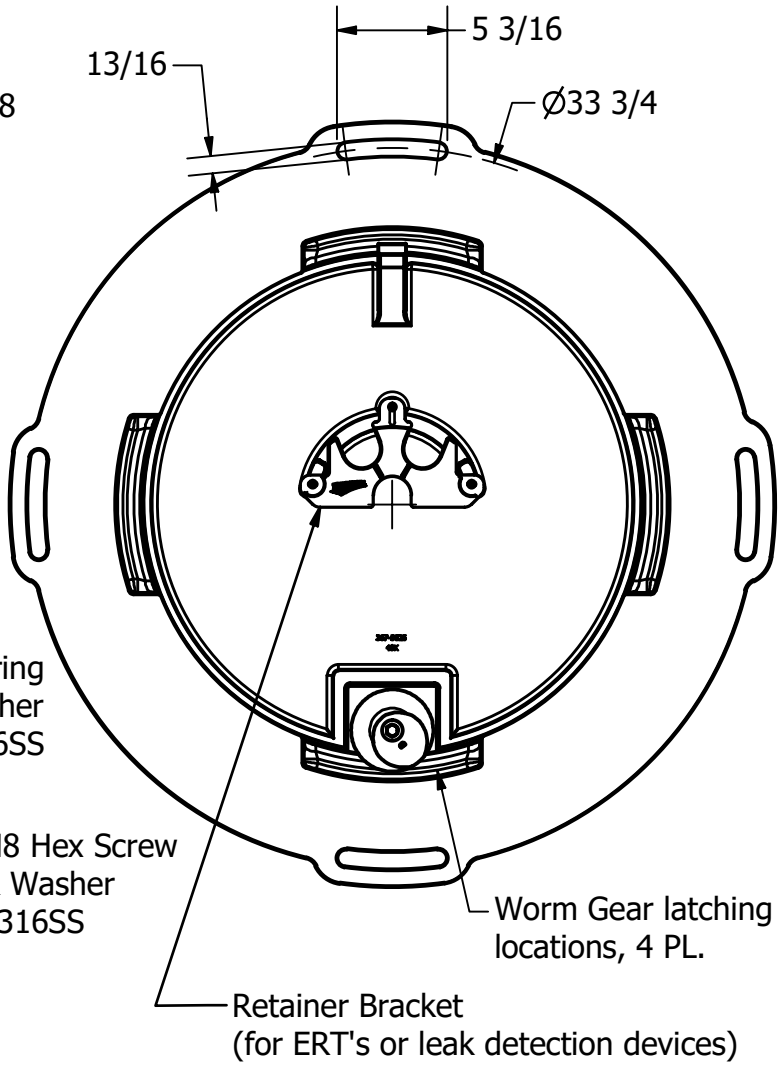
Lid weight = 51.5 lbs.
Frame weight = 58 lbs.

40,000 lbs. load rating, H-20



SECTION A-A





Frame part number:
367-5635
Lid part number:
367-5626 (Sanitary Sewer)
367-5528 (Water Meter)

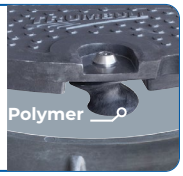
25-1/2" x 1-1/4" Lid & Frame (23-7/8" Frame Clear Opening) Drawn to Scale	Drawn: BJE 12/05/19	Original Document	***Trumbull Manufacturing*** Youngstown, Ohio www.trumbull-mfg.com

COMPOSITE MANHOLE FRAMES AND COVERS

WORM GEAR STYLE – FOR USE WITH 23-3/4" X 1" COVERS

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

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





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

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

FRAME SLOTS

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

				Frame	Sanitary Sewer Lid	Water Meter Lid	
Flange OD	*Dimensions of Lids that will Fit*	*Height*	*Locking Mechanism*	*Item №*	*Item №*	*Item №*	*Total Weight*
31-3/16”	23-3/4” x 1”	4”	Worm Gear	**367-5623**	**367-5624**	**367-8910**	79.60 lbs.

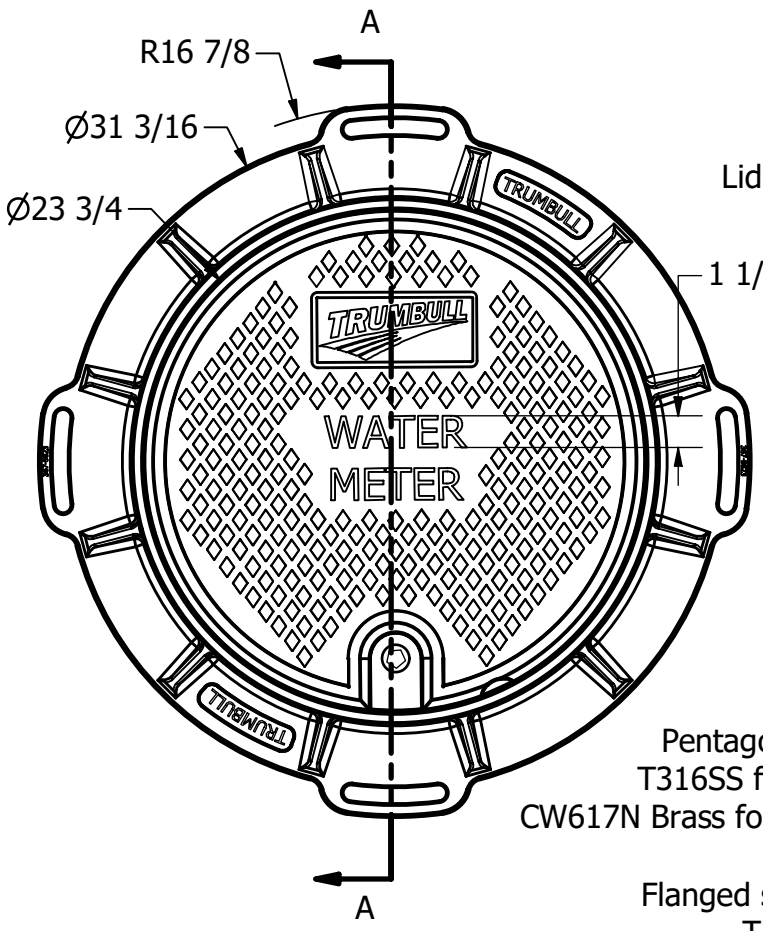
For dimensions, load ratings and additional options, refer to the product information charts on pages 24–30 (WATER METER) and pages 47–48 (SANITARY SEWER).

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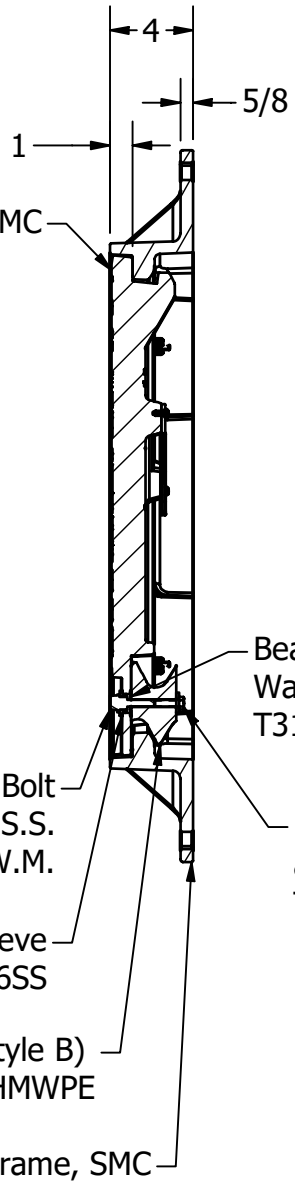
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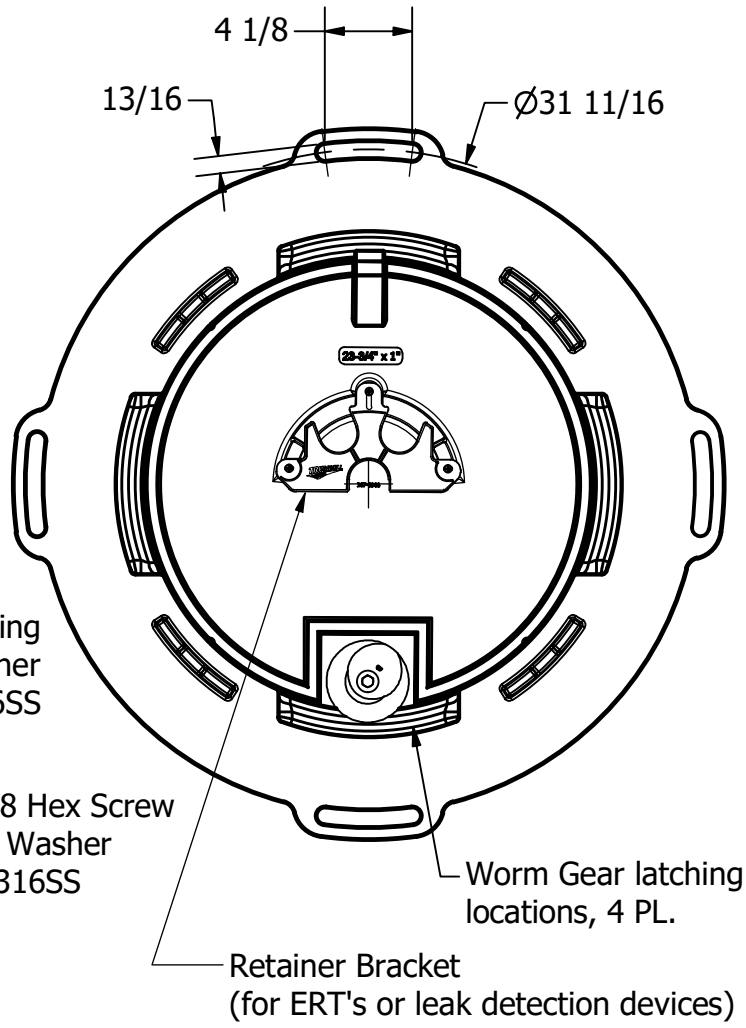
Lid weight = 44.3 lbs.
Frame weight = 35.3 lbs.

40,000 lbs. load rating, H-20



SECTION A-A





Frame part number:
367-5623
Lid part number:
367-5624 (Sanitary Sewer)
367-8910 (Water Meter)

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

Drawn: BJE 12/09/19

Original Document

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

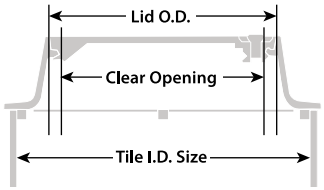
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Composite Lids

"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 DIMENSIONS, LOAD RATINGS, TYPES AND MATERIALS		FITS FRAME TYPES	SOLID LID No Antenna Recess
21-3/8" OD	**40,000 lbs. / Composite**	**Capitol Foundry #14000-10 Richmond, VA**	**367-5695**
Clear Opening: 19-13/16" Rim Thickness: 15/16" "SEWER"	DROP-IN STYLE Solid Lid* with Pick Hole Retainer Bracket		28.60 lbs.
22-3/4" OD	**40,000 lbs. / Composite**	**EJ 1020, Neenah R-1580**	**367-5619**
Clear Opening: 21" Rim Thickness: 1-11/16"	DUCTILE IRON WORM GEAR Solid Lid* Retainer Bracket		45.70 lbs.
23-3/4" OD	**40,000 lbs. / Composite**	**EJ 1450 and 1690 Neenah R-1771, Neenah R-1785**	**367-5622**
Clear Opening: 21-1/2" Rim Thickness: 1"	DUCTILE IRON WORM GEAR ▪▪▪ Solid Lid* Retainer Bracket		44.80 lbs.
23-3/4" OD	**40,000 lbs. / Composite**	**Trumbull Frame 367-5623**	**367-5624**
Clear Opening: 21-1/2" Rim Thickness: 1"	DUCTILE IRON WORM GEAR ▪▪▪ Solid Lid* Retainer Bracket		44.80 lbs.
25-1/4" OD	**40,000 lbs. / Composite**	**EJ 1700**	**367-5686**
Clear Opening: 22-3/4" Rim Thickness: 2" "SANITARY SEWER"	DUCTILE IRON WORM GEAR Solid Lid* Retainer Bracket		63.50 lbs.
25-1/4" OD	**40,000 lbs. / Composite**	**EJ 1700**	**367-5687**
Clear Opening: 22-3/4" Rim Thickness: 2" "CONFINED SPACE NEORSD"	DUCTILE IRON WORM GEAR Solid Lid* Retainer Bracket		63.50 lbs.

Continued on the right.

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

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

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Composite Frame and Cover Assemblies

"SANITARY SEWER"

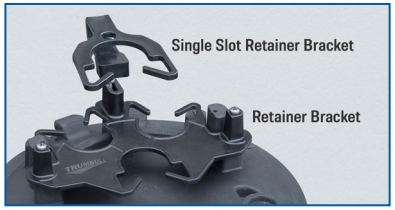
LETTERING: Lids normally furnished marked "SANITARY SEWER", special lettering available.
SEAL: All Frame and Cover Assemblies are sealed by an EPDM gasket.
BOLT DOWN LIDS: Are secured to frames with four Xylan coated stainless screws, see page 30 for optional security screws.
PADDLE LOCK LIDS: Are secured to frame with pentagon bolt, see page 30 for optional security bolts.

LID DIMENSIONS, LOAD RATINGS, TYPES AND MATERIALS		FITS FRAME TYPES	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

ADDITIONAL NOTES
for Trumbull Meter and Manhole Lids

* Underside of solid lids provide the following options to mount antenna:

1. Trumbull Retainer Bracket, screwed to 3 posts, which will hold the following:
   - **ITRON SHELF MOUNT ADAPTER**
   - **ITRON THROUGH-THE-LID ADAPTER**, bracket can hold either one or two
   - **BADGER,** antenna bracket can hold either one or two
   - **NEPTUNE**, bracket can hold one R900 antenna
   - **SENSUS**, bracket can hold one antenna
   - **ZENNER**, bracket can hold one antenna
   - **MUELLER**, bracket can hold one antenna



2. A Trumbull retainer bracket can be mounted to the underside of lid to hold a flow monitoring device or other equipment.
3. Post adapters, screwed to one post on the lid:
   - **ITRON 100W ADAPTER**, item #**367-5796** (snap-in design)
   - **ITRON RIVA ADAPTER**, item #**167-5000** (snap-in design)
   - **BADGER LTE ADAPTER**, item #**367-5000**

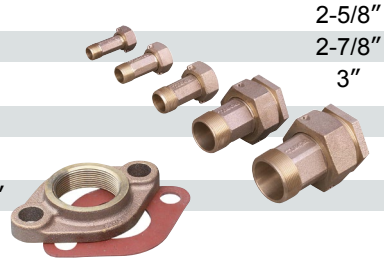
** Neptune (figure 8) holes accepts either Neptune Touch Read or R900 antennas.
*** X-Frame style lids will seat, but not hinge.
▪ Slots need to be cut or ground into existing frame in order for the paddle locks to lock in frame.
▪▪▪ A ductile iron worm gear is required when cover is used with an iron frame, and UHMWPE worm gear when used with a composite frame.

RELATED BRASS PRODUCTS

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.

ITEM №	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.

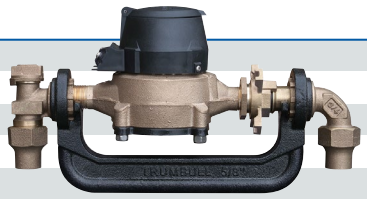
DESCRIPTION	ZINC-PLATED FASTENERS ITEM №	BRASS FASTENERS ITEM №	STAINLESS FASTENERS ITEM №
Brass Meter Flange Kit, 1-1/2″	379-2015	379-2025	379-2030
Brass Meter Flange Kit, 2″	379-2016	379-2026	379-2031



METER YOKES, EXPANSION CONNECTIONS AND GASKETS

Shown in more detail on page E-55.

ITEM №	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.

ITEM №	FORD №	ORIGINAL METER METER SIZE	ORIGINAL METER LAYING LENGTH	NEW METER METER SIZE	NEW METER LAYING LENGTH*	QUANTITY 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.

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