**PRODUCT CATALOG** WATERWORKS SPECIALTY PRODUCTS



# Specialty Products for the Waterworks and Valve Industries

Trumbull Manufacturing is an outgrowth of Trumbull Industries which was founded in 1922 in Warren, Ohio (Trumbull County). Manufacturing operations started in 1981 to offer specialty products for the Municipal and Industrial markets. In 1990, the Ludlow and Corey-Rensselaer hydrant product line was purchased. Trumbull's product line has increased steadily over the years, covering a wide variety of unique and quality products used in the waterworks and valve markets.

In 2017, Trumbull Manufacturing moved to a larger facility in Youngstown, Ohio, to accommodate growth and increase manufacturing capacity. Regional inventory is located in Rep warehouses in Orlando, Phoenix, Los Angeles, Dallas & Seattle.

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.

Trumbull Manufacturing sells to waterworks distributors, valve representatives and manufacturers both nationally and internationally.







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# Trumbull Manufacturing, Inc.3850 Hendricks Road, Youngstown, Ohio 44515Phone:Toll Free:330.270.7888877.504.1507330.392.0756www.trumbull-mfg.com

# Double Socket Ratchet Wrenches / Wrench Sets

**COLOR-CODED GRIPS** are cushioned and ergonomically contoured for comfortable use

HEAVY-DUTY RATCHET MECHANISM is sandwiched between steel plates for strength and protection

**O.D. TAPE** included with set



# 3-Wrench Set

- One 1-1/4" x 1-1/16" wrench
- One 1-1/8" x 15/16" wrench
- One 7/8" x 3/4" wrench
- One outside diameter tape
- Sturdy carrying case

Trumbull Item No.	Weight
364-9986	9.35 lbs.

Custom logos can be molded on the grips of our Double Socket Ratchet Wrenches. Inquire how we can put **YOUR** logo on the wrenches.

Trumbull's heavy-duty Double Socket Ratchet Wrenches can tighten nuts on long bolts or all-thread rod without bottoming out and have a simple lever-operated reverse feature.

To assure long service life and reliable operation, clean & oil mechanism regularly.

# Wrenches - Sold Individually

Grip Color	Large Socket	Small Socket	Large Socket Fits Hex Size	Small Socket Fits Hex Size	Trumbull Item No.	EXAMPLES OF LARGE SOCKET APPLICATIONS	EXAMPLES OF SMALL SOCKET APPLICATIONS
Blue	1-1/4″	1-1/16″	3/4″ Heavy	5/8″ Heavy	364-9982	4″ thru 24″ MJ Ftgs., 3/4″ Hex Bolts with Heavy Hex	3″ MJ Ftgs., Cast Couplings, Clamps, Tapping Sleeves
Green	1-1/8″	15/16″	3/4″ Standard	5/8″ Standard	364-9985	3/4" Flange Bolts with Standard Hex	5/8" Flange Bolts with Standard Hex, 14" thru 24" Hymax <sup>®</sup> Couplings
Yellow	7/8″	3/4″	9/16″ Standard & 1/2″ Heavy	1/2″ Standard & 7/16″ Heavy	364-9983	6″ thru 12″ Hymax <sup>®</sup> & other Couplings with 1/2″ Heavy Hex	1-1/2″ thru 4″ Hymax <sup>®</sup> Couplings, 1-1/2″ thru 24″ MaxiFit <sup>™</sup>



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# **Pivoting Handle Double Socket Ratchet Wrenches**



Adjustable handle helps get to those hard-to-reach nuts and bolts!



Adjustable handle illustration.

#### **DOUBLE SOCKET DESIGN**

Small socket fits heavy hex nuts on 5/8" bolts used on clamps, couplings, saddles and 3" Mechanical Joints. Large Socket fits heavy hex nuts on 3/4" bolts, used on 4" through 24" Mechanical Joints.

- Heavy-duty double socket incorporates a through design which can tighten nuts on long bolts or all-thread rod without bottoming out.
- Double socket permits use on either 5/8" or 3/4" Heavy Hex Nuts without changing sockets. Also eliminates common misplacement of loose sockets and introduction of dirt into the mechanism while changing sockets in the field.
- Mechanism design allows short stroke operation.
- · Heavy-duty ratchet mechanism is lubricated and enclosed in a sealed ductile iron casting to prevent debris from jamming.
- Wrench is 16" OAL.
- Painted black. •



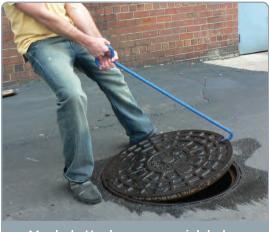
**OILER FEATURE** allows for easy lubrication without disassembly

Trumbull Item No.	Large Socket	Small Socket	Large Socket Fits Hex Size	Small Socket Fits Hex Size	Examples of Large Socket Applications	Examples of Small Socket Applications	Product Weight
364-9984	1-1/4″	1-1/16″	3/4" Heavy	5/8" Heavy	4″ thru 24″ MJ Ftgs., 3/4″ Hex Bolts with Heavy Hex	3″ MJ Ftgs., Cast Couplings	4.75 lbs.
364-9955	36mm	30mm	M24	M20	400mm - 500mm Pipe Flanges	200mm - 350mm Pipe Flanges	2.15 KG



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# Manhole Cover Hooks



Manhole Hooks engage pick holes.

Trumbull Manhole Cover Hooks are made of 5/8" hexagonal steel. The 1/2" point engages the lid of the manhole cover.

Hooks are painted in Safety Blue enamel paint for safety and durability.

# In-Line Handle

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

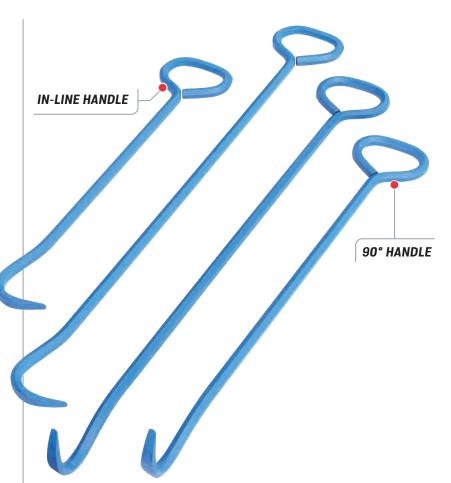
# 90° Handle

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





Manhole Hooks also engage vent holes.





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Internal core works on pin-type Hose Couplings or Hydrant Adapters.



Works on lug-type Hose Couplings or Hydrant Adapters.



Grips and retains pentagon or square operating nuts.

# Hydrant Operating Wrenches



Other sizes and shapes available upon special request. Please give dimensions measuring "point to flat" for pentagon nuts or across center from "flat to flat" for square and hexagon nuts.

One-piece (non-adjustable) ductile iron casting, available with square or pentagon opening to fit specific operating nut sizes. These wrenches won't round the corners of operating nuts as other wrenches tend to do.

Also serves as a spanner wrench to attach or remove hose couplings (both pin-type and lug-type). 15" overall length. Enamel finish.

# Pentag

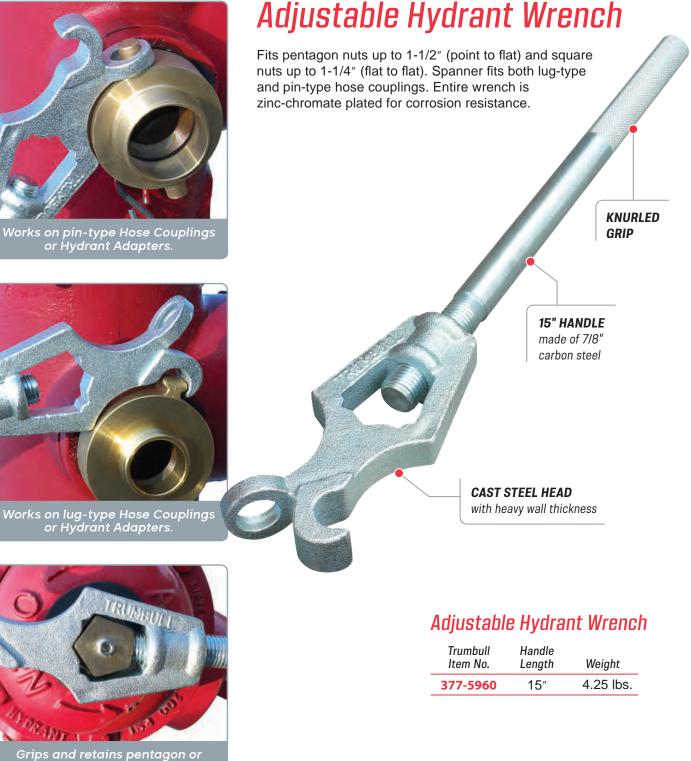
ntagon N	luts				
Trumbull Item No.	Size	Model Number	"A" Base	"В" Тор	Weight
377-5952	1-1/2″	B41	1-5/8″	1-1/2″	2.45 lbs.
377-5953	1-1/4″	B18	1-3/8″	1-1/4″	2.55 lbs.

Sc	quare Nuts					
	Trumbull Item No.	Size	Model Number	"A" Base	"В" Тор	Weight
	377-5951	1″	A12	1-1/8″	1″	2.60 lbs.
	377-5947	7/8″	A3	1″	7/8″	2.70 lbs.

See separate literature on Adjustable Hydrant Wrenches and Hydrant Wrenches for Storz connections.



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Grips and retains pentagon c square operating nuts.

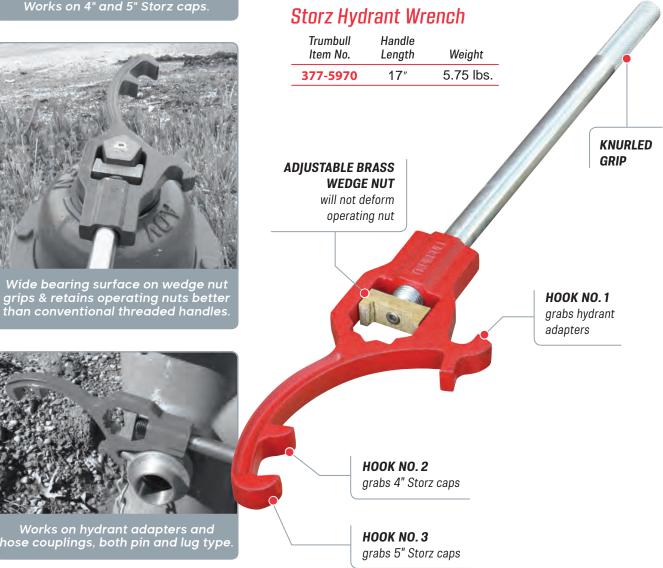


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# Storz Adjustable Hydrant Wrench

This Trumbull hydrant wrench works on 4" and 5" Storz caps, rocker lug and pin-type fittings, as well as hydrant adapters.

Adjustable brass wedge nut grips a variety of sizes and shapes of operating nuts, up to 1-3/4" pentagon and 1-1/4" square. Head is made of cast steel; handle made of high-tensile steel.





Works on 4" and 5" Storz caps



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# Diameter Tapes

Blade is 1/4" Width x 10' Length, Available in Both Inch and Metric Models

Most competitive models of diameter tapes can only measure up to 20" or 24" pipe...

TRUMBULL'S TAPE WILL MEASURE DIAMETERS UP TO AND INCLUDING 36" DUCTILE IRON PIPE.

Diameter Tapes are for identification of pipe, not for precision measurements. For precision measuring tapes, contact Trumbull.



# Linear Markings

00

First 12 inches of front measures to 1/32nds. Balance of front measures to 1/16ths.

# 1 INCHES

#### **Diameter Markings**

Diameter on back to 100ths of inches.

OO DIA. INCHES TO 100THS. 10 20 30 40 50



Don't buy a tape that may not be long enough to do the job... Trumbull's 10 foot tapes can measure the outside diameter of 36" ductile pipe (38.30" O.D.)

# Diameter Tapes

- A necessity for any water utility or waterline contractor. Know your pipe diameters in order to size your clamps, couplings and tapping sleeves accurately!
- Automatically converts circumference of a pipe to its diameter.
- Yellow tape with black markings.
- 10 ft. (3 Meter) length, see note on left.
- Spring action returns blade to case.
- Gift boxed.

Inquire how we can put YOUR logo on the label.

Trumbull Item No.	Measurement Scales	Weight
217-6653	Linear Inch x Diameter Inch	0.20 lbs.
217-6656	Linear Metric x Diameter Metric	0.20 lbs.
217-6659	Diameter Inch x Diameter Metric	0.20 lbs.



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#### T-Handle Main Valve Keys

- Handles & shafts fabricated from 1" Sch 40 steel pipe
- Cast steel socket that fits 2" square operating nut
  For more info concerning the Lighted Main Valve

Keys, see page A-11.	5	5		
.,			LIGHTED	

Weight	Trumbull Item No.	<b>3</b> Trumbull Item No.
9.15 lbs.	367-5016	spec/ord
10.70 lbs.	367-5017	spec/ord
12.10 lbs.	367-5018	367-5118
13.35 lbs.	367-5019	367-5119
15.30 lbs.	367-5020	367-5120
17.10 lbs.	367-5021	spec/ord
18.80 lbs.	367-5023	367-5123
20.00 lbs.	367-5026	spec/ord
22.00 lbs.	367-5028	spec/ord
	9.15 lbs. 10.70 lbs. 12.10 lbs. 13.35 lbs. 15.30 lbs. 17.10 lbs. 18.80 lbs. 20.00 lbs.	Weight         Item No.           9.15 lbs.         367-5016           10.70 lbs.         367-5017           12.10 lbs.         367-5018           13.35 lbs.         367-5019           15.30 lbs.         367-5020           17.10 lbs.         367-5021           18.80 lbs.         367-5023           20.00 lbs.         367-5026

# Gate Valve Speed Wrench

- Allows use of both hands for extra leverage
- Revolving handle allows quick opening & closing

<b>1</b> Trumbull Item No.	Handle Length	Weight	Ideal for operating valves with 2" AWWA nut in the trench or
367-9981	18″	6.20 lbs.	in the yard.

Ring Handle Main Valve Keys

- Features a forged steel top ring
- 1" Sch 40 steel pipe shafts
- Cast steel socket fits 2"
   square operating nut

Length	<b>2</b> Trumbull Item No.	Weight
4 ft.	367-5124	11.40 lbs.
5 ft.	367-5125	13.00 lbs.
6 ft.	367-5126	14.30 lbs.
7 ft.	367-5127	15.50 lbs.
8 ft.	367-5128	18.00 lbs.

For special lengths not shown here, please inquire.

# Telescoping Main Valve Keys

- Adjustable to fit valve depths of 6' through 10'
- 1-1/2" square upper shaft, 1-1/4" square lower shaft
- Steel socket cast with open top mud relief
- Socket fits 2" square operating nut
- Adjustable in one foot increments with wire lock pin

<b>4</b> Trumbull Item No.	Length	Weight
367-5129	6 ft. through 10 ft.	38.50 lbs.



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# **Curb Box Rods**

			Bernard States The States S Curb Box F		l	/Minneapolis Curb Box Rol shed with brass	ds
			de of 1/2" square	e carbon steel	Length	Trumbull Item No.	Weight
			ctile iron end cas nished with bras	•	24″	367-4084	3.10 lbs
		i u	Trumbull		30″	367-4085	3.20 lbs
		Length	Item No.	Weight	36″	367-4087	3.70 lbs
	1	30″	367-4230	3.00 lbs.	42″	367-4090	4.20 lbs
Buffalo Erie/N	<b>V</b> Inneapolis	36″	367-4232	3.50 lbs.	48″	367-4092	4.70 lbs
Danalo Enom	innicapono						



# #1302 Curb Stop Wrenches

- Designed to shut off 3/4" through 2" curb stops
- Made of 5/8" round carbon steel rod
- Ductile iron bottom casting

	Length	Trumbull Item No.	Weight
	3 ft.	367-4293	4.00 lbs.
	4 ft.	367-4294	6.00 lbs.
No. 1302	5 ft.	367-4360	7.00 lbs.
casting fits directly on	6 ft.	367-5025	8.00 lbs.
t-head of	7 ft.	367-4362	9.00 lbs.
curb stops	8 ft.	367-4296	10.00 lbs.

# Telescoping Curb Stop Wrenches

<ul> <li>Available in two size ranges</li> <li>Thumb screw allows for infinitely variable adjustment within the size range of each model</li> <li>Inner shaft is 1/2" solid square rod</li> <li>Outer shaft is 5/8" square tubing</li> <li>Combination socket bottom casting (see details of casting on page A-10)</li> </ul>			Thumb Screw Operated
Length Range	<b>2</b> Trumbull Item No.	V	Veight
4'6" through 8'	367-4370	4	.00 lbs.

367-4371

Curb Wrenches and Keys are continued on page A-10.

6' through 10'

10.00 lbs.

Weight 3.10 lbs. 3.20 lbs. 3.70 lbs. 4.20 lbs. 4.70 lbs.



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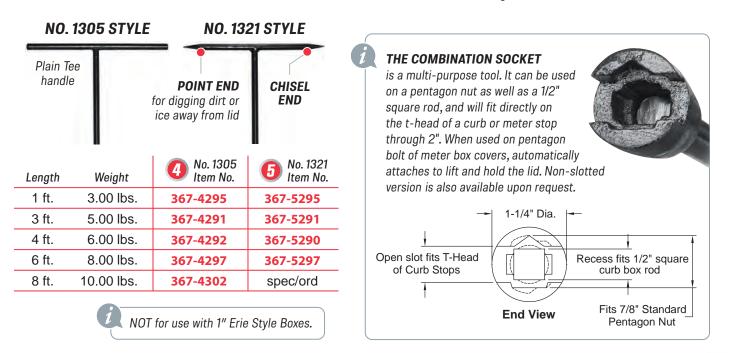
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# Curb Wrenches and Keys, Continued

#### No. 1305 and No. 1321 Combination Curb Box Keys For BUFFALO Type Boxes

Made of 5/8" round carbon steel with cast steel combo casting.



# No. 1306 and No. 1322 Curb Box Keys

For ERIE & MINNEAPOLIS Type Boxes



**SLOTTED END** For use on Erie & Minneapolis style rods. Will fit inside a curb box with a 1" pipe upper section

Length	Weight	Plain Handle	<b>6</b> No. 1306 Item No.	7 No. 1322 Item No.
2 ft.	5.00 lbs.		367-4277	spec/ord
3 ft.	7.00 lbs.		367-4278	367-5278
4 ft.	9.00 lbs.	367-4264	367-4280	367-5280
5 ft.	11.00 lbs.	367-4265	367-4276	spec/ord
6 ft.	13.00 lbs.	367-4266	367-4275	spec/ord
7 ft.	15.00 lbs.	367-4267	367-4274	spec/ord
8 ft.	17.00 lbs.	367-4268	spec/ord	spec/ord

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Lighted Valve and Curb Keys

Trumbull Lighted Keys make it easier for the operator to see the 2" nut on a main valve or t-head of a curb stop. Both models feature handles and shafts

fabricated from Sch 40 steel pipe and extra strength tool castings.

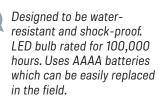
Illuminates the inside of curb or valve box.



Light is recessed to protect from damage



Simple button-operated light switch.



# **Lighted Main Valve Keys**

- Handles and shafts fabricated from 1" Sch 40 steel pipe.
- Cast steel casting fits 2" square operating nut.
- Bottom casting has mud slots that prevent packing of dirt inside socket.



# **Lighted Curb Keys**

- Handles and shafts fabricated from 3/4" Sch 40 steel pipe.
- Combination curb key casting fits t-head of curb stops up to 2", standard pentagon nut and various curb box rods.
- The curb key casting has an OD of 1-1/4" and is designed for Buffalo curb boxes, meter boxes, or arch pattern boxes with 1-1/2" or larger upper pipe sections (see page A-10 for more details).

# Lighted Main Valve Keys

Length	Trumbull Item No.	Weight
4 ft.	367-5118	12.80 lbs.
5 ft.	367-5119	14.10 lbs.
6 ft.	367-5120	15.40 lbs.
8 ft.	367-5123	18.00 lbs.

# **Lighted Curb Keys**

Length	Trumbull Item No.	Weight
3 ft.	367-4391	6.35 lbs.
4 ft.	367-4392	6.40 lbs.
6 ft.	367-4397	8.45 lbs.



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# Pentagon Hand Keys

Medium Carbon Steel Investment Casting - Plated Finish



# Model HK-O

Fits standard pentagon heads. The socket cavity retains the head during removal, for ease in lifting the lid of a meter box from the frame. The convenient hammer and pick ends assist in breaking ice and clearing debris. A square shank is provided on the socket for applying extra torque.

Trumbull Item No.	Model	Weight
367-4298	HK-0	0.85 lbs.
367-4331	HK-1	0.60 lbs.
367-4332	HK-2	0.90 lbs.
367-4333	HK-3	1.00 lbs.

See pages A-9 through A-10 for Valve and Curb Keys.

Standard

Waterworks

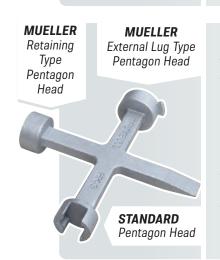
Pentagon Head



# Model HK-1

Fits standard pentagon heads. Slot in socket operates T-heads of curb and meter stops. The socket cavity also retains the head during removal, for ease in lifting the lid of a meter box from the frame.The tee-handle has a blunt rounded end for pounding, and a curved, tapered end to assist in breaking ice and clearing debris.





# Model HK-2

The HK-2 has two pentagon sockets, plus a tapered-end prying blade. Socket 1 fits standard pentagon heads, and has a slot to operate T-head of curb and meter stops. Socket 2 fits large pentagon heads. Both sockets have cavities to retain the pentagon head during removal, for ease in lifting the lid of a meter box from the frame. The tapered blade end is designed for prying, or for use as a chisel.

# Model HK-3

The HK-3 has three pentagon sockets, plus a tapered-end prying blade. Socket 1 fits standard pentagon heads, and has a head-retention cavity. It also has a slot to operate T-heads of curb and meter stops. The other two sockets both fit the 1-1/16" pentagon head used on Mueller meter boxes. One socket has the head-retention cavity to retain the pentagon head during removal; the other socket has the external lug which engages the lid recess. Both methods assist in lifting the lid of a meter box from the frame. The tapered blade end is designed for prying, or for use as a chisel.



#### Large Waterworks Pentagon Head



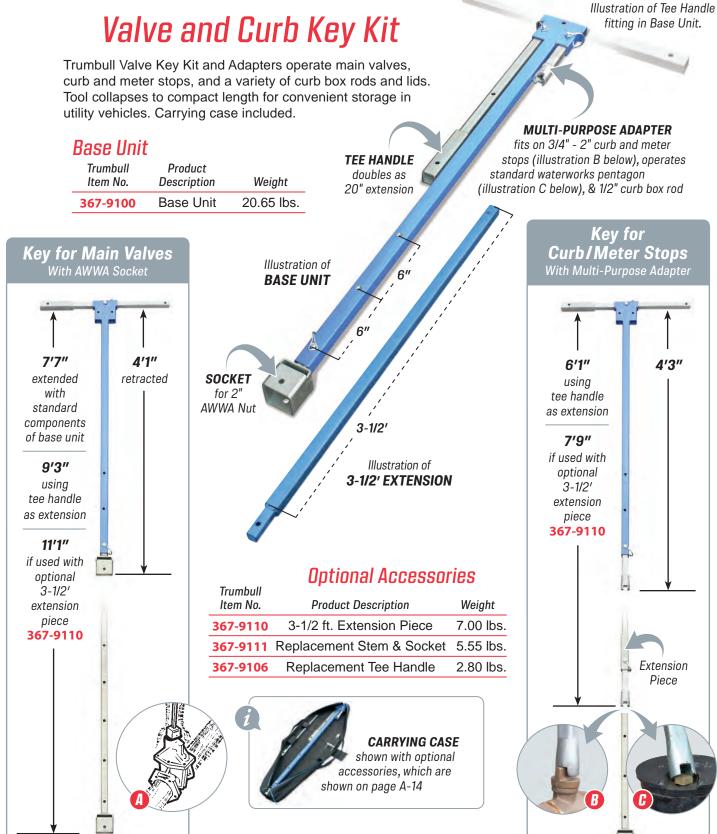




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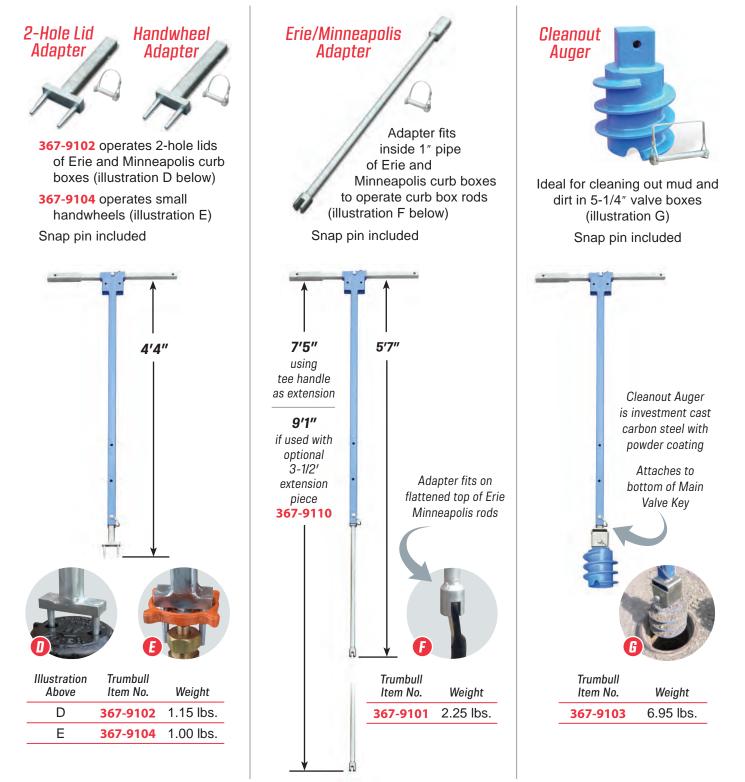


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# Valve and Curb Key Kit, Optional Accessories





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# Soil Probe Rods

Used for Locating Buried Lines – Insulated and Uninsulated Types

<b>HEAVY-DUTY STEEL SHAFT</b> 1/2" diameter	INSULATED HANDLE 1-3/16" diameter x 9-1/2" long Insulated Type Soil Probe Rods
•	Our insulated type Soil Probe Rods feature non-conducting, molded rubber handle and shield on upper section of shaft. Molded rubber coverings have been laboratory tested to assure protection against electrical shock from accidental contact with buried SECONDARY electrical lines. Replaceable alloy steel tip.
	The insulation <b>WILL NOT</b> provide protection against contact with <b>PRIMARY</b> voltages. Always contact power company to locate underground electrical lines before digging!

	Insulate	ed Type	Carbor Uninsula		Stainles Uninsula		Econor	пу Туре
Overall Length	Trumbull Item No.	Weight						
3 ft.			367-9082	2.50 lbs.	367-9086	2.50 lbs.		
4 ft.	367-9080	4.00 lbs.	367-9083	2.80 lbs.	367-9087	2.80 lbs.	367-9081	4.00 lbs.
5 ft.	367-9090	4.25 lbs.	367-9084	3.25 lbs.	367-9088	3.25 lbs.	367-9091	4.25 lbs.
6 ft.			367-9085	3.60 lbs.	367-9089	3.60 lbs.		

REPLACEMENT PARTS Alloy Steel Tip - for Insulated Type Probe Rods367-9095Stainless Tip - for SS & CS Uninsulated Type Probe Rods367-9097Grips - for SS & CS Uninsulated Type Probe Rods (2-pack)367-9096

#### Uninsulated Type Soil Probe Rods

Our economy type Soil Probe Rods feature a shaft and handle made from 1/2" rod and an epoxy-applied tip.

Our "Plus" model features replaceable tips and handle grips and are made from 3/8" rod. Handle grips **DO NOT** provide insulation from electrical lines. Available in both carbon steel and stainless steel models.



0.10 lbs.

0.10 lbs.



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# The **KnuckleSÆVER**™

Whether you are flaring Type K soft copper, or using it to "re-round" copper for use with compression fittings, the KnuckleSAVER™ flaring tool provides safety from injuries.

The shank of the flaring tool is drilled out and provided with a pressure relieving hole, to allow for use with lines that cannot be shut down.

#### 3-in-1 Flaring Tools ...

- 1 FLARES Type K copper

# <text>

Conventional Flaring Tool



LONG SHANK Helps re-round kinked or bent copper. Ideal for compression brass



#### DRILLED END

Allows water pressure to be relieved through hole on side; useful when flaring must be done under pressure

# 3-in-1 Flaring Tools

Trumbull Item No.	Size	Model Number	Weight
368-0500	3/4″	FRP-075	2.25 lbs.
368-0502	1″	FRP-100	2.65 lbs.
368-0504	1-1/2″	FRP-150	4.50 lbs.
368-0506	2″	FRP-200	6.50 lbs.

**ALWAYS** use a brass hammer and safety glasses when using any striking tools.

# **Brass Hammer**

Trumbull Item No.	Nominal Size	Weight
207-7088	3 lbs.	3.20 lbs.



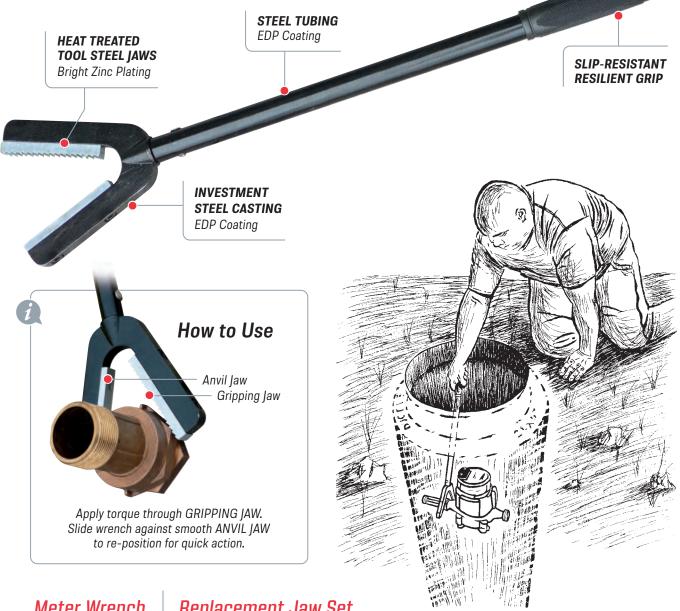
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# Meter Wrench

Trumbull's Meter Wrench is used to install and remove meter couplings in buried meter boxes and meter pits. The 16" handle allows worker easy access into these confined areas. Works with 1/2" through 1-1/2" meter couplings. Special features include resilient grip on handle and replaceable jaws.



Meter Wrench 16" handle

Trumbull Item No.	Weight
368-0620	2.50 lbs.

**Replacement Jaw Set** 

Includes set of jaws and screws Trumbull Item No. Weight

5.	368-0625	0.35 lbs.



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# Distance Measuring Wheel

**Includes Storage Bag** 

**PUSH LEVER** resets numbers

Trumbull's heavy-duty Distance Measuring Wheel is ideal for laying out and measuring utility lines, road work and other types of construction. Lightweight design makes it easy to use, reducing fatigue. Folding handle design requires minimal storage space and fits conveniently inside padded storage bag.

Internal axle bearings provide for long life under a wide variety of applications. Six-figure counter records long distances up to 100,000 ft. over most types of terrain. Large counter makes reading measurements easy. Hand-grip brake eliminates unwanted measurement at turns or when maneuvering around objects not to be measured.

Handle, front forks and kickstand are made of coated carbon steel. Wheel rim and hand grip brake made of ABS. Tire is made of 90-durometer black PVC. TRIGGER-OPERATED BRAKE

#### **Measuring Wheel Specs**

Wheel Diameter: 12-1/2" Extended Length: 3'8" Measuring Wheel Weight: 4.90 lbs. Carrying Bag Weight: 1.10 lbs. Wheel with Bag Weight: 6.00 lbs.



6-figure counter counts forward or backward.

# to zero

# **Distance Measuring Wheels**

Trumbull Item No.	Lettering	Color
217-1235	Feet	Green
217-1236	Meters	Red



Folding handle design . . . fits neatly inside storage bag.



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Shutoff Tool For Polyethylene Water Tubing

The Shutoff Tool **IS NOT** intended for use on gas tubing!

The Trumbull Shutoff Tool can be used on polyethylene water service tubing for making emergency shutoffs where curb stops or other valves are not readily accessible.

Hinge on one end allows the tool to open for use on 3/4" and 1" polyethylene tubing. Latch on opposite end keeps tool closed during repair. Zinc chromate plated.



For use on 3/4" and 1" polyethylene water tubing only.



Latch keeps tool closed during shutoff and is easily un-latched when finished.



Trumbull Item No.	Overall Length	Weight
368-9040	17-7/8″	2.90 lbs.



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# Valve and Curb Box Cleaners



Valve and curb boxes frequently get filled up with dirt, stones and other foreign objects that prevent keys from accessing valve or curb stops. These heavy-duty tools are designed for cleaning out 2-1/2" and 3" Buffalo curb boxes as well as 4-1/4" & 5-1/4" Buffalo valve boxes, without excavation.

Squeeze the lever to open the jaws; release the lever to close. Available in 5', 6', 7', 8', 10' and 12' lengths. Replacement jaw kits can easily be installed in the field. Our replacement jaws can be interchanged on tools of other popular manufacturers.

Carbon steel jaws avoid breakage associated with cast iron jaws, and are designed for long life and abusive handling. Handle and tee are both zinc chromate plated. Fasteners are stainless steel. All other components are carbon steel and EDP coated for corrosion resistance.



**STANDARD JAWS** remove small objects, dirt, stones, sand and mud



**SCOOP JAWS** are designed to remove large amounts of debris, sand and mud



# Valve and Curb Box Cleaners

	Standard Jaws		Standard Jaws Sc		Scoo	oop Jaws	
Length	Trumbull Item No.	Weight	Trumbull Item No.	Weight			
5 ft.	367-9150	10.50 lbs.	367-9170	10.60 lbs.			
6 ft.	367-9151	12.10 lbs.	367-9171	12.20 lbs.			
7 ft.	367-9152	13.70 lbs.	367-9172	13.80 lbs.			
8 ft.	367-9153	15.30 lbs.	367-9173	15.40 lbs.			
10 ft.	367-9155	18.50 lbs.	367-9175	18.60 lbs.			
12 ft.	367-9157	21.70 lbs.	367-9177	21.80 lbs.			

# Jaw Replacement Kits

Includes 2 jaws and 2 pins

Trumbull Item No.	Jaw Type	Opens to	Weight
367-9162	Standard Jaws	5-1/4″	0.55 lbs.
367-9182	Scoop Jaws	5-1/4″	0.65 lbs.



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# Valve Box Risers

When you have to raise existing valve boxes to the new grade of a road to be paved, save time and money and avoid needless breaking-up of old concrete to raise the valve box... instead use Trumbull Valve Box Risers. Simply remove the existing valve box lid, insert the riser and place the existing lid into the riser.



All sizes of Trumbull Valve Box Risers Accept standard 5-1/4" lids; no need to purchase special 1" riser lids. All six sizes (1" through 6") fit into the top sections of Tyler, Bingham & Taylor, Opelika, Foundry, Central Foundry and many other manufacturers' valve boxes, and accept most of their lids as well.

Due to changes in the design of some manufacturer's valve box lids, primarily Tyler's, their redesigned lid will not fit properly in our 1" Riser. When it cannot be determined if the existing valve boxes being raised have the old or new style Tyler lid, we recommend purchasing Trumbull's Valve Box Lid (item #367-5044, shown on page B-3) with our 1" Riser. All other sizes of Trumbull Risers should fit with either Tyler's old or new Lid.

Trumbull		
Item No.	Size	Weight
367-5030	1″	6.00 lbs.
367-5031	1-1/2″	9.85 lbs.
367-5032	2″	9.75 lbs.
367-5034	3″	13.60 lbs.
367-5036	4″	19.20 lbs.
367-5038	6″	29.00 lbs.

Valve Box Risers for special sizes and shapes of valve boxes are available by special order; minimum order quantities are required.



Use 1", 1-1/2" or 2" Trumbull Riser inside 8" SDR 35 or C900 PVC pipe to form a Valve Box. Then add choice of Lid, per page B-3.

Please refer to separate sheets for "Rite-Hite" Paving Adapters, Valve Box Lids and Locking Valve Box Lids.



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# "Rite-Hite" Adapters

Available in Screw-Type and Slide-Type Models



# Screw-Type "Rite-Hite" Adapter

Paving Adapter No. T-69

This type adapter screws into the top section of the valve box. They accept standard valve box covers, as made by Bingham & Taylor, Central Foundry, Tyler, etc.

Trumbull Item No.	Adjustment Range	Weight
367-5060	2-1/2" - 8"	25.00 lbs.

# Slide-Type "Rite-Hite" Adapter

Provides a method for adjusting valve boxes to pavement level. They accept standard valve box covers, as made by Bingham & Taylor, Central Foundry, Tyler, etc.

Trumbull Item No.	Adjustment Range	Weight
367-5050	2-1/2" - 8"	16.00 lbs.

If the existing valve box is too low, place the "Rite-Hite" inside the existing box, pour stiff cement mortar around it and push down until the "Rite-Hite" is flush with the pavement surface.

If the existing valve box is too high, break off the top of the valve box and insert the "Rite-Hite". Then pour stiff cement mortar around it and push down until the "Rite-Hite" is flush with the pavement surface.



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Valve Box Lids

Available in Locking Type and Standard Type Models



# Locking Valve Box Lid

Locking Lids discourage unauthorized access to valve boxes. Tightening the standard brass pentagon screw causes the jaws to expand, bearing against inside of valve box.

Designed for valve boxes and Trumbull Screw-Type "Rite-Hite" Adapters; NOT for use with our Slide-Type "Rite-Hite" Adapters.

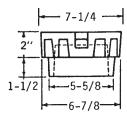
Trumbull Item No.	Size	Lettering	Weight
367-5045	5-1/4″	WATER	12.00 lbs.



LONG SKIRT helps keep the lid from popping out of the valve box

# Standard Valve Box Lids

For 5-1/4" shaft Buffalo style valve boxes, Trumbull Risers, "Rite-Hite" adapters, and Housing Adapters for Trumbull Valve Position Indicators.



Trumbull Item No.	Lettering	Weight
367-5044	WATER	13.00 lbs.
367-5046	SEWER	11.00 lbs.
367-5048	GAS	12.85 lbs.
367-5049	NON-POTABLE WATER	12.85 lbs.

Special lettering available! Call us for more details.

Please refer to the separate product literature sheets for "Rite-Hite" Adapters, Valve Box Risers (1, 1-1/2, 2, 3, 4, and 6), and Valve Position Indicators.



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Valve Box Alignment Device • U.S. Patent No. 7575018 and 8430116. Eliminates shifting of valve box during backfill.

# Designed for use on all AWWA resilient wedge gate valves. • Used with 5-1/4" 2-piece valve boxes. Avoids costly excavations when valve box shifts, preventing valve key from engaging the 2" square nut.

#### **Ordering Instructions**

1. Quantity required.

2. Order model required, using the chart below.

Model	Trumbull Item No.	Weight
No. 1	367-4850	0.30 lbs.
No. 2	367-4851	0.40 lbs.

						_	
	Model No. 1				I	Model	No. 2
Valve		Valve Size					
Manufacturer	2″	3″	4″	6″	8″	10″	12″
AFC	2	2	2	2	2	1	1
AVK	1	1	1	1	1	1	1
Clow	2	2	2	2	2	K1	K1
East Jordan	2	2	2	2	2	2	1
Kennedy	2	2	2	2	2	K1	K1
M & H	2	2	2	2	2	K1	K1
Mueller	2	2	2	2	2	1	1
NAPAC	2	2	2	2	2	2	2
US Pipe	2	2	2	2	2	2	2

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Broken

Lug

Lost

Lid

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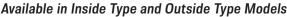
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# Curb Box Repair Lids



Trumbull Curb Box Repair Lids solve all these problems on 2-1/2" and 3" Buffalo style curb boxes.

Repair Lids should be ordered based on the style of curb box that you are using (inside or outside style). Please note that old (outside style) curb boxes are still in production.

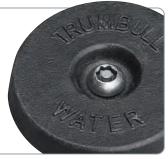
To install, insert the two jaws into the shaft and tighten the screw. The jaws expand to bear against the inside of the curb box. Designed to fit most makes of curb boxes, both old and new. Outside Repair Lids also work on most makes of inside style Curb Boxes; however, inside Repair Lids only work on inside style Curb Boxes.

Also available, T-372 Repair Lid for recessed installation in outside style curb boxes.

# NEW Tamper-Resistant Screw Type Repair Lids

**Broken Top** 

Secure your curb boxes from vandalism or unauthorized access. The unique keyway can be operated only with a matching key available from Trumbull. The locking option offers a high level of security for your curb boxes, preventing unauthorized operation.







Item No.	No.	Size	Screw Type	Weight
367-4281	T-373	2-1/2″	Brass Pentagon	2.45 lbs.
367-4400	T-373	2-1/2″	Tamper-Resistant*	2.45 lbs.

\* Requires key 367-4403 to operate, shown above.



\* Requires key 367-4403 to operate, shown above.

3″

T-375

367-4402

Tamper-Resistant\* 3.45 lbs.



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# Service Box Extensions

For Erie/Minneapolis Pattern Curb Boxes

Used to increase the height of an existing 1" or 1-1/4" Erie/Minneapolis curb box. They slide over the top of the curb box pipe and are secured with a set screw (included) and include threads that accommodate the curb box's lid, allowing for easy height extension.

# For 1" Curb Boxes

Length	Trumbull Item No.	Weight
3″	367-0170	0.75 lbs.
6″	367-0171	1.25 lbs.
9″	367-0172	1.60 lbs.
12″	367-0173	1.90 lbs.
18″	367-0174	2.20 lbs.
24″	367-0175	2.50 lbs.

# For 1-1/4" Curb Boxes

Length	Trumbull Item No.	Weight
3″	367-0176	1.05 lbs.
6″	367-0177	1.45 lbs.
9″	367-0178	2.25 lbs.
12″	367-0179	3.10 lbs.
18″	367-0180	3.85 lbs.
24″	367-0181	4.35 lbs.

# **Curb Box Lids** Available for 1-1/2" and 2" Curb Boxes



Includes pentagon plug and bronze insert.

Curb Box Size	Trumbull Item No.	Weight
1-1/2″	367-4110	2.50 lbs.
2″	367-4115	4.55 lbs.



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# Tie-Lugs

Offset 3/4" Threaded Rod Away from Mechanical Joints to Span Across Valves, Fittings and Other Components

Cast from high strength ductile iron with a tensile strength of 80,000 psi and a yield strength of 55,000 psi. Intended for use between MJ bell and gland in sizes 4" through 24".

	Domestic	Non- Domestic
Description	Trumbull Item No.	Trumbull Item No.
Tie Lug	364-3395	364-9035

Quantity that should be used on each joint depends on pipe diameter, line pressure and other factors; consult your Engineer for quantity required.



Tie-Lugs and Tie-Bolts offset threaded rod away from Mechanical Joints to span across valves, fittings and other components. Used in conjunction with Socket Clamps as illustrated on right. (Socket Clamps are shown on page C-2).



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Socket Clamps

For Use in Preventing Underground Pipe Joints from Separating

Also known as "Retainer Clamps" or "Friction Clamps". Designed for use on DI pipe. All Socket Clamps include two steel half clamps, two bolts and nuts and two washers. Used with all-thread rod and Trumbull Tie-Lugs or Tie-Bolts for joint restraint (shown on page C-1).

#### Carbon Steel Socket Clamps

	amp		State of the second second	-	
Trumbull Item No.	Size*	Bolt Size	Stock Size	Pipe OD**	Weight
364-3401	3″	5/8" x 3"	3/8" x 2"	3.96	5.65 lbs.
364-3402	4″	5/8" x 3"	1/2″ x 2″	4.80	7.15 lbs.
364-3403	6″	5/8" x 3"	1/2″ x 2″	6.90	8.75 lbs.
364-3404	8″	5/8" x 3"	1/2″ x 2″	9.05	10.60 lbs.
364-3405	10″	5/8" x 3"	1/2″ x 2″	11.10	12.35 lbs.
364-3406	12″	5/8" x 3-1/2"	1/2″ x 2″	13.20	13.80 lbs.
364-3428	14″	7/8" x 4"	3/4" x 3"	15.80	48.00 lbs.
364-3429	16″	1″ x 4-1/2″	3/4" x 4"	17.40	70.00 lbs.
364-3430	18″	1-1/4" x 4-1/2"	3/4" x 4"	19.50	79.00 lbs.
364-3431	20″	1-1/4" x 4-1/2"	3/4" x 4-1/2"	21.60	91.00 lbs.
364-3432	24″	1-1/2" x 5"	3/4" x 5"	25.80	118.00 lbs.

# Stainless Steel Socket Clamps

Size*	Bolt Size	Stock Size	Pipe OD**	Weight
3″	5/8″ x 3″	3/8" x 2"	3.96	5.75 lbs.
4″	5/8″ x 3″	1/2″ x 2″	4.80	7.25 lbs.
6″	5/8″ x 3″	1/2″ x 2″	6.90	8.90 lbs.
8″	5/8" x 3"	1/2″ x 2″	9.05	10.85 lbs.
10″	5/8" x 3"	1/2″ x 2″	11.10	12.65 lbs.
12″	5/8″ x 3-1/2″	1/2″ x 2″	13.20	14.35 lbs.
	3" 4" 6" 8" 10"	3"         5/8" x 3"           4"         5/8" x 3"           6"         5/8" x 3"           8"         5/8" x 3"           10"         5/8" x 3"	3"         5/8" x 3"         3/8" x 2"           4"         5/8" x 3"         1/2" x 2"           6"         5/8" x 3"         1/2" x 2"           8"         5/8" x 3"         1/2" x 2"           10"         5/8" x 3"         1/2" x 2"	Size*         Bolt Size         Stock Size         OD**           3"         5/8" x 3"         3/8" x 2"         3.96           4"         5/8" x 3"         1/2" x 2"         4.80           6"         5/8" x 3"         1/2" x 2"         6.90           8"         5/8" x 3"         1/2" x 2"         9.05           10"         5/8" x 3"         1/2" x 2"         11.10

- \* Sizes 3" through 12" are supplied with #585 cast washers which are shown on the right. Sizes 14" and larger are supplied with two fabricated carbon steel washers.
- \*\* Socket Clamps are designed for centrifugally-spun cast and ductile iron pipe with OD's as shown.

For 3" - 12"         Socket Clamps         • Usage for 3/4" rod         • Two washers are         required for each Socket Clamp         Trumbull       Bore         Reference         Trumbull       Bore         Item No.       Material       Size         Weight         364-9000       CS       1"       0.80 lbs.		
Two washers are required for each Socket Clamp Trumbull Bore Item No. Material Size Weight	For 3" - 12" Socket Clamps	
Trumbull Bore Item No. Material Size Weight	Two washers are	
Item No. Material Size Weight		
<b>364-9000</b> CS 1" 0.80 lbs.	Item No. Material Size Weight	_
	<b>364-9000</b> CS 1" 0.80 lbs.	_

SS

803-9000

1″

0.80 lbs.



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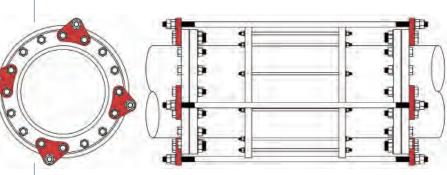
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Flange Lugs

Used to Prevent Separation of Plain-End Piping Components



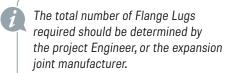


Also known in the field as "Thrust Plates", "Harness Lugs" or "Gusset Plates". They are installed on the back sides of ANSI Class 125 B16.1 and Class 150 B16.5 flanges to allow tie rods to span across an unrestrained piping component.

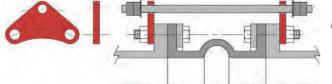
Trumbull flange lugs are also used with rubber expansion joints to limit their expansion. Uncontrolled expansion can lead to failure of rubber expansion joints.

When using threaded ductile iron flanges, check for clearance of the Flange Lug inner radius with the flange hub O.D.

Two flange lugs are used in conjunction with a tie rod, two flat washers and four hex nuts to comprise one set (tie rod, flat washers and hex nuts are NOT included). At least two sets are required per joint. Longer flange bolts are required at the flange lug to accept the plate thickness.

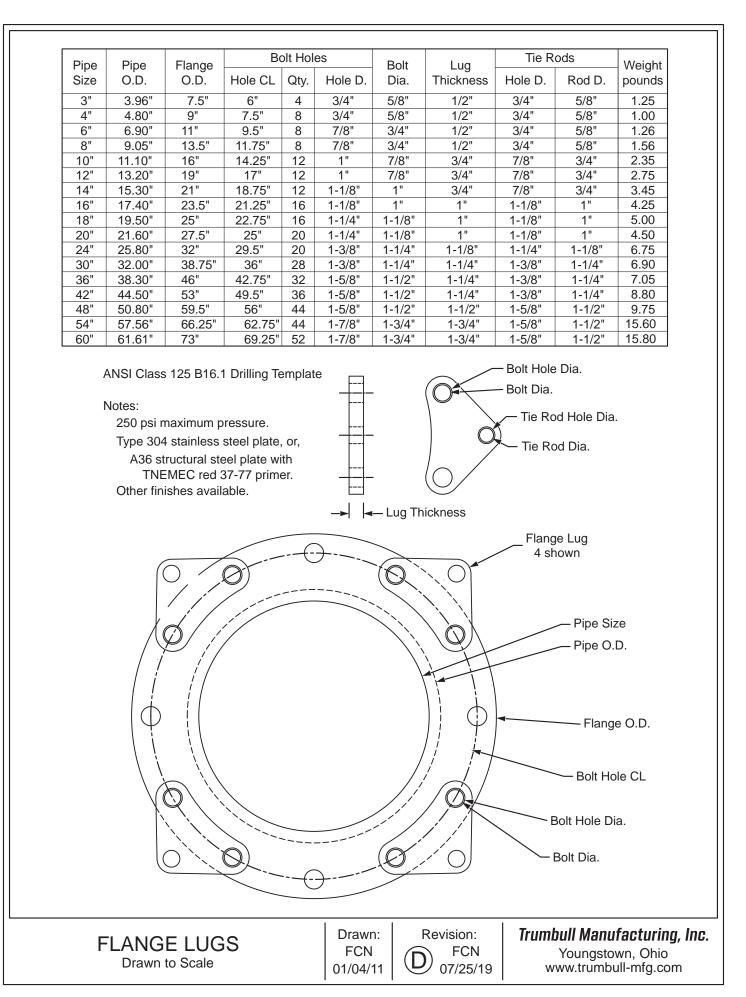


Available in ASTM A36 carbon steel plate and 304 stainless steel. Carbon steel lugs are supplied with a Tnemec 37-77 red primer coating; other coatings and finishes are available upon request. Flange Lugs for Class 250 / 300 are available upon request.



Example of Flange Lug use with flexible coupling.

Carbon Steel	Stainless Steel	Flange Size	Plate Thickness	Tie-Rod Size	Weight
364-4103	364-4123	3″	1/2″	5/8″	1.15 lbs.
364-4104	364-4124	4″	1/2″	5/8″	1.00 lbs.
364-4106	364-4126	6″	1/2″	5/8″	1.26 lbs.
364-4107	364-4127	8″	1/2″	5/8″	1.56 lbs.
364-4108	364-4128	10″	3/4″	3/4″	2.35 lbs.
364-4109	364-4129	12″	3/4″	3/4″	2.75 lbs.
364-4110	364-4130	14″	3/4″	3/4″	3.45 lbs.
364-4111	364-4131	16″	1″	1″	4.25 lbs.
364-4112	364-4132	18″	1″	1″	5.00 lbs.
364-4113	364-4133	20″	1″	1″	4.50 lbs.
364-4114	364-4134	24″	1-1/8″	1-1/8″	6.75 lbs.
364-4115	364-4135	30″	1-1/8″	1-1/4″	6.90 lbs.
364-4116	spec/ord	36″	1-1/4″	1-1/4″	7.05 lbs.
364-4117	spec/ord	42″	1-1/2″	1-1/4″	8.80 lbs.
364-4118	spec/ord	48″	1-1/2″	1-1/2″	9.75 lbs.
364-4119	spec/ord	54″	1-3/4″	1-1/2″	15.60 lbs.
364-4120	spec/ord	60″	1-3/4″	1-1/2″	15.80 lbs.





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# **Polyethylene Encasement Tubing** 8 Mil Linear Low Density "POLYWRAP" for Ductile Iron Pipe

Trumbull Polyethylene Encasement Tubing protects metallic pipe in corrosive soils.

The tubing is slipped over the pipe, extended and taped. An overlap of two feet should be figured in calculating the total polywrap required. For example, 20 feet of polywrap is required for each 18 foot length, or 22 feet for each 20 foot length.

Made per ANSI/AWWA C105/A21.5-18

			CONTINUOUS			PERF'D ever	y <b>20</b> FT.	PERF'D ever	y 22 FT.			
			BLACK	BLUE Water	GREEN Sewer	LAVENDER Reclaimed Water		BLAC	К	BLAC	К	
Pipe Size	Layflat Width	Weight Ibs./ft.	Trumbull Item No.	Trumbull Item No.	Trumbull Item No.	Trumbull Item No.**	Roll Length	Trumbull Item No.	Roll Length	Trumbull Item No.	Roll Length	Ļ
3″-6″	16″	0.106					300 ft.	388-9942	300 ft.	388-9976	308 ft.	2
3″-8″	20″	0.132	388-9989	388-8705	388-8755	388-8805	300 ft.	388-9943	300 ft.	388-9961	308 ft.	3
10″	24″	0.159					300 ft.	388-9945	300 ft.	388-9951	308 ft.	4
10"-12"	27″	0.179	388-9993	388-8710	388-8760	388-8810	300 ft.	388-9952	300 ft.	388-9962	308 ft.	4
14″-16″	34″	0.225	388-9996	388-8715	388-8765	388-8815	300 ft.	388-9955	300 ft.	388-9966	308 ft.	6
16″-18″	37″	0.237		special	order*		300 ft.	special	order*	388-9967	308 ft.	7
18″-20″	41″	0.271	388-9998	388-8717	388-8767	388-8817	300 ft.	388-9957	300 ft.	388-9969	308 ft.	7
24″	54″	0.358	388-9999	388-8720	388-8770	388-8820	150 ft.	388-9958	160 ft.	388-9970	154 ft.	8
30″	67″	0.444	388-9985	388-8780	388-8772	388-8825	150 ft.	special o	order*	388-9972	154 ft.	10
36"-42"	81″	0.536	388-9986	388-8723	388-8474	388-8828	150 ft.	special o	order*	388-9974	154 ft.	15
48″	95″	0.629	388-9980	S	pecial orde	*	150 ft.	special o	order*	388-9975	154 ft.	17
54"-60"	108″	0.715	388-9982	S	special order*		150 ft.	special o	order*	388-9977	154 ft.	20
64″	121″	0.801	388-9984	S	special order*		150 ft.	special o	order*	special c	order**	21

\* Indicates other sizes, types and colors that are available as "special order"; 4,000 lbs. minimum per color or size. See Price Sheet for current sizes, colors & configurations stocked. 4 mil cross-laminated Polywrap also available.

Lavender and purple Polywrap are printed with the text "Caution Reclaimed Water - Do Not Drink"

Item 388-8474 IS NOT continuous, but is perforated every 22 ft.

"Don't forget the Polywrap Tape!" (Shown on page D-2.) Polywrap continues on the following page ....

Tape Rolls

Per 1,000'



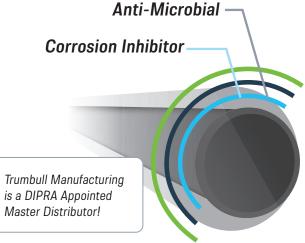
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# V-Bio® Enhanced Polyethylene Encasement



V-Bio® Polyethylene is a minimum 8-Mil co-extruded linear low-density polyethylene film infused with additives that enhance ductile iron pipe's ability to provide the long service life that is the benchmark of ductile iron pipe. Meets all requirements of the American National Standards Institute and the American Water Works Association (ANSI/AWWA C105/A21.5) standard for polyethylene encasement.

V-Bio® is a registered trademark of the Ductile Iron Pipe Research Association. V-Bio® Enhanced Polyethylene Encasement is an innovative product from DIPRA that expands on the success of traditional polyethylene encasement. The V-Bio® film is infused with a corrosion inhibitor and an anti-microbial additive to actively control external corrosion, helping ensure the long service life utilities have come to expect from ductile iron pipe, even in the most corrosive environments.

Pipe Size	Layflat Width	Perf'd Every	Trumbull Item No.	Roll Length
3″ - 8″	20″	22 ft.	388-7831	484 ft.
10″ - 12″	27″	22 ft.	388-7833	374 ft.
16″	34″	22 ft.	388-7835	308 ft.
18″ - 20″	41″	22 ft.	388-7837	264 ft.
24″	54″	22 ft.	388-7839	198 ft.
30″	67″	22 ft.	388-7841	154 ft.
36″ - 42″	81″	22 ft.	388-7843	132 ft.
48″	95″	22 ft.	388-7845	110 ft.
54″ - 60″	108″	22 ft.	388-7847	110 ft.
64″	121″	22 ft.	388-7849	110 ft.

"Don't forget the Polywrap Tape!"

# Other Polywrap and Polywrap Tape

#### Clear Polywrap 12 Mil

Pipe Size	Layflat Width	Perf'd Every	Trumbull Item No.	Roll Length
3″ - 8″	20″	20 ft.	388-8605	200 ft.
10″ - 14″	30″	20 ft.	388-8610	200 ft.

# Sanitary Sewer Polywrap

8 Mil, for 4" cast iron soil pipe, black

Pipe Size	Layflat Width	Perf'd Every	Trumbull Item No.	Roll Length
4″	12″	12 ft.	364-9941	408 ft.

Our Polywrap is always manufactured and inspected for compliance with AWWA C105 8 mil min. thickness.



<b>Polywrap</b> :	Tape	/	
"Don't forget t	he Polywra	o Tape!"	POLYWRAP TAPE
Multipurpose certified for Al Trumbull			South Standarting for Singleting Boyling Suma-seguer
Item No.	Roll Size	Thickness	Weight
364-9975	2" x 100'	10 mil	1.00 lbs.
General Purpo Trumbull Item No.	o <mark>se PE Tape:</mark> Roll Size	blue in color. Thickness	Weight
	2″ x 108′	9 mil	1.00 lbs.



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# Zinc Anode Caps

Sacrificial Zinc Anodes



Trumbull Anode Caps are designed for fighting corrosion of underground bolts and nuts, and iron pipe and fittings.

These threaded hex head caps, when secured to a bolt or stud, become the sacrificial anode, corroding, while the remaining metal parts are protected. This corrosion protection continues until the Zinc is consumed.

#### How Zinc Caps Work

Corrosion is an electrochemical process in which dissimilar metal parts form a galvanic cell when they are in contact with moisture. Using the common battery as an example, moisture



becomes the electrolyte while the different metals in the system (such as bolts, nuts, fittings etc.) become the positive and negative ends of the battery.

The "more negative" component loses material through corrosion while protecting the "positive" component, which becomes shielded. Zinc being much more negative than most other materials, the protected component is essentially immune to corrosion as long as there is Zinc remaining to consume.

Zinc Anode Caps offer protection for other system components made of steel, cast iron, ductile iron, brass and copper (as shown in the Galvanic Series Chart on the reverse side). The quantity of Zinc Anode Caps used determines the service life of the protected component.



Trumbull Zinc Anode Caps are made from Special High Grade Zinc and third-party tested to confirm the maximums allowable in both ASTM B418-88, "Galvanic Zinc Anodes", and Military Specification Mil-18001K.

#### Small (2.5 oz.) Zinc Anode Caps

	Domestic	Non-Domestic
Description	Trumbull Item No.	Trumbull Item No.
5/8"-11, N.C.	364-1004	364-9004
3/4"-10, N.C.	364-1006	364-9006

#### Large (6 oz.) Zinc Anode Caps

	Domestic	Non-Domestic
Description	Trumbull Item No.	Trumbull Item No.
5/8"-11, N.C.	364-1008	364-9008
3/4"-10, N.C.	364-1010	364-9010
7/8″-9, N.C.	spec/order	364-1011
1″-8, N.C.	364-1012	spec/order

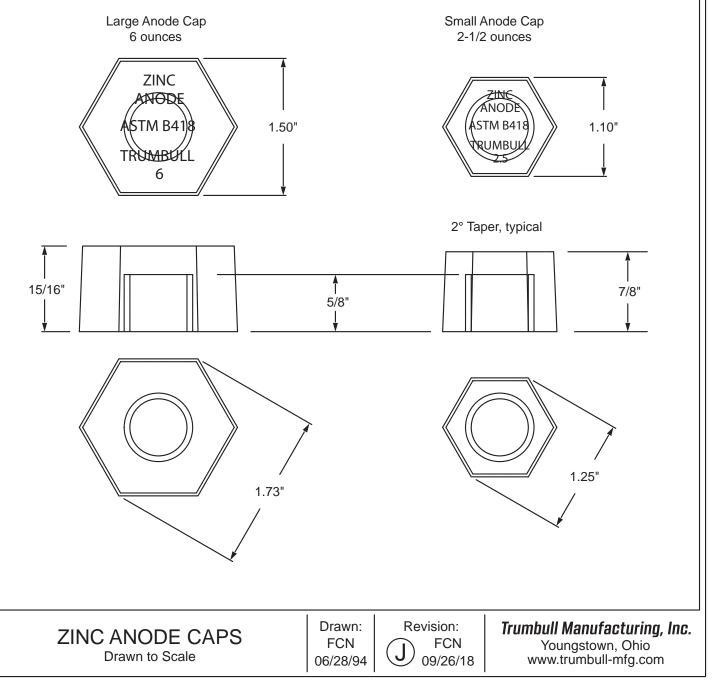
See reverse side for drawing. Inquire about Anode Caps with different weights or shapes.



Conforms to chemical requirements of ASTM B418-88, "Galvanic Zinc Anodes", and, U.S. Navy Specification, Mil-18001 H

Item No.	Tapped	Weight (oz.)
364-1004	5/8"-11 NC	2-1/2
364-1006	3/4"-10 NC	2-1/2
364-1008	5/8"-11 NC	6
364-1010	3/4"-10 NC	6
364-1012	1"- 8 NC	6

Galvanic Corrosion Chart			
Metal Type	Volts		
Zinc (Mil Spec Anodes)	-1.1		
Commercially pure aluminum	-0.8		
Mild steel, clean	-0.5 to -0.8		
Mild steel, rusted	-0.2 to -0.5		
Cast iron	-0.5		
Lead	-0.5		
Mild steel, in concrete	-0.2		
Copper, brass, bronze	-0.2		
High silicon cast iron	-0.2		





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# Detectable and Non-Detectable Warning Tapes

Used for Locating Non-Metallic Pipes Buried Underground



Tape consists of an aluminum core encased in plastic. Stocked in 1,000 foot rolls in standard industry colors. For installations 30" or shallower, 2" wide tape should be used. For deeper installations, 3" tape should be used. Use electronic pipe/cable locators for best results (as opposed to valve box or metal locators).

#### **Detectable Warning Tapes**

Buried Lin	e Type W	idth	Color	Trumbull Item No.	Roll Length	Weight Per Roll
Water I	_ine	2″	Blue	364-4950	1,000 ft.	4.00 lbs.
Water I	_ine	3″	Blue	364-4955	1,000 ft.	5.80 lbs.
Water I	_ine	6″	Blue	364-4966	1,000 ft.	11.80 lbs.
Sewer	Line	2″	Green	364-4951	1,000 ft.	4.00 lbs.
Sewer	Line	3″	Green	364-4956	1,000 ft.	5.80 lbs.
Sewer	Line	6″	Green	364-4967	1,000 ft.	11.80 lbs.
Storm S	ewer	6″	Green	364-4965	1,000 ft.	11.80 lbs.
Reclaimed	Water	3″	Lavender	364-4958	1,000 ft.	5.80 lbs.
Reclaimed	Water	6″	Lavender	364-4968	1,000 ft.	11.80 lbs.
Gas	6	3″	Yellow	364-4972	1,000 ft.	5.80 lbs.
Gas	6	6″	Yellow	364-4977	1,000 ft.	11.80 lbs.
Chemi	cal	3″	Yellow	364-4971	1,000 ft.	5.80 lbs.
Electi	ric	3″	Red	364-4970	1,000 ft.	5.80 lbs.
Electi	ric	6″	Red	364-4975	1,000 ft.	11.80 lbs.

#### Non-Detectable Warning Tapes

Buried Line Type	Width	Color	Trumbull Item No.	Roll Length	Weight Per Roll
Water Line	3″	Blue	364-4940	1,000 ft.	5.80 lbs.
Water Line	6″	Blue	364-4948	1,000 ft.	11.80 lbs.
Sewer Line	3″	Green	364-4945	1,000 ft.	5.80 lbs.
Sewer Line	6″	Green	364-4949	1,000 ft.	11.80 lbs.
"Caution" Barricade	3″	Yellow	165-5201	1,000 ft.	2.60 lbs.
"Danger" Barricade	3″	Red	165-5205	1,000 ft.	2.60 lbs.



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# T-Head Bolts and Nuts



#### Stainless Steel T-Head Bolts Type 304 and Type 316

Ideal for corrosive soils. Provided with coated stainless steel heavy hex nut to prevent galling. Heads are stamped with the type of stainless. The 3/4" x 4" bolt is threaded 1/2" longer than the standard to permit use as a 3/4" x 3-1/2" bolt.

TYPE 316 BOLTS include a red Nut

**TYPE 304 BOLTS** include a green Nut

	Туре 304	Туре 316
Size	Trumbull Item No.	Trumbull Item No.
3/4" x 3-1/2"	364-3487	364-3387
3/4" x 4"	364-3488	364-3388
3/4" x 4-1/2"	364-3489	364-3389
3/4" x 5"	364-3493	364-3393
1″ × 6″		364-3394



#### Blue Fluoropolymer Coated Bolts

Manufactured from corrosionresistant, high-strength, low-alloy steel in accordance with ANSI/AWWA C111/A21.11, that has a baked-on ceramicfilled fluorocarbon resin, which handles the needs of highly corrosive conditions.

Size	Trumbull Item No.
5/8" x 3"	364-3343
3/4" x 3-1/2"	364-3354
3/4" x 4"	364-3355
3/4" x 4-1/2"	364-3356
3/4" x 5"	364-3357
1″ × 6″	364-3359

#### Anti-Rotation T-Head Bolts (Corten) Also Known as "Lugged T-Bolts"

Used on slotted opening in the MJ bells of hydrants and valves. Square neck on shank of bolt locks in slot to prevent rotation when nut is tightened. Provided with heavy hex nut.

Size	Trumbull Item No.
3/4" x 3-1/2"	364-3390
3/4" x 4"	364-3392



# COMPOSITE AND POLYMER **METER PIT LIDS** and Meter Pit Frames







# TRAFFIC RATED COMPOSITE **MANHOLE COVERS** and Frame and Cover Assemblies

Amazingly Strong. Surprisingly Light.™



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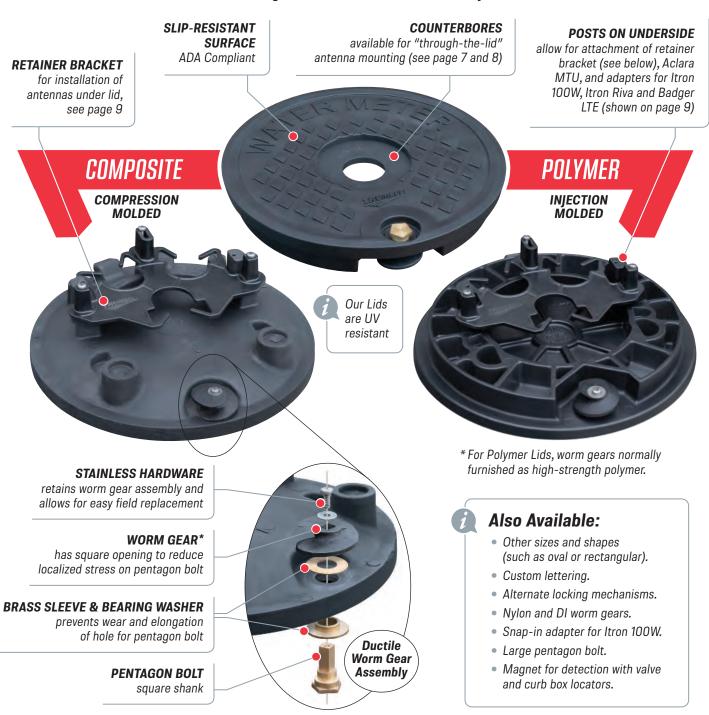
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# **COMPOSITE and POLYMER Meter Box Lids**

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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Type-C Frame



# **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

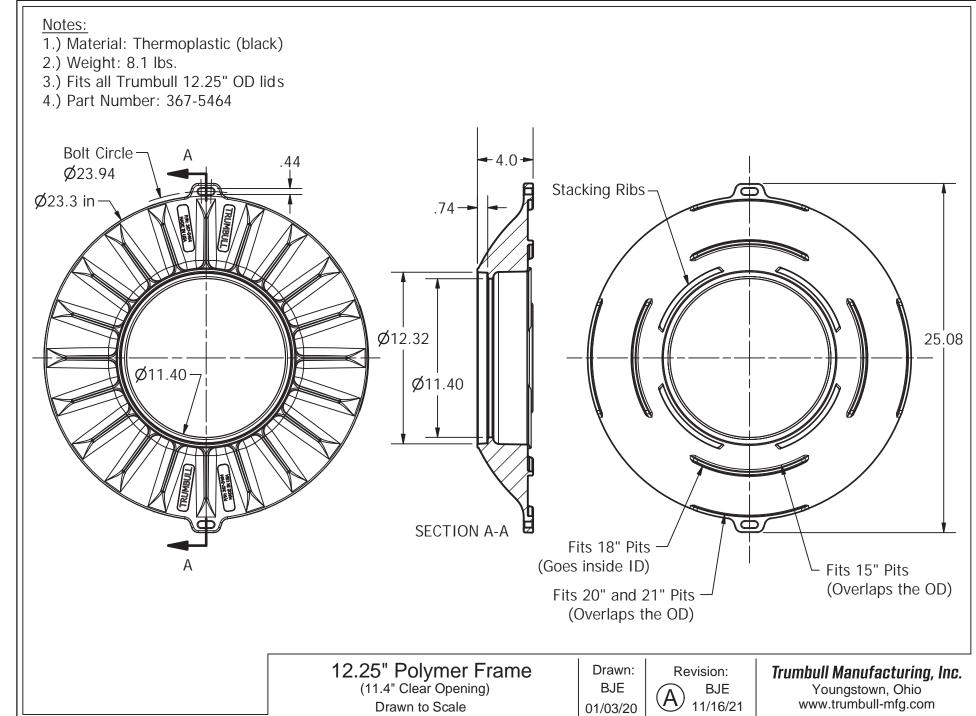
**GUSSET DESIGN** has strength that is greater than most cast iron frames

**REBAR TABS** accept rebar sizes up to 3/8"



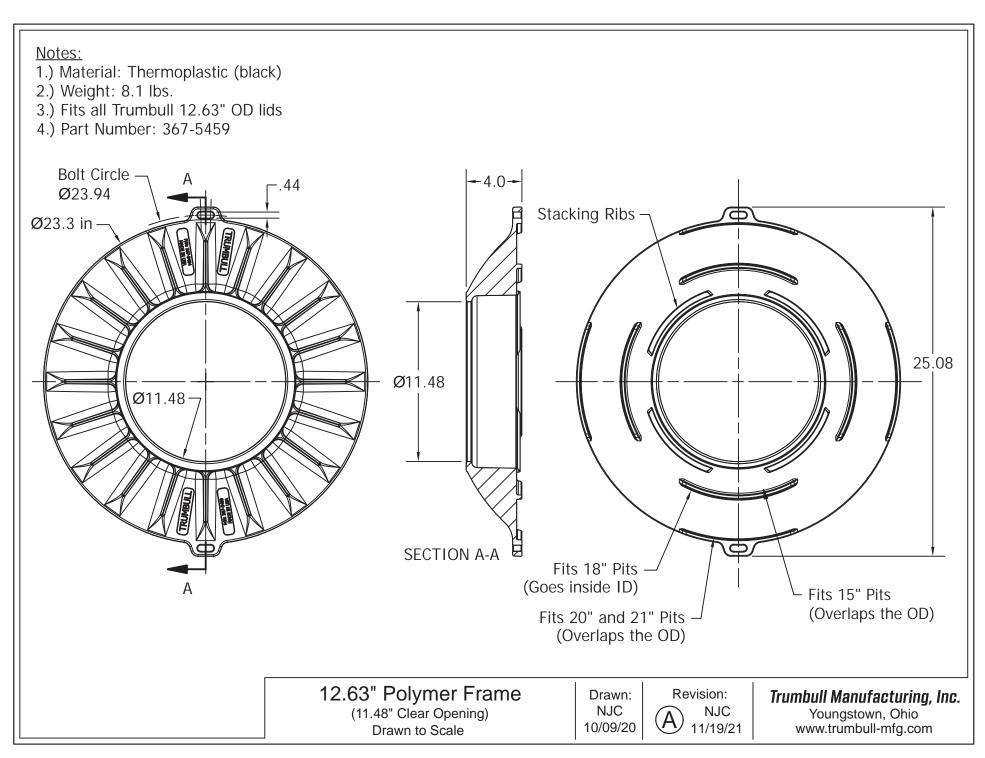
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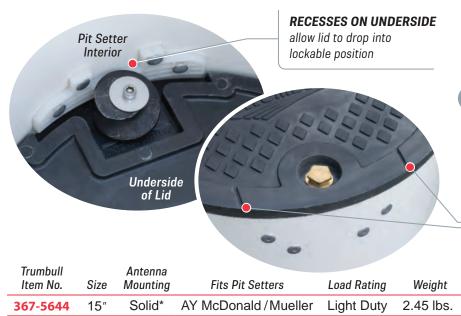
# COMPOSITE Manhole Lids for Large Meter Settings

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.



AY McDonald

40,000 lbs.

2.45 lbs.



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

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.

18"

Solid\*

367-5615



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#### **COUNTERBORES** FOR THROUGH-THE-LID ANTENNA MOUNTING



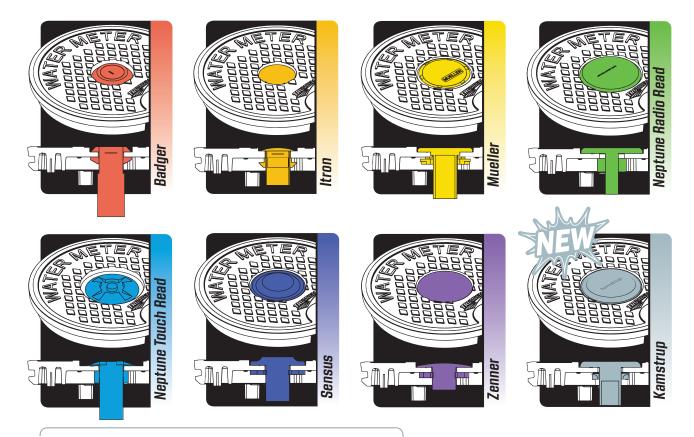
Drilling holes in existing cast iron lids may save money in the short run. However, most iron lids do not have the thickness for a counterbore. If lids are simply drilled without a counterbore, the result is a trip hazard. Drilling iron lids in the field frequently results in cracks in the lid.

#### **Current Counterbore Options**

# Solution:

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





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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### **BLUE COLOR LIDS**

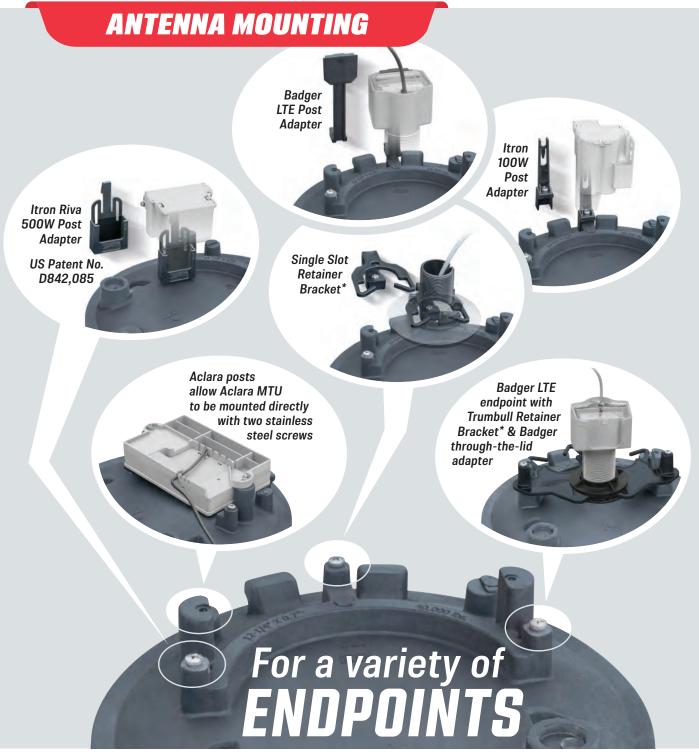
Available for our Polymer Lids and Composite Lids. Minimum order quantities apply.



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



Vault with Remote Antenna 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.



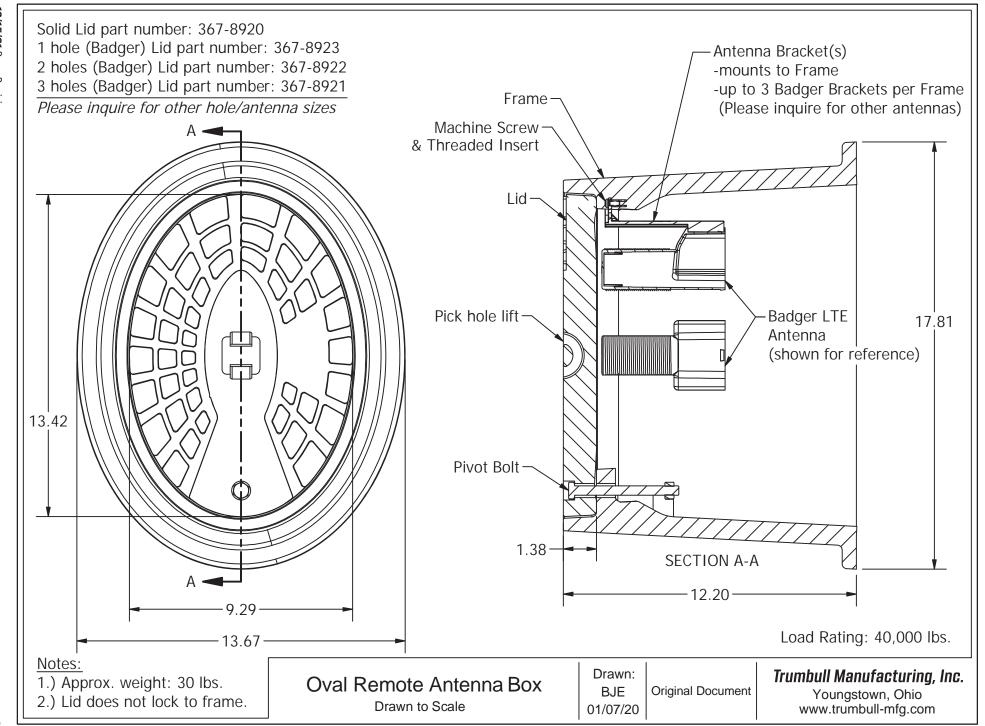
Lid is attached to box with a non-locking pivot bolt.



Lid closes flush with top edge of box.



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

Phone: **Toll Free:** Fax: 330.270.7888 877.504.1507 330.392.0756 www.trumbull-mfg.com

# 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

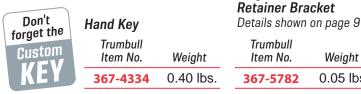
Trumbull Item No.	Lid Description	Weight
367-5657	Solid Lid	0.83 lbs.
367-5657-BADG	1 Badger Hole	0.76 lbs.
367-5657-ITRON	1 Itron Hole	0.80 lbs.
367-5657-MUEL	1 Mueller Hole	0.76 lbs.
367-5657-SENS	1 Sensus or Zenner Hole	0.66 lbs.
367-5657-TH	1 Through Hole (1.88")	0.82 lbs.

Single Slot

Weight

0.05 lbs.

#### Yokebox Lids Accessories



0			
	5" Upper Yokebox	8" Upper Yokebox	10" Upper Yokebox
Badger	×	$\checkmark$	$\checkmark$
Itron	×	$\checkmark$	$\checkmark$
Mueller	×	×	$\checkmark$
Sensus	×	×	$\checkmark$
Zenner	×	×	$\checkmark$
Neptune Kamstrup	Due to lack of space for counterbore, a through hole will be provided.		

#### Single Slot Retainer Bracket (for Solid Lids)

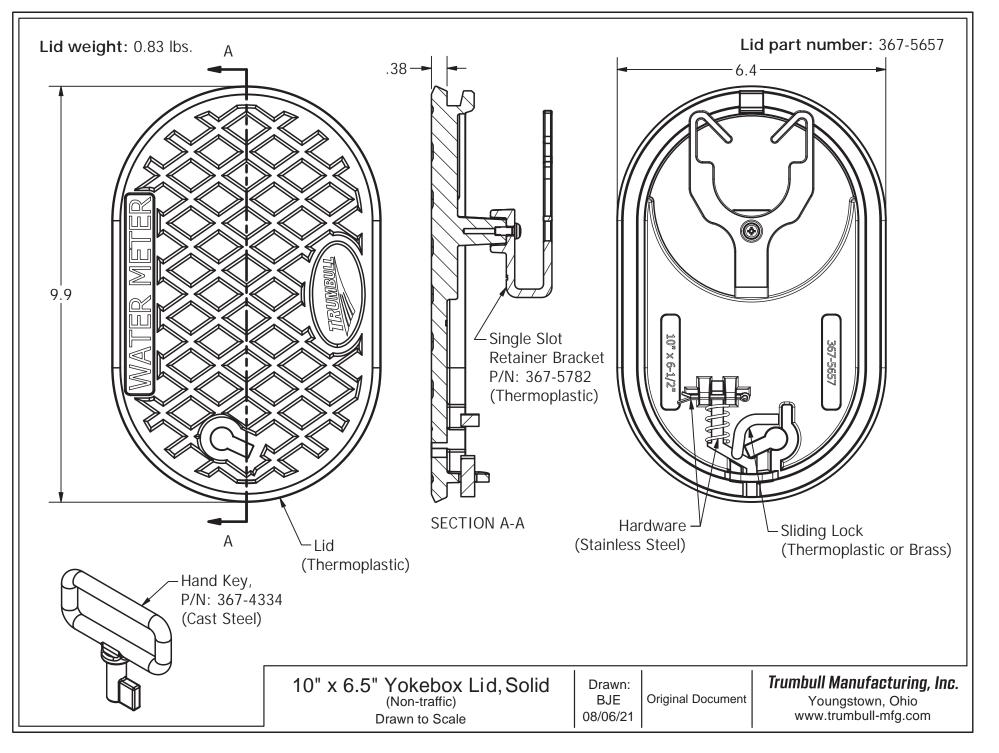
Badger	×	$\checkmark$	$\checkmark$
Itron Riva 500W	×	$\checkmark$	$\checkmark$
Itron 100W	×	×	$\checkmark$
Mueller	×	×	×
Sensus	×	×	$\checkmark$
Neptune	×	$\checkmark$	$\checkmark$
Kamstrup	×	$\checkmark$	$\checkmark$

#### Post Adapter (for Solid Lids)

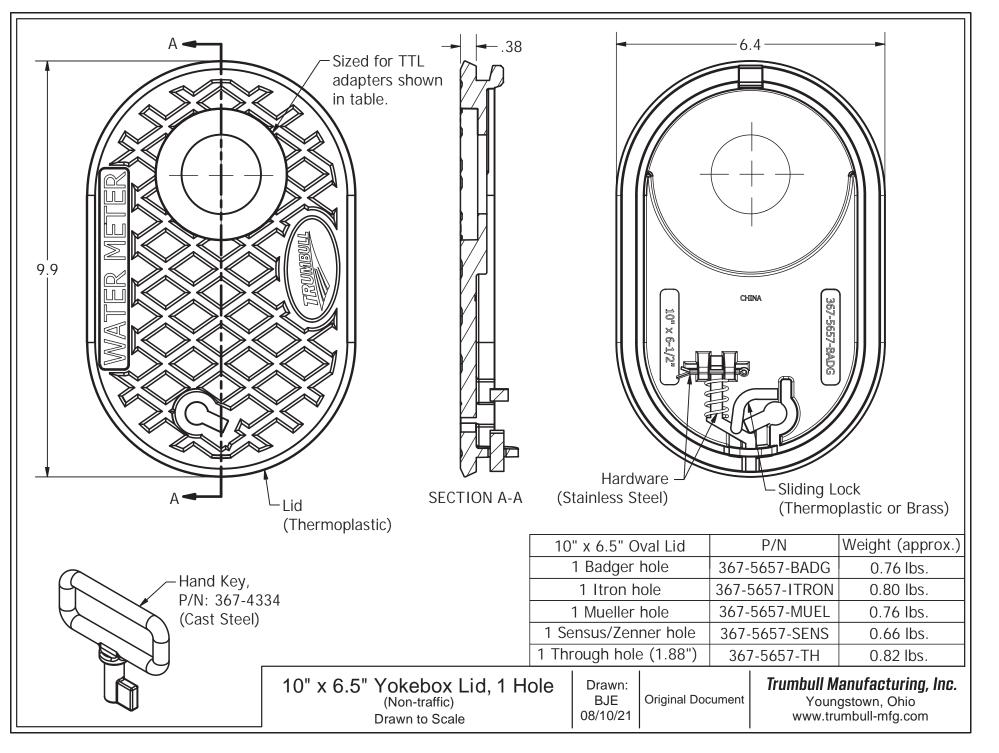
Badger	×	$\checkmark$	$\checkmark$
Itron Riva 500W	×	$\checkmark$	$\checkmark$
Itron 100W	×	×	$\checkmark$

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 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

	1	5" Diameter		18" Diameter			
Thickness	Trumbull Item No.	Size	Weight	Trumbull Item No.	Size	Weight	
2″	367-5824	15″ x 2″	0.40 lbs.	367-5828	18″ x 2″	0.50 lbs.	
3″	367-5825	15″ x 3″	0.60 lbs.	367-5829	18″ x 3″	0.75 lbs.	
4″	367-5826	15″ x 4″	0.80 lbs.	367-5830	18″ x 4″	1.00 lbs.	

# **RELATED PRODUCT**

#### Ductile Iron Meter Box Cover Accepts All Trumbull 12-1/4" OD Lids

Trumbull double lid Meter Box Covers provide both physical and frost protection for underground meters. The insulating air space captured in the ductile iron base casting, between the lid and the plastic frost liner, helps keep the ground heat inside the meter

chamber to reduce the chance of freezing. The internal plastic frost liner is molded with a central hub to permit easy removal.

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

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





# Manhole and Meter Pit Lid **FIELD SURVEY FORM** NOTE: All dimensions to be taken from frame

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.

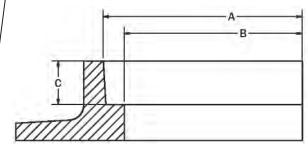
Light Duty; 5,000 lbs.

#### AMI/AMR Antenna & Leak Detection Mounting

Bracket mounting on underside

Through-the-lid, flush with grade

Mfg & model of endpoint \_\_\_\_\_

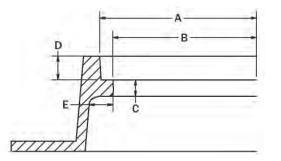


**Straight Wall ID Style** 

# Lid Style Address A B C D E Image: I

#### **Customer Information**

Name
Company
Project Location
Email
Phone



Inset Style

Frame Manufacturer Information

Frame Make & Model No.

Lid Make & Model No.

Lettering On Lid \_\_\_\_\_

**Overlapping Style** 



Composite and Polymer Lids
"WATER METER"

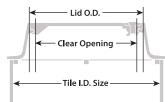
Pentagon Bolts: Water meter lids are normally furnished with standard (27/32") brass pentagon bolt,

but are also available with large (1-1/32") brass pentagon bolt. Not furnished on drop-in style lids.

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

**Recesses** : All lids with antenna recesses have thru hole diameter of 1.88". **Bearing Washers**: Polymer lids have UHMWPE bearing washers above and

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



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

Lid Dimensions Types and	;, Load Ratings,   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 DR ZENNER Antenna Recess Ø 4.11" x 0.41" dp
10-3/8" OD Clear Opening: 9-1/2" Rim Thickness: 0.65"	Non-Traffic / Polymer NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	Ford W2A	<b>367-5530</b> 1.85 lbs.	367-5531 1.75 lbs. 500 pcs minimum order quantity	367-5532 1.77 lbs. 500 pcs minimum order quantity		367-5533 1.80 lbs. 500 pcs minimum order quantity	367-5534 1.73 lbs. 500 pcs minimum order quantity	367-5535 1.77 lbs. 500 pcs minimum order quantity
10-3/8" OD Clear Opening: 9-1/2" Rim Thickness: 3/8" "NEWPORT NEWS WATERWORKS"	Non-Traffic / Polymer NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	Newport News Meter Box No. 1 and Capital Foundry	5901 TMI 1.42 lbs. 500 pcs minimum order quantity				5902 TMI 1.60 lbs. 500 pcs minimum order quantity		
10-3/8" OD Clear Opening: 9-1/2" Rim Thickness: 3/8"	Non-Traffic / Polymer NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	Capital Foundry	367-5581 1.42 lbs. 500 pcs minimum order quantity				367-5581-MUEL 1.60 lbs. 500 pcs minimum order quantity		
11-7/8" OD Clear Opening: 10" Rim Thickness: 5/8"	Non-Traffic / Composite DI WORM GEAR (1.5" OD) US Patent No. D858,797 Solid Lids* or MegaNet Antenna Recess	Clark Meter Box Frame	<b>367-5639</b> 6.00 lbs.	367-5638 MegaNet Recess (Not for Badger) 5.60 lbs.					
11.91" OD Clear Opening: 10.7" Rim Thickness: 1"	40,000 lbs. / Composite DUCTILE IRON WORM GEAR Solid Lids* Only	Wilmington, DE (Old Style) Inner Lid	<b>367-5632</b> 8.52 lbs.						
12-1/8" OD Clear Opening: 11" Rim Thickness: 5/8"	Non-Traffic / Polymer NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	Mueller A and C	367-5660 3.00 lbs. 500 pcs minimum order quantity	367-5664 2.90 lbs. 500 pcs minimum order quantity	367-5666 2.90 lbs. 500 pcs minimum order quantity			367-5662 2.80 lbs. 500 pcs minimum order quantity	367-5659 2.90 lbs. 500 pcs minimum order quantity



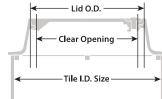
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	s, Load Ratings, d Materials	Fits Frame Types	<b>SOLID LID</b> No Antenna Recess	BADGER Antenna Recess Ø 3.13" x 0.41" dp	ITRON 60W, 100W, RIVA <sup>Antenna Recess</sup> Ø 2.84" x 0.26" dp	KAMSTRUP <sup>Antenna Recess</sup> Ø 5.06" x 0.50" dp	MUELLER 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	<b>367-5671</b> 3.00 lbs.	<b>367-5673</b> 2.90 lbs.	<b>367-5674</b> 2.90 lbs.			<b>367-5672</b> 2.80 lbs.	<b>367-5668</b> 2.90 lbs.
12-1/4" OD Clear Opening: 11-1/2" Rim Thickness: 0.65"	Non-Traffic / Polymer NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	Ford A, C, and X AY McDonald A and C	367-5810 3.06 lbs. 500 pcs minimum order quantity	367-5811 2.70 lbs. 500 pcs minimum order quantity	367-5812 2.72 lbs. 500 pcs minimum order quantity	367-5816 2.52 lbs. 500 pcs minimum order quantity	367-5813 2.72 lbs. 500 pcs minimum order quantity	367-5814 2.59 lbs. 500 pcs minimum order quantity	367-5815 2.62 lbs. 500 pcs minimum order quantity
12-1/4" OD Clear Opening: 11-1/2" Rim Thickness: 0.65"	Non-Traffic / Polymer NYLON WORM GEAR 2 Antenna Recesses	Ford A, C, and X AY McDonald A and C		367-5823 2.53 lbs. 500 pcs minimum order quantity	367-5817 2.60 lbs. 500 pcs minimum order quantity	367-5821 2.14 lbs. 500 pcs minimum order quantity	367-5818 2.53 lbs. 500 pcs minimum order quantity	367-5819 2.27 lbs. 500 pcs minimum order quantity	367-5820 2.34 lbs. 500 pcs minimum order quantity
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. Non-Stack, Use Item 367-5751	367-5762 3.03 lbs. Non-Stack, Use Item 367-5752	367-5760 3.07 lbs. Nan-Stack, Use Item 367-5754			367-5763 2.92 lbs. Nan-Stack, Use Item 367-5755	367-5761 2.97 lbs. Non-Stock, Use Item 367-5753
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	<b>367-5751</b> 3.04 lbs.	<b>367-5752</b> 2.87 lbs.	<b>367-5754</b> 2.91 lbs.			<b>367-5755</b> 2.82 lbs.	<b>367-5753</b> 2.87 lbs.
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 minimum order quantity	367-5676 3.81 lbs. 500 pcs minimum order quantity	367-5678 3.85 lbs. 500 pcs minimum order quantity			367-5675 3.71 lbs. 500 pcs minimum order quantity	367-5677 3.73 lbs. 500 pcs minimum order quantity



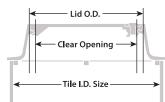
Pentagon Bolts: Water meter lids are normally furnished with standard (27/32") brass pentagon bolt,

but are also available with large (1-1/32") brass pentagon bolt. Not furnished on drop-in style lids.

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

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

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



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

Lid Dimensions, Load Ratings, Types and Materials		Fits Frame Types	<b>SOLID LID</b> 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	40,000 lbs. / Composite	5 14 10	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	9.54 lbs. ALSO AVAILABLE: w/out Logo <b>367-5517</b> (40K)	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"	<b>NYLON WORM GEAR</b> Solid Lids* or with 1 Antenna Recess	Meter Box No. 2 and Capital Foundry	2.20 lbs. ALSO AVAIALBLE: w/out NN Lettering (Non-Traffic)				2.20 lbs. ALSO AVAIALBLE: w/out NN Lettering (Non-Traffic)			
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"	<b>DROP-IN STYLE</b> Solid Lids* or with 1 Antenna Recess	American Foundry, and misc.	<b>3.30 lbs.</b> 250 pcs minimum order quantity	<b>3.10 lbs.</b> 250 pcs minimum order quantity	<b>3.10 lbs.</b> 250 pcs minimum order quantity		2.90 lbs. 250 pcs minimum order quantity	2.90 lbs. 250 pcs minimum order quantity	<b>3.00 lbs.</b> 250 pcs minimum order quantity	
12.438″ OD	20,000 lbs. / Polymer		367-5720							
Clear Opening: 11" Rim Thickness: 0.65"	<b>DROP-IN STYLE</b> Solid Lid* Only	MO American	<b>3.30 lbs.</b> 250 pcs minimum order quantity							
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	3.08 lbs. 500 pcs minimum order quantity	Antenna recesses can be machined in the lid, charges may apply.						
12-5/8″ OD	20,000 lbs. / Polymer	Ford, AY McD.	367-5767							
Clear Opening: 11-1/2" Rim Thickness: 9/16"	<b>NYLON WORM GEAR</b> Solid Lid* or Machined Recess	Vestal and B&T Type C and Baltimore	3.08 lbs.		Antenna recesses can be machined in the lid, charges may apply. Load ratings may vary depending on its size.					



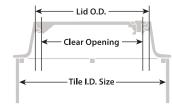
#### Pentagon Bolts: Water meter lids are normally furnished with standard (27/32") brass pentagon bolt,

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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Lid Dimensions, Load Ratings, Fits Frame Types and Materials Types			<b>SOLID LID</b> 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	<b>367-5669</b> 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	<b>367-5650</b> 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	<b>367-5594</b> 7.70 lbs.		<b>367-5595</b> 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			<b>367-5596</b> 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	<b>367-5644</b> 5.65 lbs.	<b>367-5646</b> 5.45 lbs.	367-5648 5.45 lbs. 200 pcs minimum order quantity		367-5649 5.45 lbs. 200 pcs minimum order quantity	367-5645 5.35 lbs. 200 pcs minimum order quantity	367-5647 5.40 lbs. 200 pcs minimum order quantity
16-1/16" OD Clear Opening: 15" Rim Thickness: 21/32"	Non-Traffic / Polymer NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	Vestal type A, Ford type C, AY McDonald type C	367-5771 6.04 lbs. 100 pcs minimum order quantity	367-5773 ** 5.96 lbs. 100 pcs minimum order quantity	367-5775 ** 6.01 lbs. 100 pcs minimum order quantity			367-5772 ** 5.76 lbs. 100 pcs minimum order quantity	367-5774 ** 5.84 lbs. 100 pcs minimum order quantity



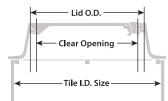
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Lid Dimensions, Load Ratings, Types and Materials Types			<b>SOLID LID</b> No Antenna Recess	<b>BADGER</b> Antenna Recess Ø 3.13" x 0.41" dp	ITRON 60W, 100W, RIVA Antenna Recess Ø 2.84" x 0.26" dp	KAMSTRUP Antenna Recess Ø 5.06" x 0.50" dp	MUELLER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



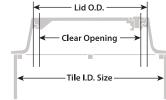
Pentagon Bolts: Water meter lids are normally furnished with standard (27/32") brass pentagon bolt,

but are also available with large (1-1/32") brass pentagon bolt. Not furnished on drop-in style lids.

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

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

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



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

		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 B) Antenna Recess Ø 4.63" x 0.43" dp	SENSUS OR ZENNER Antenna Recess Ø 4.11" x 0.41" dp
19.35" OD Clear Opening: 17" Rim Thickness: 0.56"	Non-Traffic / Polymer DROP-IN STYLE 2 Antenna Recesses	Flat Lid for 18" Plastic Pit		367-5590-2BADG 5.80 lbs. 200 pcs minimum order quantity	367-5590-21TRON 5.87 lbs. 200 pcs minimum order quantity	367-5590-2KAMS 5.39 lbs. 200 pcs minimum order quantity	367-5590-2MUEL 5.80 lbs. 200 pcs minimum order quantity	367-5590-2NEPT 5.54 lbs. 200 pcs minimum order quantity	367-5590-2SENS 5.66 lbs. 200 pcs minimum order quantity
19-3/4" OD Clear Opening: 18" Rim Thickness: 2-3/16"	40,000 lbs. / Composite DOUBLE PADDLE LOCK (DI) Solid Lids* Only	EJ 1525 <b>*</b> Neenah R-1566 <b>*</b> Baltimore	<b>367-5688</b> 33.00 lbs.						
19-13/16" OD Clear Opening: 18-1/2" Rim Thickness: 1" "CWD-2"	40,000 lbs. / Composite Ductile Iron Worm Gear Solid Lids* Only	EJ 2990 Neenah R-1892	<b>367-5631</b> 28.30 lbs.						
21-3/16" OD Clear Opening: 20" Rim Thickness: 0.77"	Non-Traffic / Polymer NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	Ford and AY McDonald Monitor Covers and Pit Rings	<b>367-5605</b> 10.91 lbs.	<b>367-5605-BADG</b> 10.81 lbs.	367-5605-ITRON 10.77 lbs.	<b>367-5605-KAMS</b> 10.57 lbs.	<b>367-5605-MUEL</b> 10.79 lbs.	<b>367-5605-NEPT</b> 10.63 lbs.	<b>367-5605-SENS</b> 10.70 lbs.
21-3/16" OD Clear Opening: 20" Rim Thickness: 0.77"	40,000 lbs. / Composite DUCTILE IRON WORM GEAR Solid Lids* or with 1 Antenna Recess	Ford and AY McDonald Monitor Covers and Pit Rings	<b>367-5610</b> 31.30 lbs.	<b>367-5786</b> 30.60 lbs.	<b>367-5788</b> 30.70 lbs.			<b>367-5785</b> 30.50 lbs.	<b>367-5787</b> 30.30 lbs.
21-3/4" OD Clear Opening: 20" Rim Thickness: 1-1/4"	20,000 lbs. / Composite DROP-IN STYLE Solid Lids* Only	Arlington, VA	<b>367-5633</b> 23.10 lbs.						



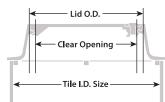
Pentagon Bolts: Water meter lids are normally furnished with standard (27/32") brass pentagon bolt,

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 also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids. *Lettering:* Lids normally furnished marked "WATER METER", special lettering available.

**Recesses** : All lids with antenna recesses have thru hole diameter of 1.88". **Bearing Washers**: Polymer lids have UHMWPE bearing washers above and

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



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

	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 DR ZENNER Antenna Recess Ø 4.11" x 0.41" dp
22-3/4" OD Clear Opening: 21" Rim Thickness: 1-11/16"	40,000 lbs. / Composite DUCTILE IRON WORM GEAR Solid Lids* Only	EJ 1020 Neenah R-1580	<b>367-8905</b> 45.70 lbs.						
23-3/4" OD Clear Opening: 22" Rim Thickness: 1"	20,000 lbs. / Composite DROP-IN STYLE Solid Lids* Only	Arlington, VA	<b>367-5634</b> 26.30 lbs.						
23-3/4" OD Clear Opening: 21-1/2" Rim Thickness: 1"	40,000 lbs. / Composite DUCTILE IRON WORM GEAR Solid Lids* Only	EJ 1450 and 1690 Neenah R-1771 Neenah R-1785	<b>367-8908</b> 44.80 lbs.						
23-3/4" OD Clear Opening: 21-1/2" Rim Thickness: 1"	40,000 lbs. / Composite UHMWPE WORM GEAR Solid Lids* Only	Trumbull Frame <b>367-5623</b> 4 Badger LTE Brackets in frame	<b>367-8910</b> 44.80 lbs.						
23-3/4" OD Clear Opening: 21-1/2" Rim Thickness: 1" "AURORA"	40,000 lbs. / Composite UHMWPE WORM GEAR Solid Lids* or with 1 Antenna Recess	Trumbull Frame <b>367-5623</b> 4 Badger LTE Brackets in frame	<b>367-8912</b> 44.80 lbs.	<b>367-8914</b> 44.60 lbs. Non-Traffic					
23-3/4" OD Clear Opening: 21-1/2" Rim Thickness: 1" "AURORA"	Non-Traffic / Composite UHMWPE WORM GEAR 2 Antenna Recesses	Trumbull Frame <b>367-5623</b> 4 Badger LTE Brackets in frame		<b>367-8916</b> 44.50 lbs.					

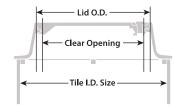


Pentagon Bolts: Water meter lids are normally furnished with standard (27/32") brass pentagon bolt, but are also available with large (1-1/32") brass pentagon bolt. Not furnished on drop-in style lids.

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

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

Recesses : All lids with antenna recesses have thru hole diameter of 1.88".
 Bearing Washers: Polymer lids have UHMWPE bearing washers above and below lid. Composite Lids include a brass bearing washer below the lid and brass flanged sleeve (protects hole from elongation) above the lid. Not furnished on drop-in style lids.



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

Lid Dimensions, Load Ratings, 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	
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	<b>367-5597</b> 8.57 lbs.	<b>367-5597-BADG</b> <i>8.22 lbs.</i>	367-5597-ITRON 8.25 lbs.	<b>367-5597-KAMS</b> <i>8.00 lbs.</i>	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		<b>367-5597-2BADG</b> <i>8.31 lbs.</i>	367-5597-21TRON 8.38 lbs.	<b>367-5597-2KAMS</b> 7.90 lbs.	<b>367-5597-2MUEL</b> 8.32 lbs.	<b>367-5597-2NEPT</b> 8.05 lbs.	<b>367-5597-25ENS</b> <i>8.17 lbs.</i>
24-3/16" DD Clear Opening: 21" Rim Thickness: 3" "WSNY"	40,000 lbs. / Composite DUCTILE IRON WORM GEAR Solid Lids* Only T316SS Pentagon Bolt	NYC	<b>5218 TMI</b> 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	<b>367-5685</b> 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 <sup>–</sup> Neenah R-1565 <sup>–</sup> Baltimore	<b>367-5698</b> 64.00 lbs.						
25-1/2" OD Clear Opening: 24-3/16" Rim Thickness: 1-1/4"	40,000 lbs. / Composite DUCTILE IRON WORM GEAR Solid Lids* Only	EJ 1040, 1045, 1048 and 1705	<b>367-5527</b> 54.00 lbs.						



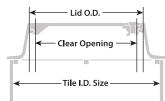
Pentagon Bolts: Water meter lids are normally furnished with standard (27/32") brass pentagon bolt,

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

**Recesses** : All lids with antenna recesses have thru hole diameter of 1.88". **Bearing Washers**: Polymer lids have UHMWPE bearing washers above and

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



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

	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 <sup>Antenna Recess</sup> 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 <b>367-5635</b> 6″ height	<b>367-5528</b> 54.00 lbs.						
30-1/2" x 17-1/2" Rect. Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2"	Non-Traffic / Polymer DROP-IN STYLE Solid Lids* or with 1 Antenna Recess	<b>17" x 30"</b> Hubbell, Old Castle Polymer, & Old Castle Concrete	<b>367-5560</b> 27.80 lbs.	367-5562 27.60 lbs. 250 pcs minimum order quantity	367-5563 27.60 lbs. 250 pcs minimum order quantity	367-5582 27.40 lbs. 250 pcs minimum order quantity	367-5564 27.60 lbs. 250 pcs minimum order quantity	367-5565 27.40 lbs. 250 pcs minimum order quantity	367-5566 27.50 lbs. 250 pcs minimum order quantity
30-1/2" x 17-1/2" Rect. Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2"	Non-Traffic / Polymer DRDP-IN STYLE 2 Antenna Recesses	<b>17" x 30"</b> Hubbell, Old Castle Polymer, & Old Castle Concrete		367-5572 27.50 lbs. 250 pcs minimum order quantity	367-5573 27.50 lbs. 250 pcs minimum order quantity	367-5584 27.00 lbs. 250 pcs minimum order quantity	367-5574 27.40 lbs. 250 pcs minimum order quantity	367-5575 27.00 lbs. 250 pcs minimum order quantity	367-5576 27.30 lbs. 250 pcs minimum order quantity
30-1/2" x 17-1/2" Rect. Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2"	Non-Traffic / Polymer BOLT-DOWN STYLE Solid Lids* or with 1 Antenna Recess	<b>17" x 30"</b> Hubbell, Old Castle Polymer, & Old Castle Concrete	<b>367-5561</b> 27.70 lbs.	367-5567 27.50 lbs. 250 pcs minimum order quantity	367-5568 27.50 lbs. 250 pcs minimum order quantity	367-5583 27.30 lbs. 250 pcs minimum order quantity	367-5569 27.50 lbs. 250 pcs minimum order quantity	367-5570 27.30 lbs. 250 pcs minimum order quantity	367-5571 27.40 lbs. 250 pcs minimum order quantity
30-1/2" x 17-1/2" Rect. Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2"	Non-Traffic / Polymer BOLT-DOWN STYLE 2 Antenna Recesses	<b>17" x 30"</b> Hubbell, Old Castle Polymer, & Old Castle Concrete		367-5577 27.40 lbs. 250 pcs minimum order quantity	367-5578 27.40 lbs. 250 pcs minimum order quantity	367-5585 26.90 lbs. 250 pcs minimum order quantity	367-5579 27.30 lbs. 250 pcs minimum order quantity	367-5580 26.90 lbs. 250 pcs minimum order quantity	367-5581 27.20 lbs. 250 pcs minimum order quantity
30-1/2" x 17-1/2" Rect. Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2"	40,000 lbs. / Composite DROP-IN STYLE Solid Lids* or with 1 Antenna Recess	<b>17" x 30"</b> Hubbell, Old Castle Polymer, & Old Castle Concrete	367-5560-40K 52.00 lbs. 25 pcs minimum order quantity	367-5562-40K 51.20 lbs. 25 pcs minimum order quantity	367-5563-40K 51.30 lbs. 25 pcs minimum order quantity		367-5564-40K 51.20 lbs. 25 pcs minimum order quantity	367-5565-40K 50.90 lbs. 25 pcs minimum order quantity	



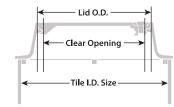
Pentagon Bolts: Water meter lids are normally furnished with standard (27/32") brass pentagon bolt,

but are also available with large (1-1/32") brass pentagon bolt. Not furnished on drop-in style lids. *Worm Gears:* Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available

at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids. Lettering: Lids normally furnished marked "WATER METER", special lettering available.

Recesses : All lids with antenna recesses have thru hole diameter of 1.88".
 Bearing Washers: Polymer lids have UHMWPE bearing washers above and below lid. Composite Lids include a brass bearing washer below the lid

and brass flanged sleeve (protects hole from elongation) above the lid. Not furnished on drop-in style lids.



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

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



Lettering: Lids normally furnished marked "WATER METER", special lettering available. Seal : All Frame and Cover Assemblies are sealed by an EPDM gasket.

Bolt Down Lids: Are secured to frames with four Xylan coated stainless screws, see page 42 for optional security screws. Paddle Lock Lids: Are secured to frame with

pentagon bolt, see page 40 for optional security bolts.

Lid Dimension Types an	s, Load Ratings, d 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"	<b>BOLT-DOWN STYLE</b> Solid Lids* Only	Trumbull Frame <b>367-5468</b> 4" height	<b>66.10 lbs.</b> 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 <b>367-5705</b> 4" height	93.00 lbs. Frame and Cover		<b>93.00 lbs.</b> Frame and Cover
<i>32" OD</i>	50,000 lbs. / Composite		367-5793	367-5799	367-5901
Clear Opening: 30" ID Rim Thickness: 1-1/4"	BOLT-DOWN STYLE OR PADDLE LOCK STYLE Solid Lids* Only	Trumbull Frame <b>367-5794</b> 4" height	<b>129.00 lbs.</b> Frame and Cover	Same as 367-5793 except has lettering "WATER", not "WATER METER"	<b>129.00 lbs.</b> 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 <b>367-5784</b> 6" height	<b>236.80 lbs.</b> Frame and Cover		<b>236.00 lbs.</b> Frame and Cover

\* 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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Lids

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Trumbull Manufacturing, Inc.3850 Hendricks Road, Youngstown, Ohio 44515Phone:Toll Free:330.270.7888877.504.1507330.392.0756www.trumbull-mfg.com

#### 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  $9" \times 9"$  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 ( $2.5 \times 16,000 = 40,000$  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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Rated for traffic loads, and tested in excess of 40,000 lbs.



The light weight of composites reduces finger and back injuries.



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

# **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.



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**

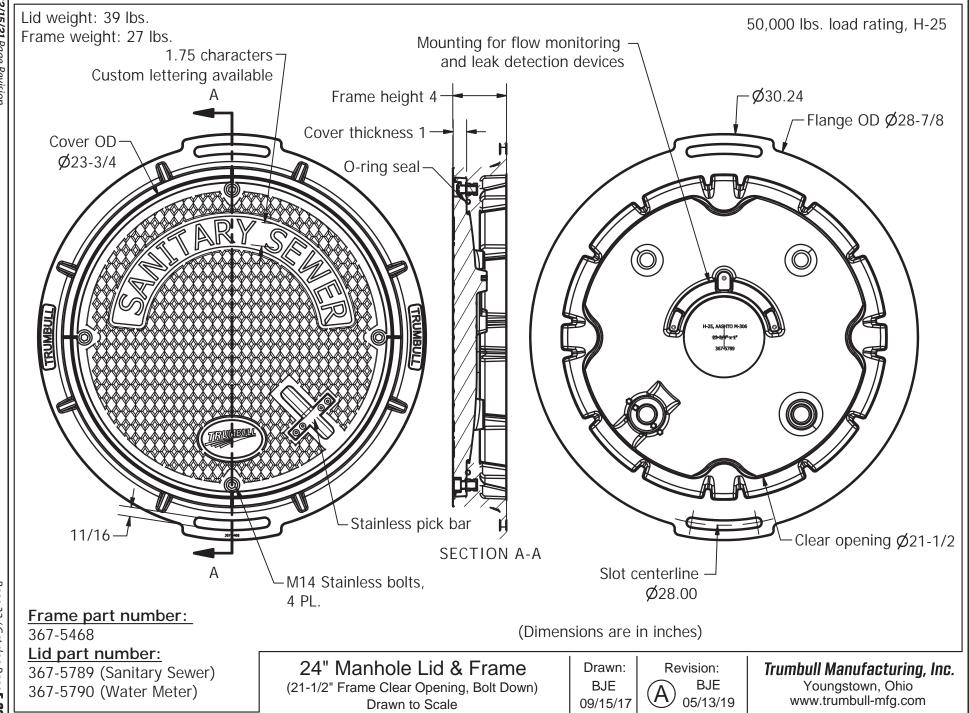
prevents infiltration through bolt holes (artificially colored here for emphasis)

#### 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

		FRAME	SANITARY SEWER LID	WATER METER LID		Optional logo/custom
Lid OD Size	Locking Mechanism	Trumbull Item No.	Trumbull Item No.	Trumbull Item No.	Total Weight	lettering options available, ask your Trumbull Rep.
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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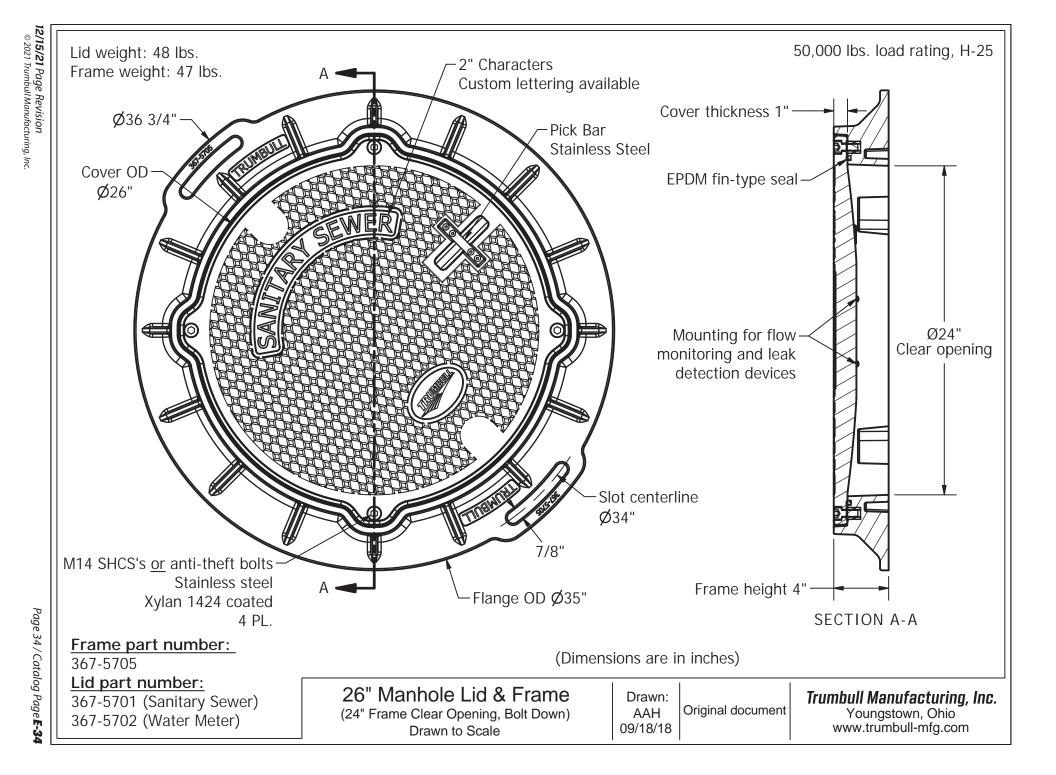
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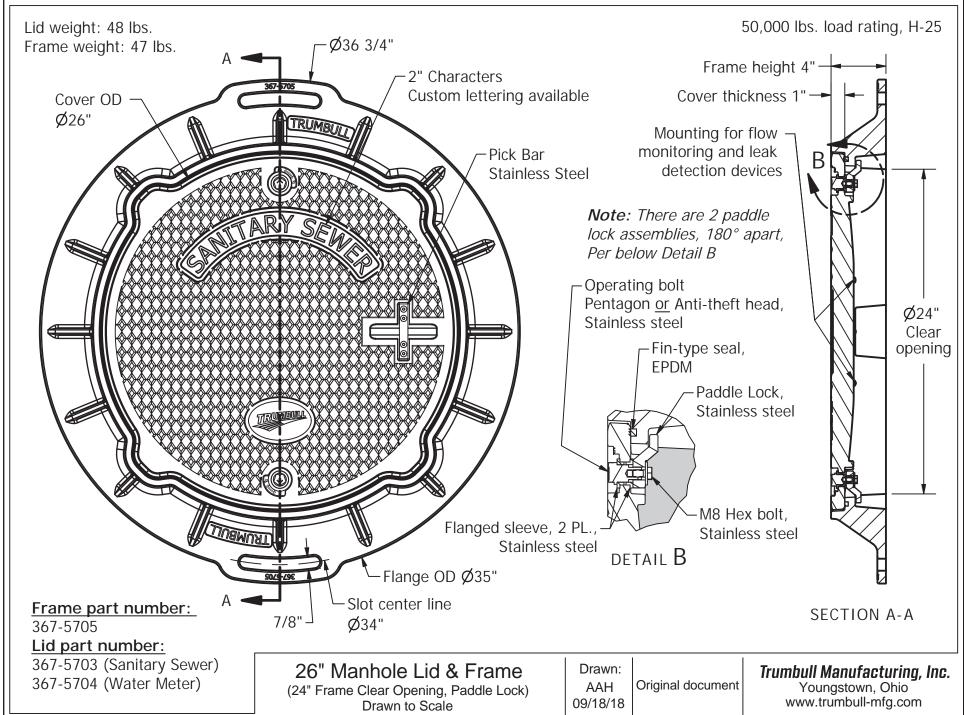
# Composite Manhole Frame and Cover Assemblies

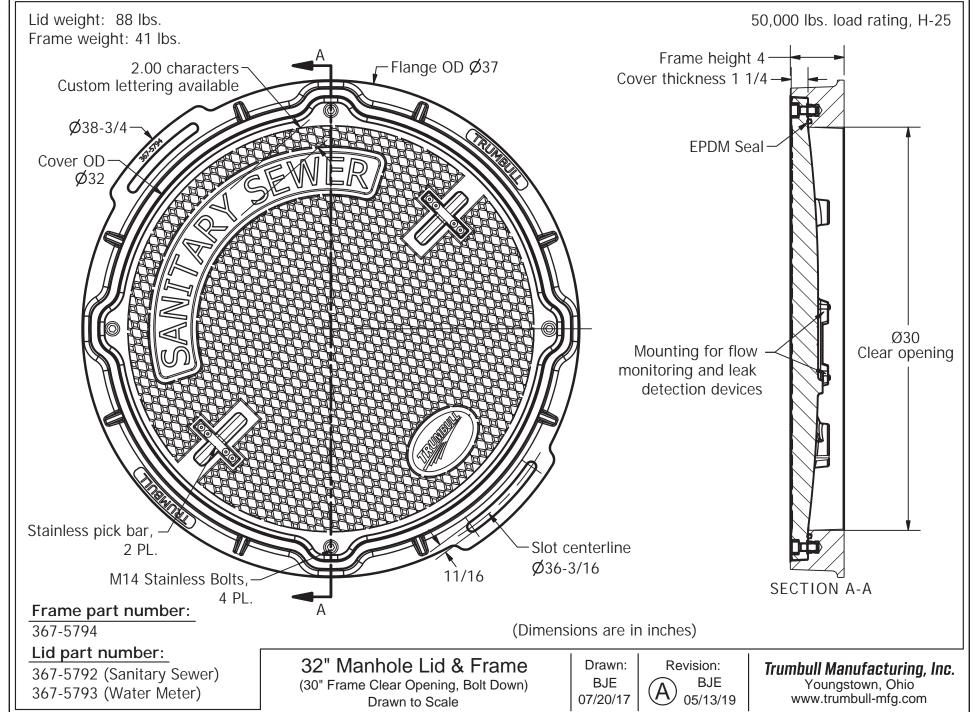


- manhole SANITARY WATER FRAME SEWER LID **METER LID** Lid Locking Trumbull Trumbull Trumbull Total OD Mechanism Item No. Item No. Item No. Weight Bolt Down 93.00 lbs. 26" 367-5701 367-5702 367-5705 26″ Paddle Lock 93.00 lbs. 367-5703 367-5704 Bolt Down 129.00 lbs. 32" 367-5793 367-5792 367-5794 Paddle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

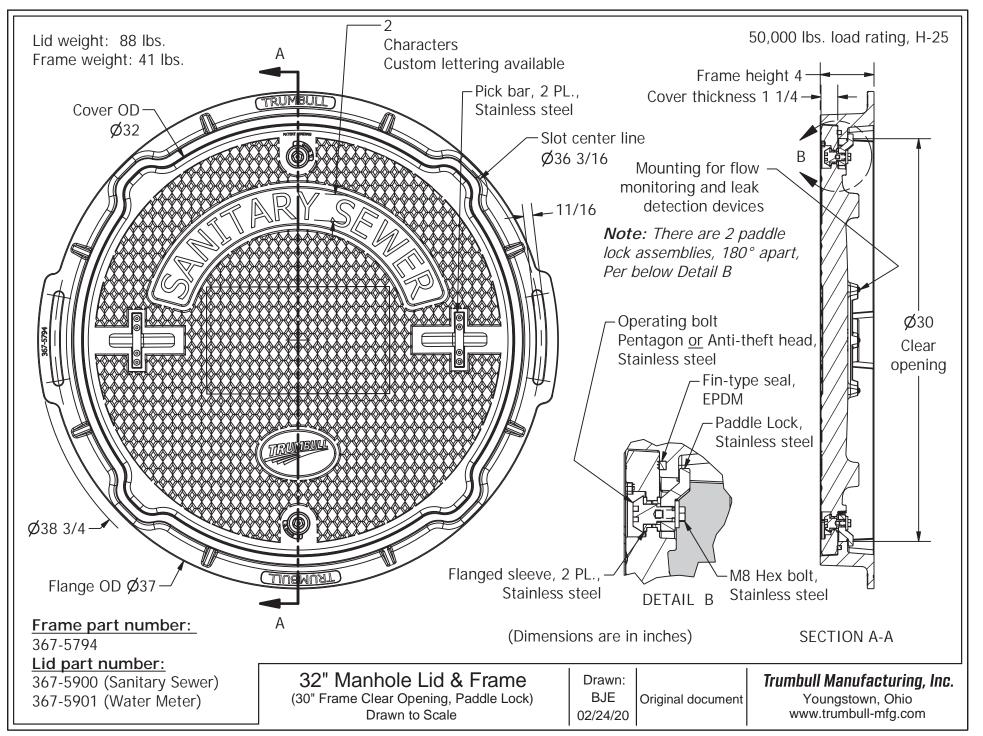
For dimensions, load ratings and additional options, refer to the product information chart on page 28 (WATER METER) and page 46 (SANITARY SEWER).

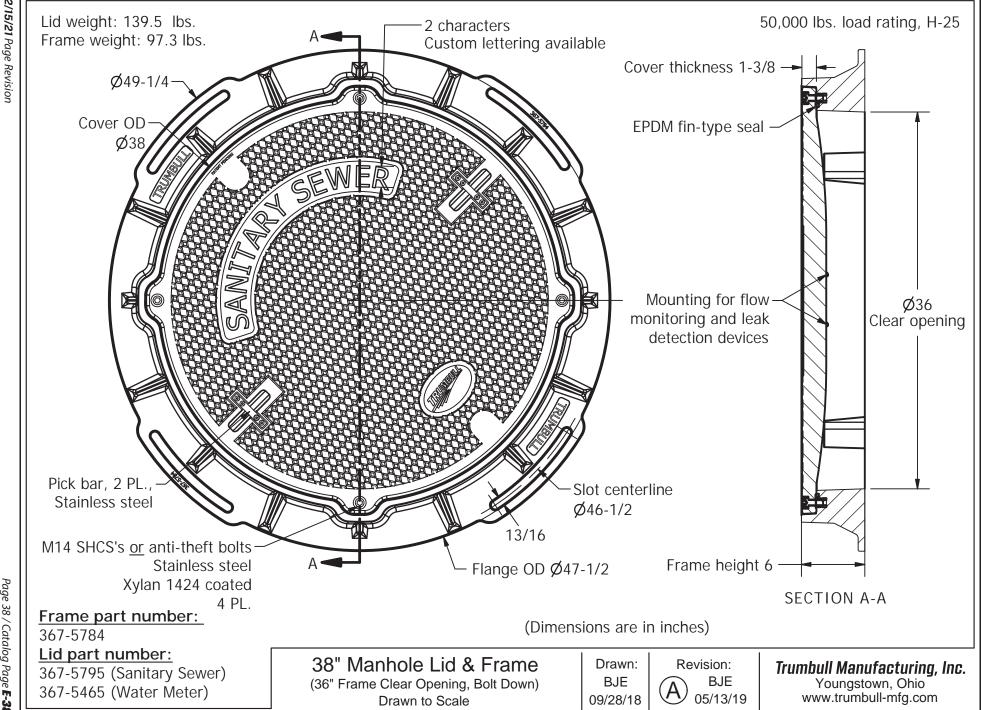




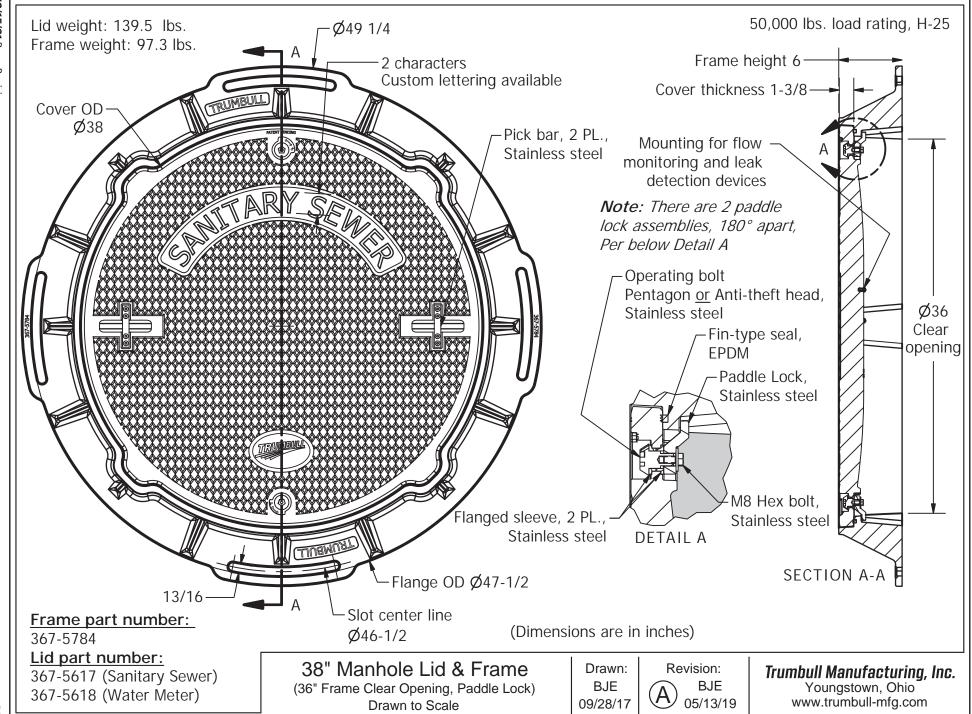








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# Additional Security for Meter and Manhole Lids

#### Security Bolts

Made from stainless steel

rames	Weight

#### For Worm Gear Lids

Trumbull					
Item No.	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

Trumbull Item No.	F	or Frames	Weight
167-0062*	Padd	Paddle-Lock Covers	
Don't forget the	Trumbull Item No.	Description	Weight
Custom	167-0070	Key Only	0.18 lbs.
KEY	spec/ord.	Key, with T-Handle	

\* 316 Stainless Steel

\*\* 17-4 Stainless Steel

## **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 Ha	ndle		90° Handl	е	
Trumbull Item No.	Overall Length	Weight	Trumbull Item No.	Overall Length	Weight
367-4286	24″	3.35 lbs.	367-4288	30″	3.85 lbs.
367-4290	36″	4.50 lbs.	367-4289	36″	4.45 lbs.
507-4290	30	4.30 105.	507-4209	30	4.45 103.

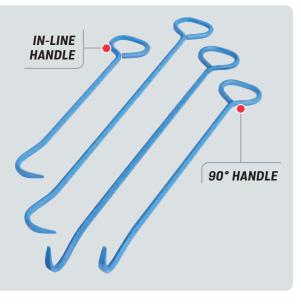
#### 24" Frame and Covers M14 x 35MM for use with 30" and 36" Frame and Covers

M14 x 30MM for use with

Security Screws

#### For Bolt Down Frames and Covers

	Trumbull Item No.		Weight	
	167-0146	M14-2.0 x 3	0.10 lbs.	
	167-0148	M14-2.0 x 3	5MM Security Screw	0.10 lbs.
$\left( \right)$	Don't forget the	Trumbull Item No.	Frame	Weight
	Custom	167-0152	Key Only	0.15 lbs.
	KEY	367-4403	Key, with T-Handle	



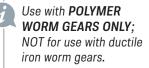




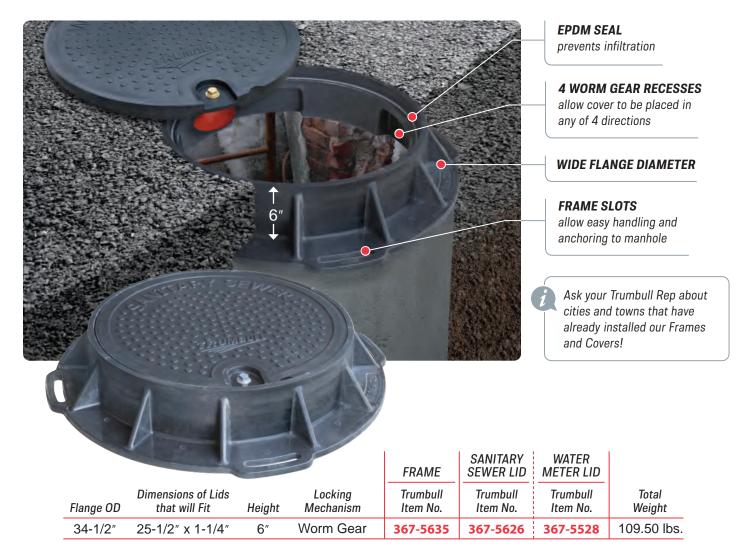
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## **Composite Manhole Frames and Covers** Worm Gear Style – For Use with 25-1/2" x 1-1/4" Covers

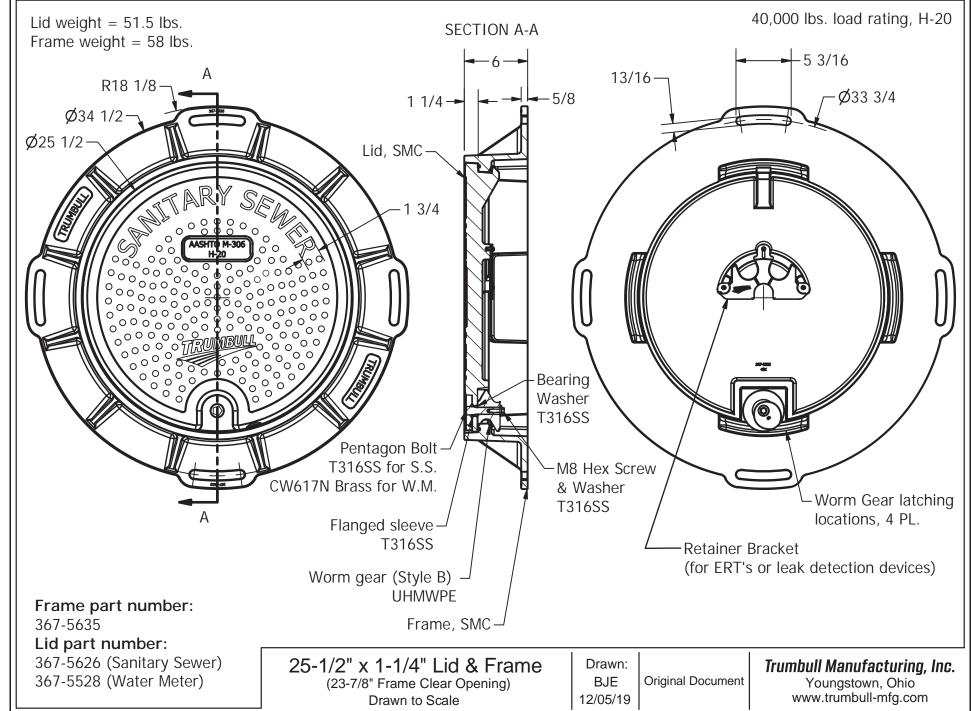
- Composite design can pass a 40,000 lbs. proof load test per AASHTO M-306, H-20, yet weighs only one-third of comparable cast iron frame, reducing back and finger injuries.
- Frame's composite construction provides corrosion resistance, making it suitable for both water and sewer applications.







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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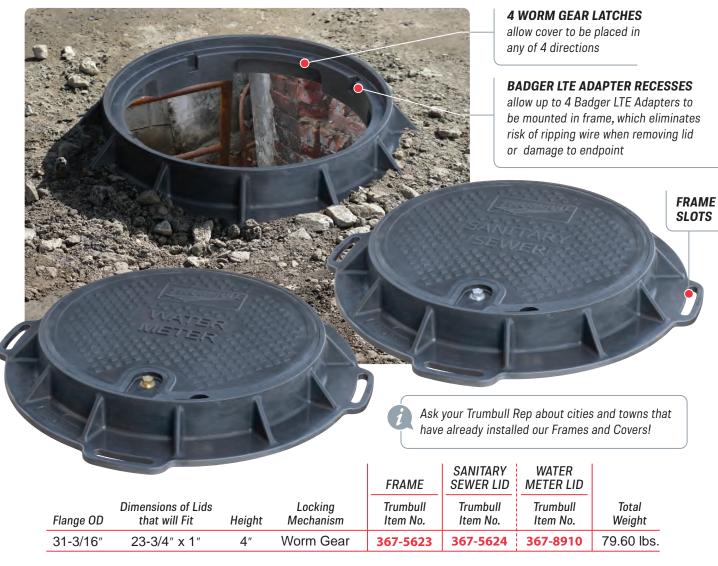
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## **Composite Manhole Frames and Covers** Worm Gear Style – For Use with 23-3/4" x 1" Covers

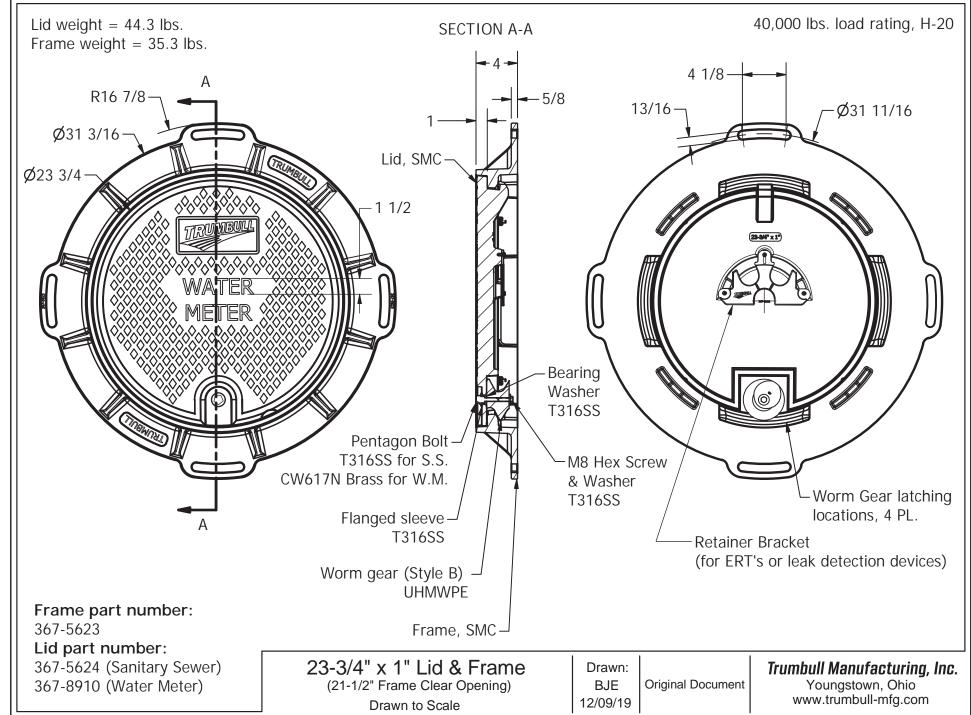
- Composite design can pass a 40,000 lbs. proof load test per AASHTO M-306, H-20, yet weighs only one-third of comparable cast iron frame, reducing back and finger injuries.
- Frame's composite construction provides corrosion resistance, making it suitable for both water and sewer applications.







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





Composite Lids
"SANITARY SEWER"

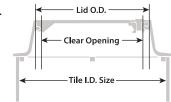
**Pentagon Bolts:** Sanitary sewer lids are normally furnished with standard (27/32") T316SS pentagon bolt. Not furnished on drop-in style lids.

*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 28.



	s, Load Ratings, I Materials	Fits Frame Types	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	<b>367-5695</b> 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	<b>367-5619</b> 45.70 lbs.
23-3/4" DD 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	<b>367-5622</b> 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	<b>367-5624</b> 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	<b>367-5686</b> 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	<b>367-5687</b> 63.50 lbs.

	s, Load Ratings, I Materials	Fits Frame Types	SOLID LID No Antenna Recess
25-1/2" DD Clear Opening: 24-3/16" Rim Thickness: 1-1/4"	40,000 lbs. / Composite DUCTILE IRON WORM GEAR Solid Lid* Retainer Bracket	EJ 1040, 1045, 1048 and 1705	<b>367-5625</b> 54.00 lbs.
25-1/2" 0D Clear Opening: 24-3/16" Rim Thickness: 1-1/4"	40,000 lbs. / Composite UHMWPE WORM GEAR Solid Lid* Retainer Bracket	Trumbull Frame <b>367-5635</b> 6" height	<b>367-5626</b> 54.00 lbs.
25-1/2" DD Clear Opening: 24-3/16" Rim Thickness: 1-1/4" "CITY OF TACOMA CONFINED SPACE"	40,000 lbs. / Composite UHMWPE WORM GEAR Solid Lid* Retainer Bracket	Trumbull Frame <b>367-5635</b> 6" height	<b>367-5627</b> 54.00 lbs.
35-27/32" OD Clear Opening: 34" Rim Thickness: 1.44" "CONFINED SPACE NEORSD"	40,000 lbs. / Composite DROP-IN STYLE Solid Lid* Retainer Bracket	EJ 1585, Neenah R-1752	<b>367-5714</b> 131.30 lbs. 25 pcs minimum order quantity
35-27/32" OD Clear Opening: 34" Rim Thickness: 1.44"	40,000 lbs. / Composite DROP-IN STYLE Solid Lid* Retainer Bracket	EJ 1585, Neenah R-1752	367-5716 131.30 lbs. 25 pcs minimum order quantity

Continued on the right.





Composite Frame & 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 42 for optional security screws.

**Paddle Lock Lids**: Are secured to frame with pentagon bolt, see page 40 for optional security bolts. **Antenna Mounting Options**: Shown in "Additional Notes" on page 28.

23-3/4″ OD	s, Load Ratings, d Materials 50,000 lbs. / Composite	Types	367-5789		STYLE 	
Clear Opening: 21-1/2" ID Rim Thickness: 1"	<b>BOLT-DOWN STYLE</b> Solid Lids* Only	Trumbull Frame <b>367-5468</b> 4" height	66.10 lbs. Frame and Cover			
26" OD Clear Opening: 24" ID	50,000 lbs. / Composite Bolt-down style	Trumbull Frame	367-5701	<b>367-5706</b> Same as 367-5793	367-5703	
Rim Thickness: 1"	OR PADDLE LOCK STYLE Solid Lids* Only	<b>367-5705</b> 4" height	93.00 lbs. Frame and Cover	except has lettering "STORM DRAIN"	<b>93.00 lbs.</b> Frame and Cover	
32" OD Clear Opening: 30" ID	50,000 lbs. / Composite Bolt-down style	Trumbull Frame	367-5792		367-5900	
Rim Thickness: 1-1/4"	OR PADDLE LOCK STYLE Solid Lids* Only	<b>367-5794</b> 4" height	<b>129.00 lbs.</b> Frame and Cover		129.00 lbs. Frame and Cover	
38" OD Clear Opening: 36" ID	50,000 lbs. / Composite BOLT-DOWN STYLE	Trumbull Frame	367-5795		367-5617	
Rim Thickness: 1-1/2"	OR PADDLE LOCK STYLE Solid Lids* Only	<b>367-5784</b> 6" height	<b>236.80 lbs.</b> Frame and Cover		<b>236.00 lbs.</b> Frame and Cover	0 0
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### Brass Meter Couplings and Meter Flanges

Complete w/qasket. 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.

DESCRIPTION	ZINC-PLATED FASTENERS TRUMBULL <sup>#</sup>	<b>BRASS</b> FASTENERS TRUMBULL <sup>#</sup>	STAINLESS FASTENERS TRUMBULL#	
Brass Meter Flange Kit, 1-1/2"	379-2015	379-2025	379-2030	10000
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.

		ORIGIN	AL METER	NEW METER		QUANTITY	
TRUMBULL <sup>#</sup>	FORD <sup>#</sup>	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.

**RELATED BRASS PRODUCTS** 

## SPECIALTY PRODUCTS FOR THE WATERWORKS AND VALVE INDUSTRIES

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

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

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





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

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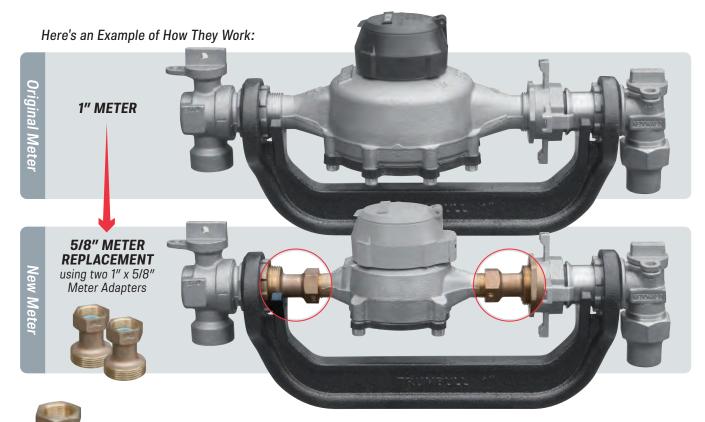
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# **Meter Adapters**

When changing meter sizes in an existing setting, use Trumbull Meter Adapters to make up the difference in length and thread size. Our Meter Adapters are cast from UNS C89833 brass and have been certified by UL for compliance with NSF/ANSI 61 and NSF/ANSI 372, per the U.S. Safe Drinking Water Act.



				Original	Meter	New Meter		
	Trumbull Item No.	Weight	Ford No.	Meter Size	Laying Length	Meter Size	Laying Length*	Quantity Required
	368-0642	0.4 lbs.	A13	3/4″	9″	5/8″	7-1/2″	2
	368-0643	0.4 lbs.	A14	1″	10-3/4″	5/8″	7-1/2″	2
	368-0639	0.4 lbs.	A23	3/4″	9″	5/8" x 3/4"	7-1/2″	1
	368-0641	0.6 lbs.	A24	1″	10-3/4″	5/8" x 3/4" & 3/4" **	7-1/2″	2
.1-	368-0644	0.4 lbs.	A34	1″	10-3/4″	3/4"	9″	2
	368-0640	0.7 lbs.	A44	1″	10-3/4″	3/4" x 1"	9″	1
	379-1022	3.2 lbs.	A47	2" Flange	17″	1 "	10-3/4″	2
- A								



\* Meter Adapters are provided with a hard fiber gasket to maintain existing laying lengths, however, for polymer meters with pressed on metal threads, a soft rubber gasket is required; please specify on order. Adapter No. 379-1022 is provided with one 2" rubber flange gasket and one 1" rubber gasket.

\* 3/4" meters have been made with 7-1/2" and 9" laying lengths; Adapter No. 368-0641 is designed for 3/4" meters with 7-1/2" laying length.

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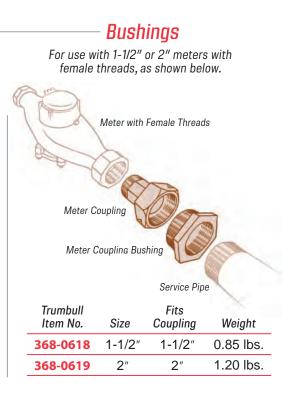
# Meter Couplings and Flanges WITH GASKETS

Certified by UL for compliance with NSF/ANSI 61 and NSF/ANSI 372, per the U.S. Safe Drinking Water Act



- Barrel is in contact with water and is cast brass to meet UNS C89833.
- Swivel nut does not contact water and is cast from UNS C83600.

Trumbull Item No.	Male Thread	Fits Meter Size	Laying Length	Weight
368-0590	1/2″	5/8" x 3/4" and 3/4"	2-3/8″	0.44 lbs.
368-0591	1/2″	5/8" x 1/2"	2-3/8″	0.25 lbs.
368-0646	1/2″	5/8" x 3/4" and 3/4"	1-5/8″	0.40 lbs.
368-0593	3/4″	5/8" x 3/4" and 3/4"	2″	0.45 lbs.
368-0592	3/4″	5/8" x 3/4" and 3/4"	2-1/2″	0.50 lbs.
368-0595	1″	1″	2-5/8″	0.70 lbs.
368-0597	1-1/2″	1-1/2″	2-7/8″	1.85 lbs.
368-0598	2″	2″	3″	2.65 lbs.



### Meter Flange Kits

- Cast brass to meet UNS C8983
- Boxed kit includes 2 flanges, 2 gaskets & 4 bolts and nuts.

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Trumbull Item No.	Size	Fits Meter	Fastener Material	Weight
379-2015	1-1/2″	1-1/2″	zinc-plated	5.40 lbs.
379-2025	1-1/2″	1-1/2″	brass	5.40 lbs.
379-2030	1-1/2″	1-1/2″	stainless steel	5.40 lbs.
379-2016	2″	2″	zinc-plated	7.10 lbs.
379-2026	2″	2″	brass	7.10 lbs.
379-2031	2″	2″	stainless steel	7.10 lbs.

## Meter Flanges

Sold Individually

- Cast brass to meet UNS C89833.
- Includes one flange and one gasket.



Trumbull Item No.	Size	Fits Meter	Weight
379-1015	1-1/2″	1-1/2″	2.00 lbs.
379-1016	2″	2″	2.45 lbs.



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# **Cast Iron Meter Yokes / Expansion Connections**

### Cast Iron Meter Yokes

Trumbull Meter Yokes provide uniform spacing and alignment for setting water meters. Used in conjunction with Expansion Connections for easy installation and removal of meters.

Cast of gray iron, Class 25, with rust-preventative black coating.

Trumbull Item No.	Meter Size	Length	Height	Weight
367-5470	5/8″	10-15/16″	4-1/8″	3.65 lbs.
367-5469	5/8" x 3/4"	10-15/16″	4-1/8″	4.20 lbs.
367-5471	3/4″	12-1/2″	4-1/8″	4.60 lbs.
367-5472	1″	14-3/4″	5-1/4″	7.30 lbs.

EXPANSION CONNECTION shown below

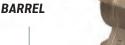
**Expansion Connections** 

Expansion Connections are screwed onto one end of a meter and allow for easy installation and removal from Meter Yoke. Turning the Handwheel causes expansion into the rubber gaskets in the Yoke, creating a water-tight seal.

**METER YOKE** 

Nose Piece and Barrel are in contact with water and are cast from UNS C89833 brass. Certified by UL for compliance with NSF/ANSI 61 and NSF/ANSI 372, per the U.S. Safe Drinking Water Act.

Handwheel does not contact water and is cast from UNS C83600. Both the flat seal yoke gaskets and bevelled seal gasket are EPDM. Expansion seal gasket between barrel and meter is fiber; however, for polymer meters with pressed on metal threads, a soft rubber gasket is required. Please specify on order. All gaskets are NSF-61.



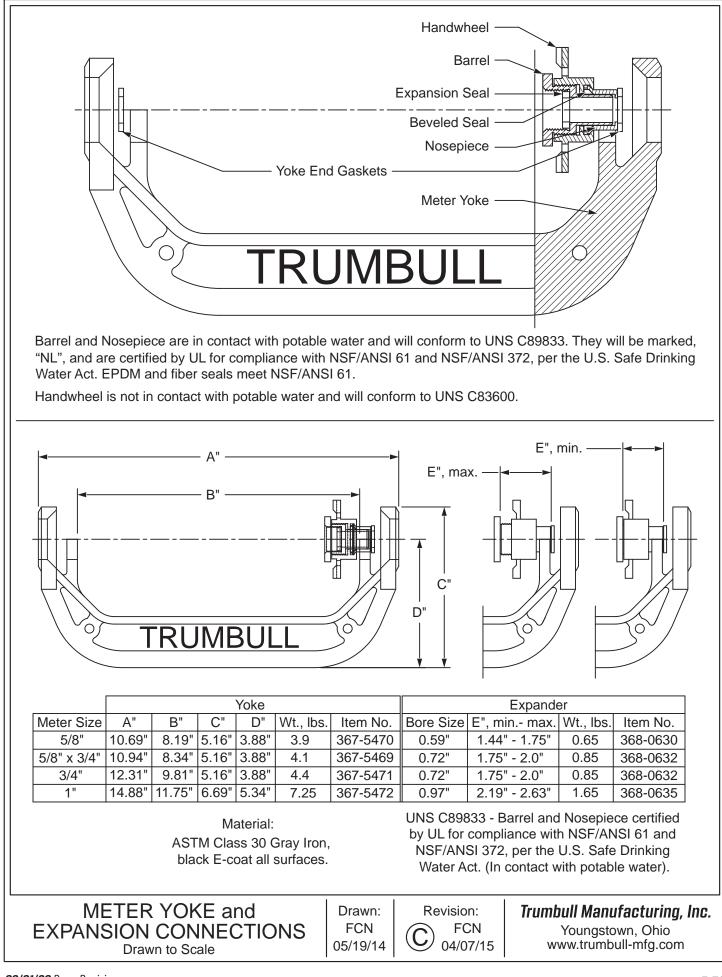
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HANDWHEEL

NOSE PIECE

Dimensions of Yokes & Expansion Connections are consistent & interchangeable with other industry manufacturers.

Trumbull Item No.	Meter Size	Size	Туре	Weight
368-0630	5/8″	5/8″	Handwheel	0.72 lbs.
368-0632	5/8" x 3/4" & 3/4"	3/4″	Handwheel	0.93 lbs.
368-0635	1″	1″	Handwheel	1.61 lbs.





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US Patent No.'s 8,550,115 / 9,347,583 / 10,066,760 Valve Position Indicators For Buried Service with 1-1/4" Square Extension Stems Optional DEBRIS SHIELD keeps valve box clean and Position Indicator legible POSITION **INDICATOR** PINNING OR REQUIRED Instructions

 Eliminates broken valve stems caused by over-opening or over-closing

- Field-adjustable for any number of turns within the range of each model
- ns OPEN CLOSED
- Constructed of heavy-duty, non-corrosive DuPont<sup>™</sup> Delrin<sup>®</sup> polymer, providing high-impact resistance even in cold climates
- Double O-ring seals keep out water and dirt
- Third-party tested to over 1 million revolutions
- Provided with stainless steel hardware
- Also available for use above ground in the floor or with Wall Brackets (see pages F-9 to F-10)

7. Specify direction of open (open left or open right)
2. Model required (available in 57, 275 or 870 turns)

		Open Left	Open Right
Model Number	Number of Turns	Trumbull Item No.	Trumbull Item No.
57T	0 - 57	367-9394	367-9393
275T	0 - 275	367-9396	367-9395
870T	0 - 870	367-9400	367-9399

3. Extension Stem required (1-1/4" square)

- a. Length required (provide "A" dimension on the illustration shown on right side of page F-2)
- b. Carbon steel or stainless steel
- c. Tubing or solid bar
- 4. Debris Shield, item 367-9415 is recommended for buried service

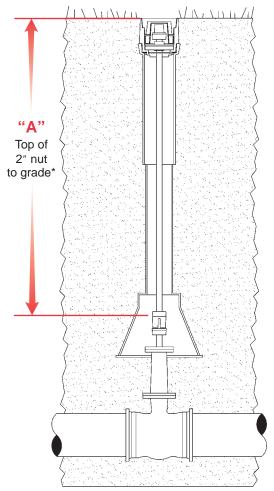


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- \* Wrench nut coupling welded to stem at factory.
- \*\* When bottom coupling is purchased separately, pin is provided.



\* The dimension from top of 2" valve nut to grade is used to determine Extension Stem length, per ordering instructions on page F-1.

US Patent No.'s 8,550,115 / 9,347,583 / 10,066,760

### **Extension Stem Torque Ratings**

Extension Stems rated for a minimum of 300 ft-lb. For higher torque capacity, consult Trumbull.

**YouTube** 

Installation animations online: www.youtube.com/trumbullmfg

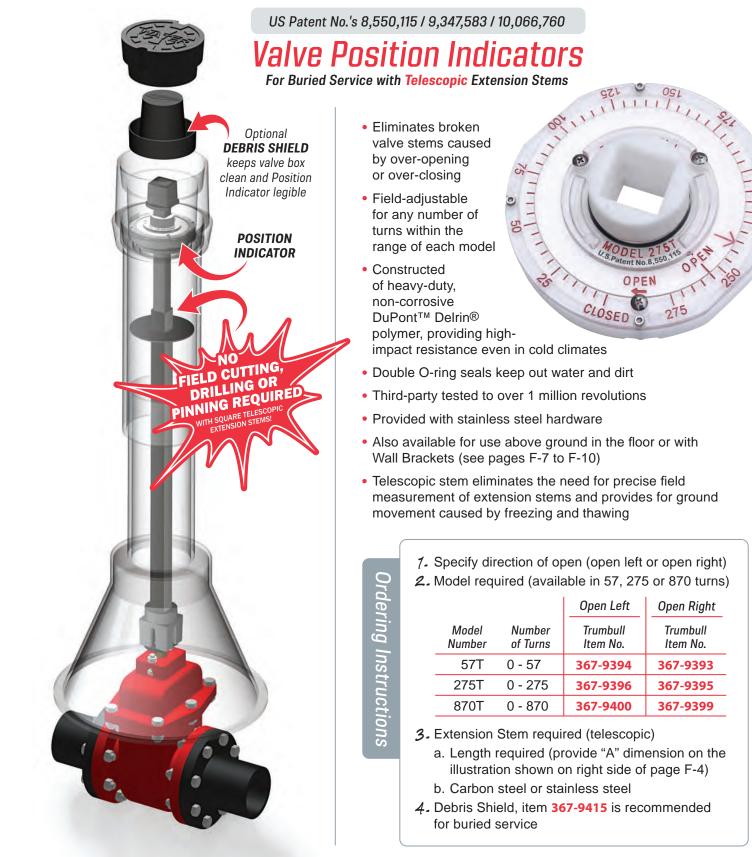


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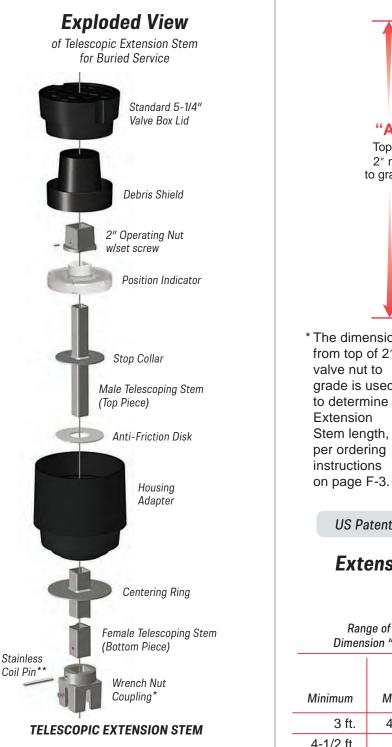


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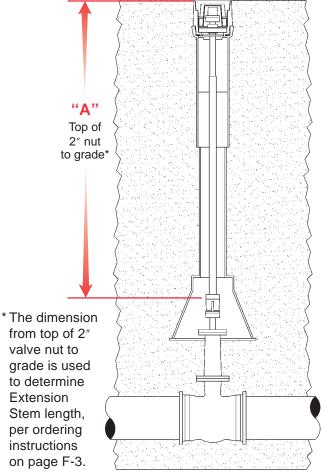
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- \* Wrench nut coupling welded to stem at factory.
- \*\* When bottom coupling is purchased separately, pin is provided.



US Patent No.'s 8,550,115 / 9,347,583 / 10,066,760

#### Extension Stem Adjustment Ranges and Torque Ratings

for Telescopic Extension Stems

Range of Dimension "A"		Square Telescopic Extension Stems			
Minimum	Maximum	Length of 1-1/4″ Top Part	Length of 1-1/2″ Bottom Part	Torque In ft-Ib	
3 ft.	4-1/2 ft.	30″	30″	300 ft-lb	
4-1/2 ft.	6 ft.	30″	48″	300 ft-lb	
6 ft.	7-1/2 ft.	30″	66″	300 ft-lb	
7-1/2 ft.	9 ft.	30″	84″	300 ft-lb	
9 ft.	10-1/2 ft.	30″	102″	300 ft-lb	

Other stem ranges available upon request.



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# Valve Position Indicators

For Buried Service with Round Extension Stems

Optional **DEBRIS SHIELD** keeps valve box clean and Position Indicator legible

> POSITION INDICATOR

- Eliminates broken valve stems caused by over-opening or over-closing
- Field-adjustable for any number of turns within the range of each model
- Constructed of heavy-duty, non-corrosive DuPont<sup>™</sup> Delrin<sup>®</sup> polymer, providing high-impact resistance even in cold climates
- Double O-ring seals keep out water and dirt
- Third-party tested to over 1 million revolutions
- Provided with stainless steel hardware
- Also available for use above ground in the floor or with Wall Brackets (see pages F-7 to F-10)
  - 7. Specify direction of open (open left or open right)
     2. Model required (available in 57, 275 or 870 turns)

CLOSED

		Open Left	Open Right		
Model Number	Number of Turns	Trumbull Item No.	Trumbull Item No.		
57T	0 - 57	367-9404	367-9403		
275T	0 - 275	367-9406	367-9405		
870T	0 - 870	367-9410	367-9409		

3. Extension Stem required (round)

- a. Length required (provide "A" dimension on the illustration shown on right side of page F-6)
- b. OD required (maximum OD of 1.75")
- c. Carbon steel or stainless steel
- 4. Debris Shield, item 367-9415 recommended for buried service

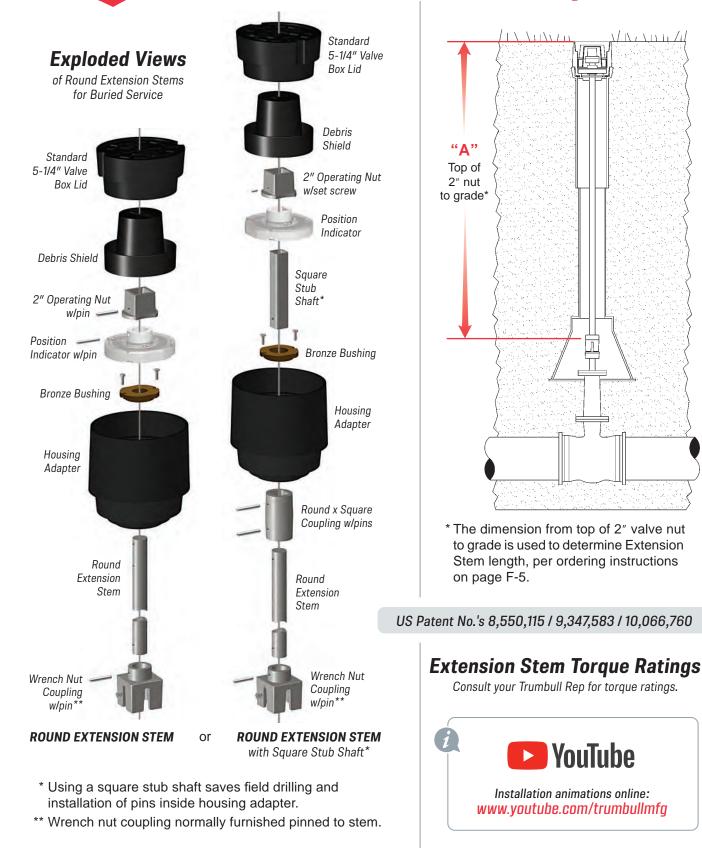
Indering Instructions



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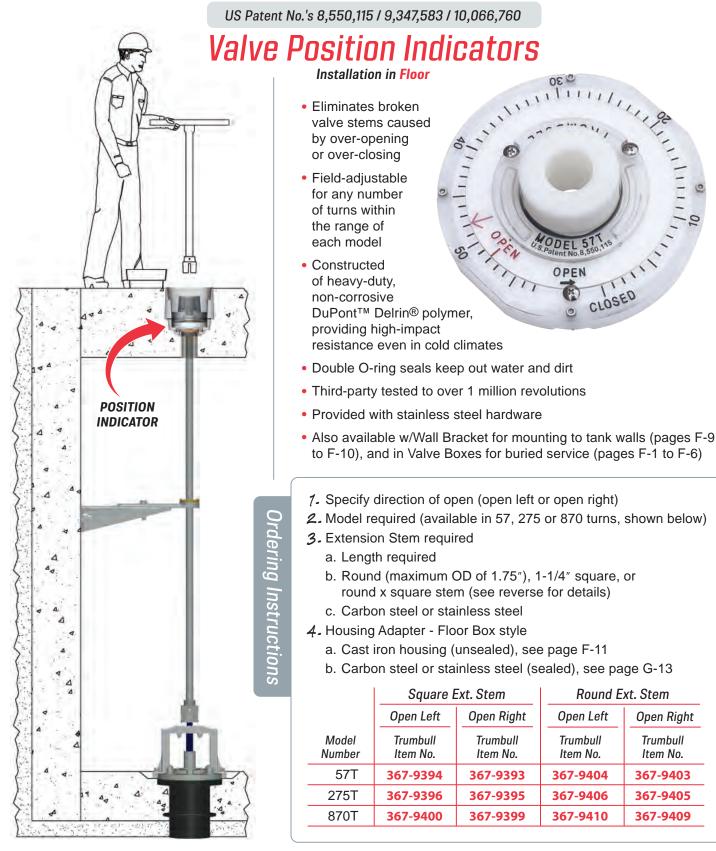


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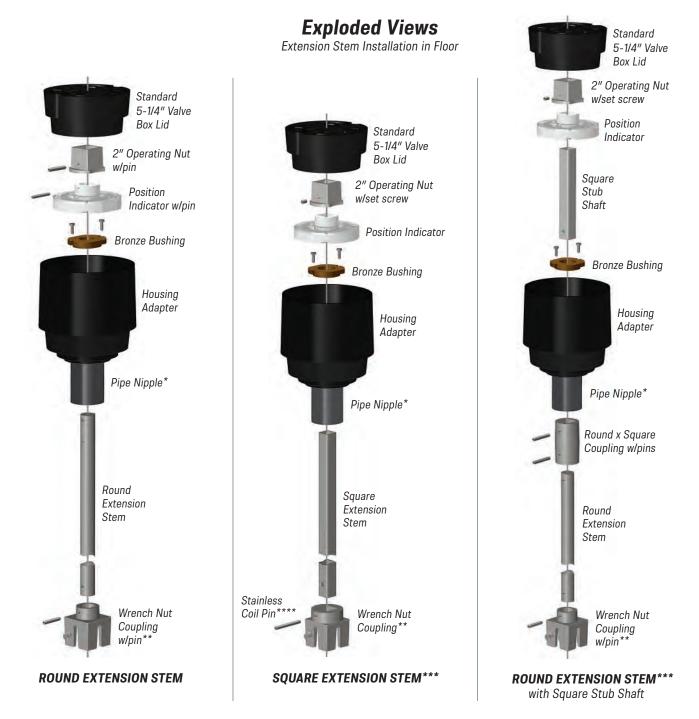
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\* Use a pipe nipple 5/8" longer than the increase in floor slab thickness required, as the tapped thread is 5/8" deep.

- \*\* Wrench nut coupling normally furnished pinned to round stems, and factory welded on square stems.
- \*\*\* Using a square Extension Stem, or a round Extension Stem with a square stub shaft saves field drilling and installation of pins inside floor box.
- \*\*\*\* When bottom coupling is purchased separately, pin is provided.

#### US Patent No.'s 8,550,115 / 9,347,583 / 10,066,760



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OPEN

CLOS

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# Valve Position Indicators

Installation with Wall Bracket

WALL BRACKET

DUCTILE IRON Item No. 367-2450

CAST 316 STAINLESS Item No. 367-2460

- Eliminates broken valve stems caused by over-opening or over-closing
- Field-adjustable for any number of turns within the range of each model
- Constructed of heavy-duty, non-corrosive DuPont<sup>™</sup> Delrin<sup>®</sup> polymer, providing high-impact resistance even in cold climates
- Double O-ring seals keep out water and dirt
- Third-party tested to over 1 million revolutions
- Provided with stainless steel hardware
- Also available for use in the floor (pages F-7 to F-8), and in Valve Boxes for buried service (pages F-1 to F-6)
  - 7. Specify direction of open (open left or open right)
  - 2. Model required (available in 57, 275 or 870 turns)
  - 3. Extension Stem required
    - a. Length required
    - b. Round (maximum OD of 1.75") see next page for details
    - c. Carbon steel or stainless steel

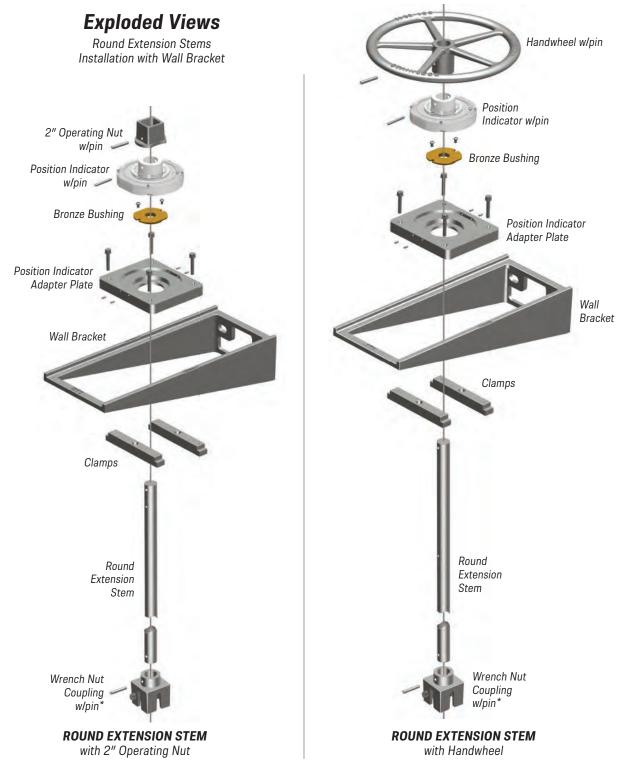
		Open Left	Open Right
Model Number	Number of Turns	Trumbull Item No.	Trumbull Item No.
57T	0 - 57	367-9404	367-9403
275T	0 - 275	367-9406	367-9405
870T	0 - 870	367-9410	367-9409

Instructions



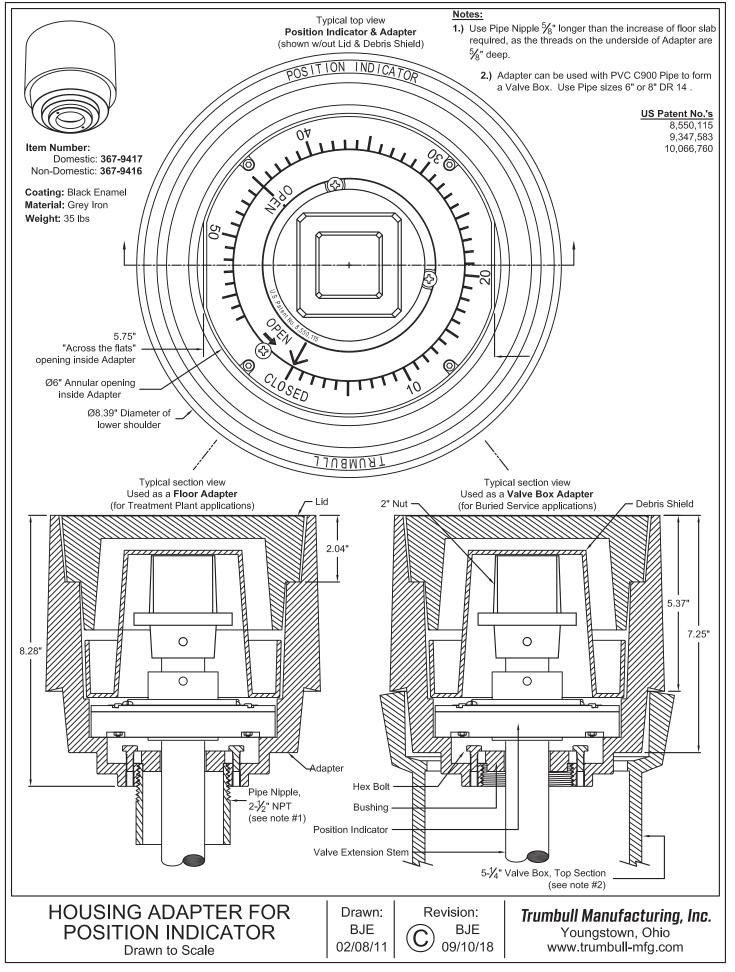
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\* Wrench nut coupling normally furnished pinned to stem.

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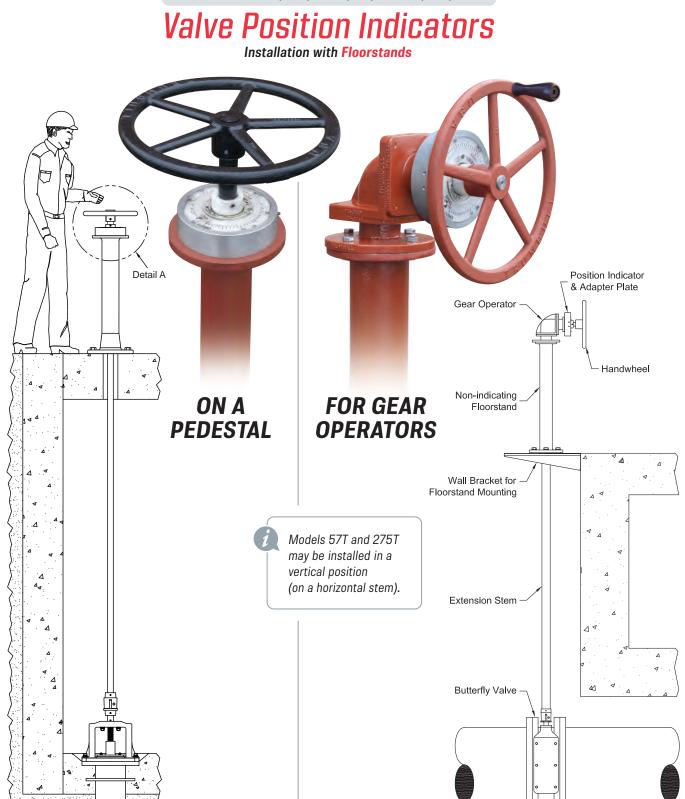




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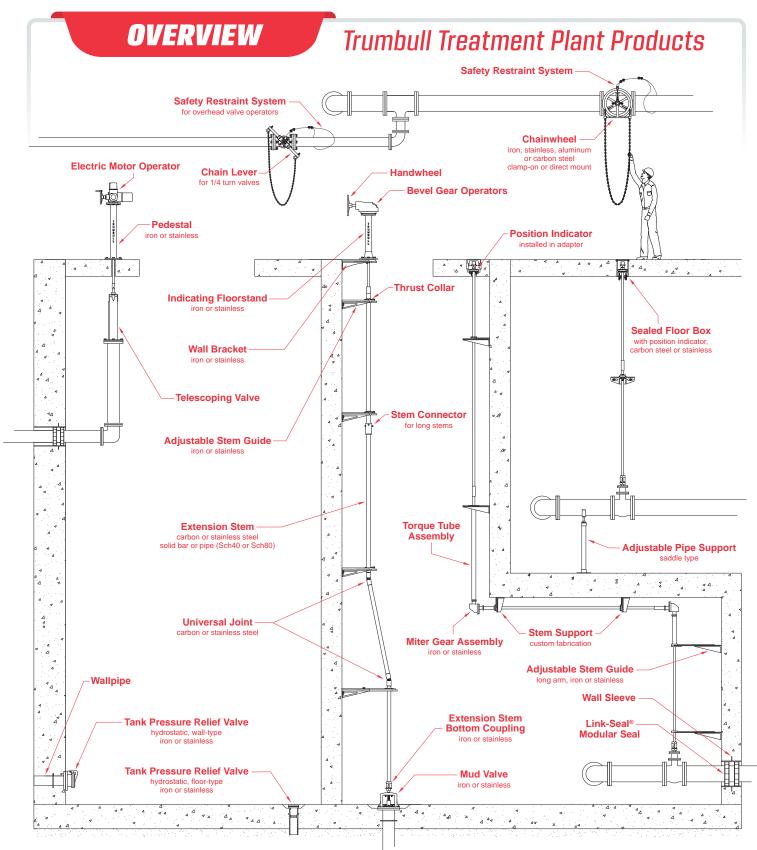




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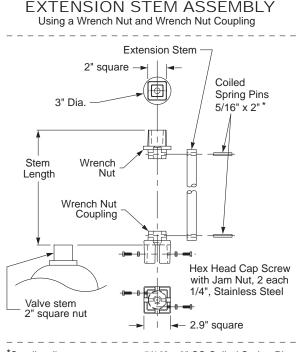
## Round Valve Extension Stems

Solid Bar or Pipe – Carbon Steel or Stainless Steel

Trumbull Round Valve Extension Stems are used to raise the elevation of both buried and "in-plant" valves having a 2<sup>*r*</sup> square operating nut. We can also adapt to valves without 2<sup>*r*</sup> nut.

The extension stem is made up of an extension rod (or pipe), a 2" square top wrench nut (or handwheel), and a bottom wrench nut coupling. Wrench nut coupling fits over the 2" square nut of the valve stem being extended, held to the nut by two cap screws with jam nuts threaded in the bottom coupling.

The top nut (or handwheel) and bottom coupling are pinned to the extension rod (or pipe) which is drilled to receive stainless steel coil pins. The top nuts and bottom couplings are available in either ductile iron, grade 65-45-12, or stainless steel, Type 316. The pinned connections permit the removal of the castings so the rod can slide through Trumbull Floor Boxes and Stem Guides. Extensions can easily be shortened by cutting the stem and re-drilling for the pin.



\*Smaller diameter stems use 5/16" x 2" SS Coiled Spring Pins while larger stems use 5/16" x 3" SS Coiled Spring Pins.

Extension Stems are normally furnished complete with top nut (or handwheel), rod, bottom coupling, two cap screws with jam nuts and pins. Top nuts and bottom couplings are also available for separate sale (see page G-4). Universal Joints, Thrust Collars and Miter Gears are also available. See page G-6 for illustration of custom installations.

Square Stems are shown on page G-3



Valve Position Indicators.



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## Square Valve Extension Stems

Telescopic and Non-Telescopic Types

Round Stems are shown on page G-2



See separate literature on Trumbull Floorstands, Floor Boxes, Stem Guides, Mud Valves and Valve Position Indicators. Traditionally, extension stems have been made from round stock, either pipe or solid round bar. Now, Trumbull's Square Extension Stems can simplify the installation when installers cut extension stems in the field for buried service!

The top and bottom couplings used with Square Extension Stems have an internal square cavity for placement of the square stems. The flat sides inside the cavity bear against the flat sides of the stem, reducing the dependence on the drive pin used to connect both the top and bottom couplings of round extension stems. This enables the installer to cut Square Extension Stems in the field and attach the top coupling with two cap screws, as opposed to drilling for a drive pin. Because of its location, the bottom coupling should be welded or pinned, to provide a secure connection.

When using Trumbull's Valve Position Indicator for buried service, Square Extension Stems are recommended. They eliminate the need to drill holes and pin the stem to attach the Position Indicator and the 2" nut in the field (see pages F-1 and F-2).

Telescopic Extension Stems can also be furnished with Position Indicators for buried service (Patent Pending), as illustrated on pages F-3 and F-4. The Telescopic Extension Stems use a 1-1/4" square tubular upper section which slides inside a 1-1/2" square tubular bottom section. This style has an adjustment range, which saves the installer from field cutting the stem to the exact length required. The adjustment range also provides for ground movement caused by freezing or thawing. The non-telescopic version uses 1-1/4" square stock, either solid or tubular, (as shown on page F-1).

Trumbull can provide Square Extension Stems complete with the required length of square stock, top nut with set screw and welded bottom coupling with two stainless cap screws and jam nuts. Or, the components can be purchased separately for non-telescopic stems (page G-4).

The top nuts and bottom couplings are domestic ductile iron, grade 65-45-12, or Type 316 stainless steel. Carbon or stainless steel bar or tubing is domestic. Telescopic Extension Stems are furnished only as complete units.



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# Top Nuts and Bottom Couplings

For Round and Non-Telescopic Square Stems - Ductile Iron and Stainless Steel

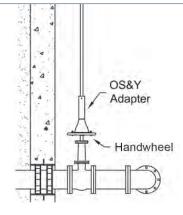
		Max		Max		Top Nut	Coupling
	Solid Rod	Torq* in ft-lb	Steel Pipe	Torq* in ft-lb	Bore Diameter	Trumbull Item No.	Trumbull Item No.
	7/8″	340	1/2″	325	0.905″	367-4953	367-4963
	1″	390	3/4″	410	1.155″	367-4954	367-4964
	1-1/4″	480			1.265″	367-4905	367-4915
D			1″	510	1.330″	367-4901	367-4910
uctile	1-3/8″	530			1.390″	367-4955	367-4965
	1-1/2″	580	1-1/4″	640	1.675″	367-4956	367-4966
ron	1-3/4″	680	1-1/2″	740	1.929″	367-4957	367-4967
	2″	775			2.047″	367-4958	367-4968
			2″	920	**	367-4959	367-4969
	1-1/4" square stems ***					367-4930	367-4938
	3/4″	325			0.780″	367-4931	367-4941
Sta	1-1/4″	480			1.265″	367-4935	367-4945
<u> </u>			1″	510	1.330″	367-4933	367-4943
ess	1-1/2″	580	1-1/4″	640	1.675″	367-4934	367-4944
Steel			1-1/2″	740	1.929″	367-4932	367-4942
eel			2″	920	**	367-4936	367-4947
	1-1/4	4" squar	e stems	***		367-4929	367-4937

\* Maximum torque is based on the minimum load for 5/16" coil pin. For higher torque capacity or for square stems, consult Trumbull.

- \*\* Nuts and Couplings have 2.030" hub diameter; fit inside 2" pipe.
- \*\*\* Max torque is 250 ft-lb for 1-1/4" square tubing; and 460 ft-lb for solid bar.



- for large round stem 6. Bottom Coupling for
- 1-1/4" square stem



# **OS&Y Adapters** "Outside Screw and Yoke" Adapters

OS&Y / Handwheel Adapters are designed to allow an extension stem to be added to a rising stem valve with an existing handwheel.

These adapters give the operator the flexibility of operating the valve from either the actual valve location, or at some elevation above the valve.



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# Handwheels

#### Cast Handwheels

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Trumbull Item No.	Material	0.D.	Description	Weight
367-4961	Cast Iron	14″	Bored to fit 1.188" rod or larger	11.60 lbs.
367-4962	Cast Iron	14″	Socket to fit 2" square AWWA nut	15.15 lbs.
367-2043	316 SS	14″	1" Rod, made of cast 316 SS	11.20 lbs.
367-2044	316 SS	14″	1" Pipe,made of cast 316 SS	11.20 lbs.
367-2046	316 SS	14″	1-1/4" Rod, made of cast 316 SS	11.20 lbs.
367-2047	316 SS	14″	1-1/4" Pipe, made of cast 316 SS	11.20 lbs.

#### Tubular Handwheels

Trumbull Item No.	Material	Dia.	Bore	Weight
367-2055	CS	8″	1.010″	3.40 lbs.
367-2054	CS	12″	1.010″	4.35 lbs.
367-2056	CS	18″	1.010″	5.45 lbs.
367-2057	CS	24″	1.010″	5.70 lbs.
367-2058	CS	30″	1.010″	10.30 lbs.
391-0941	SS	8″	1.010″	3.40 lbs.
391-0942	SS	14″	1.010″	4.90 lbs.
391-0943	SS	18″	1.010″	5.45 lbs.
391-0944	SS	24″	1.010″	5.70 lbs.

Other sizes and materials of handwheels are available. Contact Trumbull for more information.

## ORDERING INFORMATION

#### **Round Complete Extension Stems**

- 7. Quantity
- 2. Overall length See "A" dimension of drawing on page G-2.
- 3. Order using the following chart:

Material Pipe or Solid Bar Туре Operator Coating Sch. 40 Black Pipe 2" DI Square Sch. 80 Carbon Powder Nut. or 14" CI Steel Coat Hot Rolled Handwheel\* Solid Bar Cold Rolled 304 2" SS Square Pipe (Sch. 40) 316 Stainless Nut, or 14" n/a Steel Handwheel, 304 Solid Bar CI or SS 316

*4.* Any special requirements, such as Handwheels, Valve Box Centering Rings, Universal Joints, Valve Position Indicators or Miter Gears.

#### **Extension Stem Components Only**

# Valve Extension Stems

#### Square Complete Extension Stems

- 7. Quantity required
- 2. Overall length
- 3. Material type
  - a. carbon or stainless steel
  - b. solid bar or tubing

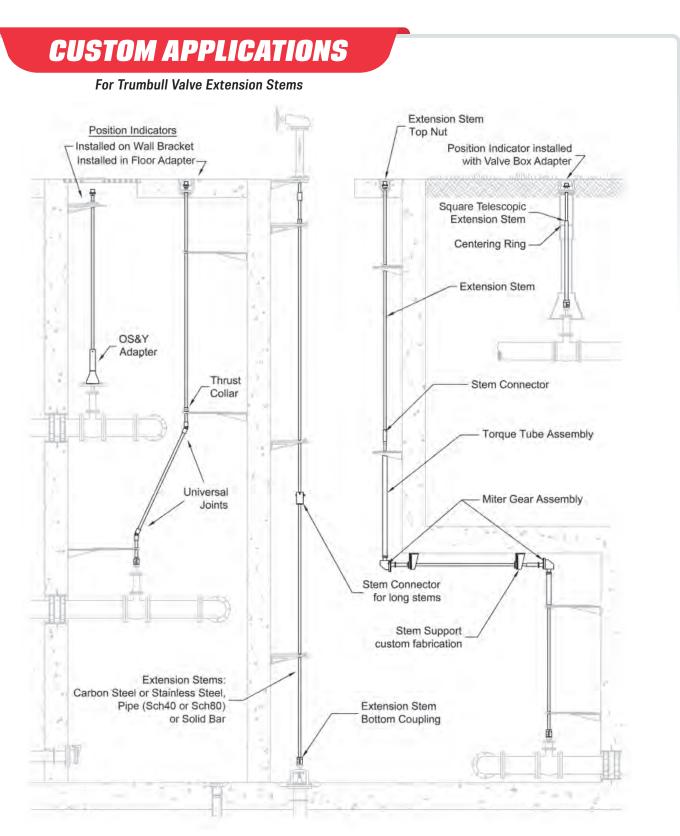
1-1/4" Square Only See Page G-3.

- \* Other handwheel diameters available (see above).
- \*\* Primer coatings are also available. Tnemec 37H-77 & N140-1211 normally stocked. Galvanizing and additional coatings available.
- 7. Specify quantity of top nuts, bottom couplings, handwheels and stem couplings. Top nut and handwheel furnished with stainless coil pin. Bottom coupling furnished with stainless coil pin & two cap screws/jam nuts.
- 2. For ductile iron top nut and bottom coupling select from chart on page G-4, based on type and diameter of extension being used. Stainless steel top nut and bottom coupling are normally furnished to fit 1-1/4" solid rod or 1" Sch 40 pipe. Specify if larger bore sizes are required, up to a maximum of 2".



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# **Universal Joints**

Used to Correct Misalignment of Valve Extension Stems

Trumbull Heavy-Duty Universal Joints are the answer to many common misalignment problems often encountered in valve applications.

Access to valves in treatment plants is often blocked by piping, equipment, or structural obstructions, requiring operation from a location that is not in line with the valve stem. The use of Universal Joints can help solve this situation, as shown by the typical application figure at right.

An optional resilient boot is recommended to seal and protect the Universal Joint, while still permitting full motion. The boot is packed with water-resistant grease on-site, keeping out contaminants and maximizing service life. The boot is furnished with stainless steel retainer clamps. Grease is supplied by customer.



**UNIVERSAL JOINT** shown with optional EPDM grease boot assembly

for attaching to stem

Universal Joints\*

Includes two 5/16" x 2" coil spring pins

Material	Trumbull Item No.	Weight
Carbon Steel	367-8352**	3.65 lbs.
T304 SS	367-8355**	3.70 lbs.
T316 SS	367-8356**	3.70 lbs.

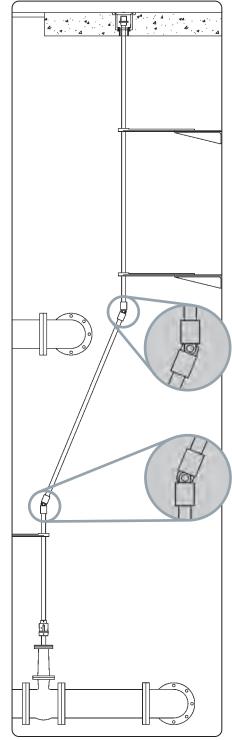
Bo	nt	As	se	m	hl	V
00	υı	ΠU	00			J

Includes two clamps

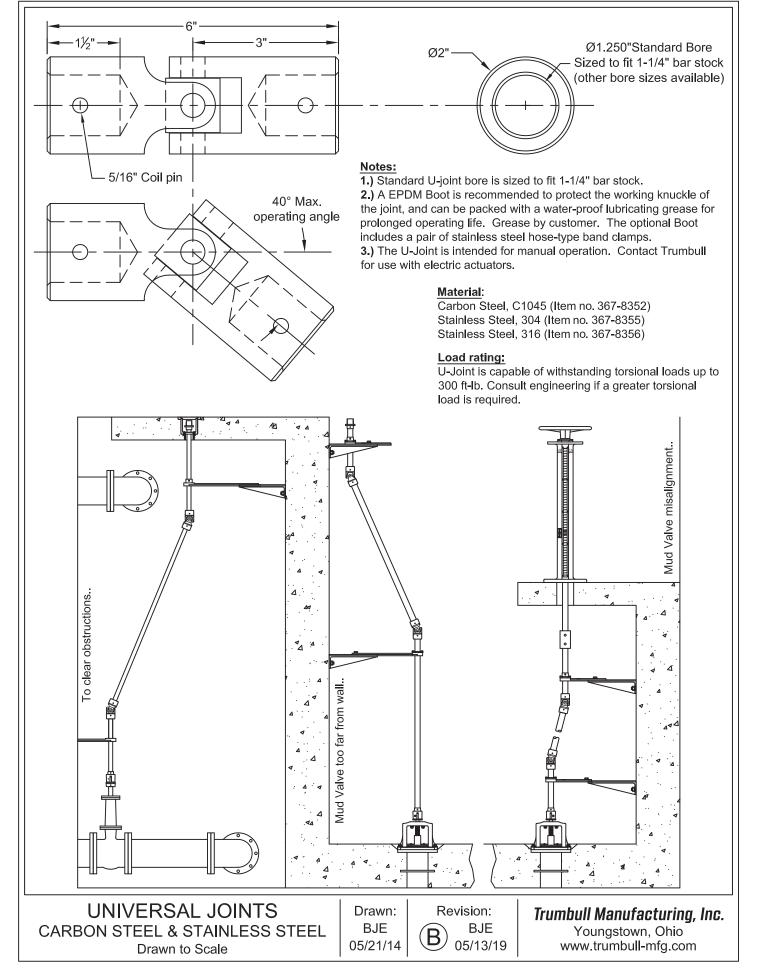
Trumbull Item No.	Weight
367-8360	0.20 lbs.

\* Recommended maximum torque is 300 ft-lb. For applications with higher torque requirements, consult Trumbull. Maximum operating angle is 40°.

\*\* Item numbers shown are bored to accept 1-1/4" rod. Other bore sizes are available upon request.



Typical installation





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Trumbull Miter Gears are designed to fulfill the following primary functions:

- To be used as an add-on component to Trumbull Floorstands or Pedestals.
- To be mounted directly to valves where a 90° change in the input shaft direction is required.
- For use as a stand-alone component in a valve operating assembly with rotating elements, such as extension stems, where the installed conditions require one or more 90° changes of direction.

Housings are cast 316 stainless steel or ductile iron 65-45-12 with a Tnemec N140-1211 two-part epoxy, NSF-61 certified exterior coating. The gears are case hardened steel; the gear shafts and fasteners are 316 stainless steel.

Trumbull Miter Gear Assemblies are provided standard with a recessed grease fitting for easy maintenance and Buna-N O-ring seals on each end adapter.

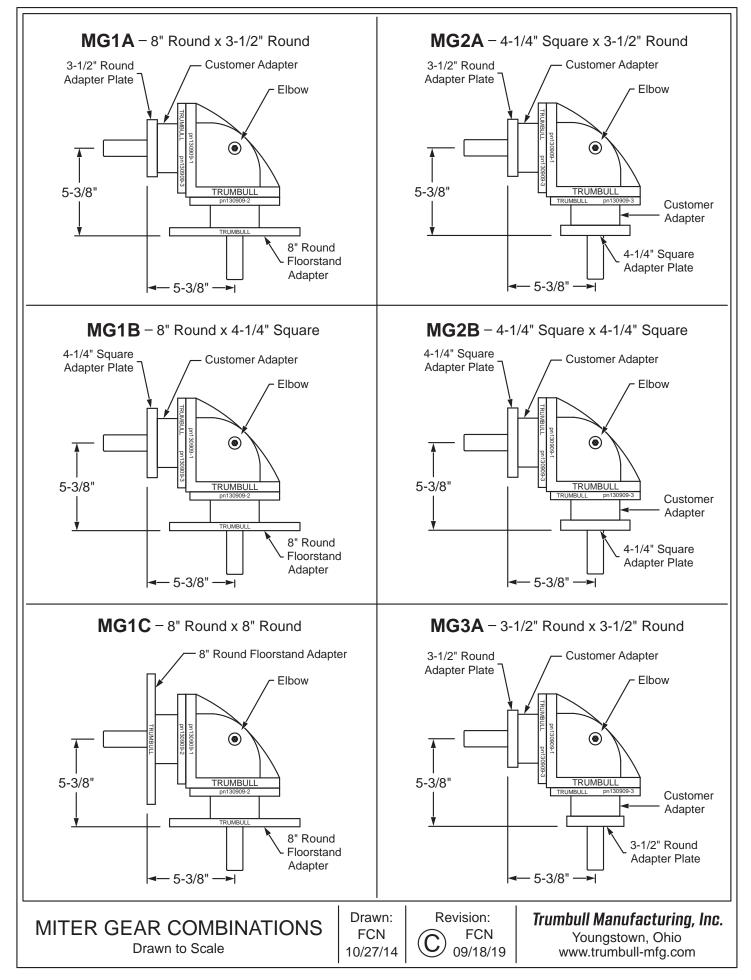
Gear Ratio = 1:1, Input/Output Shaft Diameter = 0.984".
See reverse side for drawings of model end options.

Trumbull Miter Gears have a recommended maximum working torque of 200 ft-lb (270 N-m). For applications with higher torque requirements, please consult Trumbull.

Shown with 8" Round

x 3-1/2" Round Adapters

End Configurations	Model No.	Weight	Typical Usage for Each End Adapter
8" Round x 3-1/2" Round	MG1A	39.00 lbs.	8" Round - mates to our Floorstands 3-1/2" Round - for use with handwheel or nut operators
8" Round x 4-1/4" Square	MG1B	42.00 lbs.	8" Round - mates to our Floorstands 4-1/4" Square - adapts for guide, bracket & motor mountings
8" Round x 8" Round	MG1C	46.00 lbs.	Both 8" Round ends mate to our Floorstands & other fabrications such as torque tubes
4-1/4" Square x 3-1/2" Round	MG2A	37.00 lbs.	4-1/4" Square - adapts for guide, bracket & motor mountings 3-1/2" Round - for use with handwheel or nut operators
4-1/4" Square x 4-1/4" Square	MG2B	35.00 lbs.	Both 4-1/4" Square ends easily adapt for guide, bracket & motor mountings
3-1/2" Round x 3-1/2" Round	MG3A	32.00 lbs.	Both 3-1/2" Round ends for use with either extension stem assemblies, handwheel, or nut operators





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Ext. Stem Top Nut

Floor Slah

Floor Box w/Pipe Nipple

Extension Stem

Adjustable Stem Guide

Ext. Stem Bottom Coupling

Mud Valve

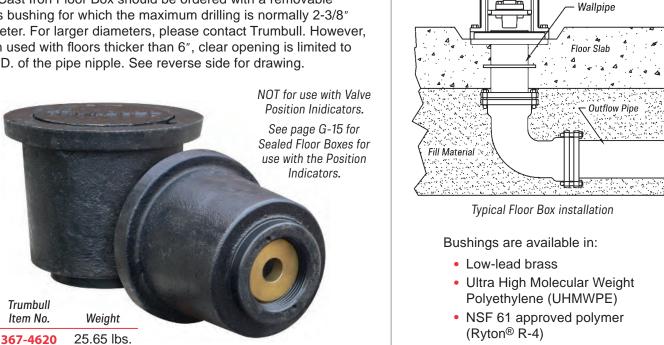
# **Cast Iron Floor Box**

Floor Boxes are designed for installation in concrete floors or slabs to provide support for extension stems for non-rising type valves, and to provide a cover over the operating nut on the extension stem.

The Trumbull Cast Iron Floor Box is designed for varying slab thicknesses. Overall length is 6", but the underside is tapped to accept 2-1/2" NPT steel pipe nipples for floors thicker than 6". When it's necessary to use a Floor Box with thicker floors, use a 2-1/2" pipe nipple, 1/2" longer than the increase required, as the threads on the underside of the Floor Box are 1/2" deep (see picture on lower right corner of page G-13). For example, for an 8" floor thickness use a 2-1/2" x 2-1/2" nipple. For a 10" floor, use a 2-1/2" x 4-1/2" nipple.

When a stem is required that is larger than the 2-1/2" pipe I.D., a 3" pipe nipple will be welded to the bottom of the Floor Box.

The Cast Iron Floor Box should be ordered with a removable brass bushing for which the maximum drilling is normally 2-3/8" diameter. For larger diameters, please contact Trumbull. However, when used with floors thicker than 6", clear opening is limited to the I.D. of the pipe nipple. See reverse side for drawing.



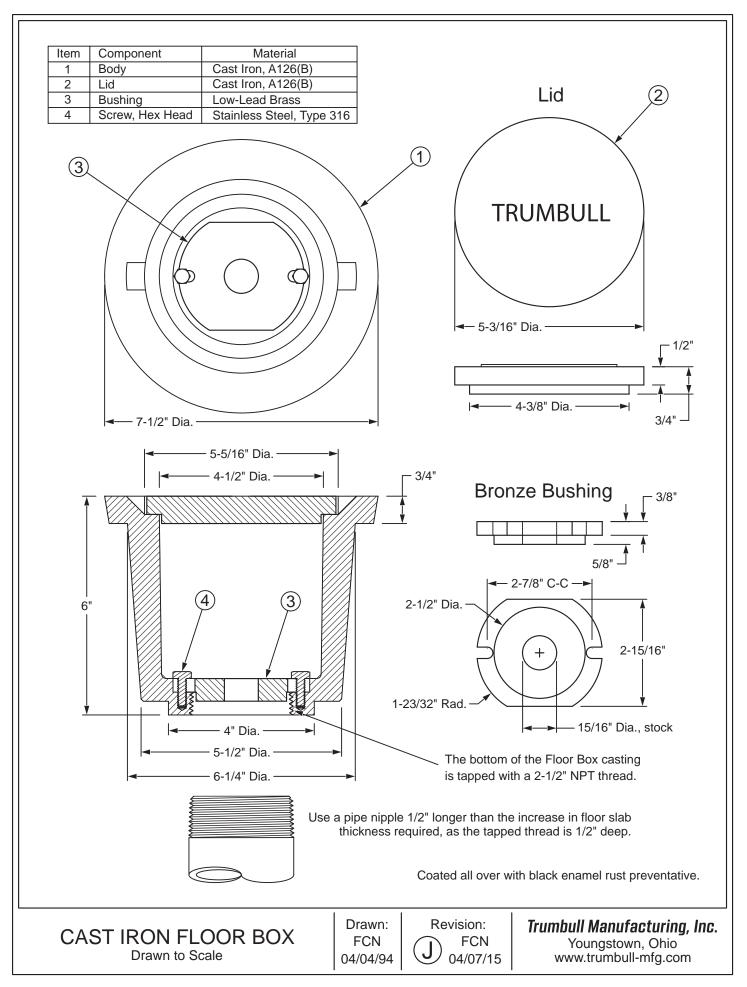
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7. Quantity required

- 2. Thickness of floor slab, or length of pipe nipple required
- 3. O.D. of stem being used, or desired bushing material & hole size
- 4. Custom options available such as stainless steel construction,

O-Ring lids, water-tight seals, tamper-resistant lids & anchoring collar

When Valve Position Indicator is installed in a floor, use the cast iron HOUSING ADAPTER illustrated on pages F-1 - F-8, or the SEALED FLOOR BOXES shown on pages G-13 - G-16.





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# 6" Sealed Floor Boxes

Available in Cast Carbon Steel and Cast Stainless Steel



Trumbull Sealed Floor Boxes are ideal to prevent fluids or vapors from penetrating the floor slab from either direction. Top side is sealed by a Buna-N O-ring, and bottom side can be sealed by use of optional packing gland. Overall length is 6", but the underside is tapped to accept 2-1/2" NPT steel pipe nipples. When it's necessary to convert a Floor Box to thicker floors, use a 2-1/2" pipe nipple, 1/2" longer than the increase required, as the threads on the underside of the Floor Box are 1/2" deep.

NOT for use with Valve Position Inidicators.

See page G-15 for Sealed Floor Boxes for use with the Position Indicators.



Tapped 2-1/2" threads also permit threading 2-1/2" pipe into underside of Floor Box, to provide an external casing for a smaller internal extension stem.

#### Floor Boxes

Material	Trumbull Item No.	Weight
Carbon Steel*	367-4623	24.20 lbs.
316 Stainless Steel	367-4624	23.50 lbs.

\* Carbon steel models are EDP coated.

#### **Optional Accessories** Δı

vailable as spec	ial order
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Description	Weight
Packing Gland	2.10 lbs.
Brass Bushing	1.75 lbs.



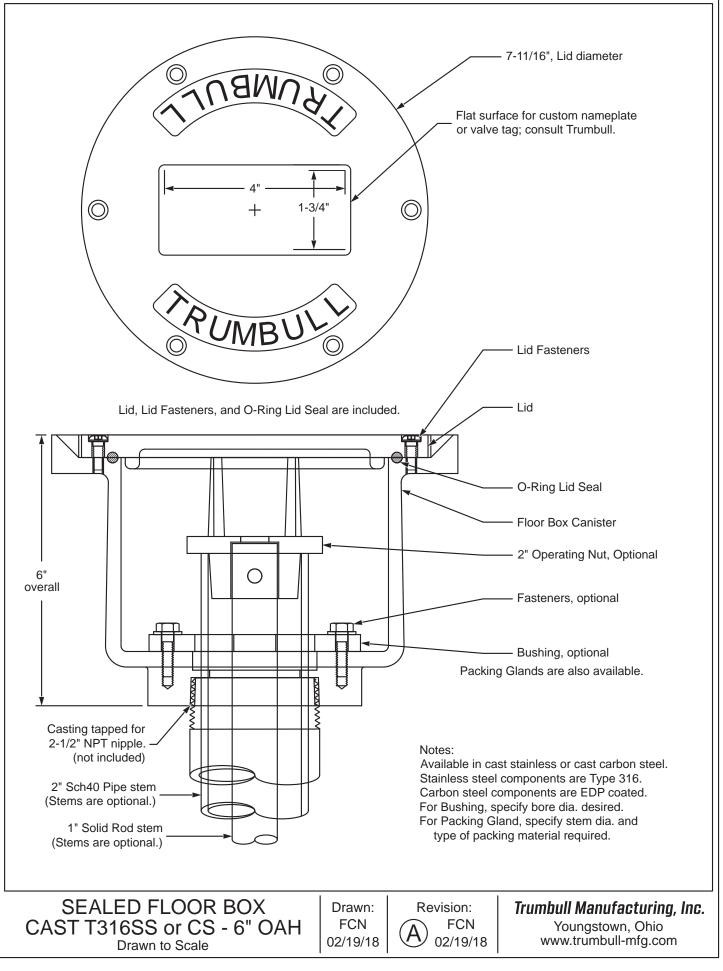








Pipe Nipple to Extend Length





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# 11-1/8" Sealed Floor Boxes

Available in Cast Carbon Steel and Cast Stainless Steel

#### SOCKET HEAD CAP SCREWS

furnished standard (tamper-resistant fasteners and installation tools also available)

#### **BUNA-N O-RING**

Seals Floor Box at top of floor; furnished standard, other materials available upon request

**OVERALL HEIGHT** 11-1/8" with lid

#### **Optional Accessories** Available as special order

Floor Boxes are ideal to prevent fluids and vapors from penetrating the floor slab from either direction. Top side is sealed by a Buna-N O-ring, and bottom side can be sealed by use of optional packing gland. Overall length is 11-1/8", but the underside is tapped to accept 2-1/2" NPT steel pipe nipples for floors thicker than 11". When it's necessary to extend a Floor Box for thicker floors, use a 2-1/2" pipe nipple, 1/2" longer than the increase required, as the threads on the underside of the Floor Box are 1/2" deep.

> Tapped 2-1/2" threads also permit threading 2-1/2" pipe into underside of Floor Box, to provide an external casing for a smaller internal extension stem.

### Flnnr Rnxes

**Trumbull Sealed** 

Material	Trumbull Item No.	Weight
Cast Carbon Steel*	367-4622	31.05 lbs.
Cast 316 Stainless Steel	367-4621	33.45 lbs.

\* Carbon steel models are EDP coated.

**PACKING GLAND** with stainless steel follower seals bottom of Floor Box



**BRASS BUSHING** aligns extension stem when bottom seal is not utilized

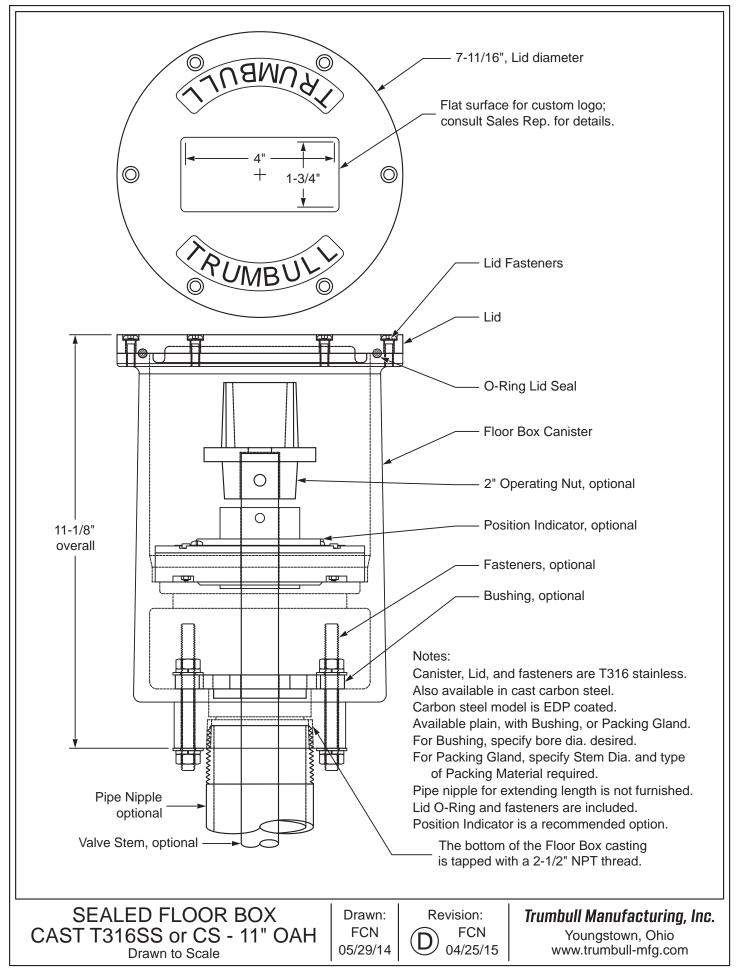
#### **POSITION INDICATOR**

can be used with either brass bushing or packing gland, see Pages F-7 and F-8 for Trumbull Valve Position Indicator installation in floors.



Description	Weight
SS Packing Gland	2.10 lbs.
Brass Bushing	1.75 lbs.

See Page G-13 for other custom options.





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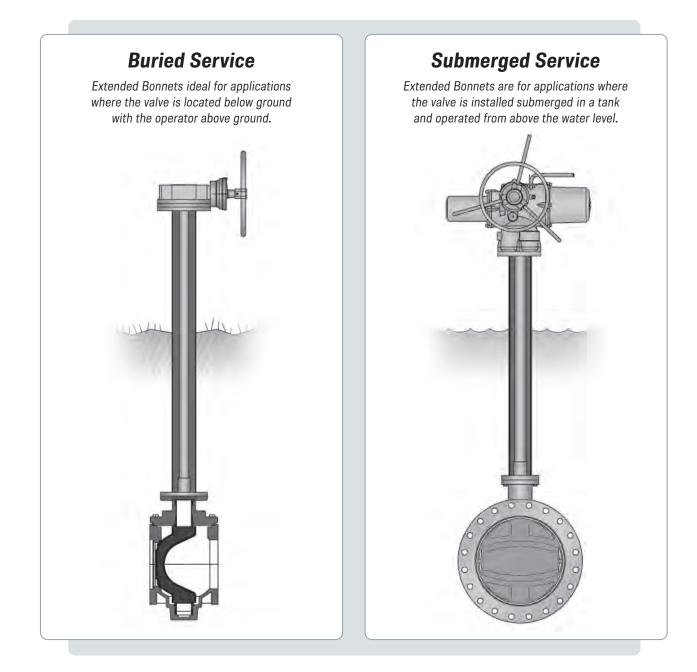
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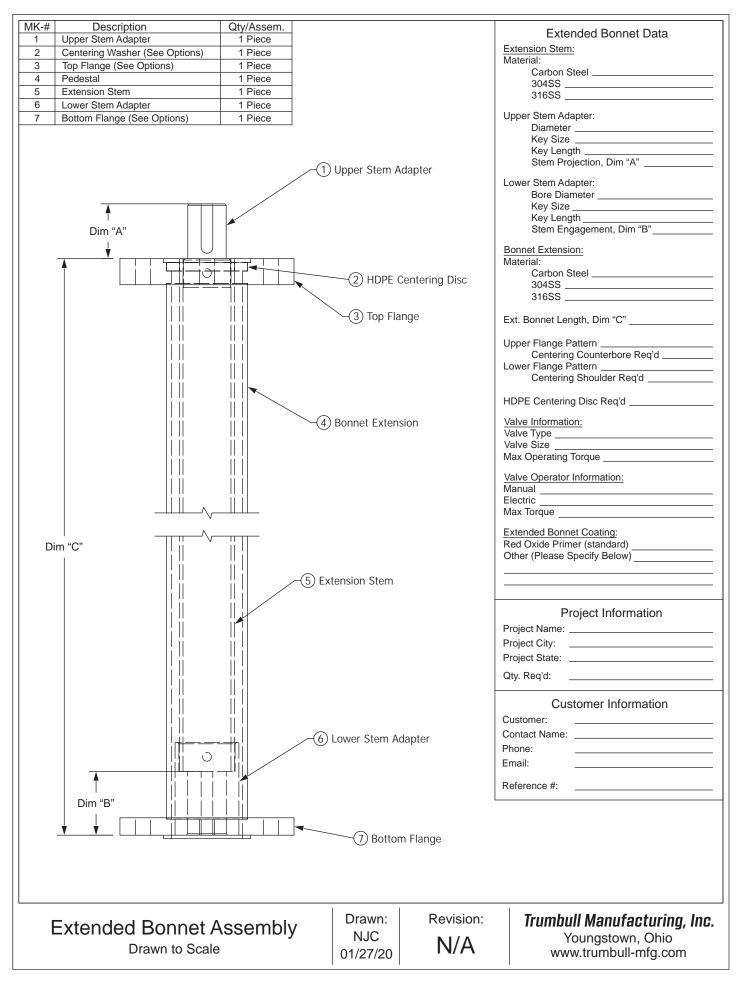
# Extended Bonnets

Extended Bonnets are typically provided on valves when there is a need to move the valve operator a set distance away from the valve body. Buried and submerged service installations are the most common Municipal applications.

An Extended Bonnet consists of an outer flanged pipe which connects the valve body to the valve operator housing, and an inner stem extension that connects the valve stem and operator drive.

See page G-18 for quoting information.







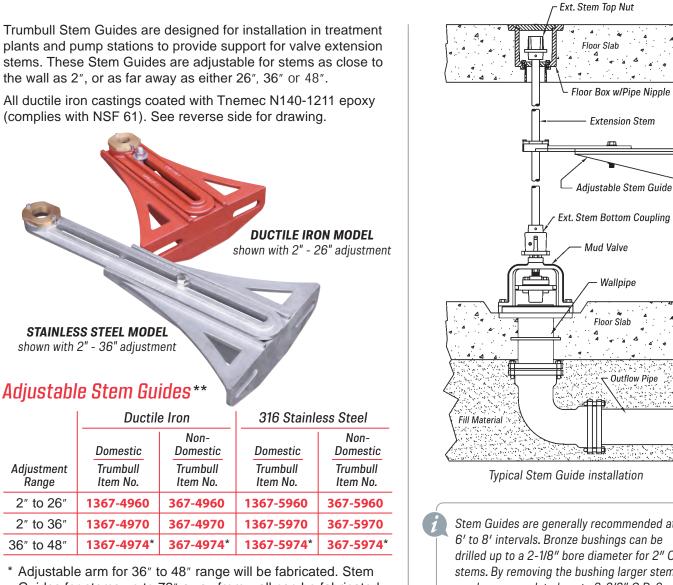
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# **Adjustable Stem Guides**

Available in Ductile Iron and Stainless Steel

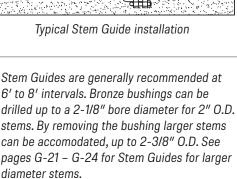


Guides for stems up to 72" away from wall can be fabricated from either carbon steel or stainless steel, please inquire.

\*\* For product weights, see drawing on Page G-20.

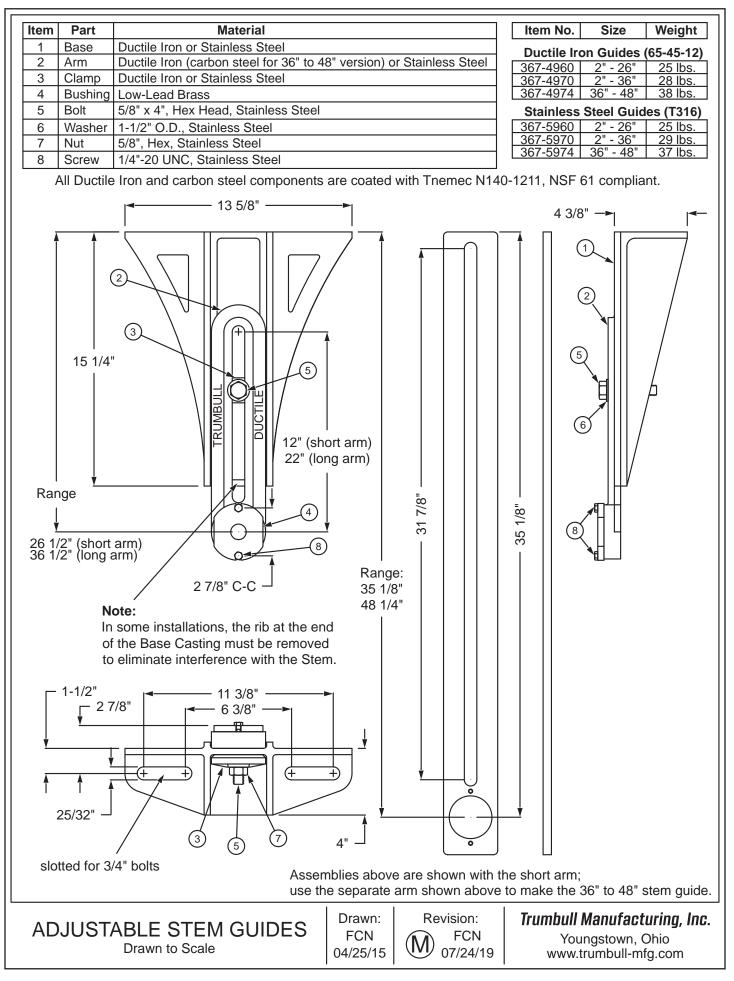
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- 7. Quantity required
- 2. Provide the Trumbull item number for the model you require (shown above)
- 3. O.D. of stem being used, or desired bushing material (see note on right) & hole size



Bushings are available in:

- Low-lead brass
- Ultra High Molecular Weight Polyethylene (UHMWPE)
- NSF 61 approved polymer (Ryton<sup>®</sup> R-4)



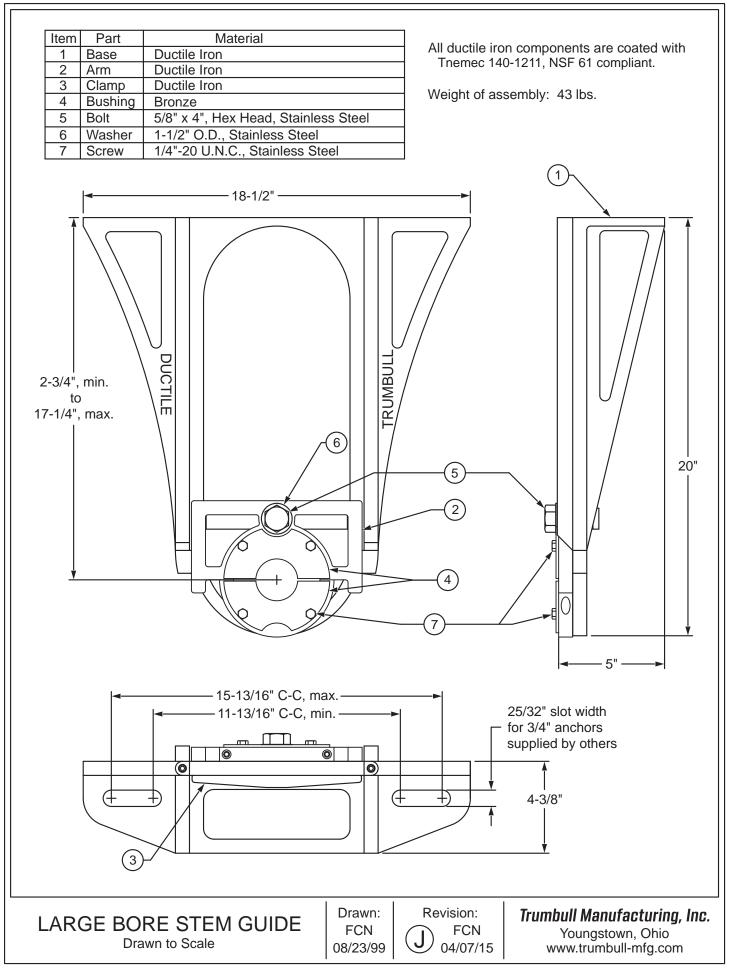


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### Larger Diameter Adjustable Stem Guides Removable End Cap Design

Trumbull Larger Diameter Stem Guides are designed for installation in treatment plants and pump stations to provide Floorstand support for valve extension stems. They accommodate larger stem diameters, expanding the bore capacity up to 4". Coated with Tnemec N140-1211 epoxy (complies with NSF 61). See reverse side for drawing. Stem Guides are generally recommended at 6' to 8' intervals. Wall Bracket for Floorstand Floorstand Stem & Connector **END CAP DESIGN** SPLIT BUSHINGS provides a safety restraint for simplify the installation large or unwieldy stems during of larger diameter installation or maintenance extension stems Larger Diameter Adjustable Stem Guide Large Diameter Ext. Stem **USE 3/4" ANCHORS** for mounting to wall, on centers from Typical installation 11-3/4" to 15-3/4", supplied by others 7. Quantity required 2. Trumbull item number Trumbull For Stem 3. O.D. of stem being used, Item No. Adjustment Range Diameters Weight or desired bushing 367-6960 2-3/4" to 17-1/4" \* 2" to 4" 38.65 lbs. material & hole size \* Adjustment range dependent on stem diameter

Stem Guides for 4" to 6-1/2" stem diameters, as well as stainless steel models without end caps are shown on pages G-23 and G-24.





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### Larger Diameter Adjustable Stem Guides Wall Bracket Design

Trumbull Larger Diameter Stem Guides are designed for installation in treatment plants and pump stations to provide support for valve extension stems. They accommodate larger Floorstand stem diameters, expanding the bore capacity up to 6-1/2". All ductile iron castings coated with Tnemec N140-1211 epoxy (complies with NSF 61). See reverse side for drawing. Stem Guides are generally recommended at 6' to 8' intervals. Wall Bracket for Floorstand SPLIT BUSHINGS simplifly the installation Floorstand Stem & Connector of larger diameter extension stems Larger Diameter Adjustable Stem Guide Large Diameter Ext. Stem **Ductile Iron** 

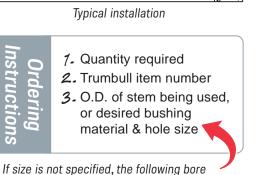
	Trumbull Item No.	Adjustment Range	For Stem Diameters	Weight
3	67-2454	4" to 18" *	4" to 6-1/2"	38.65 lbs.

### 316 Stainless Steel

Trumbull Item No.	Adjustment Range	For Stem Diameters	Weight
367-2463	4" to 18" *	2" to 4"	38.50 lbs.
367-2464	4" to 18" *	4" to 6-1/2"	41.50 lbs.

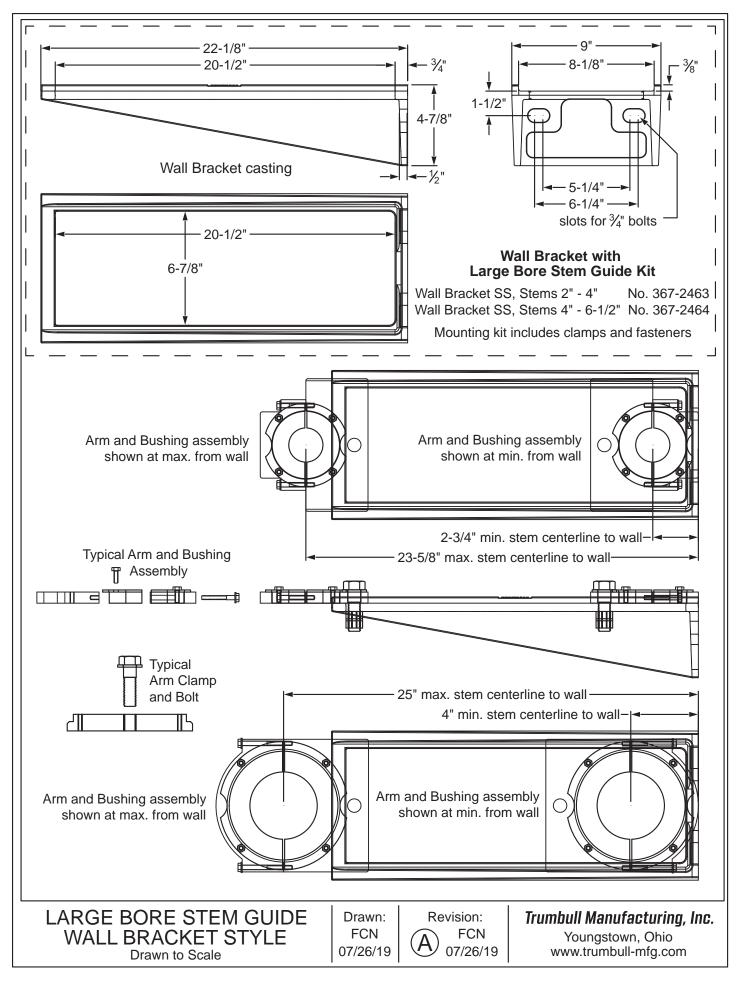
\* Adjustment range dependent on stem diameter

Stem Guides with 2-3/4" to 17-1/4" adjustment range and removable end cap design are shown on pages G-21 and G-22.



If size is not specified, the following bore diameter bushings are supplied:

- 2-1/8" for item 367-2463
- 4-1/8" for items 367-2454 and 367-2464





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# Wall Brackets

Designed to Accommodate a Variety of Different Applications

Trumbull Wall Brackets are used in conjunction with several of our other products such as Miter Gears, Valve Position Indicators, Pedestals, Floorstands and others. Cast from either ductile iron or 316 stainless steel. All ductile iron castings are coated with Tnemec N140-1211 epoxy (complies with NSF 61). Sold as kits with parts and hardware included to accommodate several other products, as shown below. Custom fabricated wall brackets also available upon request.



### Miter Gear Applications

Kit includes Wall Bracket, Miter Gear MG1A, (2) clamps and hardware. Miter Gears shown on pages G-9 – G-10. Concrete anchors not included.

Trumbull Item No.	Material	Adjustment Range (stem to wall)	Weight
367-2452	Ductile Iron	4-1/2" to 17-1/2"	[varies]
367-2462	316 Stainless	4-1/2" to 17-1/2"	[varies]



US Patent No. 9,347,583 (See page F-9 for detailed illustration)

Kit includes Wall Bracket, Position Indicator Housing, (2) clamps and hardware. The Position Indicator is sold separately, shown on pages F-9 – F-10. Concrete anchors not included.

Trumbull Item No.	Material	Adjustment Range (stem to wall)	Weight
367-2450	Ductile Iron	3-1/2" to 18"	[varies]
367-2460	316 Stainless	3-1/2" to 18"	[varies]

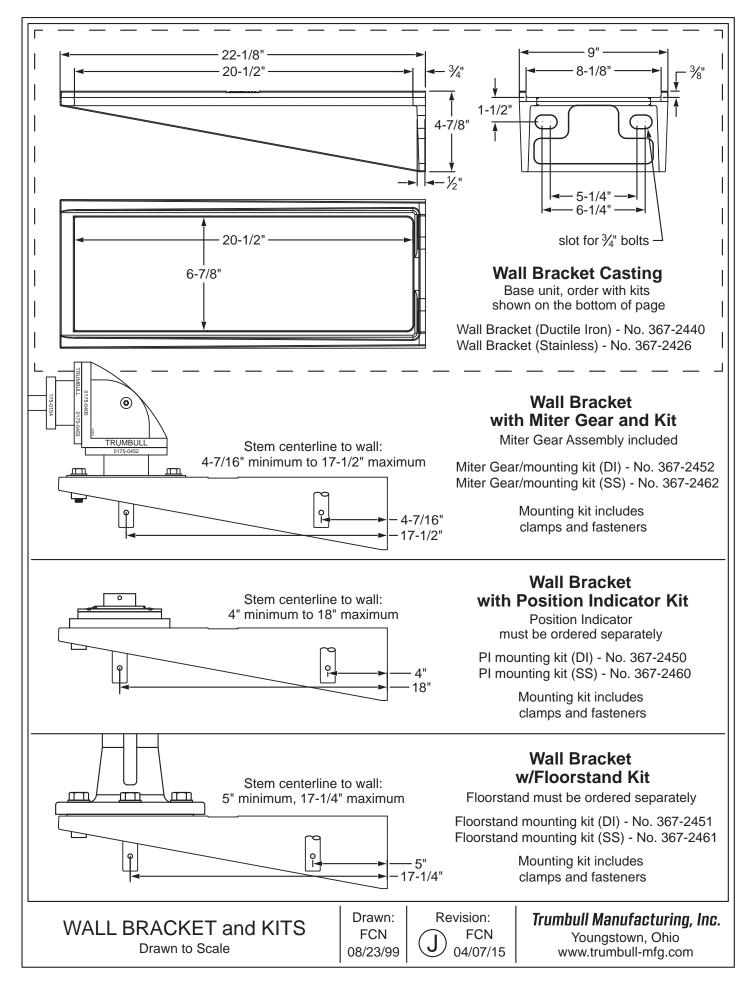
### Floorstand / Pedestal Applications

Kit includes Wall Bracket, Mounting Plate, (2) clamps and hardware. The Floorstands and Pedestals are sold separately, shown on pages G-44 – G-52. Concrete anchors not included.

Trumbull Item No.	Material	Adjustment Range (stem to wall)	Weight
367-2451	Ductile Iron	4-7/8" to 17-1/8"	[varies]
367-2461	316 Stainless	4-7/8" to 17-1/8"	[varies]

Wall Brackets are also used as a Larger Diameter Stem Guides, as shown on pages G-23 and G-24.







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# Cast Iron Mud Valves

Certified to NSF-61 and NSF-372 in USA and Canada

Trumbull Mud Valves are designed primarily for use in settling tanks of water and wastewater treatment plants. Their intended use is to drain tanks for maintenance or cleaning. They are for low pressure applications only; consult Trumbull for special requirements.

Mud Valves are furnished with a 2" square operating nut; however, they can be supplied with optional extension stem or handwheel (see page G-5).

This valve series uses bronze seats in the body and gate (also available with resilient seat). The cast iron body assembly features manganese bronze stems and guides for use in submerged installations. The fasteners are furnished in stainless steel to prevent corrosion from years of submerged service.

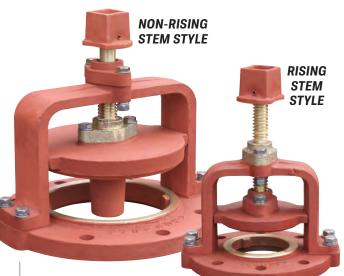
Nuts, bolts and gaskets for mounting to floor pipe are NOT furnished but can be ordered separately. Ductile iron components are coated with Tnemec N140-1211 epoxy, per NSF 61.

See pages G-28 and G-29 for drawings.

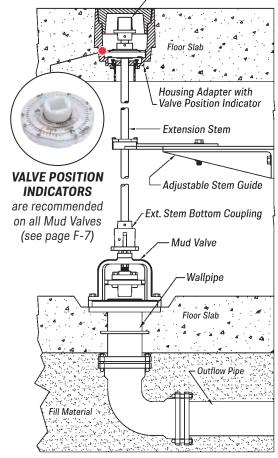
The flange drilling is according to ANSI 125<sup>#</sup> STD. on all sizes; however, one hole under each leg of the yoke is not available for fastening to the mating flange.

	Non-Rising Stem		Rising	y Stem
Size	Trumbull Item No.	Weight	Trumbull Item No.	Weight
3″	367-1414	26.00 lbs.	367-1421	25.00 lbs.
4″	367-1415	31.00 lbs.	367-1420	30.00 lbs.
6″	367-1416	47.00 lbs.	367-1423	46.00 lbs.
8″	367-1418	76.00 lbs.	367-1425	73.00 lbs.
10″	367-1428	95.00 lbs.	367-1494	90.00 lbs.
12″	367-1430	130.00 lbs.	367-1495	130.00 lbs.
14″	367-1431	142.00 lbs.		
16″	367-1432	169.00 lbs.		<b>-</b>
18″	367-1433	256.00 lbs.	Consult Trumbull for availability.	
20″	367-1434	281.00 lbs.		
24″	367-1435	450.00 lbs.		

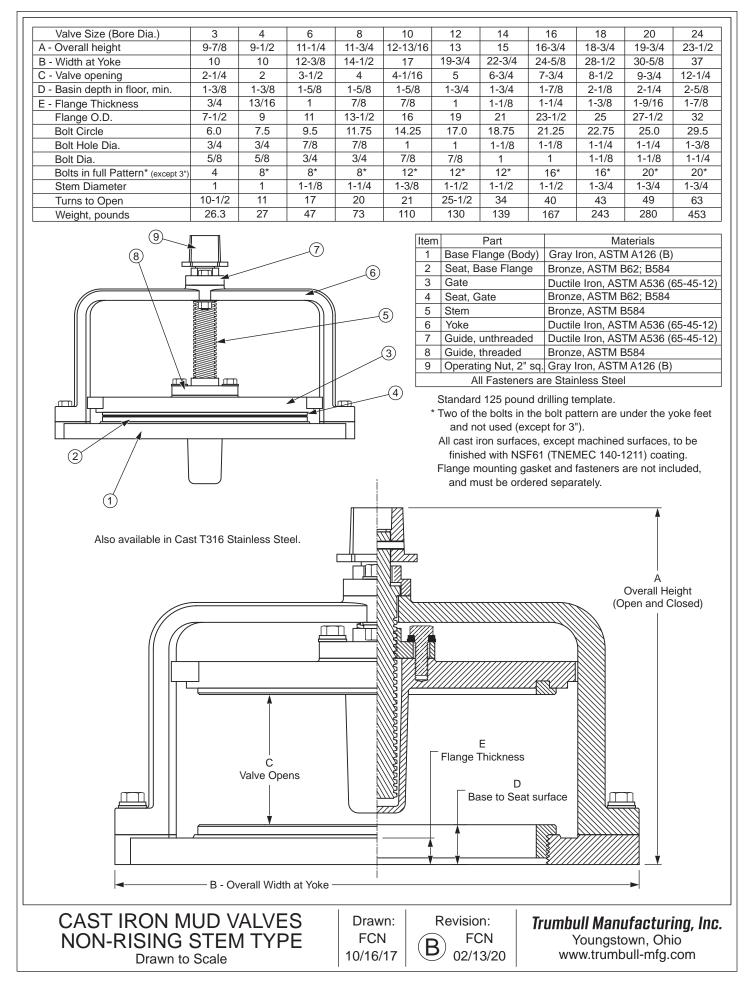
See page G-34 for installation options.

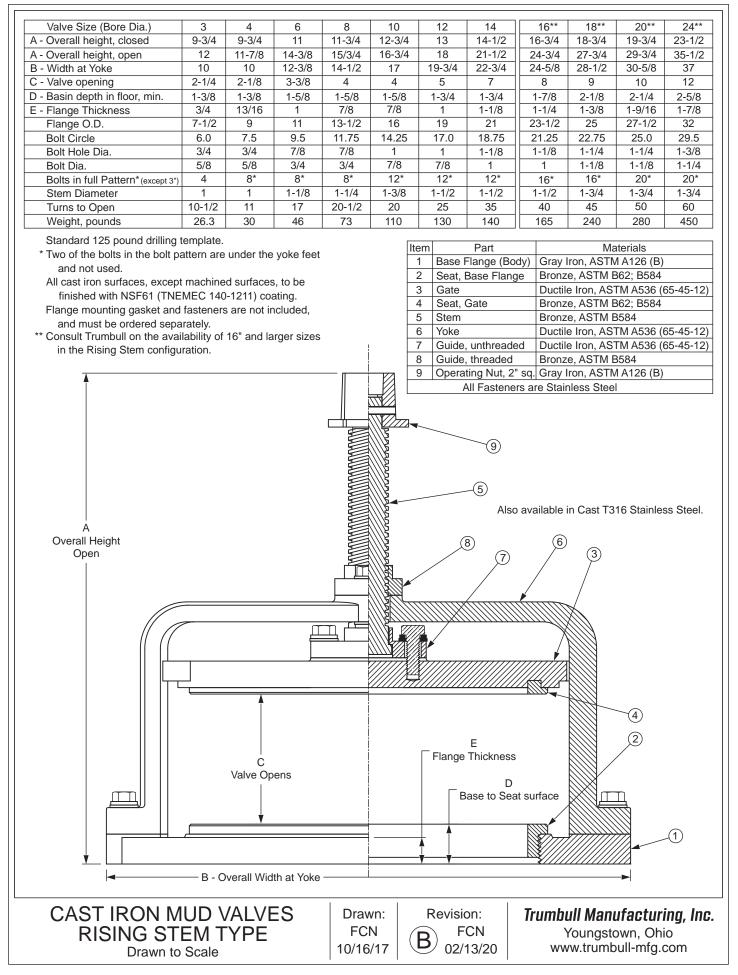


– Ext. Stem Top Nut



Typical Mud Valve Installation



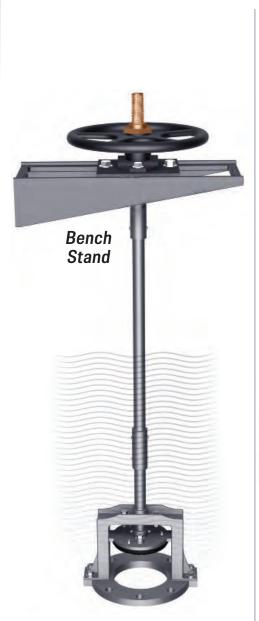




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## **OTHER ADAPTATIONS**

# For Trumbull Mud Valves



**Sliding Stem Mud Valve** Available when desirable to keep operating threads out of the water.



Stainless Steel Mud Valve Extended Bonnet with Pneumatic Cylinder For remote operation.

Floorstand with Limit Switches For remote indication of valve position.



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# Cast 316 Stainless Steel Mud Valves

Heavy-Duty Design – Certified to NSF-61 and NSF-372 in USA and Canada

Trumbull Mud Valves are designed primarily for use in settling tanks of water and wastewater treatment plants. Their intended use is to drain tanks for maintenance or cleaning. They are for low pressure applications only; consult Trumbull for special requirements.

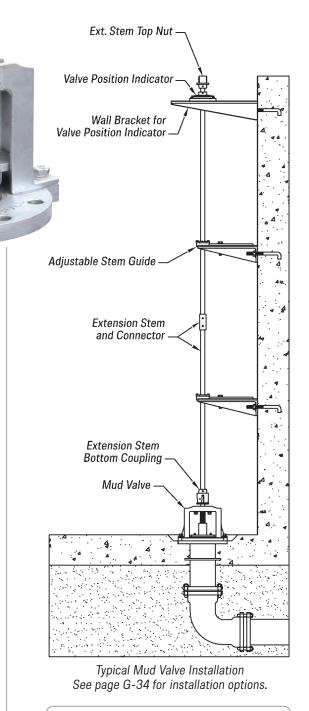
For applications requiring more corrosion protection than cast iron, the yoke, flange, guides and gate of these Mud Valves are cast from Type 316 stainless steel. The one-piece, Type 316 stem has a permanently bonded coating to protect against galling for a

lifetime of maintenance-free operation. Cast components eliminate corrosion problems frequently caused when stainless steel is welded. Castings are passivated after machining, per ASTM A-967. Heavy-duty design incorporates generous wall thicknesses and stem diameters for maximum strength and corrosion protection. Seat is SBR rubber for positive shutoff. Mechanically retained seat is fieldreplaceable. Fasteners are Type 316 stainless. See pages G-32 and G-33 for drawings.

Nuts, bolts and gaskets for mounting to floor pipe are NOT furnished but can be ordered separately.

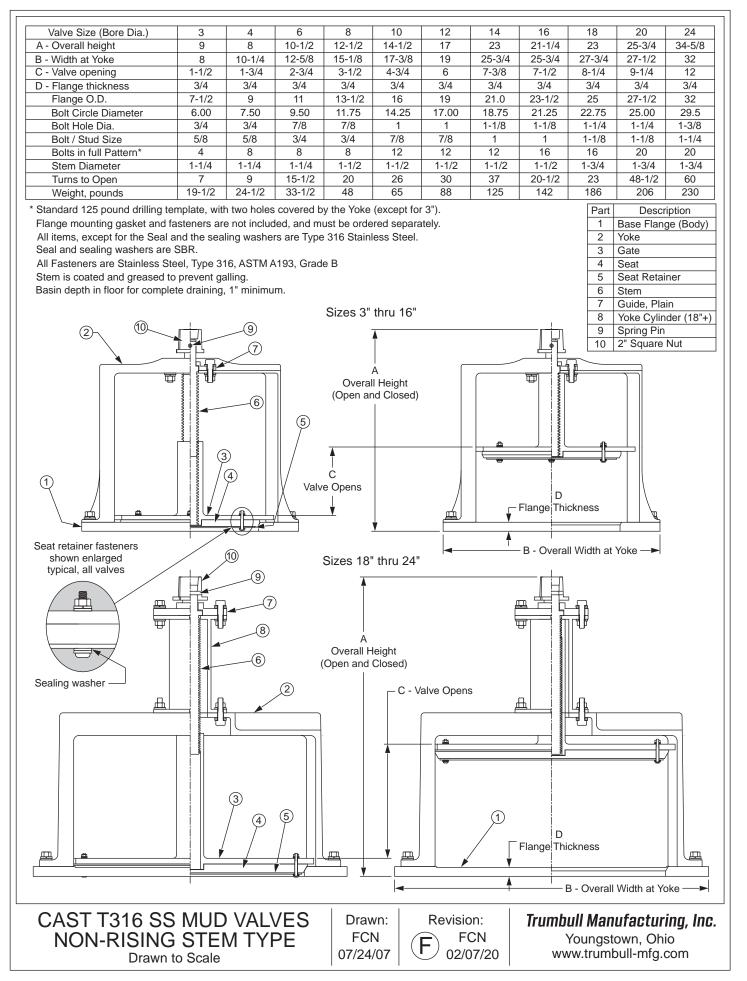
	Non-Rising Stem		Rising Stem		
	Domestic	Non- Domestic	Domestic	Non- Domestic	
Size	Trumbull Item No.	Trumbull Item No.	Trumbull Item No.	Trumbull Item No.	
3″	1367-1349	367-1453	1367-1369*	367-1469	
4″	1367-1350	367-1454	1367-1370*	367-1470	
6″	1367-1351	367-1455	1367-1371*	367-1472 367-1474 367-1480	
8″	1367-1352	367-1456	1367-1372*		
10″	1367-1353	367-1457	1367-1373*		
12″	1367-1354	367-1458	1367-1374*	367-1481	
14″	1367-1355*	367-1459			
16″	1367-1356*	367-1460	**		
18″	1367-1357*	367-1461	* Consult T for availa		
20″	1367-1358*	367-1462	101 avalla	onity.	
24″	1367-1359*	367-1463			

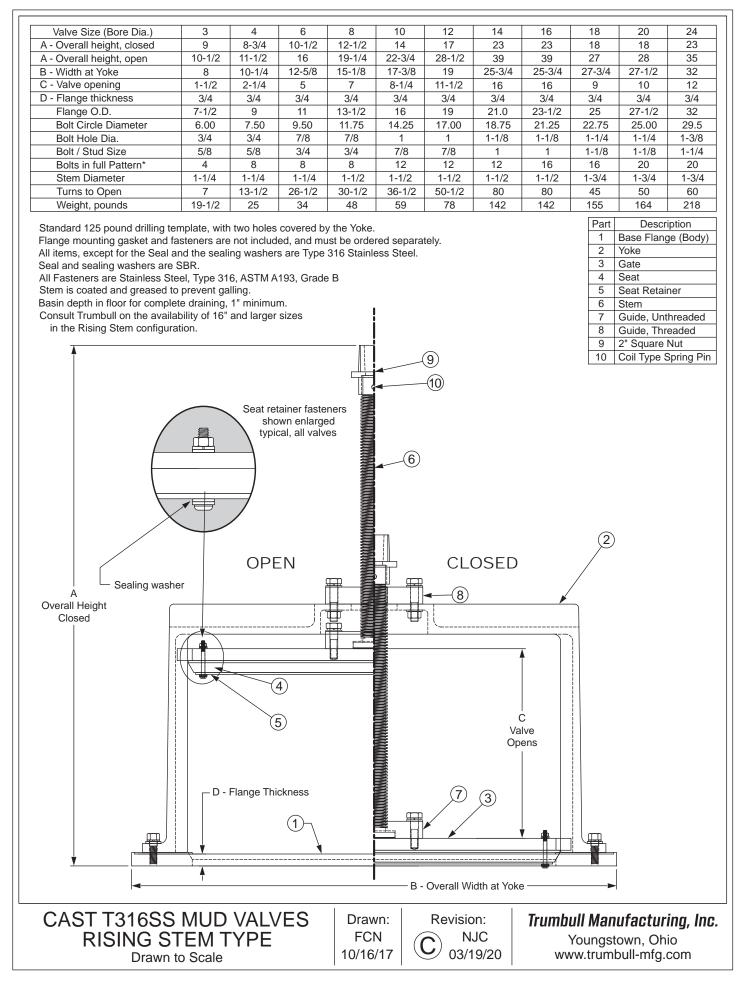
See pages G-32 and G-33 for weights.



Valve Position Indicators recommended on all Mud Valves (see page F-9).









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## **Optional Mud Valve Installations**

Standard options shown on right

Mud Valve: Cast iron or cast 316 stainless steel Stem Guide: Ductile iron or cast 316 stainless steel Floorstand: Ductile iron (30" or 36") or cast 316 SS (36") Pedestal: Ductile iron or cast 316 SS Extension Stem: Carbon steel or stainless steel Wall Bracket: Ductile iron or cast 316 stainless steel Floor Box: Sealed or unsealed, cast iron or cast SS

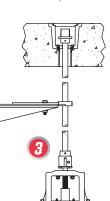


Stem Guide

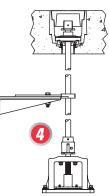
with Handwheel or

2" square nut

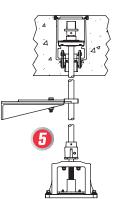
Wall Bracket with Position Indicator



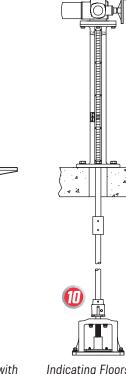
Floor Box w/out Position Indicator



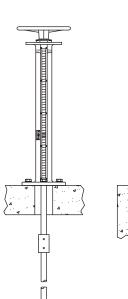
Floor Box with Position Indicator

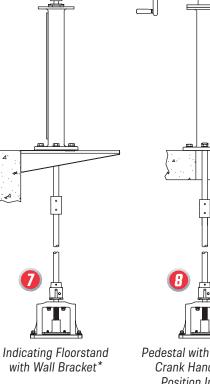


Cast Sealed Floor Box with Position Indicator



Indicating Floorstand with Actuator





Pedestal with Miter Gear, Crank Handwheel & Position Indicator (57T or 275T only)

\* Indicating slot faces operator and is not visible in installations 7 and 9.

Indicating Floorstand with Wall Bracket, Miter Gear & Horizontal Extension Stem\*

Indicating

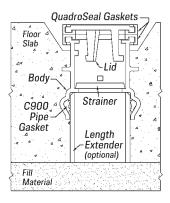
Floorstand



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# Floor-Type Hydrostatic Tank Pressure Relief Valves QuadroSeal<sup>TM</sup> Gasket Design - Available in Ductile Iron and Type 316 Stainless Steel

Trumbull Floor-Type Tank Pressure Relief Valves are cast in the bottom of tanks in treatment plants to keep empty tanks from floating from an excess of groundwater beneath them. When this condition occurs, the hydrostatic pressure will open the cover of the valve allowing water to enter, thereby equalizing pressure inside and outside



the tank and preventing it from floating. They will start to open at less than one foot of head. Lugs in the body prevent the cover or strainer from becoming separated from the body of the valve due to flow. Both can be removed when necessary, however, by turning to the right or left.

Both Floor-Type and Wall-Type Valves use two Neoprene seating surfaces so if particles of grit lodge on them, the head of liquid in the tank will force the valve closed. These valves are for low seating or unseating pressure applications only. Design uses C900 pipe gaskets in bell to securely retain PVC pipe to valve.

### Floor-Type Pressure Relief Valves\*

	Ductile Iron**		316 Stainless Steel	
Size	Domestic Trumbull Item No.	Non- Domestic Trumbull Item No.	Domestic Trumbull Item No.	Non- Domestic Trumbull Item No.
4″	1367-1558	367-1558	1367-1540	367-1540
6″	1367-1559	367-1559	1367-1544	367-1544

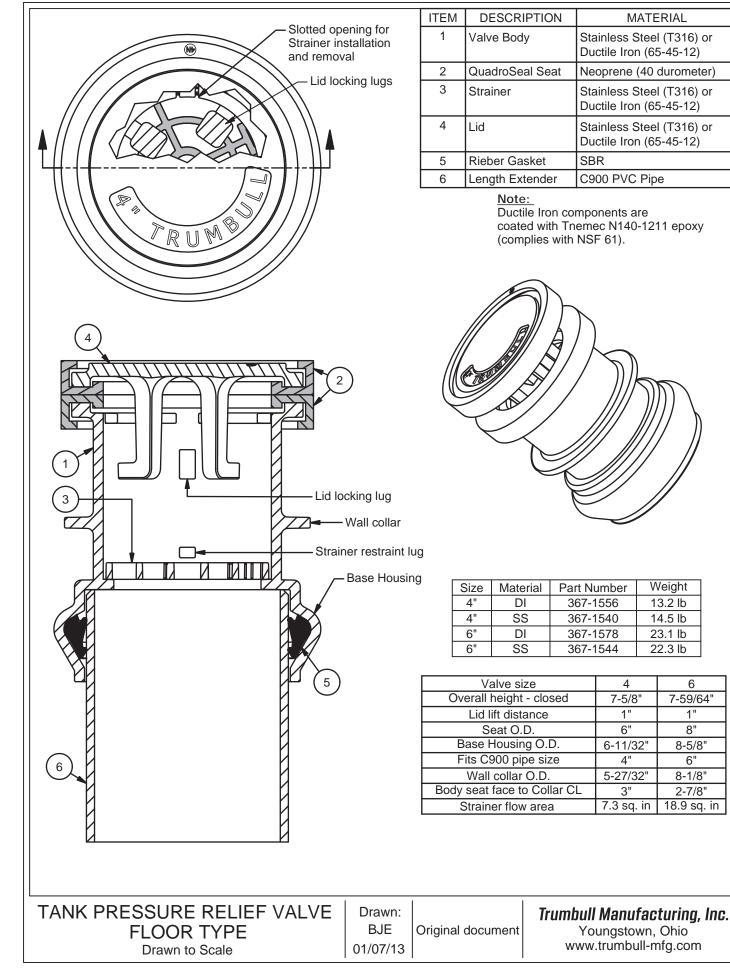
\* For product weights, see drawing on Page G-36.

\*\* Furnished with NSF-61, 2 part epoxy coating.

Floor-Type valves are cast in 4" and 6" sizes, in overall lengths of approx. 7-3/4". The lengths can be extended by inserting C900 PVC pipe into the underside of the valve. The PVC extensions can be furnished and inserted by Trumbull, to customer's exact length requirements, or in the field with customer supplied PVC pipe.



Wall-Type Pressure Relief Valves are shown on pages G-37 and G-38.



MATERIAL

Weight

13.2 lb

14.5 lb

23.1 lb

22.3 lb

6

7-59/64"

1"

8"

8-5/8"

6"

8-1/8"

2-7/8"

18.9 sq. in

4

1"

6"

4"

3"



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# Wall-Type Hydrostatic Tank Pressure Relief Valves

QuadroSeal™ Gasket Design – Available in Ductile Iron and Type 316 Stainless Steel

Trumbull Wall-Type Tank Pressure Relief Valves are designed for installation in side walls of tanks of treatment plants. They are intended for low unseating pressure applications and will start to open at less than one foot of head to relieve groundwater pressure from the exterior of tank wall. For low seating applications, contact Trumbull.

Trumbull Relief Valves use two Neoprene seating surfaces so if particles of grit lodge on them, the head of liquid in the tank will force the valve closed.

The valve has a flanged body for use with a wall pipe. The flange drilling is according to ANSI 125# STD on both sizes. The Wall-Type valve uses a removable stainless steel hinge pin and two stainless cotter pins.

#### Wall-Type Pressure Relief Valves\*

	Ductile	Iron**	316 Stainless Steel	
Size	Domestic Trumbull Item No.	Non- Domestic Trumbull Item No.	Domestic Trumbull Item No.	Non- Domestic Trumbull Item No.
4″	1367-1572	367-1572	1367-1560	367-1560
6″	1367-1573	367-1573	1367-1564	367-1564

\* For product weights, see drawing on Page G-38.

\*\* Furnished with NSF-61, 2 part epoxy coating.

### Wallpipes

Wallpipes are 18" long (overall) with a collar 6" from the face of the flange; they can be furnished cut-to-length to meet your requirements. The flange is tapped for studs to allow the flange on the Wallpipe to be set flush with the wall. No flange accessories will be furnished unless ordered separately. Wallpipe & Wall PRV sold separately. In order for the Wall-Type Valve to operate properly, it must be installed so that the bolt holes straddle the centerline.

	Ductile Iron		316 Stainless Steel
Size	Trumbull Item No.	Weight	When stainless valves are used, Wallpipes are furnished
4″	367-1000	33.50 lbs.	in ductile iron or fabricated
6″	367-1002	68.50 lbs.	from stainless pipe.

Floor-Type Pressure Relief Valves are shown on pages G-35 & G-36.

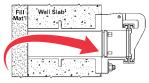


### 

Unique square design of QuadroSeal<sup>TM</sup> Gasket surrounds casting on 4 sides to prevent separation.

QuadroSeal<sup>TM</sup> design also prevents metal-to-metal contact that can cause seating surfaces of iron valves to corrode into a "frozen shut" position. See page G-39 for more information.

Easy access to strainer helps prevent blockage of flow that could lead to structural tank damage. Wallpipes are frequently provided by ductile pipe suppliers and don't have strainers. The accumulation of debris on seating surfaces can lead to leakage from the tank. To prevent that condition ... specify a valve with an internal strainer.



Strainer in Trumbull

valve is easily accessed

for maintenance

Strainer installation of other designs

#### Pressure Relief Valve, Wall Type

Flange drilling per ANSI 125#

**Clevis Pin Detail** 

Size	Flange	Bolt Circle	Bolt Hole	Seat O.D.	Bore
4"	9" x 7/16"	7-1/2"	3/4"	6"	4"
6"	11" x 1/2"	9-1/2"	7/8"	8"	6"

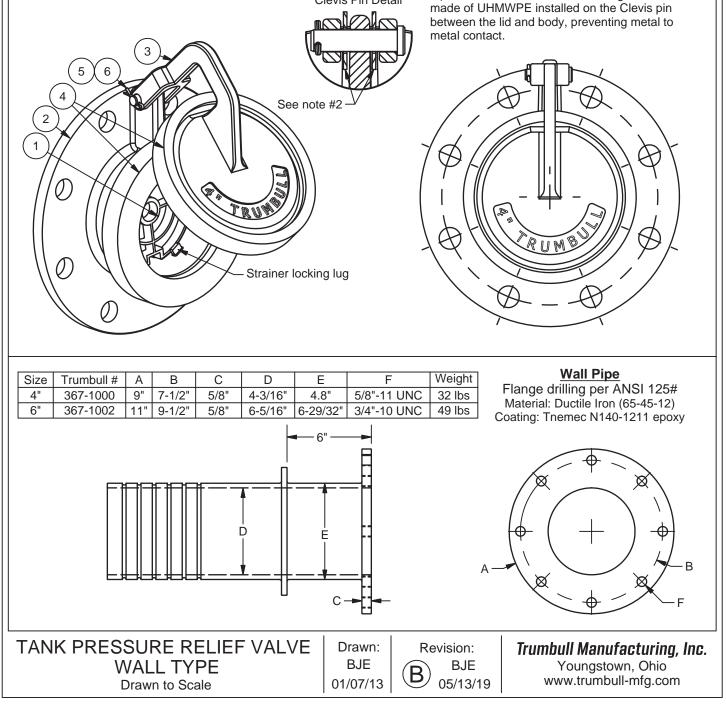
Item	Description	Material	
1	Strainer	Stainless Steel (T316) or Ductile Iron (65-45-12)	
2	Body	Stainless Steel (T316) or Ductile Iron (65-45-12)	
3	Lid Flap	Stainless Steel (T316) or Ductile Iron (65-45-12)	
4	QuadroSeal Seat	Neoprene (40 durometer)	
5	Clevis Pin	Stainless Steel	
6	Cotter Pin	Stainless Steel	

Size	Material	Part Number	Weight
4"	DI	367-1550	14.25 lb
4"	SS	367-1560	14.65 lb
6"	DI	367-1570	21.45 lb
6"	SS	367-1564	22.05 lb

#### Note:

1.) Ductile Iron components are coated with Tnemec N140-1211 epoxy (complies with NSF 61).

2.) Ductile Iron valves have Isolating washers





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# **O METAL-TO-METAL CONTACT** Pressure Relief Valves

#### UHMWPE Isolating Washers

Alternate Design Wall-Type

prevent metal-to-metal contact between lid and valve body on our ductile iron wall-type valves.

Pressure Relief Valve

(as removed from service)

#### Quadroseal Gaskets

Unique square design of Trumbull QuadroSeal Gasket surrounds casting on four sides to prevent separation.

QuadroSeal design also prevents metal-to-metal contact that can cause seating surfaces of iron valves to corrode into a "frozen shut" position.

### Trumbull Manufacturing™ Wall-Type Pressure Relief Valve



**RESULT:** 

Metal-to-metal contact is not possible between Trumbull seating surfaces!

gaskets

ADROSEAL

It's because of our



Valve after being pried open.



Inoperable valves cannot relieve groundwater pressure, leading to structural damage to tanks.

CONTACT



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## STRAINERS

## In Trumbull Hydrostatic Tank PRVs

Hello!

I'M A STRAINER USED IN WALL AND FLOOR-TYPE TANK PRESSURE RELIEF VALVES. YOU MAY NOT THINK ABOUT ME VERY MUCH, BUT I AM **REALLY IMPORTANT!** 

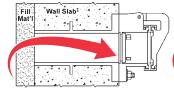
MY JOB IS TO KEEP ROCK OR GRAVEL FROM THE TANK EXTERIOR FROM INTERFERING WITH THE SEATING SURFACE. BUT YOU MUST **REMOVE AND CLEAN ME PERIODICALLY**. OTHERWISE, THE VALVE CAN GET PLUGGED UP AND THE GROUNDWATER WON'T BE ABLE TO FIND ITS WAY THROUGH THE VALVE INTO THE TANK. IF THAT HAPPENS, THE PRESSURE RELIEF VALVE CAN'T DO ITS JOB BY OPENING. THEN, THE HYDROSTATIC PRESSURE OF THE GROUNDWATER MIGHT DAMAGE THE TANK'S WALL OR CAUSE THE TANK TO FLOAT OUT OF ITS SETTING.

WHEN YOU INSTALL ME IN A WALL-TYPE VALVE, PLEASE PUT ME IN THE VALVE, NOT IN THE WALL PIPE. IF YOU PUT ME IN THE PIPE, SOMETIMES WORKERS CAN'T GET THEIR ARMS THROUGH THE VALVE AND HALFWAY INTO THE WALL PIPE. OCCASIONALLY, THEY HAVE TO REMOVE THE VALVE, JUST TO BE ABLE TO REACH ME!

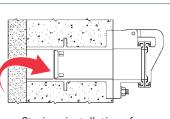
I WISH THE ENGINEERS THAT DESIGNED **EVERY PLANT** WOULD USE VALVES THAT ARE EASIER TO MAINTAIN. I **REALLY LIKE** FIELD REPLACEABLE GASKETS THAT SURROUND THE BODY AND COVER, PREVENTING SEPARATION FROM THE VALVE. PLUS, THOSE SOFT RESILIENT GASKETS ALLOW A BETTER SHUTOFF ON SAND, SILT AND FINE GRAVEL, COMPARED TO IRON OR BRONZE SEATS.

Easy access to strainer helps prevent blockage of flow that could lead to structural tank damage. Wallpipes are frequently provided by ductile pipe suppliers and don't have strainers.

The accumulation of debris on seating surfaces can lead to leakage from the tank. To prevent that condition ... specify a valve with an internal strainer!



Strainer in Trumbull valve is easily accessed for maintenance



Strainer installation of other designs



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# Telescoping Valves

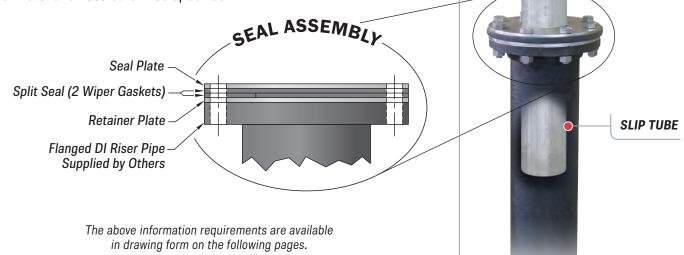
Trumbull Telescoping Valves are designed to regulate the level of fluids in containment structures such as holding chambers, tanks, ponds & lagoons. An example of an application might be to regulate the effluent level in a settling basin. Also known as "Sludge Draw-off Valves" or "Decanting Valves", the valve assembly consists of a lifting mechanism (operator), connecting stem and a slip (drain) tube which travels vertically inside a fixed vertical pipe. Utilizing the operator, the slip tube is raised or lowered to maintain the desired fluid level within the containment structure.

Trumbull offers Telescoping Valves in either Rising or Non-Rising Stem designs. A variety of operators are available such as, handwheel, rack & pinion, bevel gear and electric motor operators. The slip tubes are available in a variety of sizes and materials, the most common materials being 304 stainless steel and Sch 40 PVC. Other materials are available upon application or request. Slip tubes are typically supplied with V-notch, plain end or funnel tops. Scum baffles can also be added to the top of the slip tube, if requested.

Trumbull's seal assembly consists of a stainless steel retainer plate, a seal plate and two (2) Buna-N wiper gaskets. The assembly is designed so that the wiper gaskets can easily be replaced in the field without disassembling the Telescoping Valve. Additional seal elastomers available upon request.

Operator pedestals are available in 26" & 32" cast ductile iron Indicating Style, 32" cast ductile iron Non-Indicating Style and 32" cast stainless steel Indicating Style. Other custom-fabricated styles and materials are available upon request. Offset wall brackets are available in either cast ductile iron or cast 316 stainless steel.

Lifting bails are fabricated from 304 stainless steel material, and are mounted to the slip tubes with stainless steel fasteners. Threaded operating stems and extension stems are made from 304 stainless steel material unless otherwise specified.



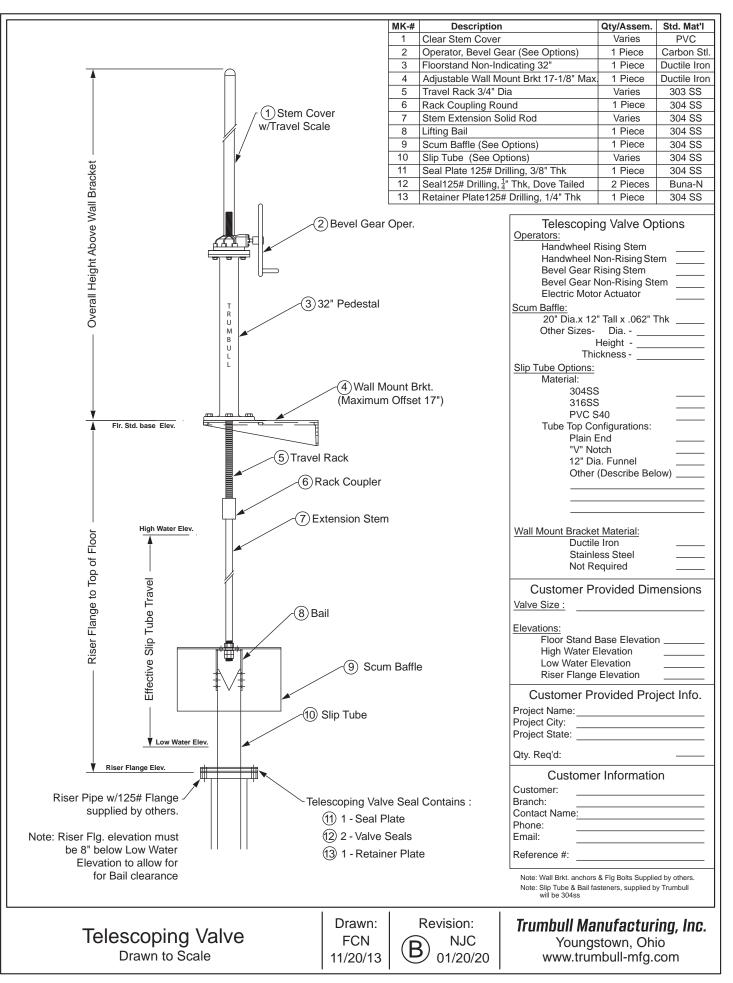
**OPERATOR** 

PEDESTAL

CONNECTING

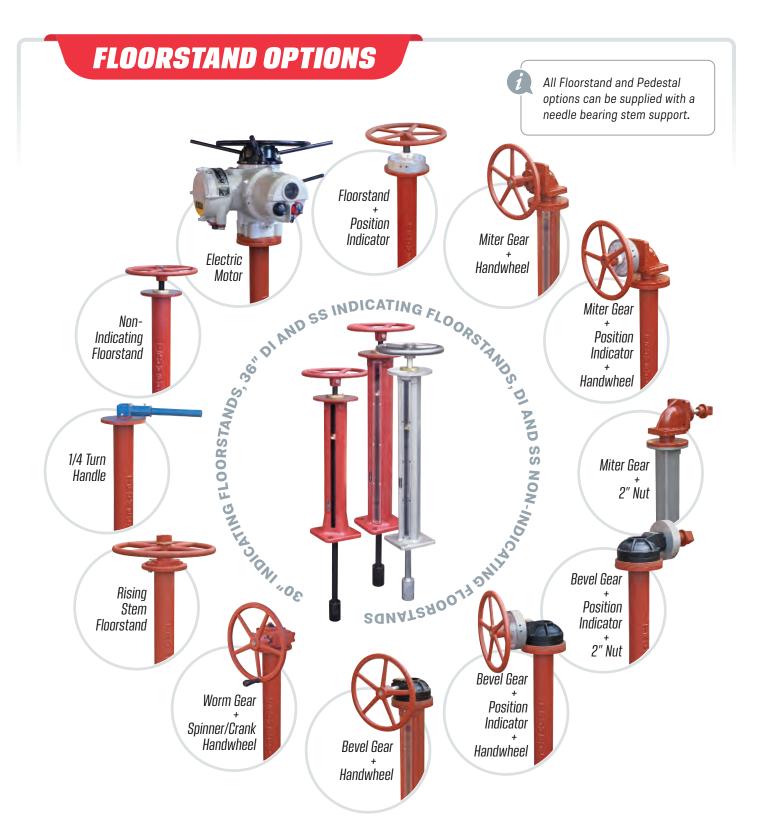
**STEM** 

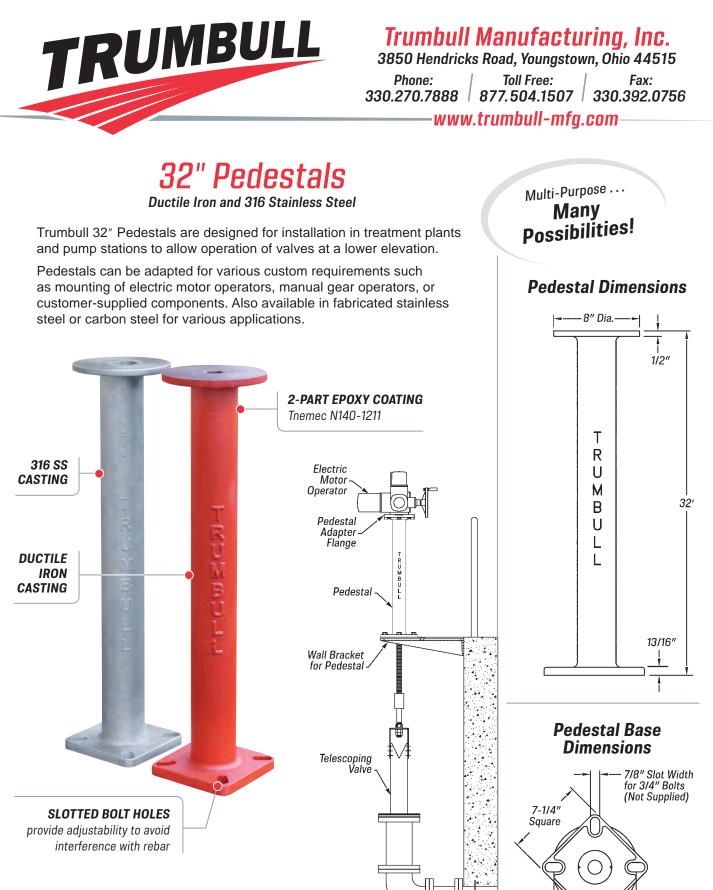
BAIL





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	Trumbull	
Model	Item No.	Weight
Ductile Iron	367-2417	43.45 lbs.
316 Stainless Steel	367-2427	42.10 lbs.
		12110 10

Typical installation

1

8-3/8" Max.

6-7/8" Min.



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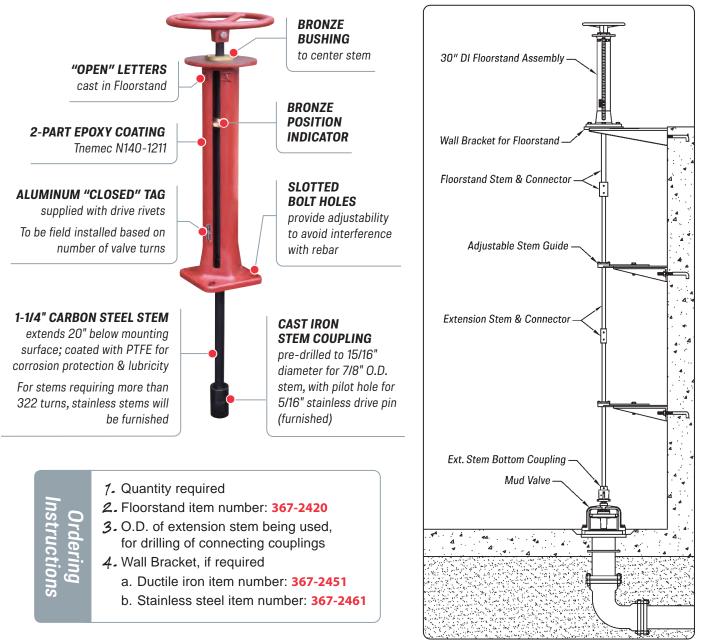
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 Toll Free:
 Fax:

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 877.504.1507
 330.392.0756

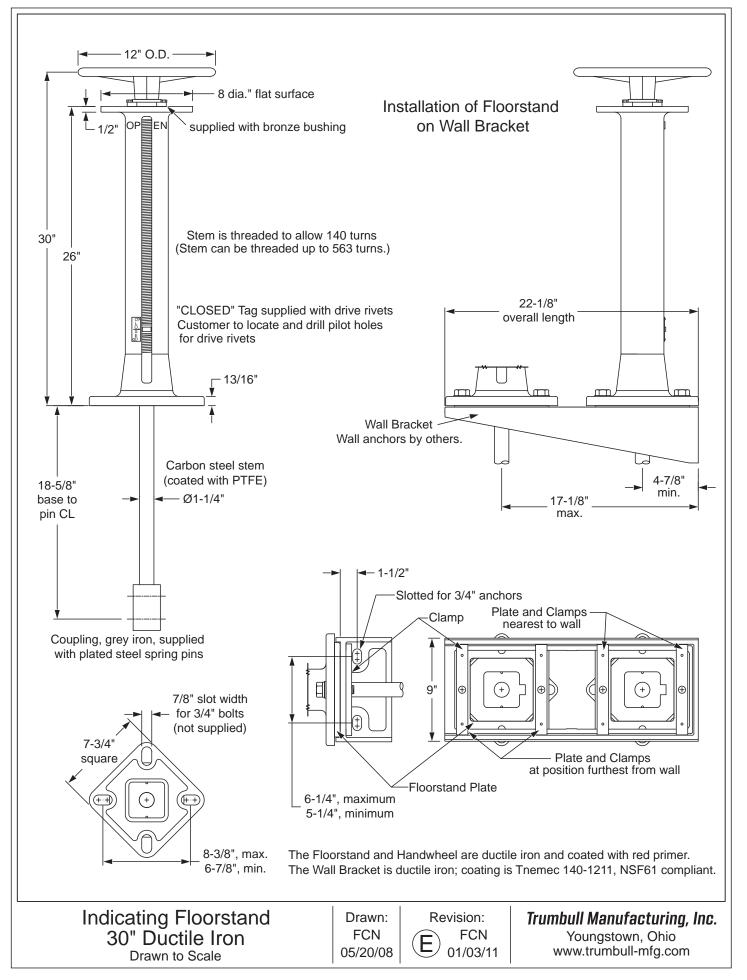
-www.trumbull-mfg.com-

# **30" Ductile Iron Indicating Floorstand**

Trumbull 30" Indicating Floorstands are designed for installation in treatment plants and pump stations to allow operation of valves at a lower elevation. Floorstand body is ductile iron for increased torque capacity. Set screw secures handwheel to stem. Flange can be machined to facilitate mounting of actuator, if required (also available with gear operators). Our standard Floorstand is shown below (see page G-34 for custom Floorstand options). Stocked for "open left" valves; also available for "open right" valves. Standard stem threading allows up to 140 turns; optional threading allows up to 563 turns. Stainless drive pin supplied with assembly.



Typical Floorstand installation





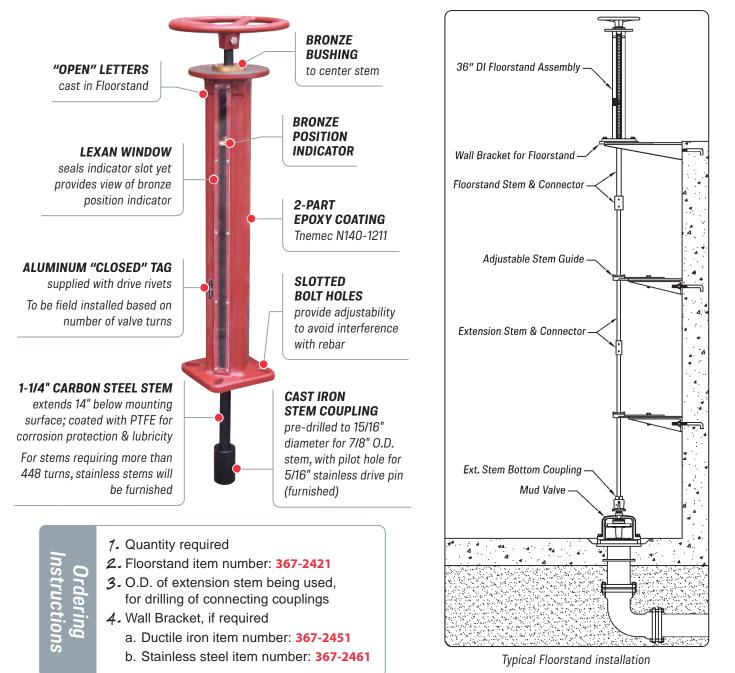
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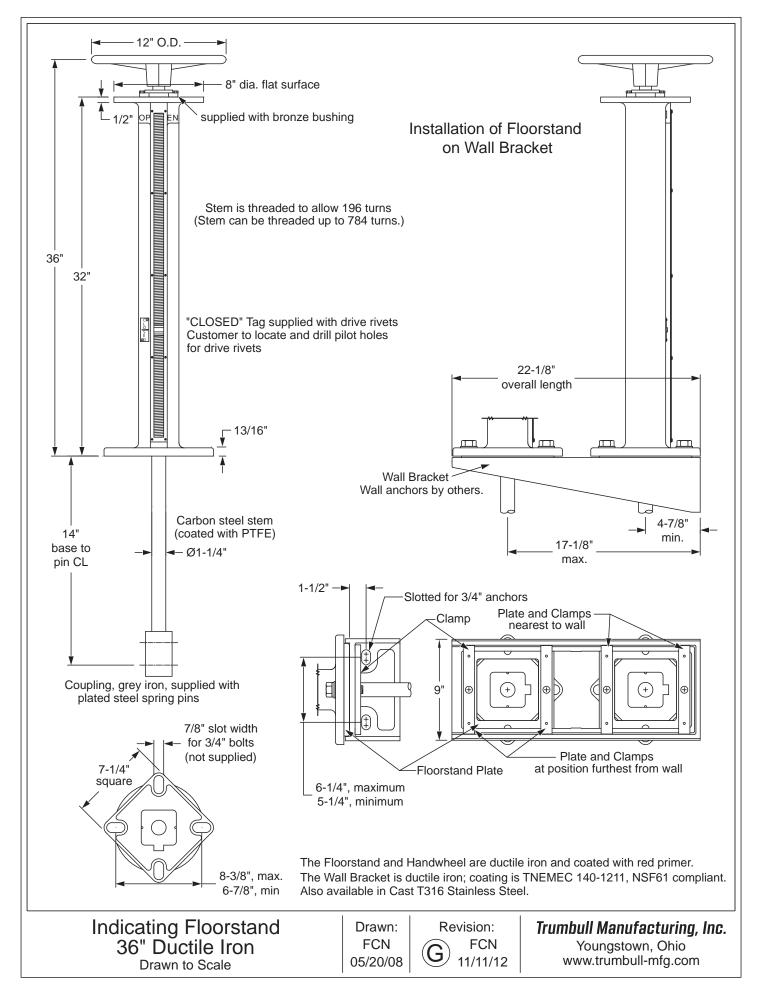
-www.trumbull-mfg.com

# **36" Ductile Iron Indicating Floorstand** Includes a Sealed Indicator Slot

Trumbull 36" Ductile Iron Indicating Floorstands are designed for installation in treatment plants and pump stations to allow operation of valves at a lower elevation. Set screw secures handwheel to stem. Flange can be machined to facilitate mounting of actuator, if required (also available with gear operators). Stocked for "open left" valves; also available for "open right" valves. Standard stem threading allows up to 196 turns; optional threading allows up to 784 turns. Stainless drive pin supplied with assembly. Also available in cast stainless steel (page G-51 & G-52). See page G-34 for custom Floorstand options.



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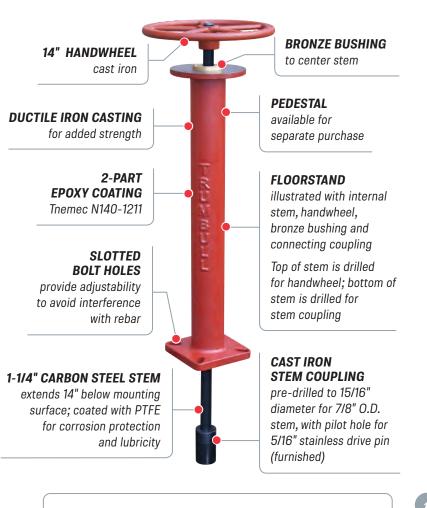


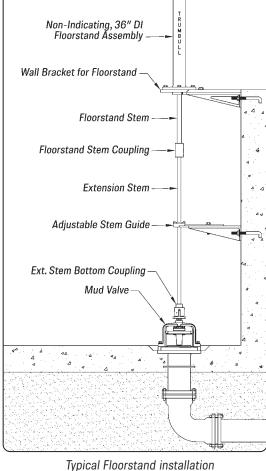
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# **36**" Ductile Iron Non-Indicating Floorstand

Trumbull 36" Ductile Iron Non-Indicating Floorstands are designed for installation in treatment plants and pump stations to allow operation of valves at a lower elevation.





Non-indicating Floorstands can be adapted for various custom requirements such as:

- Trumbull Valve Position Indicators, 57, 275 or 870 turns (mounted to top flange, with adapter)
- Adapter flange for actuator mounting
- Top flange drilled for customer-supplied actuator
- Gear operators

Also available in indicating styles in ductile iron (pages G-45 to G-48) and cast stainless steel (page G-51 to G-52). See page G-34 for custom Floorstand options.

**Ordering Instructions** 

7. Quantity required

2. Floorstand item number:

4. Wall Bracket, if required

367-2417 (pedestal only)

3. If internal stem is required, state:

b. Carbon or stainless steel stem

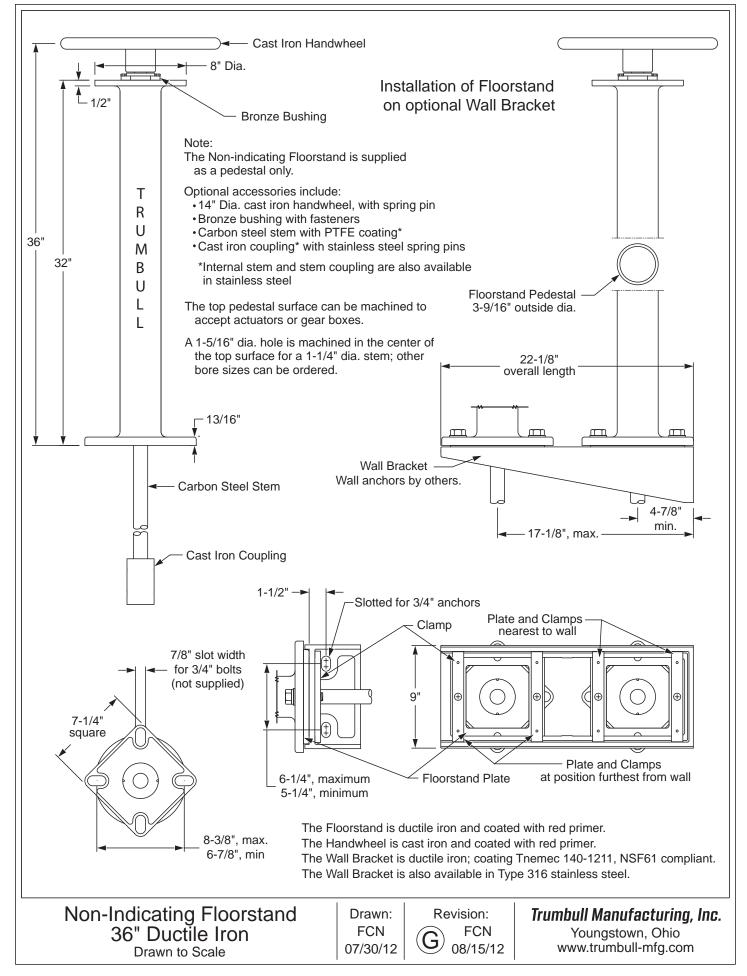
a. O.D. of extension stem being used,

a. Ductile iron item number: 367-2451

b. Stainless steel item number: 367-2461

for drilling of connecting couplings

367-2414 (pedestal, stem, handwheel & coupling)

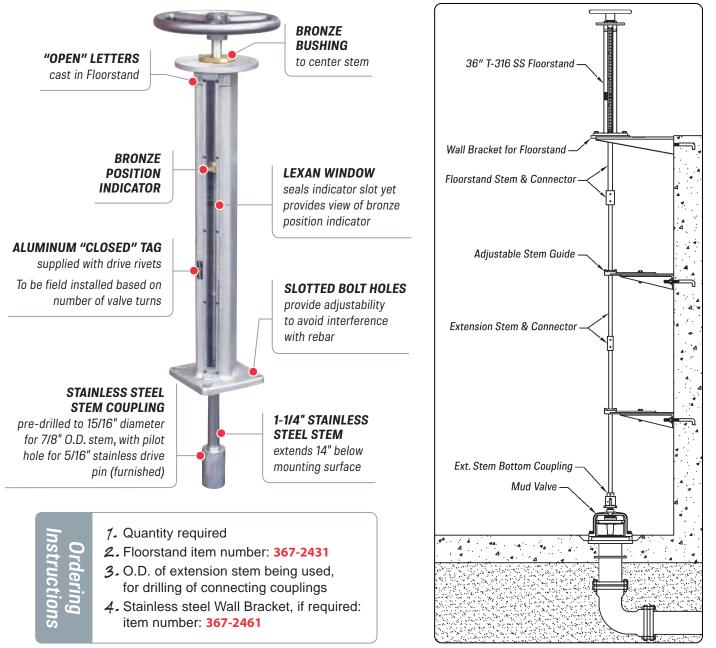




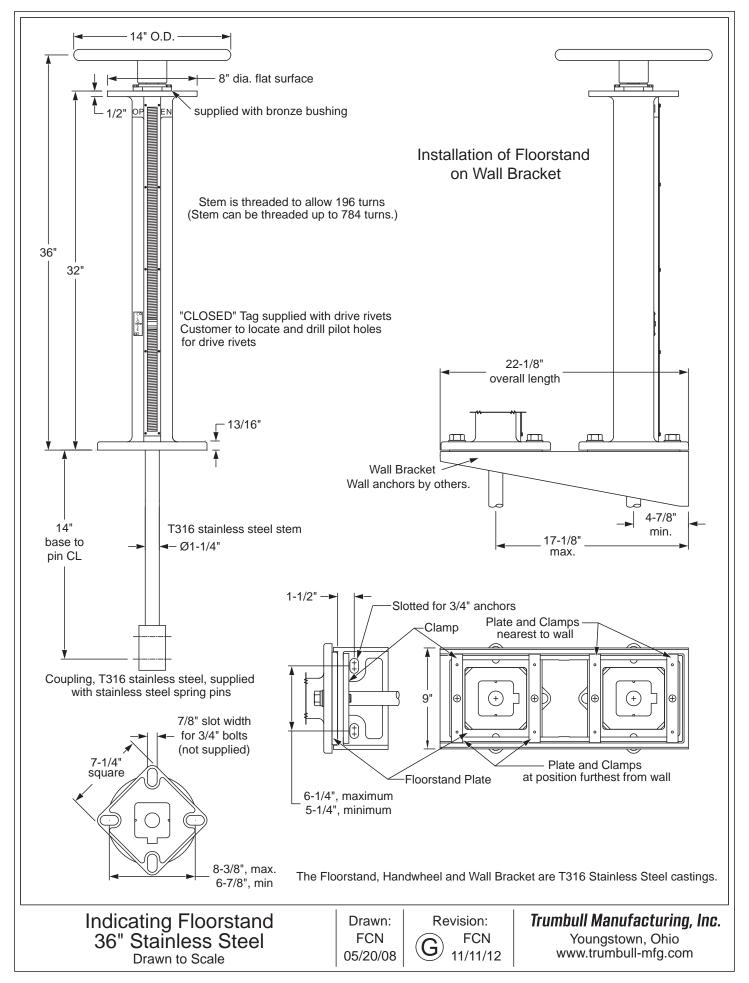
# 36" Stainless Steel Indicating Floorstand

Includes a Sealed Indicator Slot

Trumbull 36" Stainless Steel Indicating Floorstands are designed for installation in treatment plants and pump stations to allow operation of valves at a lower elevation. Stainless steel drive pin secures handwheel to stem. Flange can be machined to facilitate mounting of actuator, if required (also available with gear operators). Stocked for "open left" valves; also available for "open right" valves. Standard stem threading allows up to 196 turns; optional threading allows up to 784 turns. Also available in ductile iron (see page G-47 and G-48). See page G-34 for custom Floorstand options.



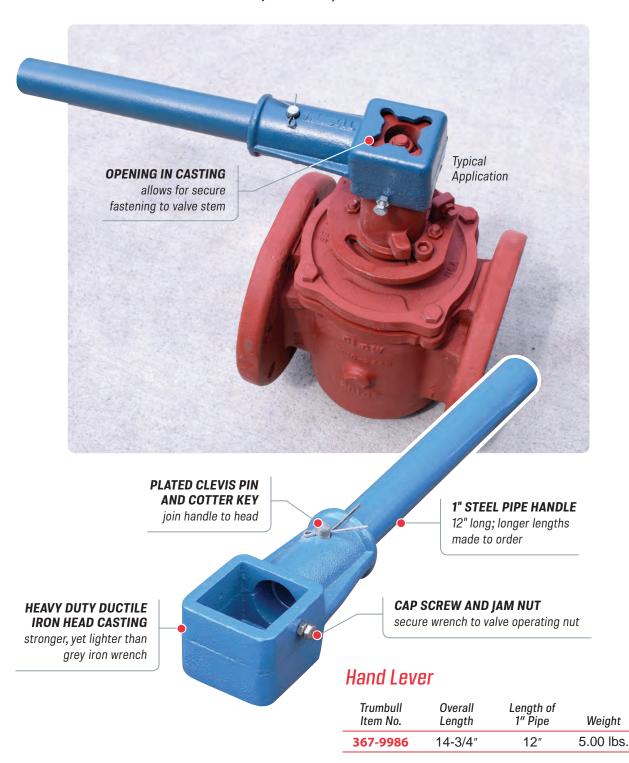
Typical Floorstand installation





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**Hand Lever** For Use with Quarter-Turn, Above Ground Valves





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Chain Lever

### Used for Manual Operation of Quarter-Turn Valves Installed Overhead

Trumbull Chain Levers save the unnecessary expense of adding a gear and chainwheel to valves that don't require a gear to operate.

Handles are 1" sch 40 pipe. Stocked with an overall length of 24"; longer lengths made to order. Our Chain Levers are designed to fit on a 2" square nut whose flat sides are parallel to the flow line, when the valve is either fully open or closed (see illustration on left). To our knowledge, our Chain Lever will properly operate all plug valves, other than Milliken.

> **TAPPED FOR STANDARD EYEBOLT** used for installation of our secondary safety restraint system which should be

attached to an adjacent pipe or valve

component (see pages G-65 and G-66)

PLATED EYEBOLTS, HARDWARE AND CONNECTOR LINKS furnished standard HEAVY DUTY DUCTILE IRON HEAD CASTING stronger, yet lighter than grey iron

The Chain Lever should

screw and jam nut

be bolted or pinned to the valve stem, then fastened to the 2" nut with cap PLATED CLEVIS PIN AND COTTER KEY join handle to head

**OPENING IN CASTING** allows for secure fastening to valve stem

# Chain Lever

Includes handles and hardware.

Trumbull Item No.	Overall Length	Weight		
367-9988	24″	8.50 lbs.		

# **Chain Lever Accessories**

For machine chain, order specific length required.

Trumbull Item No.	Weight
172-1219	0.32 lbs./ft.
367-1975	1.25 lbs.
367-1974	0.25 lbs.
	Item No. 172-1219 367-1975



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Ductile Iron Chainwheels

Used to Operate Overhead Valves from the Floor

Sprocket-Type using single loop cut chain

Ductile Iron Chainwheels allow operation of valves, actuators, or gear boxes in high, hard-to-reach locations by means of a slight pull on the chain. Universal design allows Chainwheel to be clamped to handwheel, or pinned directly to the stem. Ductile Iron Chainwheels are furnished with zinc-plated steel attachment hardware for clamping to a handwheel. When Chainwheel is to be pinned to the stem, direct mount adapters are available. The adapters require pinning to the stem as illustrated on page G-62. Adapter is pre-drilled with pin hole, and supplied with a stainless steel pin for customer mounting to the stem. Drilling of the stem by customer. To prevent serious injury, we recommend the use of our Secondary Safety Restraint System (see pages G-65 and G-66). All Trumbull Chainwheels are furnished with a threaded boss for the addition of our Safety Restraint System.

When ordering, indicate the Chainwheel and chain size numbers and the number of feet of chain required. Chain is provided in continuous lengths and easily cut in the field to exact length needed. Closing the loop is simple with Connecting Links (shown below), see page G-63 for more information.

Connecting	Links	Galva	nized	316 Stainless		
a de la compañía de	Chain Size	Trumbull Item No.	Weight	Trumbull Item No.	Weight	
	1/0	367-1994	0.02 lbs.	367-1997	0.02 lbs.	
St an	4/0	367-1995	0.03 lbs.	367-1998	0.03 lbs.	
10	5/0	367-1996	0.05 lbs.			
ALL AND AL						

						Galvanized Chain	Stainless Chain	Chain Length
Trumbull Item No.	Size No.	Diameter	Boxed Weight	Handwheel OD Range Chainwheel will Fit	Chain Size	Trumbull Item No.	Trumbull Item No.	(2X drop) plus
367-1873	TR-0.0	4″	2.25 lbs.	2" to 4"	#2	172-1650		1 ft.
367-1874	TR-1.0	6″	5.40 lbs.	4-1/4" to 5-3/4"	1/0	367-1894	367-1897	1 ft.
367-1875	TR-1.5	7-1/2″	8.75 lbs.	6" to 7-1/2"	1/0	367-1894	367-1897	1 ft.
367-1876	TR-2.0	9″	13.40 lbs.	7-3/4" to 9"	1/0	367-1894	367-1897	1-1/2 ft.
367-1877	TR-2.5	12-1/2″	17.00 lbs.	9-1/4" to 12-1/2"	4/0	367-1895	367-1898	1-1/2 ft.
367-1878	TR-3.0	15-1/2″	21.60 lbs.	12-3/4" to 15-1/2"	4/0	367-1895	367-1898	2 ft.
367-1879	TR-3.5	19″	30.85 lbs.	15-3/4" to 19"	4/0	367-1895	367-1898	2-1/2 ft.
367-1880	TR-4.0	22″	42.75 lbs.	19-1/4" to 22"	5/0	367-1896	367-1901	3 ft.
367-1881	TR-4.5	26″	49.00 lbs.	22-1/2" to 26"	5/0	367-1896	367-1901	3-1/2 ft.
367-1882	TR-5.0	30″	63.40 lbs.	22-1/2" to 36"	5/0	367-1896	367-1901	4 ft.

Ductile Iron and Aluminum Chainwheels are sprocket-type, using single loop cut chain. Carbon Steel and Stainless Steel Chainwheels are pocket-type, using smooth welded link machine chain. See page G-59 for Chainwheel dimensions.



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# Aluminum Chainwheels

Used to Operate Overhead Valves from the Floor

Sprocket-Type using single loop cut chain

Aluminum Chainwheels allow operation of valves, actuators, or gear boxes in high, hard-to-reach locations by means of a slight pull on the chain. The light weight of aluminum Chainwheels is desirable to minimize the weight on the stems. Universal design allows Chainwheel to be clamped to a handwheel, or pinned directly to the stem.

All Aluminum Chainwheels are A356-T6 alloy and are provided with a protective coating.

Aluminum Chainwheels are furnished with stainless steel attachment hardware for clamping to a handwheel. When Chainwheel is to be pinned to the stem, direct mount adapters are available. The adapters require pinning to the stem as illustrated on page G-62. Adapter is pre-drilled with pin hole, and supplied with a stainless steel pin for customer mounting to the stem. Drilling of the stem by customer.

To prevent serious injury, we recommend the use of our Secondary Safety Restraint System (see pages G-65 and G-66 for more information). All Trumbull Chainwheels are furnished with a threaded boss for the addition of our Safety Restraint System.



	ddition of ou		Galvanized Chain	Stainless Chain	Chain Length			
Trumbull Item No.	Size No.	Diameter	Boxed Weight	Handwheel OD Range Chainwheel will Fit	Chain Size	Trumbull Item No.	Trumbull Item No.	(2X drop) plus
367-2020	TRA-0.0	4″	1.05 lbs.	2" to 4"	#2	172-1650		1 ft.
367-2021	TRA-1.0	6″	2.65 lbs.	4-1/4" to 5-3/4"	1/0	367-1894	367-1897	1 ft.
367-2022	TRA-1.5	7-1/2″	4.15 lbs.	6" to 7-1/2"	1/0	367-1894	367-1897	1 ft.
367-2023	TRA-2.0	9″	5.30 lbs.	7-3/4" to 9"	1/0	367-1894	367-1897	1-1/2 ft.
367-2024	TRA-2.5	12-1/2″	7.90 lbs.	9-1/4" to 12-1/2"	4/0	367-1895	367-1898	1-1/2 ft.
367-2025	TRA-3.0	15-1/2″	10.40 lbs.	12-3/4" to 15-1/2"	4/0	367-1895	367-1898	2 ft.
367-2026	TRA-3.5	19″	13.30 lbs.	15-3/4" to 19"	4/0	367-1895	367-1898	2-1/2 ft.

When ordering, indicate the Chainwheel and chain size numbers and the number of feet of chain required. Chain is provided in continuous lengths and easily cut in the field to exact length needed. Closing the loop is simple with Connecting Links (shown on right), see page G-63 for more info.

Ductile Iron and Aluminum Chainwheels are sprocket-type, using single loop cut chain. See page G-59 for Chainwheel dimensions.

# Connecting Links

	Galva	nized	316 Stainless			
Chain Size	Trumbull Item No.	Weight	Trumbull Item No.	Weight		
1/0	367-1994	0.02 lbs.	367-1997	0.02 lbs.		
4/0	367-1995	0.03 lbs.	367-1998	0.03 lbs.		
5/0	367-1996	0.05 lbs.				



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# **316 Stainless Steel Chainwheels** Used to Operate Overhead Valves from the Floor

Pocket-Type using welded link machine chain



Used to operate overhead valves from the floor. Stainless Steel Chainwheels allow operation of valves, actuators, or gear boxes in high, hard-to-reach locations by means of a slight pull on the chain. Universal design allows Chainwheel to be clamped to a handwheel, or pinned directly to the stem. Designed for corrosive environments, our Stainless Steel Chainwheels are Type 316 investment steel castings. Ideal in chemical processing, outdoor

Stainless Chainwheels are furnished with stainless steel attachment hardware for clamping to a handwheel. When Chainwheel is to be pinned to the stem, direct mount adapters are available. The adapters require pinning to the stem as illustrated on page G-62. Adapter is pre-drilled with pin hole, and supplied with a

stainless steel pin for customer mounting to the stem. Drilling of the stem by customer.

installations, or salt water environments.

To prevent serious injury, we recommend the use of our Secondary Safety Restraint System (see pages G-65 and G-66). Furnished with a threaded boss for the addition of Safety Restraint System.

Trumbull smooth, welded link chain (shown below) is calibrated specifically for use on the full range of Trumbull pocket-type Chainwheels and is required for smooth operation.



Corroded CI Chainwheel shows advantage of stainless steel.

Trumbull Item No.	Size No.	Diameter	Boxed Weight	Handwheel Range Chainwheel will Fit**	Bore*** Diameter	Chain Length (2X Drop)
367-1825	TRS-4D*	4-1/8″	4.75 lbs.	1-1/2" I.D. to 4-1/2" O.D	0.500	Plus 1 ft.
367-1830	TRS-6D*	5-7/8″	8.65 lbs.	2-1/8" I.D. to 6-1/4" O.D	0.850	Plus 1 ft.
367-1833	TRS-8B	8″	14.40 lbs.	7-1/2" O.D. to 10-1/2" O.D	1.500	Plus 1-1/2 ft.
367-1845	TRS-12B	11-5/8″	19.80 lbs.	8-1/2" O.D. to 13-1/2" O.D	1.500	Plus 1-1/2 ft.
367-1850	TRS-15B	15-3/16″	23.90 lbs.	9-1/2" O.D. to 17-1/2" O.D	1.500	Plus 2 ft.
367-1860	TRS-22B	22-1/4″	34.45 lbs.	13" O.D. to 25" O.D	1.500	Plus 3 ft.
367-1870	TRS-29B	29-1/4″	48.00 lbs.	17-3/4" O.D. to 32" O.D	1.500	Plus 4 ft.
367-1871	TRS-29C	29-1/4″	48.00 lbs.	22-1/2" O.D. to 37" O.D	1.500	Plus 4 ft.

\* D suffix denotes "Disc", used in lieu of standard clamping hardware; see page G-61 for illustration.

\*\* The ranges above are for Size "B" attachment stampings, furnished standard with TRS-8 to TRS-29 Chainwheels. Chainwheels can fit handwheel diameters outside these ranges by using optional hardware (see chart page G-61). Consult your Trumbull Sales Rep for either shorter or longer attachment set stampings.

\*\*\* Consult factory if using OS&Y gate valves with stem diameters greater than bore diameters shown.

### Trumbull Calibrated Machine Chain

Order length of chain required and connecting link.

)-C-C-()	-0-0	
Description	Trumbull Item No.	Weight
316L SS Machine Chain	367-1815	0.35 lbs./ft.
SS Connecting Link	367-1816	0.05 lbs.

Ductile Iron and Aluminum Chainwheels are sprocket-type, using single loop cut chain. Carbon Steel and Stainless Steel Chainwheels are pocket-type, using smooth welded link machine chain. See page G-59 for Chainwheel dimensions.



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# **Carbon Steel Chainwheels**

Used to Operate Overhead Valves from the Floor

Pocket-Type using welded link machine chain

Carbon Steel Chainwheels allow operation of valves, actuators, or gear boxes in high, hard-to-reach locations by means of a slight pull on the chain. Universal design allows Chainwheel to be clamped to a handwheel, or pinned directly to the stem.

Carbon Steel Chainwheels are furnished with stainless steel attachment hardware for clamping to a handwheel. When Chainwheel is to be pinned to the stem, direct mount adapters are available. The adapters require pinning to the stem as illustrated on page G-62. Adapter is pre-drilled with pin hole, and supplied with a stainless steel pin for customer mounting to the stem. Drilling of the stem by customer.

To prevent serious injury, we recommend the use of our Secondary Safety Restraint System (see pages G-65 and G-66). All Trumbull Chainwheels are furnished with a threaded boss for the addition of our Safety Restraint System.

Trumbull smooth, welded link chain (shown below) is calibrated specifically for use on the full range of Trumbull pocket-type Chainwheels and is required for smooth operation.



Finished with e-coating.

Trumbull Item No.	Size No.	Diameter	Boxed Weight	Handwheel Range Chainwheel will Fit**	Bore*** Diameter	Chain Length (2X drop)
367-1829	TRCS-6PD*	5-7/8″	8.50 lbs.	2-1/8" I.D. to 6-1/4" O.D.	0.850	Plus 1 ft.
367-1832	TRCS-8PB	8″	14.35 lbs.	7-1/2" O.D. to 10-1/2" O.D.	1.500	Plus 1-1/2 ft.
367-1844	TRCS-12PB	11-5/8″	18.65 lbs.	8-1/2" O.D. to 13-1/2" O.D.	1.500	Plus 1-1/2 ft.
367-1849	TRCS-15PB	15-3/16″	24.75 lbs.	9-1/2" O.D. to 17-1/2" O.D.	1.500	Plus 2 ft.
367-1859	TRCS-22PB	22-1/4″	34.80 lbs.	13" O.D. to 25" O.D.	1.500	Plus 3 ft.
367-1869	TRCS-29PB	29-1/4″	45.05 lbs.	17-3/4" O.D. to 32" O.D.	1.500	Plus 4 ft.

- \* D suffix denotes "Disc", used in lieu of standard clamping hardware; see page G-61 for illustration.
- \*\* The ranges above are for Size "B" attachment stampings, furnished standard with TRCS-8 to TRCS-29 Chainwheels. Chainwheels can fit handwheel diameters outside these ranges by using optional hardware (see chart on page G-61). Consult your Trumbull Sales Rep for either shorter or longer attachment set stampings.
- \*\*\* Consult factory if using OS&Y gate valves with stem diameters greater than bore diameters shown.

### **Trumbull Calibrated Machine Chain** Order length of chain required and connecting link.

C) Description	Trumbull Item No.	Weight						
Plated CS Machine Chain	367-1818	0.35 lbs./ft.						
316L SS Machine Chain	367-1815	0.35 lbs./ft.						
SS Connecting Link	367-1816	0.05 lbs.						

Ductile Iron and Aluminum Chainwheels are sprocket-type, using single loop cut chain. Carbon Steel and Stainless Steel Chainwheels are pocket-type, using smooth welded link machine chain. See page G-59 for Chainwheel dimensions.



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# Sprocket-Type Chainwheel Dimensions

Ductile Iron	TR- <b>0.0</b>	TR- <b>1.0</b>	TR-1.5	TR- <b>2.0</b>	TR- <b>2.5</b>	TR- <b>3.0</b>	TR- <b>3.5</b>	TR- <b>4.0</b>	TR- <b>4.5</b>	TR- <b>5.0</b>	
Trumbull Item Number	367-1873	367-1874	367-1875	367-1876	367-1877	367-1878	367-1879	367-1880	367-1881	367-1882	
Boxed Weight (lbs.)	2.2	5.4	8.8	13.4	17.0	21.6	30.9	42.8	49.0	63.4	
Aluminum	TRA- <b>0.0</b>	TRA- <b>1.0</b>	TRA- <b>1.5</b>	TRA- <b>2.0</b>	TRA- <b>2.5</b>	TRA- <b>3.0</b>	TRA- <b>3.5</b>				
Trumbull Item Number	367-2020	367-2021	367-2022	367-2023	367-2024	367-2025	367-2026				
Boxed Weight (lbs.)	1.0	2.7	4.2	5.3	7.9	10.4	13.3				
Chainwheel O.D.	4″	6″	7-1/2″	9″	12-1/2″	15-1/2″	19″	22″	26″	30″	
Chainwheel Assembly Fits Handwheel O.D. Range	2" to 4"	4-1/4" to 5-3/4"	6″ to 7-1/2″	7-3/4" to 9"	9-1/4" to 12-1/2"	12-3/4" to 15-1/2"	15-3/4″ to 19″	19-1/4" to 22"	22-1/2" to 26"	22-1/2" to 36"	
Chain Size	Size #2		Size 1/0		Size 4/0				Size 5/0		
Attachment Set Size	Disk #0 367-2005	Disk #1 367-2006	"/ 367-	4" 1810	"B" 367-1811	"C" 367-1812				"D" 367-1813	
"D" (Overall Depth)	1-7/8″	2-3/8″	2-1/2″	2-1/2″	2-9/16″	2-9/16″	2-9/16″	2-5/8″	2-5/8″	3-5/16″	
"H" (Overall Height)	5″	6-7/8″	8-3/4″	10-3/4″	12-5/8″	16″	19″	23″	27″	30″	
"W" (Overall Width)	4-1/4″	5-7/16″	8-1/4″	9-1/2″	11-5/16″	15-7/16″	18-7/16″	22-5/8″	26-1/2″	29-7/8″	
Star Adapter Size	Sn	nall	all Medium			Large & X-Large see NOTE below					
Min/Max Bore Dia.	3/8″ t	o 7/8″		1/2" to 1-3/8	11	1/2" to 1-3/8" (Large); 1/2" to 2-1/8" (X-Large)				arge)	

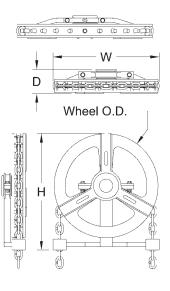
Note: Chainwheel spokes must be drilled for the Star Adapter on the TR-4.0, TR-4.5 and TR-5.0.

# Pocket-Type Chainwheel Dimensions

Carbon Steel		TRCS-6	TRCS-8	TRCS-12	TRCS-15	TRCS-22	TRCS- <b>29</b>		
Trumbull Item Number		367-1829	367-1832	367-1844	367-1849	367-1859	367-1869		
Boxed Weight (lbs.)		8.5	14.4	18.7	24.8	34.8	45.0		
Stainless Steel	TRS- <b>4</b>	TRS- <b>6</b>	TRS- <b>8</b>	TRS-12	TRS-15	TRS- <b>22</b>	TRS- <b>29</b>		
Trumbull Item Number	367-1825	367-1830	367-1833	367-1845	367-1850	367-1860	367-1870		
Boxed Weight (lbs.)	4.8	8.7	14.4	19.8	23.9	34.5	48.0		
Chainwheel O.D.	4-1/8″	5-7/8″	8″	11-5/8″	15-3/16″	22-1/4″	29-1/4″		
Chainwheel Assembly Fits Handwheel O.D. Range	1-1/2" to 4-1/2"	2-1/8" to 6-1/4"	7-1/2" to 10-1/2"	8-1/2" to 13-1/2"	9-1/2" to 17-1/2"	13" to 25"	17-3/4" to 32"		
Attachment Set Size	Disk #4	Disk #6	"B" Attachment Set (367-1808) provided as standard. Ranges can be expanded by optional sets "A" & "C" (see page G-55).						
"D" (Overall Depth)	2-3/8″	2-5/8″	2-3/4"	2-3/4"	2-3/4"	2-3/4"	2-7/8″		
"H" (Overall Height)	6-1/4″	7-1/16″	9″	13-1/8″	16-1/4″	22-1/4″	29-1/4″		
"W" (Overall Width)	4-5/8″	6-3/16″	8-7/16″	12″	15-5/8″	22-5/8″	29-1/2″		
Star Adapter Size	Small		Large						
Min/Max Bore Dia.	3/8″ te	o 7/8″	3/4" to 1-3/8"						

### Dimensions

For both sprocket-type above and pocket-type Chainwheels at left.



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# Chainwheel Connecting Links and Chain

Sprocket-Type Chainwheels Ductile Iron & Aluminum Models

> SINGLE LOOP CHAIN engages with the teeth in the wheel.

### **Pocket-Type Chainwheels** Carbon Steel & Stainless Steel Models

# WELDED LINK MACHINE CHAIN fits in pockets in the wheel.

Smooth chain links provide more comfortable operation.

When ordering chain, indicate the Chainwheel and Chain size numbers, also the number of feet of chain required. Chain is provided in continuous lengths and easily cut in the field to exact length needed.

Closing the loop is simple with "Connecting Links".

## TR Series Connecting Links

for sprocket-type Chainwheels Installation instructions on page G-63!

	Galvanized	Stainless
Chain Size	Trumbull Item No.	Trumbull Item No.
#2		
1/0	367-1994	367-1997
4/0	367-1995	367-1998
5/0	367-1996	

# Single-Loop Chain

	Galvanized	Stainless
Chain Size	Trumbull Item No.	Trumbull Item No.
#2	172-1650	
1/0	367-1894	367-1897
4/0	367-1895	367-1898
5/0	367-1896	367-1901

### TRS Series Connecting Links

for pocket-type Chainwheels

316L	Zinc Plated
Stainless	Carbon Steel
Trumbull	Trumbull
Item No.	Item No.
367-1816	

# Welded Link Machine Chain

calibrated specifically for our pocket-type Chainwheels

316L	Zinc Plated
Stainless	Carbon Steel
Trumbull	Trumbull
Item No.	Item No.
367-1815	367-1818



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Mounting of Chainwheels

Attachment sets and discs used to mount Chainwheels to handwheel

> Each Trumbull Chainwheel is furnished standard with Clamp-On Attachment Hardware. The smaller sizes furnished with Clamping Discs, and larger sizes with Attachment Sets, as outlined below.

### Sprocket-Type Chainwheels

- Sizes TR/A-0.0 and TR/A-1.0 use Clamping Disc hardware.
- Sizes TR/A-1.5 to TR/A-2.5 use two sets of Clamp Bases & Arms, plus one Band.
- Sizes TR/A-3.0 to TR/A-5.0 use three sets of Clamp Bases & Arms and do not use a Band.

### Pocket-Type Chainwheels

- Sizes TRS/CS-4 & TRS/CS-6 use Clamping Disc hardware.
- Sizes TRS/CS-8 to TRS/CS-29 are furnished standard with size "B" Attachment Sets. Pocket Chainwheels can fit handwheel diameters outside these ranges by using optional Hardware Sets "A" and "C" as shown on chart below.



### Pocket Handwheel O.D. Ranges

	"A" Attachment Set		"B" Attac	hment Set	"C" Attachment Set		
<u>Size</u>	<u>Min. O.D.</u>	<u>Max. O.D.</u>	<u>Min. O.D.</u>	<u>Max. O.D.</u>	<u>Min. O.D.</u>	<u>Max. O.D.</u>	
TRS/CS-8	6″	8″	7-1/2″	10-1/2″	12-1/2″	15-1/2″	
TRS/CS-12	7″	11″	8-1/2″	13-1/2″	13-1/4″	18-1/2″	
TRS/CS-15	8″	15″	9-1/2″	17-1/2″	14-1/8″	23″	
TRS/CS-22	11″	22-1/2″	13″	25″	17-1/2″	30″	
TRS/CS-29	16″	29″	17-3/4″	32″	22-1/2"	37″	



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"STAR ADAPTERS"

Star Adapters are available for direct mounting of Chainwheels to valve, gear box, or actuator stem.

Chainwheel Arm

Fastener

Valve Stem

Threaded Boss for Safety Restraint Eyebolt

Star Adapter will be bored

to fit Stem, and mounts to

Chainwheel Arms

Pin goes thru Star

Adapter and Stem

These adapters require pinning to the stem. Pilot holes are pre-drilled in the adapter for ease of installation on-site; the drilling of the stem is by customer. Star Adapters will be furnished with fasteners necessary to attach to Chainwheel, in lieu of clamping hardware normally furnished with Chainwheel.

Direct Mounting of Chainwheels for both Sprocket-Type and Pocket-Type Chainwheels Stainless Steel Ductile Iron Star Adapters Star Adapters Chainwheel Arm Threaded Boss for Safety Restraint Eyebolt Fastener Valve Stem Star Adapter will be bored to fit Stem, and mounts to Chainwheel Arms

Pin goes thru Star Adapter and Stem **Internal Assembly** 

**External Assembly** 

# Ductile Iron "Star Adapters" for Sprocket-Type Chainwheels

	Size <b>0.0</b>	Size 1.0	Size 1.5	Size <b>2.0</b>	Size <b>2.5</b>	Size 3.0	Size 3.5	Size 4.0	Size 4.5	Size <b>5.0</b>
DI Star Adapter	S	S	М	Μ	Μ	L & XL	L & XL	L & XL	L & XL	L & XL
Trumbull Item No.	167-	167-3070 167-3072		167-3074 (L) & 167-3076 (XL)						
Bore Size, standard	3/	8″	1/2″		1/2"					
Hub O.D.	1-1	/8″		1-5/8″		L 1-5/8" / XL 2-3/8"				
Optional Bore, max.	7/	8″	1-3/8″			L 1-3/8" / XL 2-1/8"				
Hub Height	3/	4″		1-3/16″		1-1/2"				

		Size 4	Size <b>6</b>	Size 8	Size 12	Size 15	Size 22	Size <b>29</b>
Stainless Steel	SS Star Adapter		S		L	L	L	L
"Star Adapters"	Trumbull Item No.		167-3060 167-3062					
for Pocket-Type	Bore Size, standard	3/8″		3/4"				
Chainwheels	Hub O.D.	1-1/16″		1-9/16″				
	Optional Bore, max.	7/8″		1-3/8″				
	Hub Height	1/2″		1-1/2"				

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TR-Series Connecting Links Used to Connect Chain for Use with Sprocket Chainwheels

TR Series Connecting Links are used to connect single loop chain for use with Trumbull ductile iron and aluminum Sprocket-Type Chainwheels. Pre-formed Connecting Links eliminate the need to cut and bend chain to form a loop. 

Available in three sizes; 1/0, 4/0 and 5/0.

	Galva	nized	316 Stainless Steel		
Chain Size	Trumbull Item No.	Weight	Trumbull Item No.	Weight	
1/0	367-1994	0.02 lbs.	367-1997	0.02 lbs.	
4/0	367-1995	0.03 lbs.	367-1998	0.03 lbs.	
5/0	367-1996	0.05 lbs.			

Installation is easy, just follow these FIVE STEPS ....

Cut chain to desired length. Cut and remove excess link pieces.



by inserting looped end of chain into the open end of connecting link.



TRUMBULL

Slide the chain to the back side of connecting link as shown.

Lay opposite end of chain onto the connecting link.



Firmly grip connecting link with pliers and/or adjustable pliers and crimp the open end of connecting link over to complete connection.



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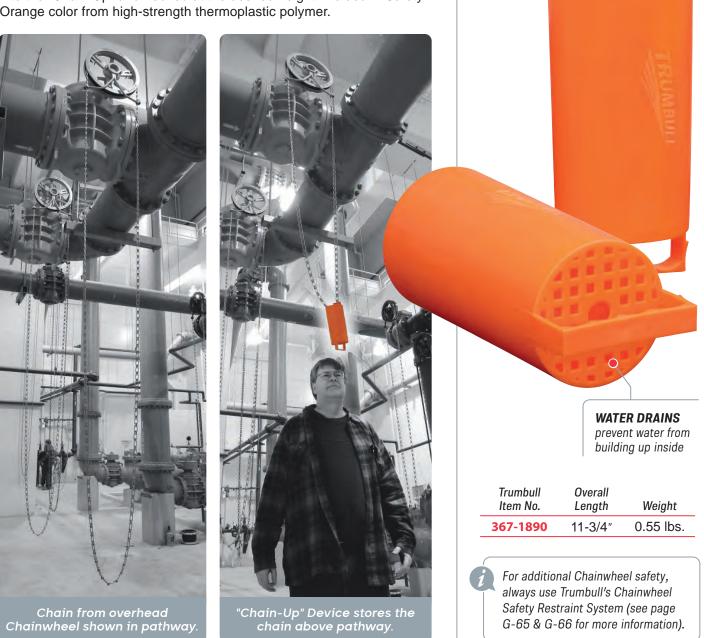
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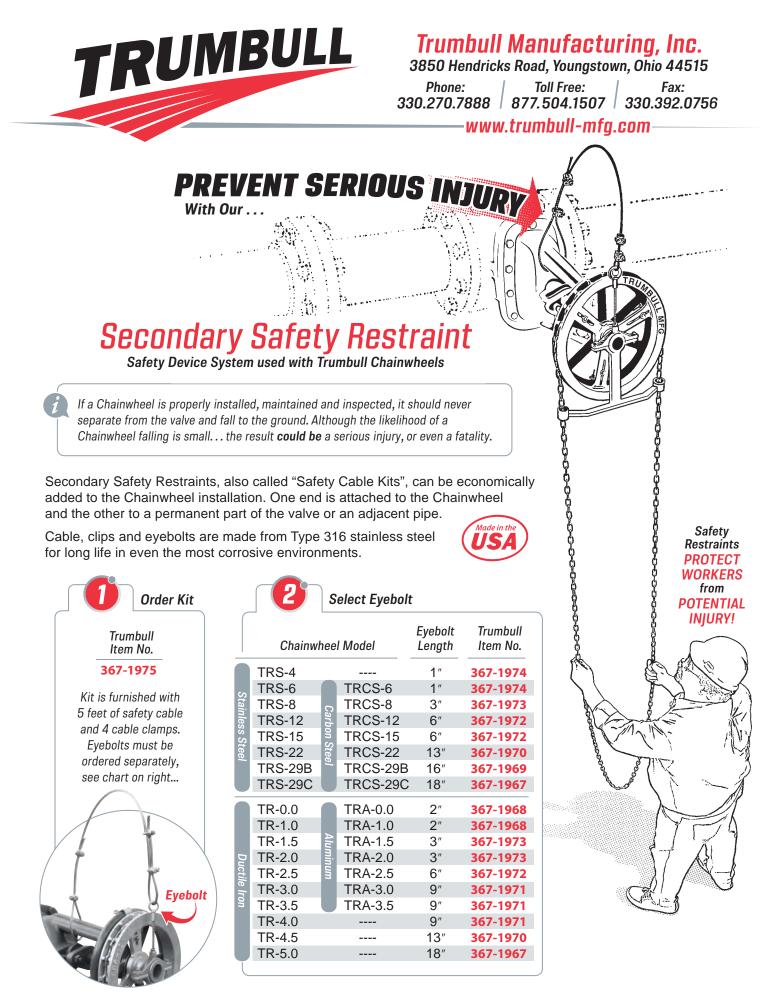
# "Chain-Up" Device

Eliminates a Potential Safety Hazard Presented by Overhead Chains

Chainwheels are installed to provide access to overhead valves and they frequently result in chain hanging into the pathway of workers, creating a kind of obstacle course or even a safety hazard.

Our "Chain-Up" Device stores chain overhead and safely above the pathway. Simply hook the clevis pin into a chain link at the desired overhead height and insert the chain into the device. Pull on the handle to release the chain for operation. After use, the chain is placed back into the "Chain-Up" and hooked at the desired height. Molded in Safety Orange color from high-strength thermoplastic polymer.





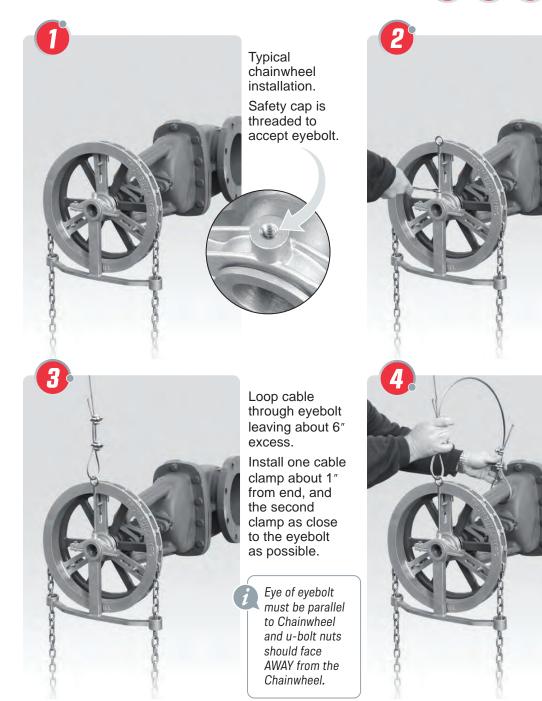
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# **INSTRUCTIONS**

# Installation of Safety Restraints As easy as... 1 2 3 4



Install safety cable eyebolt and use jam nut to secure in place.

Loop other end of cable around a secure object. Cable can be attached to yoke of valve or an adjacent pipe.

> Tighten all four clamp nuts evenly to 15 ft-lb minimum.



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# Adjustable Pipe Supports – Saddle Style Available in Galvanized Carbon Steel and ASTM 304 Stainless Steel

All Trumbull Pipe Support models have been tested to a 10,000 lb load, under typical installation conditions. We recommend Project Engineers consider a safety factor when determining the number of supports in their design.

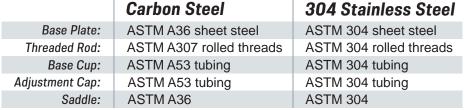


### Assembly Includes:

A Large base, 8" x 8" B Saddle Assembly & Height-Adjustment Cap, which allows for up to 3" of final height adjustment

# **Customer Supplied:**

C Extension Pipe, at the length required\*



Standard stock Saddles are formed to fit ductile iron pipe diameters, other pipe diameters available upon request;

- Optional 316 stainless steel supports available.
- Other coatings such as epoxy paint may be available, please inquire as to availability.



Extension Pipe is furnished separately. If required, Trumbull can supply pipe that is cut-to-length.

Pipe Size	Carbon Steel Item No.	304 Stainless Item No.	Saddle Size	Threaded Rod	Base Plate	Extension Pipe Size*	Min. Height from Floor
3″	364-5850	364-5830	4 4/0" × 2/0"				
4″	364-5851	364-5831	1-1/2″ x 3/8″				
6″	364-5852	364-5832		1″-8 NC x 6″	1/4" x 8" x 8"	0% Oak 40	7″
8″	364-5853	364-5833	2″ x 1/2″			2″ Sch 40	
10″	364-5854	364-5834					
12″	364-5855	364-5835					
14″	364-5856	364-5836	0," 5/0,"			3″ Sch 40	
16″	364-5857	364-5837	3″ x 5/8″	1-1/2"-6 NC x 6"			
18″	364-5858	364-5838			1/2″ x 8″ x 8″	1	10″
20″	364-5859	364-5839	4″ x 3/4″	2"-4 NC x 6"		4″ Sch 40	
24″	364-5860	364-5840					



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# Adjustable Pipe Supports – Flange Style Available in Galvanized Carbon Steel and ASTM 304 Stainless Steel

All Trumbull Pipe Support models have been tested to a 10,000 lb load, under typical installation conditions. We recommend Project Engineers consider a safety factor when determining the number of supports in their design.



### Assembly Includes:

A Large base; 4" x 6" or 8" x 8"

B Saddle Assembly & Height-Adjustment Cap, which allows for up to 3" of final height adjustment

**Customer Supplied:** C Extension Pipe, at the length required\*

	Carbon Steel	304 Stainless Steel
Base Plate:	ASTM A36 sheet steel	ASTM 304 sheet steel
Threaded Rod:	ASTM A307 rolled threads	ASTM 304 rolled threads
Base Cup:	ASTM A53 tubing	ASTM 304 tubing
Adjustment Cap:	ASTM A53 tubing	ASTM 304 tubing
Flange Plate:	ASTM A36 sheet steel	ASTM 304 sheet steel

Standard stock flange supports are fabricated to fit ANSI Class 125 bolt pattern flanges, other flange bolt patterns classes available upon request;

- Optional 316 stainless steel supports available.
- Other coatings such as epoxy paint may be available, please inquire as to availability.
- \* Extension Pipe is furnished separately. If required, Trumbull can supply pipe that is cut-to-length.

B

Class 125 Flange Size	CS Item No.	304 SS Item No.	Flange Plate Dimensions	Threaded Rod	Base Plate	Extension Pipe Size*	Min. Height from Floor
3″	364-5870	364-5890	6" x 3-1/4" x 1/4"				
4″	364-5871	364-5891	4-1/2" x 2-1/2" x 1/4"				
6″	364-5872	364-5892	5-1/4" x 2-1/2" x 1/4"	1″-8 NC x 6″	1/4″ x 4″ x 6″	2″ Sch 40	7″
8″	364-5873	364-5893	6-1/2" x 2-1/2" x 1/4"		1/4 X 4 X 0	2 301140	1
10″	364-5874	364-5894	6" x 2-1/2" x 1/4"				
12″	364-5875	364-5895	6-1/2" x 2-1/2" x 1/4"				
14″	364-5876	364-5896		1-1/2″-6 NC x 6″		2" Sab 40	
16″	364-5877	364-5897		1-1/2 -0 NC X 0		3″ Sch 40	
18″	364-5878	364-5898	7-1/2" x 3-1/2" x 3/8"		1/2″ x 8″ x 8″		10″
20″	364-5879	364-5899		2"-4 NC x 6"		4″ Sch 40	
24″	364-5880	364-5900					



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# Light-Duty Pipe Supports

An economical, saddle-style Pipe Support with carbon steel parts. Includes saddle, 6" x 6" square base made of 1/4" thick steel and 1" x 24" pipe risers. Sized to fit 4", 6" or 8" IPS/DIP diameter pipes. Adjustment ranges from 22-1/2" through 33-1/2". Saddle, threads and adjustment nut are all zinc plated. Pipe risers and bases are blue powder coated for corrosion protection. Pipe risers are designed so they can be cut to length in the field. Square base includes four anchor bolt holes.

Trumbull Item No.	Size	Weight
364-5821	4″	8.80 lbs.
364-5822	6″	8.90 lbs.
364-5823	8″	9.15 lbs.



Check out our LinkedIn page... "Relevant and interesting Posts, Regularly" www.linkedin.com/company/trumbull-manufacturing-inc/





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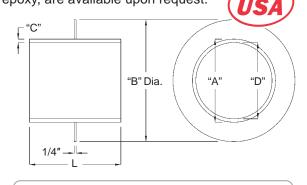
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# Wall Sleeves

Trumbull Wall Sleeves consist of a 1/4" thick steel flange continuously welded, both sides, to a heavy steel cylinder. Wall Sleeves are supplied with a rust preventive coating on all surfaces; special coatings, including galvanizing and epoxy, are available upon request.



All Trumbull Wall Sleeves are made to order, and made to your particular specifications. They are coated with black enamel coating as standard. Other coatings also available, please inquire.

	"A"	"B"	"C" Wall	"D"
Item No.	Diameter	Diameter	Thickness	I.D.
TWS-0250-L	2.88″	6.88″	0.203″	2.47″
TWS-0300-L	3.50″	7.50″	0.216″	3.07″
TWS-0400-L	4.50″	8.50″	0.237″	4.03″
TWS-0600-L	6.63″	10.63″	0.280″	6.07″
TWS-0800-L	8.63″	12.63″	0.322″	7.98″
TWS-1000-L	10.75″	14.75″	0.365″	10.02″
TWS-1200-L	12.75″	16.75″	0.375″	12.00″
TWS-1400-L	14.00″	18.00″	0.375″	13.25″
TWS-1600-L	16.00″	20.00″	0.375″	15.25″
TWS-1800-L	18.00″	22.00″	0.375″	17.25″
TWS-2000-L	20.00″	24.00″	0.375″	19.25″
TWS-2200-L	22.00″	26.00″	0.375″	21.25″
TWS-2400-L	24.00″	28.00″	0.375″	23.25″
TWS-3000-L	30.00″	34.00″	0.375″	29.25″
TWS-3600-L	36.00″	40.00″	0.375″	35.25″
TWS-4200-L	42.00″	46.00″	0.375″	41.25″
TWS-4800-L	48.00″	52.00″	0.375″	47.25″

# Century-Line™ Pipe Penetration Sleeves

Used to create circular sleeved holes in concrete poured barriers including walls, floors, ceilings, structural supports and tank footings.

Molded from non-conductive, high-impact resistant HDPE, these sleeves are lightweight and easily installed by one construction worker. Standard sleeves are 16" in length, but in the event of a field

or engineering change, they may be cut shorter at the job site using ordinary hand tools. Longer lengths available upon request.

- 1/8 the weight of steel wall sleeves.
- Resists water migration.
- Adjusts to wall thickness.
- Nailer end caps position sleeve precisely in form.



Trumbull Item No.	Model No.	Weight of 16" Length
spec/ord	CS-2	0.70 lbs.
spec/ord	CS-3	1.30 lbs.
spec/ord	CS-3-1/2	1.50 lbs.
spec/ord	CS-4	2.00 lbs.
spec/ord	CS-5	2.80 lbs.
spec/ord	CS-6	3.60 lbs.
spec/ord	CS-8	4.80 lbs.
spec/ord	CS-10	6.40 lbs.
spec/ord	CS-12	7.20 lbs.
spec/ord	CS-14	11.20 lbs.
spec/ord	CS-16	12.00 lbs.
spec/ord	CS-18	15.50 lbs.
spec/ord	CS-20	17.50 lbs.
spec/ord	CS-22	21.00 lbs.
spec/ord	CS-24	22.00 lbs.
spec/ord	CS-25	23.00 lbs.



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**Trumbull Manufacturing is an Approved Link-Seal<sup>®</sup> Modular Seal Master Distributor** Don't be fooled by "look-alikes". Specify and use original Link-Seal<sup>®</sup> Modular Seals!

	Model C	Model S-316
Link-Seal <sup>®</sup> Model No.	Trumbull Item No.	Trumbull Item No.
LS-200	364-5602	364-5702
LS-275	364-5604	364-5704
LS-300	364-5606	364-5706
LS-315	364-5607	364-5707
LS-325	364-5608	364-5708
LS-340	364-5609	364-5709
LS-360	364-5613	364-5713
LS-400	364-5610	364-5710
LS-410	364-5611	364-5711
LS-425	364-5612	364-5712
LS-475	364-5614	364-5714
LS-500	364-5616	364-5716
LS-525	364-5618	364-5718
LS-575	364-5620	364-5720
LS-615	spec/order	364-5722
LS-650	364-5623	364-5724

### Industry-Leading 16 Sizes

Nitrile seal elements, for oil, fuels, motor oil and kerosene, or for low durometer EPDM compound or silicone, see Link-Seal<sup>®</sup> Modular Seals catalog.

### Model "C"

For use in water and waste water, EPDM Rubber. Bolts and nuts are carbon steel, zinc dichromated with a proprietary corrosion inhibiting coating.

### Model "S-316"

For chemical processing and waste water treatment, EPDM Rubber. Bolts and nuts are 316 Stainless Steel.

If you are unsure of the correct size for your job, please contact your Trumbull Rep before ordering. HOW LINK-SEAL<sup>®</sup> MODULAR SEALS WORK ...



Link-Seal® modular seals are shipped as a belt of interconnecting rubber links.



Wrap the belt around the pipe and connect the first and last links together.



3 Slide the assembly into the space between the pipe and wall opening.



When the bolts are tightened, Link-Seal Modular Seals® expand to create a gas and water tight seal.



Notes



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# **Brass Hydrant Adapters**

"Low Lead" brass in compliance with NSF/ANSI 61 and NSF/ANSI 372

Heavy-duty brass construction, comes complete with gasket. Furnished with "pin-type" lugs. Available from stock with 2-1/2" NST hose threads, however special threads are available upon request.



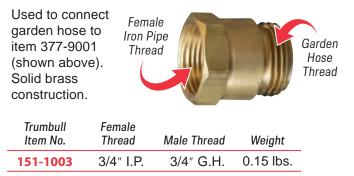
# NST x MIP Hydrant Adapters

Trumbull Item No.	Female Thread	Male Thread	Weight	
377-9001	2-1/2" NST	3/4″ MIP	1.40 lbs.	
377-9005	2-1/2" NST	1-1/2″ MIP	1.40 lbs.	
377-9009	2-1/2" NST	2″ MIP	1.40 lbs.	

# NST x Garden Hose Hydrant Adapter

Trumbull Female Item No. Thread		Male Thread	Weight
377-8981	2-1/2" NST	3/4″ G.H.	1.45 lbs.

# FIP x Garden Hose Adapter







Hydrant Operating Wrenches are shown on page A-4.



Adjustable Hydrant Wrenches are shown on page A-5.



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Ludlow, Corey and **Rensselaer Hvdrants** and has been making fire hydrant parts since 1990.

# Fire Hydrant Nozzle Caps 2-1/2" Hose Nozzle Caps and 4-1/2" Steamer Nozzle Caps

Hose & Steamer Nozzle Caps are stocked with National Standard Threads (NST), and a 1-1/2" pentagon nut, painted yellow. For caps with special threads and operating nuts, contact Trumbull for lead times.

For other sizes of Steamer Nozzle Caps, such as 4" or 4-1/4", please inquire.

# Hose Nozzle Cap and Steamer Nozzle Cap

- NST threads\* and 1-1/2" pentagon nut.\*\*
- Includes gasket.

### Trumhull

Item No.		
392-0917	2-1/2" Hose Nozzle Cap	3.75 lbs.
392-0914	4-1/2" Steamer Nozzle Cap	8.10 lbs.

\* For special threads, provide thread drawing or sample cap.

\*\* For nut sizes other than 1-1/2" pentagon, provide size and shape or sample cap.



- Includes 10" of chain, swivel and "S"-hook.
- 392-0860 is purchased separately, and does not include Nozzle Cap.



Nozzle Cap purchased separately.

Trumbull Item No.	Size	0.D.	I.D.
392-0923	2-1/2″	3-1/4″	1-1/2″
392-0920	4-1/2″	5-3/4″	3-1/4″



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# Hydrant Valve Rubbers

				<b>TYPE "B"</b> Valve Rubber		Please refer to the "Type" below for the pertinent dimensions in the table.			
	TYPE "A" Valve Rubber				- A	,c	- A	, c	
Hydrant Manufacturer	Model	Valve Opening	Trumbull Item No.	Туре	"A"	"B"	"С"	"D"	
	L 75 & L 90	4″	392-0200		5-3/8″	3-1/4″	5/8″		
Ludlow	L 75 & L 90	4-1/2″	392-0201	В	5-3/4″	3-7/8″	5/8″		
	L 75 & L 90	5″	392-0100		6-1/2″	4-1/8″	5/8″		
Rensselaer	L 90A & L 90B	4″	393-0255		4-3/8″	2-3/8″	1″	3-7/8″	
Rensseider	L 90A & L 90B	5″	393-0260		5-5/8″	2-5/8″	1-1/4″	5-3/8″	
	A421 (Centurion)	4-1/2″	377-5692		5″	1″	1-1/8″	4-1/4″	
Mueller* (Non-Reversible)	Improved	4-1/4″	377-5694		4-7/8″	1″	1″	4-1/4″	
	Improved	4-1/2″	377-5700	1	5″	1″	1-1/8″	4-1/2″	
U.S. Pipe*	Smith* H200	4-1/2″	377-5702	А	5″	2-1/4″	3/4″	4-3/4″	
	B50B, 40-50-41	4″	377-4792	1	4-1/2″	2-1/16″	1″	4-1/8″	
American Darling*	B50B, 50-50-41	5″	377-5492	1	5-3/4″	2-1/16″	1-3/16″	5-3/16″	
Dannig	B62B, 54-62-41	5-1/4″	377-6092	1	5-5/8″	1″	1″	5-3/16″	
	K10, K11, K81, 1080, 1280	4-1/2″	378-0204	1	5″	15/16″	7/8″	4-5/8″	
Kennedy*	K10, K11, K81	5-1/4″	378-0208	1	5-11/16″	1-3/32″	7/8″	5-1/4″	

\* Hydrant names are registered trademarks of American Darling/American Flow Control, McWane, Mueller or U.S. Pipe; Trumbull Manufacturing is not affiliated with these companies.



Trumbull Manufacturing is the original equipment manufacturer of **Ludlow, Corey and Rensselaer Hydrants** and has been making fire hydrant parts since 1990.

trumbull-mfg.com/resources/ludlow-rensselaer-corey-hydrant-parts/



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# Parts for Obsolete Hydrants



Trumbull Manufacturing is the original equipment manufacturer of **Ludlow, Corey and Rensselaer Hydrants** and has been making fire hydrant parts since 1990.

### TRUMBULL HAS OVER 25 YEARS EXPERIENCE

in the manufacturing of fire hydrant repair parts. Parts are available for many makes and models. Inquire for minimum quantities and availability of specific parts.

> trumbull-mfg.com/resources/ ludlow-rensselaer-coreyhydrant-parts/

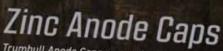
See page H-3 for Valve Rubbers for various models.



# Inquire about parts for **Other Makes and Models**

- AP Smith H200, H205
- Mueller Standard & Improved
- Kennedy 1080, 1280
- Darling Standard & B50B
- Ludlow, Corey & Rensselaer





Trumbull Anode Caps are made from Special High Grade Zinc and are third-party tested to confirm they meet the chemistry maximums allowable in both ASTM B418-88. "Galvanic Zinc Anodes", and Military Specification Mil-18001K.

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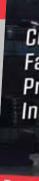
Top flange can be drilled

for bevel gear operator Wall Brackets can support operator stand off the wall Stainless steel or anti-galling coated internal stem

Trumbull Manufacturing™

ERATOR





Trumb



Trumbul











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