PRODUCT CATALOG WATERWORKS SPECIALTY PRODUCTS KEYS AND TOOLS CURB AND VALVE BOX PRODUCTS JOINT RESTRAINT PRODUCTS PRODUCTS FOR CORROSIVE SOILS METER BOX AND MANHOLE LIDS, COUPLINGS AND FLANGES VALVE POSITION INDICATORS TREATMENT PLANT PRODUCTS AND ACCESSORIES HYDRANT PARTS AND ACCESSORIES

DOUBLE SOCKET RATCHET WRENCH, PAGE A-1

CALL OUR SALES TEAM! 877.504.1507

SPECIALTY PRODUCTS FOR THE WATERWORKS AND VALVE INDUSTRIES

As a global manufacturer in the underground waterworks industry, specializing in treatment plant solutions, we have been committed to delivering innovative solutions and high-quality products since 1981. Our comprehensive approach includes full in-house engineering, manufacturing, and assembly operations based in Youngstown, Ohio.

Our team of experts is dedicated to developing cutting-edge solutions that address the unique challenges of the industry. We combine our extensive knowledge and experience with a focus on innovation to design and manufacture products that meet the highest standards of quality and reliability.

With our solid infrastructure, state-of-the-art manufacturing facilities, and exception customer service, we continue to lead the way in the underground waterworks industry. Our goal is to provide comprehensive solutions that meet the evolving needs of our customers while maintaining the highest standards of excellence and customer satisfaction.







Name	Position	Phone	Email Address
Sharon Palo	Customer Service Rep	330-393-1293	sharon.palo@trumbull-mfg.com
Diane Rogers	Customer Service Rep	330-270-7878	diane.rogers@trumbull-mfg.com
Brian Rogers	Regional Sales Manager	724-699-8776	brian.rogers@trumbull-mfg.com
Vic Dasbach	Regional Sales Manager	330-307-1217	vic.dasbach@trumbull-mfg.com
Rick Koch	Regional Sales Manager	330-219-6924	rick.koch@trumbull-mfg.com
Tom Blair	Regional Sales Manager	206-953-5520	thomas.blair@trumbull-mfg.com
Chris Mensinga	National Sales Manager	585-831-2053	chris.mensinga@trumbull-mfg.com
Scott Greaver	Plant Manager	330-393-1291	scott.greaver@trumbull-mfg.com
Adam Kane	Treatment Plant Quotations	330-392-1397	adam.kane@trumbull-mfg.com

Your Trumbull Sales Contacts ...

Trumbull Manufacturing



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Trumbull Manufacturing3850 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

ltem №	Weight
364-9986	9.35 lbs.

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 and oil mechanism regularly.

Custom logos can be molded on the grips, inquire how we can put **YOUR** logo on them.

Wrenches - Sold Individually

Grip Color	Large Socket	Small Socket	ltem №	Large Socket Fits Hex Size	Small Socket Fits Hex Size	EXAMPLES OF LARGE SOCKET APPLICATIONS	EXAMPLES OF SMALL SOCKET APPLICATIONS
BLUE	1-1/4″	1-1/16″	364-9982	3/4″ Heavy	5/8″ Heavy	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″	364-9985	3/4″ Standard	5/8″ Standard	3/4" Flange Bolts with Standard Hex	5/8″ Flange Bolts with Standard Hex, 14″ thru 24″ Hymax [®] Couplings
YELLOW	7/8″	3/4″	364-9983	9/16" Standard & 1/2" Heavy	1/2″ Standard & 7/16″ Heavy	6″ thru 12″ Hymax [®] & other Couplings with 1/2″ Heavy Hex	1-1/2″ thru 4″ Hymax [®] Couplings, 1-1/2″ thru 24″ MaxiFit™



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Double Socket Ratchet Wrenches



ADIUSTABLE HANDLE HELPS GET TO **THOSE HARD-TO-REACH NUTS AND BOLTS!**

- 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.



without disassembly

EXAMPLES OF LARGE EXAMPLES OF SMALL Large Small Large Socket Small Socket Fits Hex Size Fits Hex Size SOCKET APPLICATIONS SOCKET APPLICATIONS Item № Socket Socket Weight 4" thru 24" MJ Ftgs., 3" MJ Ftgs., 364-9984 1-1/4" 4.75 lbs. 1-1/16" 3/4" Heavy 5/8" Heavy 3/4" Hex Bolts Cast Couplings with Heavy Hex 400mm - 500mm 200mm - 350mm 364-9955 36mm 30mm M24 M20 2.15 KG **Pipe Flanges Pipe Flanges**



ADIUSTABLE HANDLE ILLUSTRATION.

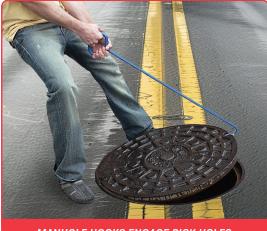
DOUBLE SOCKET DESIGN

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.



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Manhole Cover Hooks



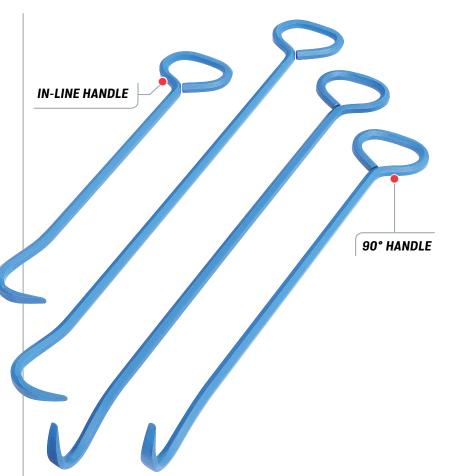
MANHOLE HOOKS ENGAGE PICK HOLES.

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.



MANHOLE HOOKS ALSO ENGAGE VENT HOLES.



In-Line Handle

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

90° Handle

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



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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.

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



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GRIPS AND RETAINS PENTAGON OR SQUARE OPERATING NUTS.



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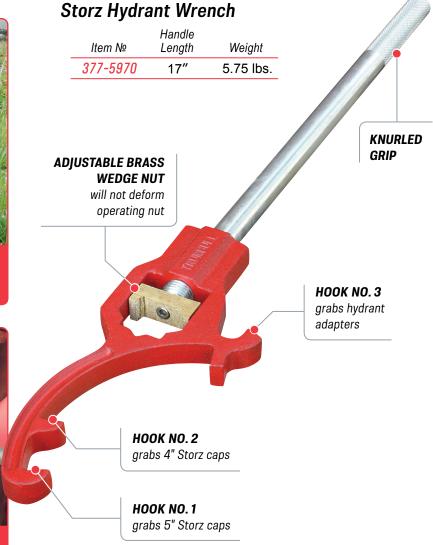


WORKS ON 4" AND 5" STORZ CAPS.

SOR 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.





WIDE BEARING SURFACE ON WEDGE NUT GRIPS & RETAINS OPERATING NUTS BETTER

WORKS ON HYDRANT ADAPTERS AND HOSE COUPLINGS, BOTH PIN AND LUG TYPE.



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Outside Diameter Tapes



Outside 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.

ltem №	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.



Inquire how we can put YOUR logo on the label.

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.

Used for identification of pipe, **NOT** for precision measurements.

 $\bigcirc \bigcirc$

LINEAR MARKINGS First 12 inches of front measures to 1/32nds.

Balance of front measures to 1/16ths.



DIAMETER MARKINGS

Diameter on back to 100ths of inches.

DIA. INCHES TO 100THS. 10, 20, 30, 40, 50, 60



TRUMBULL'S 10 FOOT TAPES CAN MEASURE THE OUTSIDE DIAMETER OF 36" DUCTILE PIPE (38.30" O.D.)

Handwheel for 2" Nut

Constructed with cast iron handwheel and a socket that fits 2" square AWWA nuts.

ltem №	Material	0.D.	Weight
367-4962	Cast Iron	14″	15.15 lbs.

Also Shown on Page G-4.



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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.

Length	Weight	🚺 Item №	LIGHTED 3 Item №
2 ft.	9.15 lbs.	367-5016	spec/ord.
3 ft.	10.70 lbs.	367-5017	spec/ord.
4 ft.	12.10 lbs.	367-5018	367-5118
5 ft.	13.35 lbs.	367-5019	367-5119
6 ft.	15.30 lbs.	367-5020	367-5120
7 ft.	17.10 lbs.	367-5021	spec/ord.
8 ft.	18.80 lbs.	367-5023	367-5123

Gate Valve Speed Wrench

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

Item №	Handle Length	Weight	Ideal for operating valves with 2″ AWWA nut in the trench or
367-9981	18″	6.20 lbs.	in the yard.

For special lengths not shown here, please inquire.

Ring Handle Main Valve Keys

Features a forged steel top ring

🕗 Item №

367-5124

367-5125

367-5126

367-5127

367-5128

- 1" Sch 40 steel pipe shafts
- Cast steel socket fits 2" square operating nut

Length

4 ft.

5 ft.

6 ft.

7 ft.

8 ft.



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

Weight

11.40 lbs.

13.00 lbs.

14.30 lbs.

15.50 lbs

18.00 lbs.

- Steel socket cast with open top mud relief
- Socket fits 2" square operating nut
- Adjustable in one foot increments with wire lock pin

Item №	Length	Weight
367-5129	6 ft. through 10 ft.	38.50 lbs.



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Curb Box Rods

– Buffalo Type Curb Box Rods

- Made of 1/2" square carbon steel
- Ductile iron end casting
- Furnished with brass cotter pin

Length	Item №	Weight
30″	367-4230	3.00 lbs.
36″	367-4232	3.50 lbs.

Erie/Minneapolis Type Curb Box Rods

Furnished with brass cotter pin

Length	Item №	Weight
24″	367-4084	3.10 lbs.
30″	367-4085	3.20 lbs.
36″	367-4087	3.70 lbs.
42″	367-4090	4.20 lbs.
48″	367-4092	4.70 lbs.

Buffalo Erie/Minneapolis

 Curb Wrenches
 Image: Curb Wrenches

 and Keys
 Image: Curb

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

Telescoping Curb Stop Wrenches

 Available in two size ranges Thumb screw allows for infinitely variable adjustment within the size range of each model Inner shaft is 1/2" solid square rod Outer shaft is 5/8" square tubing Combination socket bottom casting (see details of casting on page A-10) 	Thumb Screw Operated
---	----------------------------

Length Range	😢 Item №	Weight
4'6" through 8'	367-4370	4.00 lbs.
6' through 10'	367-4371	10.00 lbs.

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



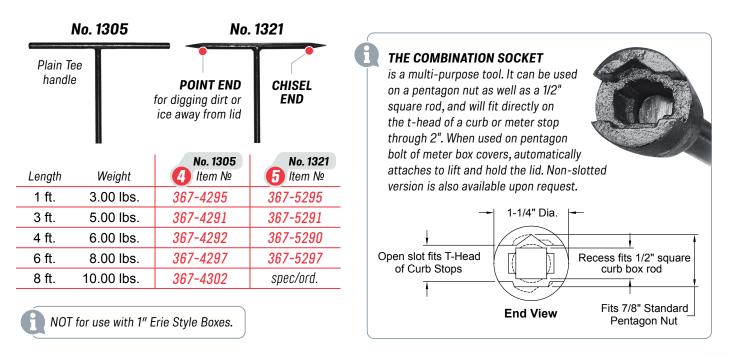
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Curb Wrenches and Keys, Continued

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

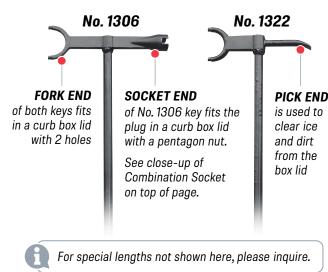
Made of 5/8" round carbon steel with cast steel combo casting.



No.1306 and No.1322 Curb Box Keys

For ERIE & MINNEAPOLIS Type Boxes

Made of 5/8" carbon steel.



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



Length	Weight	Plain Handle	No. 1306 6 Item №	No. 1322 7 Item №
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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ILLUMINATES THE INSIDE OF CURB OR VALVE BOX.

GHTED 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.



LIGHT IS RECESSED TO PROTECT FROM DAMAGE



SIMPLE BUTTON-OPERATED LIGHT SWITCH.

Designed to be waterresistant and shock-proof. LED bulb rated for 100,000 hours. Uses AAAA batteries which can be easily replaced in the field.

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.

Length	ltem №	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

ALVE & CURP

• Handles and shafts fabricated from 3/4" Sch 40 steel pipe.

RUMBULL

- 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).

Length	ltem №	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-0 Our Classic Original Model

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 hammer and pick ends assist in breaking ice and clearing debris. A square shank is provided on the socket for applying extra torque.

ltem №	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.



Model HK-1

Fits standard pentagon heads. Slot in socket operates T-heads of curb and meter stops. 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.

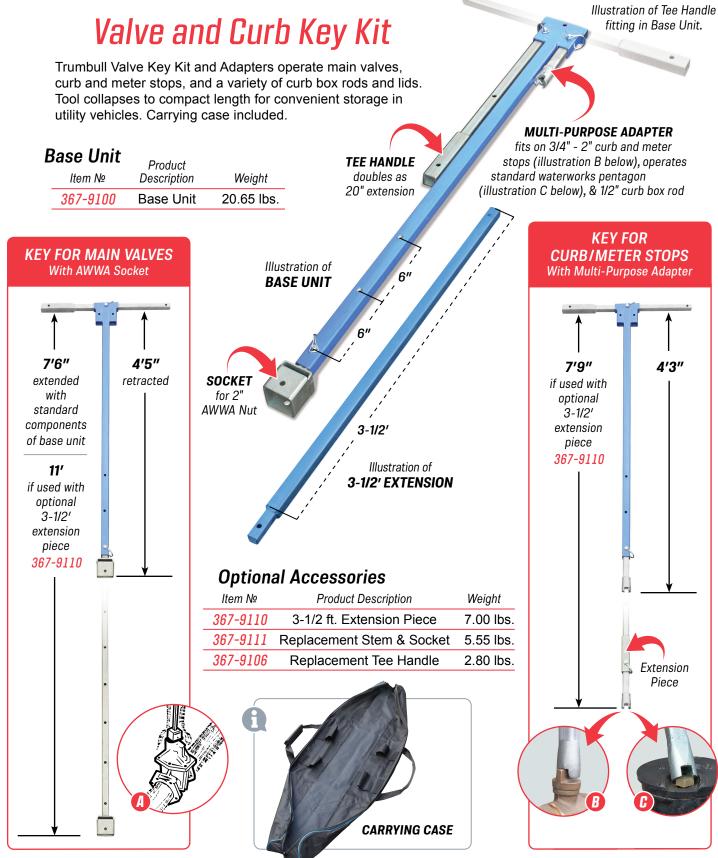




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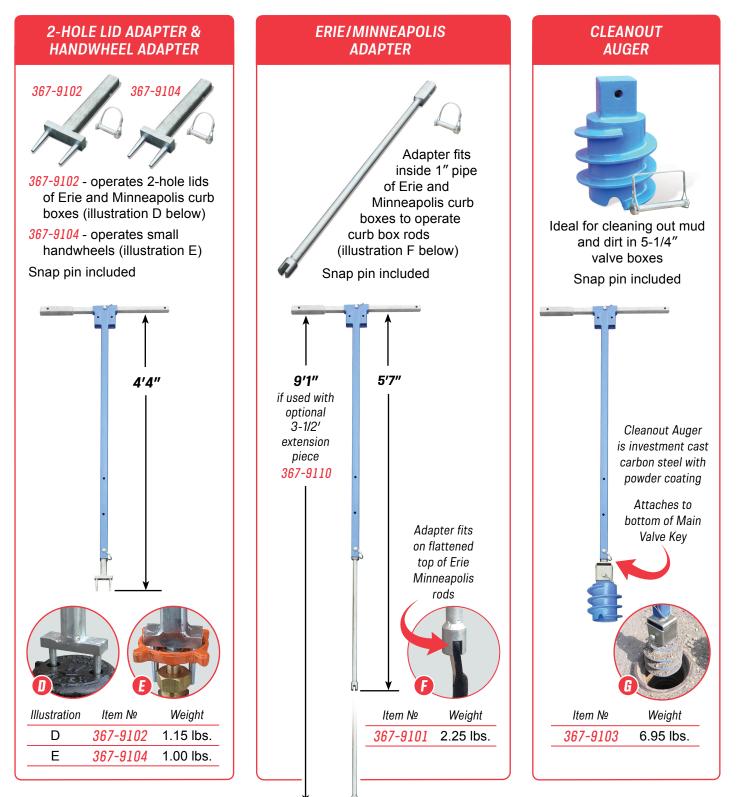
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Valve and Curb Key Kit, Optional Accessories





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Soil Probe Rods

Used for Locating Buried Lines – Insulated and Uninsulated Types



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.



	Insulate	ed Type			Uninsula	ted Types		
Overall	Rubber	Handle	Carbon St	eel "Plus"	Stainless S	teel "Plus"	Economy	/ Туре
Length	Item №	Weight	ltem №	Weight	Item №	Weight	ltem №	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 Rods367-90950.05 lbs.Stainless Tip - for SS & CS Uninsulated Type Probe Rods367-90970.10 lbs.Grips - for SS & CS Uninsulated Type Probe Rods (2-pack)367-90960.10 lbs.



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KnuckleSAVER™3-*im*-1 Flaring Tools

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

> PRESSURE RELIEF HOLE

DRILLED END

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

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

Shutoff Tool For Polyethylene Water Tubing





LATCH KEEPS TOOL CLOSED DURING SHUTOFF AND IS EASILY UN-LATCHED WHEN FINISHED.

3-in-1 Flaring Tools ...

- 1 FLARES Type K copper
- 2 RE-ROUNDS kinked or bent copper
- 3 **RELIEVES** pressure when used under pressure

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.

ltem №	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.

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. 17-7/8" overall length.

Shutoff Tool

Item № 368-9040 2

040 2.90 lbs.

Weight

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

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Apply torque through gripping jaw. Meter Wrench Slide wrench against smooth **INVESTMENT** anvil jaw to re-position **STEEL CASTING** for quick action. EDP Coating Trumbull's Meter Wrench is used to install and remove meter Anvil Jaw SLIP-RESISTANT couplings in buried meter boxes Gripping Jaw **RESILIENT GRIP** and meter pits. The 16" handle allows worker easy access into Replacement these confined areas. STEEL TUBING Jaw Set EDP Coating Works with 1/2" through 1-1/2" Includes set of jaws Meter Wrench meter couplings. Special and screws features include resilient Item № Weight HEAT TREATED Item № Weight grip on handle and **TOOL STEEL JAWS** 368-0620 2.50 lbs. 368-0625 0.35 lbs. replaceable jaws. Bright Zinc Plating

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'' and 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', and 8' lengths. Replacement jaw kits can easily be installed in the field. 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

Valve and Curb Box Cleaners

	Standard Jaws Sc		Scoop	o Jaws
Length	Item №	Weight	Item №	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.

requiring the tool to be removed from the box & adjusted back

TRUMBULL JAW DESIGN

prevents over-opening and disengagement

COMPETITIVE MODEL

into place

can "over-open" and

become disengaged,

Jaw Replacement Kits

Includes 2 jaws and 2 pins

SCOOP JAWS are designed to remove

large amounts of debris, sand and mud

ltem №	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.



Distance Measuring Wheel

Includes Storage Bag

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.





R I S E R

Trumbull Manufacturing

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 Phone:
 Toll Free:
 Fax:

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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.

VALVE BOX	
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.	

"Rite-Hite" Paving Adapters, Valve Box Lids and Locking Valve Box Lids also available.

Item №	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.

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.



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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.

ltem №	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.

Item №	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

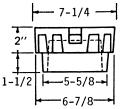


Locking Valve Box Lid

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.

 Item №	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.

ltem №	Lettering	Weight
367-5244	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, Contact Us for More Details.





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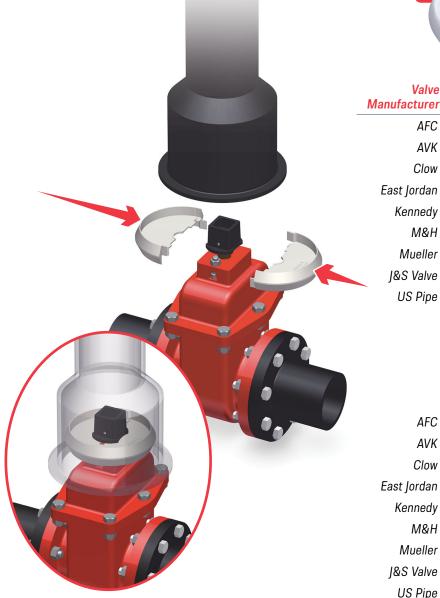
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Valve Box Alignment Device

- 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		Order model requue using the charts l	
ərin	Model	Item №	Weight
lg l	No. 1	367-4850	0.30 lbs.
Ins	No. 2	367-4851	0.40 lbs.
tru	No. 3	530-450-00790	0.30 lbs.
Icti	No. 4	530-150-00100	0.30 lbs.
ions			

7. Quantity required.



K3

K3

K3

K3

K3

K3



BROKEN

LUG

Trumbull Manufacturing 3850 Hendricks Road, Youngstown, Ohio 44515

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Curb Box Repair Lids

Available in Inside Type and Outside Type Models

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.

Tamper-Resistant Screw Type Repair Lids

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.

Inside Repair Lids New Style (T-373)





BROKEN

TOP

ltem №	Model	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.

F Requires Lock Key 367-4403 to operate.

LOST

LID



	de Rep Ile (T-374		Is Installation	
ltem №	Model	Size	Screw Type	Weight
367-4282	T-374	2-1/2″	Brass Pentagon	2.30 lbs.
367-4401	T-374	2-1/2″	Tamper-Resistant*	2.30 lbs.
367-4283	T-375	3″	Brass Pentagon	3.45 lbs.
367-4402	T-375	3″	Tamper-Resistant*	3.45 lbs.
* D		07 4400	(-h	

* Requires Lock Key 367-4403 (shown on left) to operate.



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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.

Service Box Extensions for 1" Curb Boxes

Length	ltem №	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.

Service Box Extensions for 1-1/4" Curb Boxes

Length	ltem №	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 stainless steel insert.

Size Curb Box	ltem №	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".

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

	Domestic	Non- Domestic
Description	ltem №	Item №
Tie Lug	364-3395	364-9035





TIE-LUGS AND TIE-BOLTS ARE USED IN CONJUNCTION WITH SOCKET CLAMPS.





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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 Si					
Socket Cl	Size*	S Bolt Size	Stock Size	Pipe OD**	Woight
<u>364-3401</u>	3120	5/8" x 3"	3/8" x 2"	3.96	Weight 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

			-	Pipe	
ltem №	Size*	Bolt Size	Stock Size	0D**	Weight
803-3401	3″	5/8" x 3"	3/8" x 2"	3.96	5.75 lbs.
803-3402	4″	5/8" x 3"	1/2″ x 2″	4.80	7.25 lbs.
803-3403	6″	5/8" x 3"	1/2″ x 2″	6.90	8.90 lbs.
803-3404	8″	5/8" x 3"	1/2″ x 2″	9.05	10.85 lbs.
803-3405	10″	5/8" x 3"	1/2″ x 2″	11.10	12.65 lbs.
803-3406	12″	5/8" x 3-1/2"	1/2″ x 2″	13.20	14.35 lbs.

* 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.



No.585 Washers • For 3" - 12" Socket Clamps Usage for 3/4" rod • Two washers are required for each Socket Clamp Bore Item № Material Size Weight 364-9000 CS 1″ 0.80 lbs. 803-9000 SS 1″ 0.80 lbs.



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Flange Lugs

Used to Prevent Separation of Plain-End Piping Components



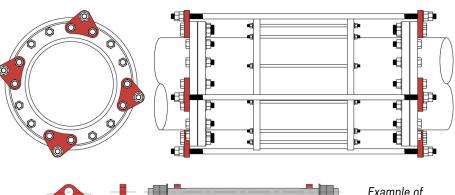
Also known in the field as "Thrust Plates", "Harness Lugs" or "Gusset Plates". They are installed on the back sides of ANSI Class 125 B16.1 and Class 150 B16.5 flanges to allow tie rods to span across an unrestrained piping component.

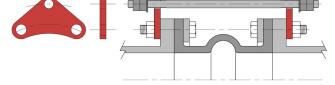
Trumbull flange lugs are also used with rubber expansion joints to limit their expansion. Uncontrolled expansion can lead to failure of rubber expansion joints.

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 red oxide primer coating; other coatings and finishes are available upon request. Flange Lugs for Class 250 / 300 are available upon request.



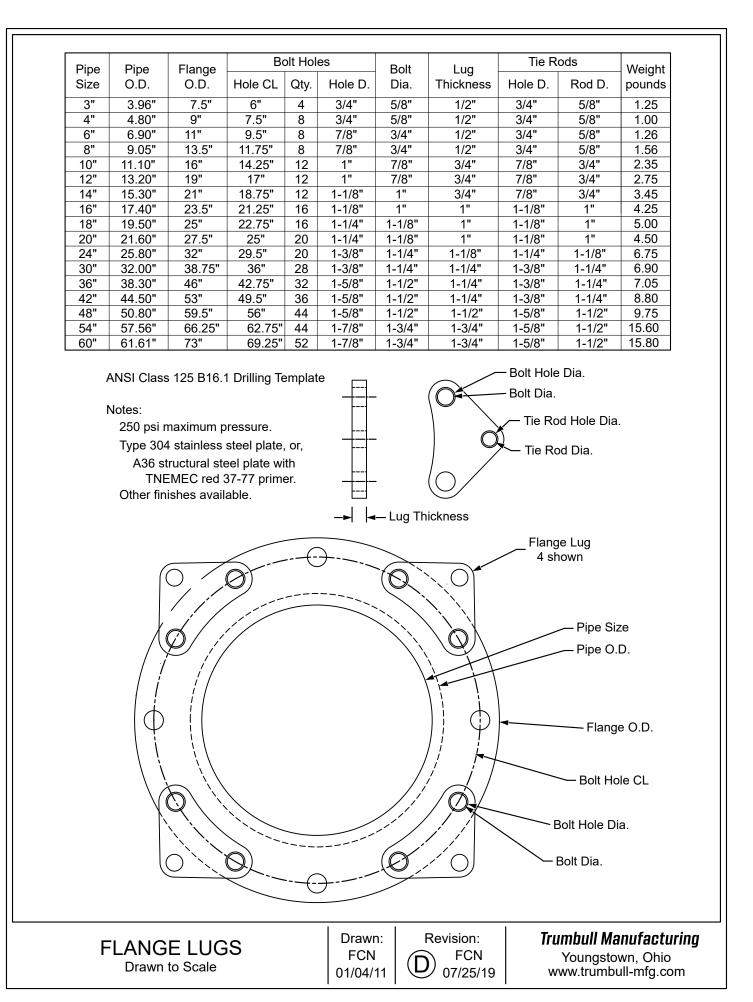


Example of Flange Lug use with flexible coupling.

Carbon Steel	304SS	316SS	Flange	Plate	Tie-Rod	
Item №	ltem №	Item №	Size	Thickness	Size	Weight
364-4103	364-4123		3″	1/2″	5/8″	1.15 lbs.
364-4104	364-4124	500-875-00005	4″	1/2″	5/8″	1.00 lbs.
364-4106	364-4126	500-875-00018	6″	1/2″	5/8″	1.26 lbs.
364-4107	364-4127	500-875-00015	8″	1/2″	5/8″	1.56 lbs.
364-4108	364-4128	500-875-00021	10″	3/4″	3/4″	2.35 lbs.
364-4109	364-4129	500-875-00025	12″	3/4″	3/4″	2.75 lbs.
364-4110	364-4130	500-875-00027	14″	3/4″	3/4″	3.45 lbs.
364-4111	364-4131	500-875-00030	16″	1″	1″	4.25 lbs.
364-4112	364-4132	500-875-00033	18″	1″	1″	5.00 lbs.
364-4113	364-4133	500-875-00035	20″	1″	1″	4.50 lbs.
364-4114	364-4134	500-875-00037	24″	1-1/8″	1-1/8″	6.75 lbs.
364-4115	364-4135	500-875-00039	30″	1-1/8″	1-1/4″	6.90 lbs.
364-4116	spec/ord.	500-875-00040	36″	1-1/4″	1-1/4″	7.05 lbs.
364-4117	spec/ord.	spec/ord.	42″	1-1/4″	1-1/4″	8.80 lbs.
364-4118	spec/ord.	500-875-00042	48″	1-1/2″	1-1/2″	9.75 lbs.
364-4119	spec/ord.	spec/ord.	54″	1-3/4″	1-1/2″	15.60 lbs.
364-4120	spec/ord.	spec/ord.	60″	1-3/4″	1-1/2″	15.80 lbs.



The total number of Flange Lugs required should be determined by the project Engineer, or the expansion joint manufacturer.





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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.



Tape Rolls Per 1,000'

			CONTINUOUS			PERFORATED every 20 FT. PERFORATED every 22 FT.										
	Layflat	Weight	BLACK	BLUE Water	GREEN Sewer	LAVENDER Reclaimed Water	Roll	BLACK	BLUE Water	Roll	BLACK	BLUE Water	GREEN Sewer	PURPLE Reclaimed Water	Roll	
Pipe Size	Width	lbs./ft.	Item №	ltem №	ltem №	ltem №**	Length	ltem №	ltem №	Length	ltem №	ltem №	ltem №	ltem №**	Length	
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	388-8343	300 ft.	388-9961	388-8361	388-8461	388-8020	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	spec/ord.*	300 ft.	388-9962	388-8362	spec/ord.*	388-8021	308 ft.	4
14″-16″	34″	0.225	388-9996	388-8715	388-8765	388-8815	300 ft.	388-9955	spec/ord.*	300 ft.	388-9966	388-8366	388-8466	388-8022	308 ft.	6
16″-18″	37″	0.237	spec/ord.*	spec/ord.*			300 ft.			300 ft.	388-9967	spec/ord.*			308 ft.	7
18″-20″	41″	0.271	388-9998	388-8717	388-8767	388-8817	300 ft.	388-9957	spec/ord.*	300 ft.	388-9969	spec/ord.*	spec/ord.*	388-8023	308 ft.	7
24″	54″	0.358	388-9999	388-8720	388-8770	388-8820	150 ft.	388-9958	spec/ord.*	160 ft.	388-9970	spec/ord.*	388-8470	388-8024	154 ft.	8
30″	67″	0.444	388-9985	388-8780	388-8772	388-8825	150 ft.	spec/ord.*	spec/ord.*	160 ft.	388-9972	spec/ord.*	388-8472	spec/ord.*	154 ft.	10
36″-42″	81″	0.536	388-9986	388-8723	 	388-8828	150 ft.	388-9960	spec/ord.*	160 ft.	388-9974	spec/ord.*	388-8474	388-8026	154 ft.	15
48″	95″	0.629	388-9980				150 ft.			160 ft.	388-9975				154 ft.	17
54″-60″	108″	0.715	388-9982				150 ft.			160 ft.	388-9977				154 ft.	20
64″	121″	0.801	388-9984	 			150 ft.			160 ft.					154 ft.	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.

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

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

Page D-1

TRUMBULL

Trumbull Manufacturing

3850 Hendricks Road, Youngstown, Ohio 44515

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

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V-Bio® Enhanced Polyethylene Encasement



V-Bio[®] Polvethylene 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® 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.

V-Bio® is a registered trademark of the Ductile Iron Pipe Research Association.

White V-Bio[®] Enhanced PE Encasement

Pipe Size	Layflat Width	Perf'd Every	ltem №	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!"
---------------	-----	----------	--------

Blue V-B	io® Er	nhanced	d PE Encaseme	nt
Pipe Size	Layflat Width	Perf'd Every	Item №	Roll Length
3″-8″	20″	22 ft.	625-150-00305	484 ft.
10″-12″	27″	22 ft.	625-150-00310	374 ft.
16″	34″	22 ft.	625-150-00315	308 ft.
18″-20″	41″	22 ft.	625-150-00320	264 ft.
24″	54″	22 ft.	625-150-00325	198 ft.
30″	67″	22 ft.	625-150-00330	154 ft.
36"-42"	81″	22 ft.	625-150-00335	132 ft.
48″	95″	22 ft.	625-150-00340	110 ft.
54" - 60"	108″	22 ft.	625-150-00300	110 ft.

Green V-Bio[®] Enhanced PE Encasement

Pipe Size	Layflat Width	Perf'd Every	ltem №	Roll Length
3"-8"	20″	22 ft.	625-150-00350	484 ft.
10″-12″	27″	22 ft.	625-150-00355	374 ft.
16″	34″	22 ft.	625-150-00360	308 ft.
18″-20″	41″	22 ft.	625-150-00365	264 ft.
24″	54″	22 ft.	625-150-00370	198 ft.
30″	67″	22 ft.	625-150-00375	154 ft.
36″-42″	81″	22 ft.	625-150-00380	132 ft.
48″	95″	22 ft.	625-150-00385	110 ft.
54″ - 60″	108″	22 ft.	625-150-00345	110 ft.

Lavender V-Bio[®] Enhanced PE Encasement

Pipe Size	Layflat Width	Perf'd Every	ltem №	Roll Length
3"-8"	20″	22 ft.	625-150-00395	484 ft.
10″-12″	27″	22 ft.	625-150-00400	374 ft.
16″	34″	22 ft.	625-150-00405	308 ft.
18″-20″	41″	22 ft.	625-150-00410	264 ft.
24″	54″	22 ft.	625-150-00415	198 ft.
30″	67″	22 ft.	625-150-00420	154 ft.
36″-42″	81″	22 ft.	625-150-00425	132 ft.
48″	95″	22 ft.	625-150-00430	110 ft.
54″ - 60″	108″	22 ft.	625-150-00390	110 ft.

For continuous or perforated every 20', please inquire.

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Other Polywrap and Polywrap Tape

Clear Polywrap 12 Mil						
Pipe Size	Layflat Width	Perf'd Every	ltem №	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	ltem №	Roll Length
4″	12″	12 ft.	364-9941	408 ft.

αμ ιαμε	UMBULL TICHAN 364-9975 10MIL PVC	P
no tra	at the	
"Von I for	Tane!"	
"Don't for Polywrap	(apc,	

MULTIPURPOSE PVC TAPE: IAPMO/UPCcertified for AWWA & plumbing applications.Item № Roll SizeThicknessWeight364-99752" x 100'10 mil1.00 lbs.

	DIRPOS	E PE TAPE:	blue in colo	
IFNERAL	FOR CO			

ULINEIRAL I OF	Roll Size	Thickness	Weight
Item №	2" x 108'	9 mil	1.00 lbs.
364-9976	2 x 100		

Zinc Anode Caps

Sacrificial Zinc Anodes





Zinc Anode Caps

Typical Installation

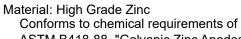
	2.5 oz.	6 oz.
Description	ltem №	Item №
5/8"-11, N.C.		364-1008
3/4"-10, N.C.		364-1010
7/8"-9, N.C.	364-1004	spec/ord.
1″-8, N.C.	364-1006	364-1012

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.

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

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

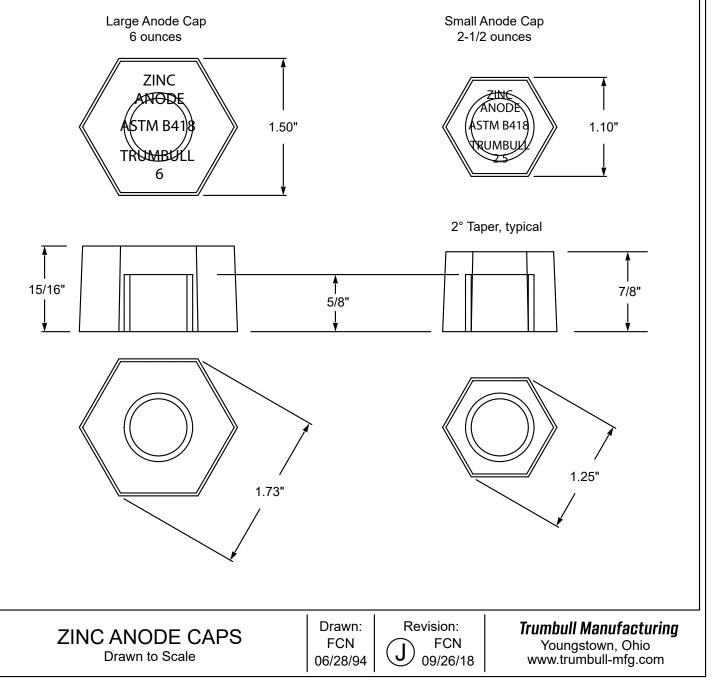
These threaded hex head caps, when secured to a bolt or stud, become the sacrificial anode, corroding, while the remaining metal parts are protected. This corrosion protection continues until Zinc is consumed.



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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1,000 ft Roll Detectable Warning Tapes

Used for Locating Non-Metallic Pipes Buried Underground

- Tape consists of an aluminum core encased in plastic
- 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

Detectable Warning Tapes - 1,000 ft Rolls

GAS LINE

EBURIFN WA

	2″ x 1,000′	3″ x 1,000′	4″ x 1,000′	6″ x 1,000′	12" x 1,000'
Color and Marking	ltem №	Item №	Item №	Item №	Item №
POTABLE WATER	100-600-00005	100-600-00075	100-600-00185		
WATER LINE	100-600-00010	100-600-00090	100-600-00190	100-600-00210	100-600-00295
RAW WATER		100-600-00085			
RESTRAINT JOINT WATER		100-600-00165			
IRRIGATION WATER		100-600-00080			
IRRIGATION LINE				100-600-00205	
FORCE MAIN LINE	100-600-00015	100-600-00095	100-600-00195	100-600-00215	100-600-00300
SEWER LINE	100-600-00020	100-600-00105	100-600-00200	100-600-00225	100-600-00310
STORM DRAIN	100-600-00025	100-600-00110		100-600-00230	100-600-00305
IRRIGATION LINE	100-600-00060	100-600-00100		100-600-00220	
WATER LINE				100-600-00260	
FIBER OPTIC	100-600-00030	100-600-00115		100-600-00235	
TELEPHONE LINE	100-600-00035	100-600-00120		100-600-00265	
IRRIGATION LINE	100-600-00040				
RESTRAINT JOINT WATER	100-600-00065				
RECYLED/RECLAIMED WATER	100-600-00045	100-600-00130		100-600-00240	100-600-00315
WATER LINE				100-600-00270	
NON-POTABLE WATER		100-600-00125			
LAND DRAIN		100-600-00155			
ELECTRICAL LINE	100-600-00050	100-600-00135		100-600-00245	
FIRE LINE	100-600-00070	100-600-00140		100-600-00250	
RAW WATER		100-600-00145		100-600-00280	
RESTRAINT JOINT WATER				100-600-00285	
CAUTION				100-600-00275	
GAS LINE	100-600-00055	100-600-00150		100-600-00255	
RESTRAINT JOINT WATER		100-600-00160			
CAUTION		100-600-00175		100-600-00290	
FORCE MAIN LINE		100-600-00170			

Other lengths of Detectable Warning Tapes are shown on the following page ...



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Detectable Warning Tapes - Other Lengths

Detectable Warning Tapes – Other Lengths

	3″ x 300′	3″ x 500′	6″ x 100′	6″ x 300′	6″ x 500′
Color and Marking	Item №				
WATER LINE	100-600-00320			100-600-00340	
SEWER LINE			100-600-00330	100-600-00345	
CAUTION					100-600-00350
DANGER		100-600-00325			
RESTRAINT JOINT WATER			100-600-00335		

Non-Detectable Warning Tapes

Used for Identifying Buried Pipes when Digging

Non-Detectable Warning Tapes – 1,000 ft Rolls



	2″ x 1,000′	3″ x 1,000′	4″ x 1,000′	6″ x 1,000′	12″ x 1,000′
Color and Marking	Item №	Item №	ltem №	Item №	Item №
POTABLE WATER	100-625-00005	100-625-00070			
WATER LINE	100-625-00010	100-625-00085			
WATER	100-625-00060			100-625-00175	100-625-00235
RAW WATER		100-625-00080			
IRRIGATION WATER		100-625-00075			
IRRIGATION LINE				100-625-00170	
FORCE MAIN LINE	100-625-00015	100-625-00090		100-625-00180	100-625-00240
SEWER LINE	100-625-00020	100-625-00100		100-625-00190	100-625-00250
STORM DRAIN	100-625-00025	100-625-00105		100-625-00195	100-625-00245
IRRIGATION LINE		100-625-00095		100-625-00185	
FIBER OPTIC	100-625-00030	100-625-00110		100-625-00200	
TELEPHONE LINE	100-625-00035	100-625-00115			
IRRIGATION LINE	100-625-00040				
RECYLED/RECLAIMED WATER	100-625-00045	100-625-00125		100-625-00205	100-625-00255
POTABLE WATER		100-625-00150			
NON-POTABLE WATER	100-625-00065	100-625-00120			
DANGER		100-625-00155			
ELECTRICAL LINE	100-625-00050	100-625-00130		100-625-00210	
FIRE LINE		100-625-00135		100-625-00215	
RAW WATER		100-625-00140			
CAUTION				100-625-00230	
STORM DRAIN		100-625-00160			
GAS LINE	100-625-00055	100-625-00145		100-625-00220	
CAUTION		100-625-00165		100-625-00225	



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Mechanical Joint Accessories

T-Head Bolts and Nuts	T		42	T
	Corten	304SS	31655	Blue
Size	Item № 🦷	Item № 🖷	Item №	Item № 📲
5/8″ x 3″	100-510-00010	100-510-00140	100-510-00270	100-510-00400
5/8" x 3-1/2"	100-510-00020	100-510-00150	100-510-00280	100-510-00410
3/4" x 3-1/2"	100-510-00030	100-510-00160	100-510-00290	100-510-00420
3/4" x 4"	100-510-00040	100-510-00170	100-510-00300	100-510-00430
3/4" x 4-1/2"	100-510-00050	100-510-00180	100-510-00310	100-510-00440
3/4" x 5"	100-510-00060	100-510-00190	100-510-00320	100-510-00450
3/4" x 6"	100-510-00070	100-510-00200	100-510-00330	100-510-00460
3/4" x 7"	100-510-00080	100-510-00210	100-510-00340	100-510-00470
3/4" x 9"	100-510-00090	100-510-00220	100-510-00350	100-510-00480
1″ x 6″	100-510-00100	100-510-00230	100-510-00360	100-510-00490
1″ x 6-1/2″	100-510-00110	100-510-00240	100-510-00370	100-510-00500
1-1/4" x 6-1/2"	100-510-00120	100-510-00250	100-510-00380	100-510-00510
1-1/4" x 8-1/2"	100-510-00130	100-510-00260	100-510-00390	100-510-00520

Anti-Rotation —	QUARE NECK			
T-Head Bolts and Nuts	Corten	304SS	316SS	Blue 📕
Size	Item № 📲	Item №	Item №	Item №
5/8″ x 3″	100-510-00530	100-510-00630	100-510-00680	100-510-00580
5/8" x 3-1/2"	100-510-00540	100-510-00640	100-510-00690	100-510-00590
3/4" x 4"	100-510-00550	100-510-00650	100-510-00700	100-510-00600
3/4" x 4-1/2"	100-510-00560	100-510-00660	100-510-00710	100-510-00610
3/4″ x 5″	100-510-00570	100-510-00670	100-510-00720	100-510-00620

Gaskets (NSF Certified)

Size	Item №	
2″	100-435-00010	
3″	100-435-00020	
4″	100-435-00030	
6″	100-435-00040	
8″	100-435-00050	
10″	100-435-00060	
12″	100-435-00070	
14″	100-435-00080	
16″	100-435-00090	
18″	100-435-00100	
20″	100-435-00110	
24"	100-435-00120	



Trumbull Manufacturing

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 Phone:
 Toll Free:
 Fax:

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Mechanical Joint Accessory Packs WITHOUT

	Corten T-Bolts	304SS T-Bolts	316SS T-Bolts	Blue T-Bolts
Size	Item №	Item №	Item №	Item №
3" Standard T-Bolts	100-430-00010	100-430-00120	100-430-00175	100-430-00065
4" Standard T-Bolts	100-430-00015	100-430-00125	100-430-00180	100-430-00070
6" Standard T-Bolts	100-430-00020	100-430-00130	100-430-00185	100-430-00075
8" Standard T-Bolts	100-430-00025	100-430-00135	100-430-00190	100-430-00080
10" Standard T-Bolts	100-430-00030	100-430-00140	100-430-00195	100-430-00085
12" Standard T-Bolts	100-430-00035	100-430-00145	100-430-00200	100-430-00090
14" Standard T-Bolts	100-430-00040	100-430-00150	100-430-00205	100-430-00095
16" Standard T-Bolts	100-430-00045	100-430-00155	100-430-00210	100-430-00100
18" Standard T-Bolts	100-430-00050	100-430-00160	100-430-00215	100-430-00105
20" Standard T-Bolts	100-430-00055	100-430-00165	100-430-00220	100-430-00110
24" Standard T-Bolts	100-430-00060	100-430-00170	100-430-00225	100-430-00115
3" Long T-Bolts	100-430-00230	100-430-00340	100-430-00395	100-430-00285
4" Long T-Bolts	100-430-00235	100-430-00345	100-430-00400	100-430-00290
6" Long T-Bolts	100-430-00240	100-430-00350	100-430-00405	100-430-00295
8" Long T-Bolts	100-430-00245	100-430-00355	100-430-00410	100-430-00300
10" Long T-Bolts	100-430-00250	100-430-00360	100-430-00415	100-430-00305
12" Long T-Bolts	100-430-00255	100-430-00365	100-430-00420	100-430-00310
14" Long T-Bolts	100-430-00260	100-430-00370	100-430-00425	100-430-00315
16" Long T-Bolts	100-430-00265	100-430-00375	100-430-00430	100-430-00320
18" Long T-Bolts	100-430-00270	100-430-00380	100-430-00435	100-430-00325
20" Long T-Bolts	100-430-00275	100-430-00385	100-430-00440	100-430-00330
24" Long T-Bolts	100-430-00280	100-430-00390	100-430-00445	100-430-00335
3" Anti-Rotation T-Bolts	100-430-00450	100-430-00560	100-430-00615	100-430-00505
4" Anti-Rotation T-Bolts	100-430-00455	100-430-00565	100-430-00620	100-430-00510
6" Anti-Rotation T-Bolts	100-430-00460	100-430-00570	100-430-00625	100-430-00515
8" Anti-Rotation T-Bolts	100-430-00465	100-430-00575	100-430-00630	100-430-00520
10" Anti-Rotation T-Bolts	100-430-00470	100-430-00580	100-430-00635	100-430-00525
12" Anti-Rotation T-Bolts	100-430-00475	100-430-00585	100-430-00640	100-430-00530
14" Anti-Rotation T-Bolts	100-430-00480	100-430-00590	100-430-00645	100-430-00535
16" Anti-Rotation T-Bolts	100-430-00485	100-430-00595	100-430-00650	100-430-00540
18" Anti-Rotation T-Bolts	100-430-00490	100-430-00600	100-430-00655	100-430-00545
20" Anti-Rotation T-Bolts	100-430-00495	100-430-00605	100-430-00660	100-430-00550
24" Anti-Rotation T-Bolts	100-430-00500	100-430-00610	100-430-00665	100-430-00555



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

Radio-Friendly.



Amazingly Strong. Surprisingly Light.™





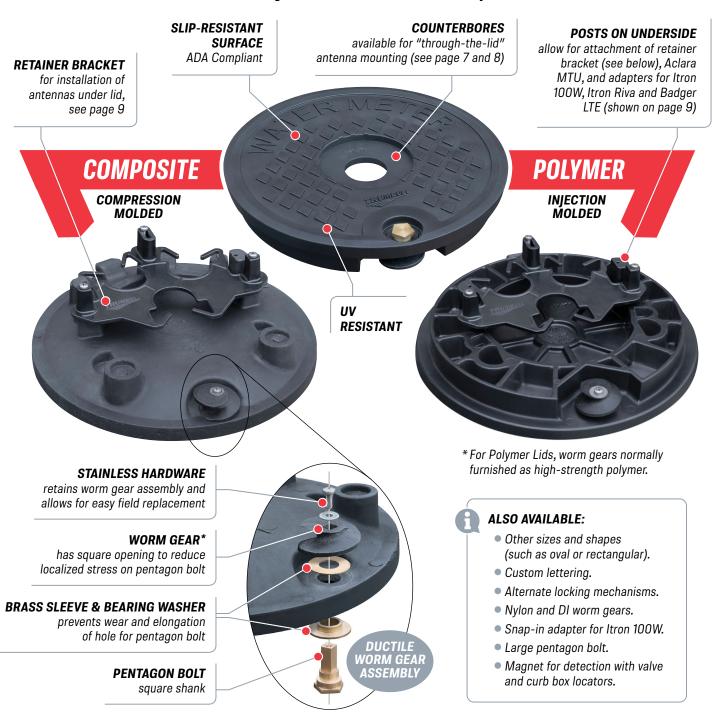




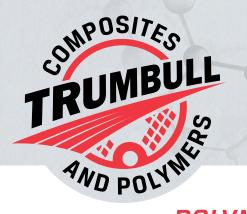
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COMPOSITE and POLYMER Meter Box Lids

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.



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

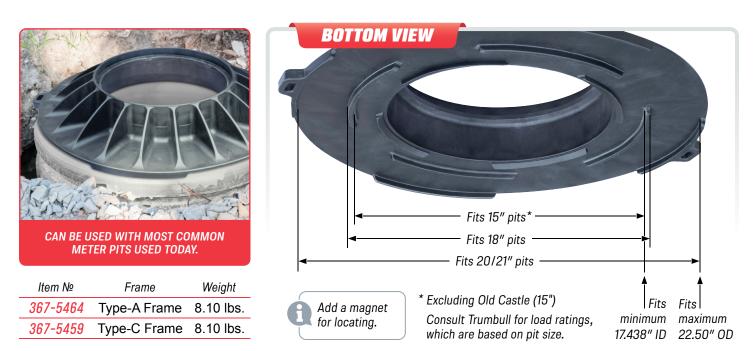
accepts all Trumbull 12-5/8" OD Type-C overlapping style lids, even those with counterbores for antenna mounting

GUSSET DESIGN

TYPE-A FRAME

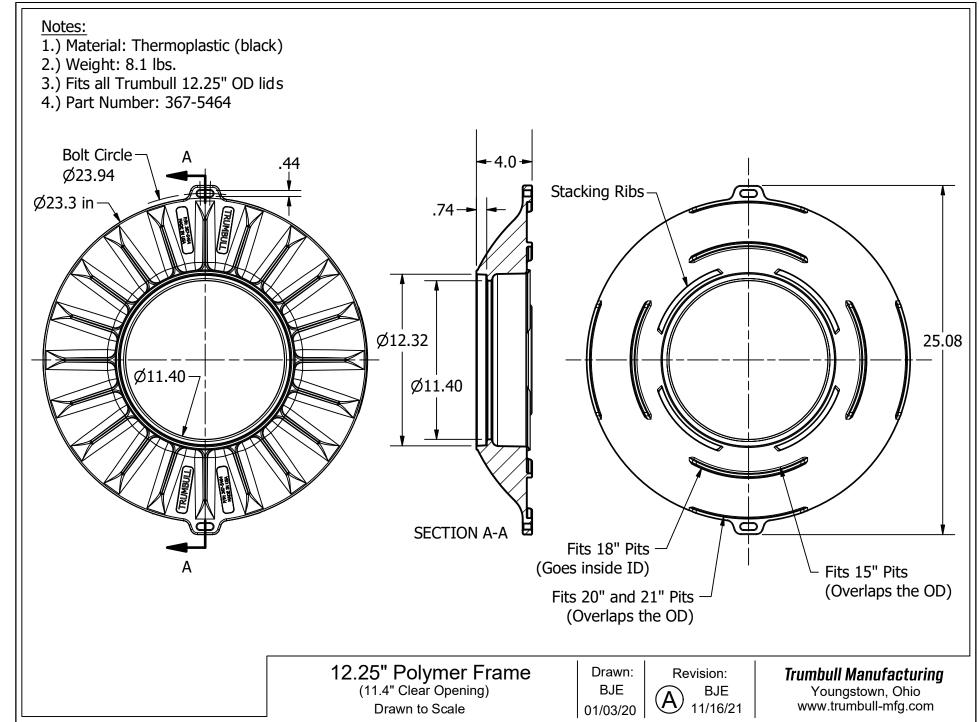
has strength that is greater than most cast iron frames

REBAR TABS accept rebar sizes up to 3/8"



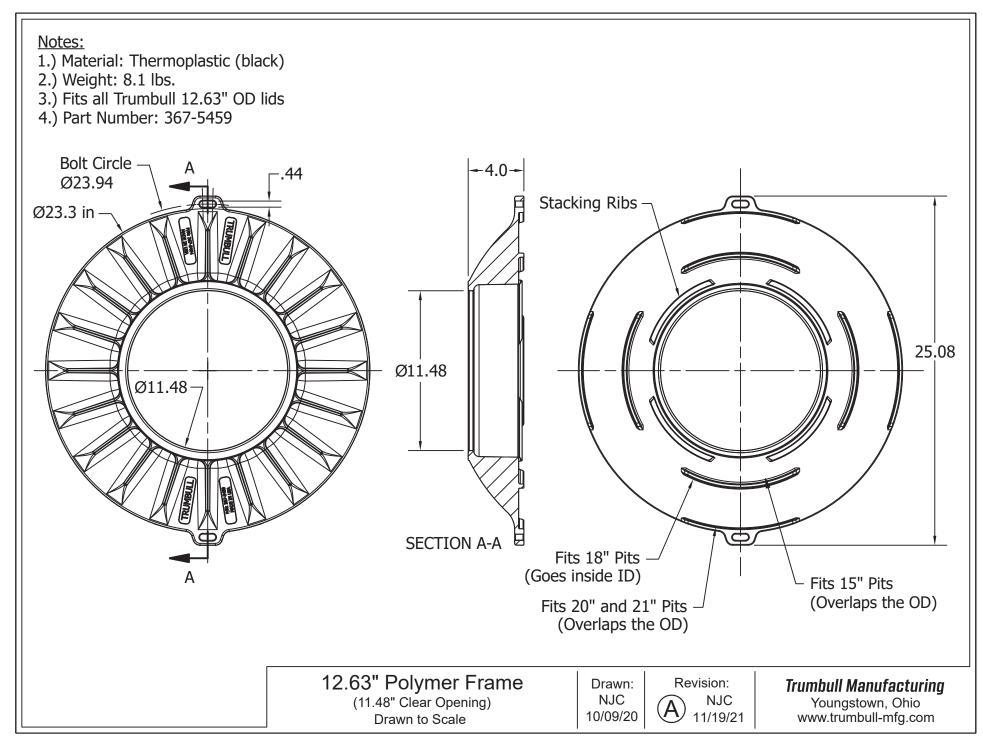
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 3850 Hendricks Road, Youngstown, Ohio 44515

 Phone:
 Toll Free:
 Fax:

 330.270.7888
 877.504.1507
 330.392.0756

 www.trumbull-mfg.com

COMPOSITE Manhole Lids for Large Meter Settings

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

Custom lettering and graphics available.

COMPOSITE Lids for Coiled Pit Setters

Worm gears on pit lids typically engage the shelf of an iron frame that covers the entire circumference of the frame. However, coiled pit setters use two brackets that must be engaged to lock the lid in place. Trumbull Lids are designed with cutouts to clear the brackets of Pit Setters. Available with ductile iron or UHMWPE worm gears.



•

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

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

ALIGNMENT MARKS

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

US Patent No. 9,350,148

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



COUNTERBORES FOR THROUGH-THE-LID ANTENNA MOUNTING



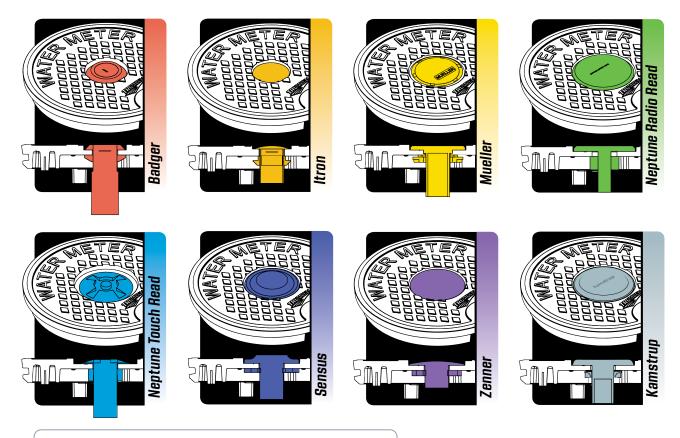
COUNTERBORE OPTIONS

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

Solution:

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





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.



NEPTUNE COUNTERBORES

Easy Transition of Neptune Antennas

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



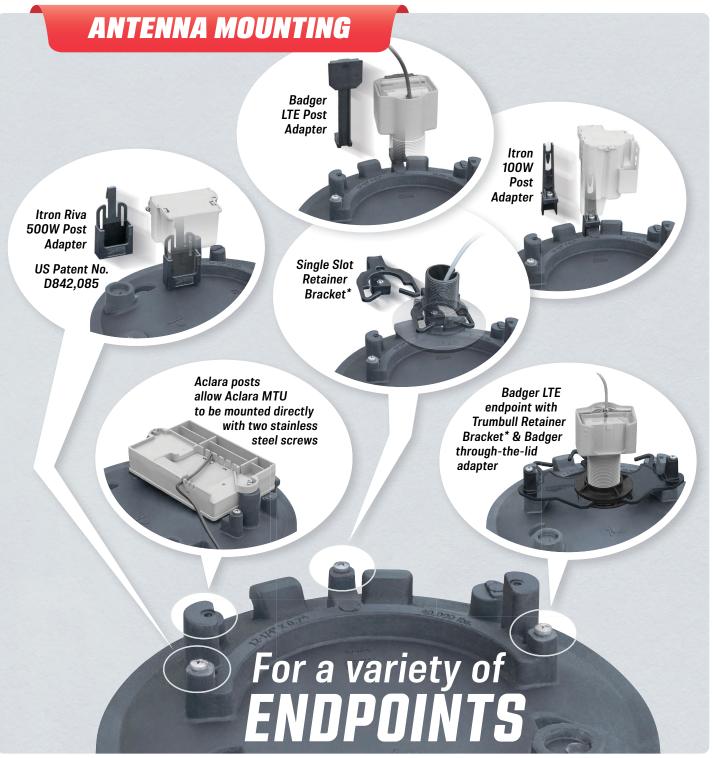
BLUE COLOR LIDS

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



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





* 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.



www.trumbull-mfg.com



Fabricated Reducing Rings

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



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



Composite Oval Remote Antenna Box

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



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.



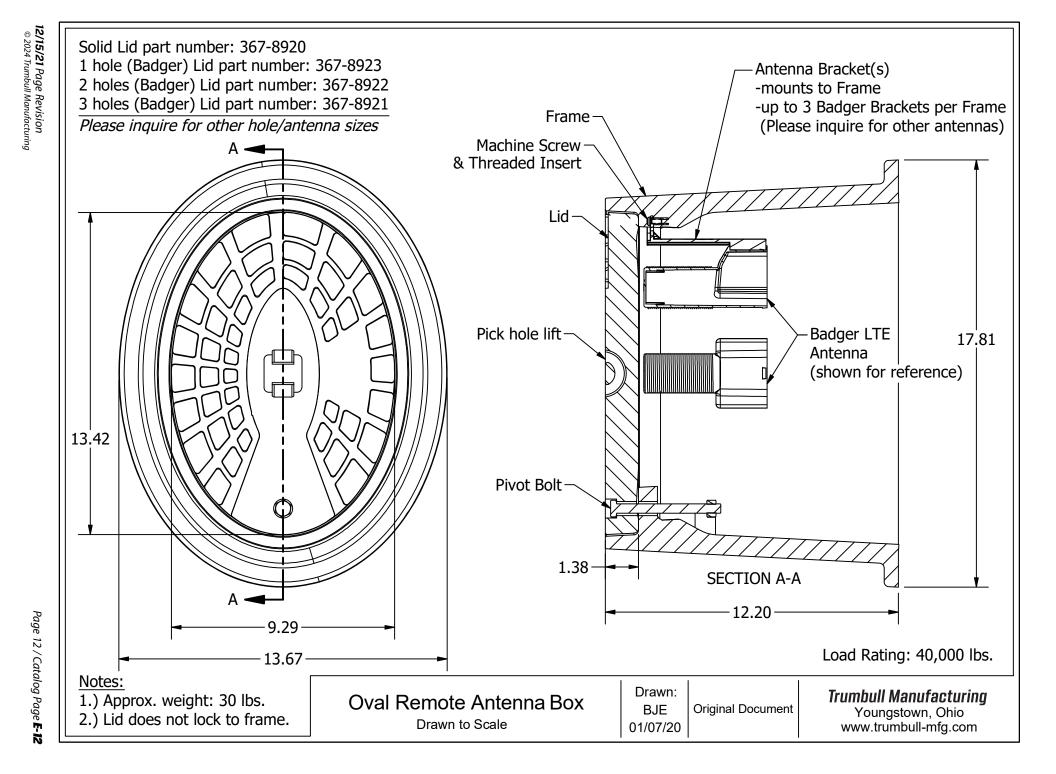
LID IS ATTACHED TO BOX WITH A NON-LOCKING PIVOT BOLT.



LID CLOSES FLUSH WITH TOP EDGE OF BOX.



ltem №	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.





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

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

Single Slot

Yokebox Lids Accessories



	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.				

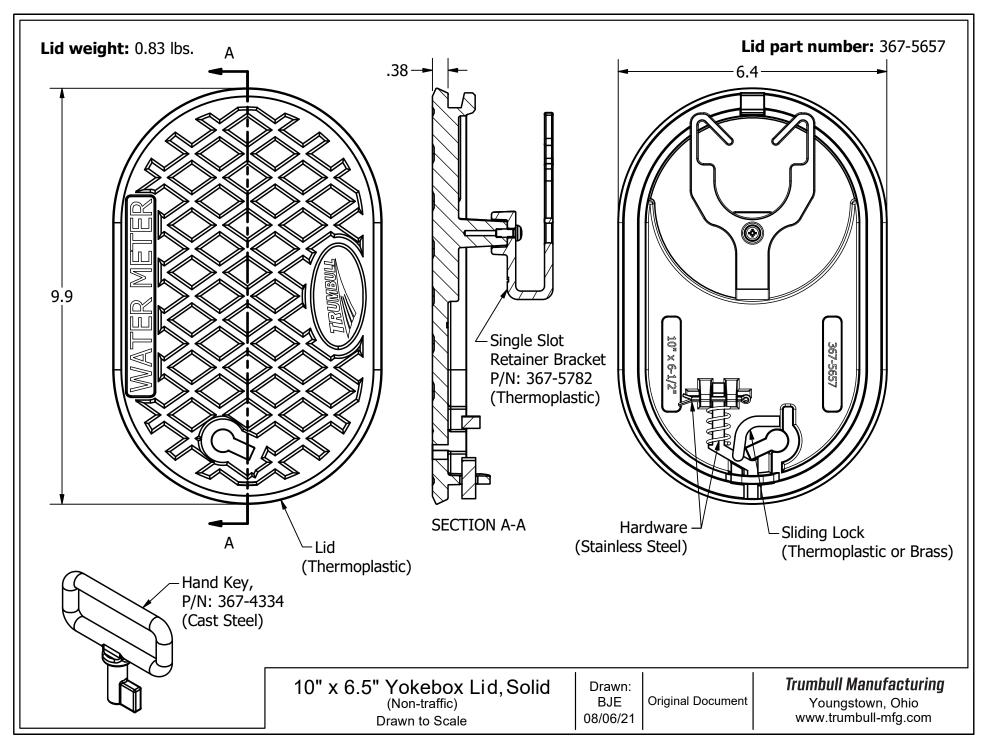
SINGLE SLOT RETAINER BRACKET (FOR SOLID LIDS)

BADGER	×	\checkmark	\checkmark
ITRON RIVA 500W	×	\checkmark	\checkmark
ITRON 100W	×	×	\checkmark
MUELLER	×	×	×
SENSUS	×	×	\checkmark
NEPTUNE	×	\checkmark	\checkmark
KAMSTRUP	×	\checkmark	\checkmark

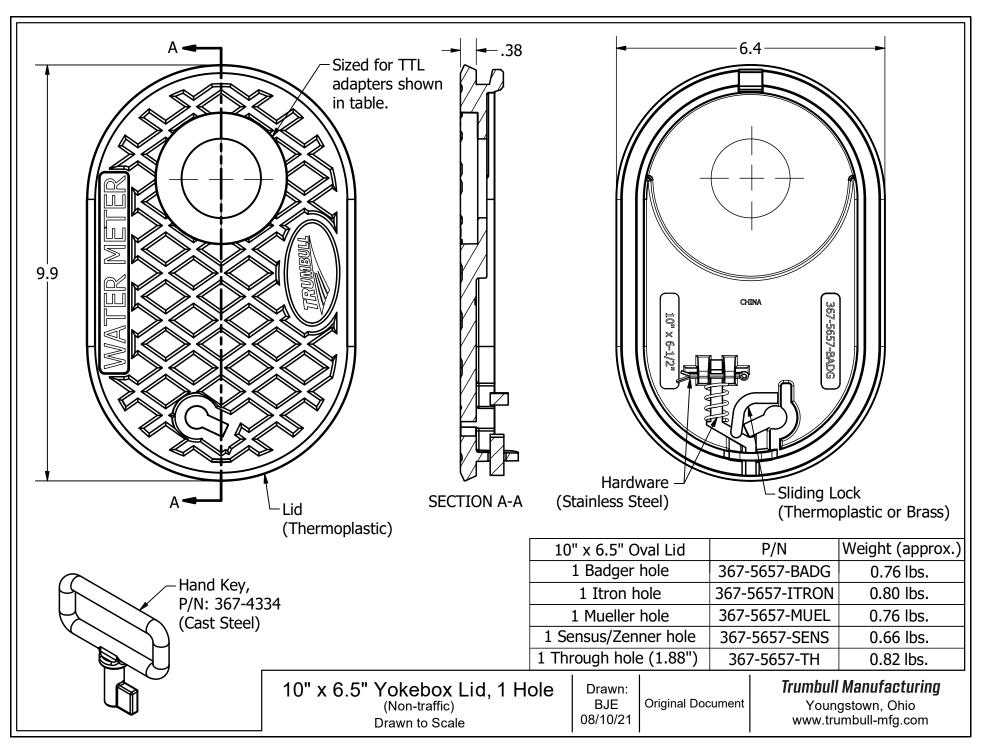
POST ADAPTER (FOR SOLID LIDS)

BADGER	×	\checkmark	\checkmark
ITRON RIVA 500W	×	\checkmark	\checkmark
ITRON 100W	×	×	\checkmark











3850 Hendricks Road, Youngstown, Ohio 44515 Phone: Toll Free: Fax: 330.270.7888 877.504.1507 330.392.0756 www.trumbull-mfg.com

METER PIT INSULATING DISCS

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

For larger sizes not shown, please inquire

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

RELATED PRODUCT

Ductile Iron Meter Box Cover

Accepts All Trumbull 12-1/4" OD Lids

Trumbull double lid Meter Box Covers provide both physical and frost protection for underground meters. The insulating air space captured in the ductile iron base casting, between the lid and the plastic frost liner, helps keep the ground heat inside the meter chamber to reduce the chance of freezing. The internal plastic frost liner is molded with a central hub to permit easy removal.

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

ltem №	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

"SANITARY SEWER"

"WATER METER"

Other____

LOAD RATING REQUIRED

Heavy Duty AASHTO M306, H-20; 40,000 lbs.

Medium Duty; 20,000 lbs.

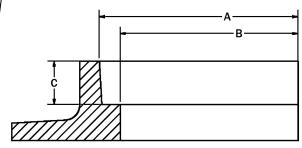
Light Duty; 5,000 lbs.

AMI/AMR Antenna & Leak Detection Mounting

Bracket mounting on underside

Through-the-lid, flush with grade

Mfg & model of endpoint ____

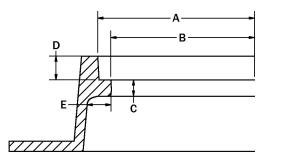


Straight Wall ID Style

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"

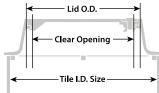
OUR 20,000 LB. LIDS HAVE NOMINAL LOAD RATINGS:

Based on past load tests of specific sizes and lid configurations. When test reports are required, please inquire at the time of quote, stating the test load required and if lids will be solid or have a specific antenna counterbore. A separate testing charge may apply. **PENTAGON BOLTS:** Water meter lids are normally furnished with standard (27/32") brass pentagon bolt, but are also available with large (1-1/32") brass pentagon bolt. Not furnished on drop-in style lids.

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

LETTERING: Lids normally furnished marked "WATER METER", special lettering available. **RECESSES:** All lids with antenna recesses have thru hole diameter of 1.88".

BEARING WASHERS: Polymer lids have UHMWPE bearing washers above and below lid. Composite Lids include a brass bearing washer below the lid and brass flanged sleeve (protects hole from elongation) above the lid. Not furnished on drop-in style lids. **ADDITIONAL NOTES:** Explanations for asterisk (*) and (*) points shown on page 46.



	S, LOAD RATINGS, D MATERIALS	FITS FRAME TYPES	SOLID LID No Antenna Recess	BADGER Antenna Recess Ø 3.13" x 0.41" dp	ITRON 60W, 100W, RIVA Antenna Recess Ø 2.84" x 0.26" dp	KAMSTRUP Antenna Recess Ø 5.06" x 0.50" dp	MUELLER Antenna Recess Ø 3.36" x 0.33" dp	NEPTUNE (FIGURE 8) Antenna Recess Ø 4.63" x 0.43" dp	SENSUS OR ZENNER Antenna Recess Ø 4.11" x 0.41" dp
10-3/8" OD Clear Opening: 9-1/2" Rim Thickness: 0.65"	Non-Traffic / Polymer NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	Ford W2A	367-5530 1.85 lbs.	367-5531 1.75 lbs. 500 pcs min	367-5532 1.77 lbs. 500 pcs min		367-5533 1.80 lbs. 500 pcs min	367-5534 1.73 lbs. 500 pcs min	367-5535 1.77 lbs. 500 pcs min
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 min				5902-TMI 1.60 lbs. 500 pcs min		
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 min				<mark>367-5581-<u>MUEL</u> 1.60 lbs. 500 pcs min</mark>		
11-7/8″ OD Clear Opening: 10″ Rim Thickness: 5/8″	Non-Traffic / Composite DI WORM GEAR (1.5" OD) US Patent No. D858,797 Solid Lids* or MegaNet Antenna Recess	Clark Meter Box Frame	367-5639 6.00 lbs.	367-5638 5.60 lbs. MegaNet Recess (Not for Badger)					
11.91" OD Clear Opening: 10.7" Rim Thickness: 1"	40,000 lbs. / Composite DUCTILE IRON WORM GEAR Solid Lids* Only	Wilmington, DE (Old Style) Inner Lid	367-5632 8.52 lbs.						
12-1/8" OD Clear Opening: 11" Rim Thickness: 5/8"	Non-Traffic / Polymer NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	Mueller A and C	367-5660 3.00 lbs. 500 pcs min	367-5664 2.90 lbs. 500 pcs min	367-5666 2.90 lbs. 500 pcs min			367-5662 2.80 lbs. 500 pcs min	367-5659 2.90 lbs. 500 pcs min



Composite and Polymer Lids

"WATER METER"

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

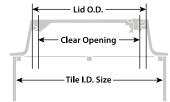
Based on past load tests of specific sizes and lid configurations. When test reports are required, please inquire at the time of quote, stating the test load required and if lids will be solid or have a specific antenna counterbore. A separate testing charge may apply. **PENTAGON BOLTS:** Water meter lids are normally furnished with standard (27/32") brass pentagon bolt, but are also available with large (1-1/32") brass pentagon bolt. Not furnished on drop-in style lids.

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

LETTERING: Lids normally furnished marked "WATER METER", special lettering available. **RECESSES:** All lids with antenna recesses have thru hole diameter of 1.88".

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

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



A separate testing cha	A separate testing charge may apply.		SOLID LID BADGER		ITRON 60W,	ITRON 60W,		NEPTUNE**	SENSUS OR ZENNER
	S, LOAD RATINGS, D Materials	FITS FRAME TYPES	SULIU LIU No Antenna Recess	BADGER ^{Antenna Recess} Ø 3.13" x 0.41" dp	100W, RIVA ^{Antenna Recess} Ø 2.84" x 0.26" dp	KAMSTRUP ^{Antenna Recess} Ø 5.06" x 0.50" dp	MUELLER Antenna Recess Ø 3.36" x 0.33" dp	(FIGURE 8) Antenna Recess Ø 4.63" x 0.43" dp	Antenna Recess Ø 4.11" x 0.41" dp
12-1/8″ OD	20,000 lbs. / Polymer		367-5671	367-5673	367-5674			367-5672	367-5668
Clear Opening: 11" Rim Thickness: 5/8"	NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	Mueller A and C	3.00 lbs.	2.90 lbs.	2.90 lbs.			2.80 lbs.	2.90 lbs.
12-1/4″ OD	20,000 lbs. / Polymer	Ford A, C, and X	367-5810	367-5811	367-5812	367-5816	367-5813	367-5814	367-5815
Clear Opening: 11-1/2" Rim Thickness: 0.65"	NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	AY McDonald A and C Tyler 6150	3.06 lbs.	2.70 lbs.	2.72 lbs.	2.52 lbs.	2.72 lbs.	2.59 lbs.	2.62 lbs.
12-1/4″ OD	20,000 lbs. / Polymer	Ford A, C, and X AY McDonald A and C Tyler 6150		367-5823	367-5817	367-5821	367-5818	367-5819	367-5820
Clear Opening: 11-1/2" Rim Thickness: 0.65"	NYLON WORM GEAR 2 Antenna Recesses			2.53 lbs.	2.60 lbs.	2.14 lbs.	2.53 lbs.	2.27 lbs.	2.34 lbs.
12-1/4″ OD	20,000 lbs. / Polymer		367-5764	367-5762	367-5760			367-5763	367-5761
Clear Opening: 11-1/2"	NYLON WORM GEAR	Ford A and C AY McDonald	3.14 lbs.	3.03 lbs.	3.07 lbs.			2.92 lbs.	2.97 lbs.
Rim Thickness: 0.7"	Solid Lids* or with 1 Antenna Recess	A and C	- Use - 367-5810	- Use - 367-5811	- Use - 367-5812			- Use - 367-5814	- _{Use} - 367-5815
12-1/4″ OD	20,000 lbs. / Polymer	Ford A, C, and X	367-5751	367-5752	367-5754			367-5755	367-5753
Clear Opening: 11-1/2" Rim Thickness: 0.7"	NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	AY McDonald A and C Tyler 6150	3.04 lbs. - _{Use} - 367-5810	2.87 lbs. - _{Use} - 367-5811	2.91 lbs. - _{Use} - 367-5812			2.82 lbs. - Use - 367-5814	2.87 lbs. - Use - 367-5815
12-1/4″ OD	40,000 lbs. / Polymer		367-5670	367-5676	367-5678			367-5675	367-5677
Clear Opening: 11-1/2" Rim Thickness: 0.7"	DUCTILE IRON WORM GEAR Solid Lids* or with 1 Antenna Recess	Ford A and C AY McDonald type A	3.93 lbs. 500 pcs min	3.81 lbs. 500 pcs min	3.85 lbs. 500 pcs min			3.71 lbs. 500 pcs min	3.73 lbs. 500 pcs min



Composite and Polymer Lids

"WATER METER"

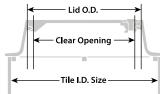
OUR 20,000 LB. LIDS HAVE NOMINAL LOAD RATINGS:

Based on past load tests of specific sizes and lid configurations. When test reports are required, please inquire at the time of quote, stating the test load required and if lids will be solid or have a specific antenna counterbore. A separate testing charge may apply. **PENTAGON BOLTS:** Water meter lids are normally furnished with standard (27/32") brass pentagon bolt, but are also available with large (1-1/32") brass pentagon bolt. Not furnished on drop-in style lids.

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

LETTERING: Lids normally furnished marked "WATER METER", special lettering available. **RECESSES:** All lids with antenna recesses have thru hole diameter of 1.88".

BEARING WASHERS: Polymer lids have UHMWPE bearing washers above and below lid. Composite Lids include a brass bearing washer below the lid and brass flanged sleeve (protects hole from elongation) above the lid. Not furnished on drop-in style lids. **ADDITIONAL NOTES:** Explanations for asterisk (*) and (*) points shown on page 46.



	lids will be solid or have a specific antenna counterbore. A separate testing charge may apply.				ITRON 60W,			NEPTUNE**	SENSUS
LID DIMENSIONS Types and		FITS FRAME TYPES	SOLID LID No Antenna Recess	BADGER ^{Antenna Recess} Ø 3.13" x 0.41" dp	100W, RIVA ^{Antenna Recess} Ø 2.84" x 0.26" dp	KAMSTRUP ^{Antenna Recess} Ø 5.06" x 0.50" dp	MUELLER ^{Antenna Recess} Ø 3.36″ x 0.33″ dp	(FIGURE 8) ^{Antenna Recess} Ø 4.63" x 0.43" dp	OR ZENNER ^{Antenna Recess} Ø 4.11" x 0.41" dp
12-1/4″ OD	40,000 lbs. / Composite	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	Available w/out Logo <mark>367-5517</mark> (40K) 9.54 lbs.	9.00 lbs.	9.01 lbs.			8.70 lbs.	8.71 lbs.
12-3/4″ OD	Non-Traffic / Polymer	Newport News	4946-TMI				4945-TMI		
Clear Opening: 11-5/8" Rim Thickness: 3/8" "NEWPORT NEWS WATERWORKS"	NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	Meter Box No. 2 and Capital Foundry	Also available w/out NN Lettering (Non-Traffic) 2.20 lbs.				Also available w/out NN Lettering (Non-Traffic) 2.20 lbs.		
12.438″ OD	Non-Traffic / Polymer	American	367-5719	367-5721	367-5722		367-5723	367-5724	367-5725
Clear Opening: 11" Rim Thickness: 0.65"	DROP-IN STYLE Solid Lids* or with 1 Antenna Recess	American Foundry, and misc.	3.30 lbs. 250 pcs min	3.10 lbs. 250 pcs min	3.10 lbs. 250 pcs min		2.90 lbs. 250 pcs min	2.90 lbs. 250 pcs min	3.00 lbs. 250 pcs min
12.438″ OD	20,000 lbs. / Polymer		367-5720						
Clear Opening: 11″ Rim Thickness: 0.65″	DROP-IN STYLE Solid Lid* Only	MO American	3.30 lbs. 250 pcs min						
12-5/8″ OD	Non-Traffic / Polymer	Ford, AY McD,	367-5769						
Clear Opening: 11-1/2″ Rim Thickness: 9/16″	NYLON WORM GEAR Solid Lid* or Machined Recess	Vestal and B&T Type C and Baltimore	3.08 lbs. 500 pcs min		Antenna	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″	NYLON WORM GEAR Solid Lid* or Machined Recess	Vestal and B&T Type C and Baltimore	3.08 lbs.		Antenna		ed in the lid, charges m depending on its size.	ay apply.	

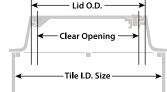


"WATER METER"

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.
 I ETTERING: Lids normally furnished marked "WATER METER" special lettering available

LETTERING: Lids normally furnished marked "WATER METER", special lettering available. **RECESSES:** All lids with antenna recesses have thru hole diameter of 1.88".

BEARING WASHERS: Polymer lids have UHMWPE bearing washers above and below lid. Composite Lids include a brass bearing washer below the lid and brass flanged sleeve (protects hole from elongation) above the lid. Not furnished on drop-in style lids. **ADDITIONAL NOTES:** Explanations for asterisk (*) and (*) points shown on page 46.



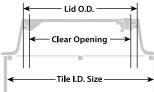
	LID DIMENSIONS, LOAD RATINGS, FITS TYPES AND MATERIALS FRAME TY		SOLID LID No Antenna Recess	BADGER Antenna Recess Ø 3.13" x 0.41" dp	ITRON 60W, 100W, RIVA Antenna Recess ⊗ 2.84″ x 0.26″ dp	KAMSTRUP Antenna Recess ⊗ 5.06″ x 0.50″ dp	MUELLER Antenna Recess Ø 3.36" x 0.33" dp	NEPTUNE** (FIGURE B) Antenna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



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.
 ETTERNO: Lide parently furnished met/od (WATER METER).

LETTERING: Lids normally furnished marked "WATER METER", special lettering available. **RECESSES:** All lids with antenna recesses have thru hole diameter of 1.88".

BEARING WASHERS: Polymer lids have UHMWPE bearing washers above and below lid. Composite Lids include a brass bearing washer below the lid and brass flanged sleeve (protects hole from elongation) above the lid. Not furnished on drop-in style lids. **ADDITIONAL NOTES:** Explanations for asterisk (*) and (*) points shown on page 46.



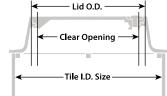
LID DIMENSIONS, LOAD RATINGS, TYPES AND MATERIALS		FITS FRAME TYPES	SOLID LID No Antenna Recess	BADGER Antenna Recess Ø 3.13" x 0.41" dp	ITRON 60W, 100W, RIVA Antenna Recess Ø 2.84" x 0.26" dp	KAMSTRUP Antenna Recess Ø 5.06" x 0.50" dp	MUELLER Antenna Recess Ø 3.36" x 0.33" dp	NEPTUNE** (FIGURE 8) Antenna Recess Ø 4.63" x 0.43" dp	SENSUS DR ZENNER Antenna Recess Ø 4.11" x 0.41" dp		
16-3/16″ OD	40,000 lbs. / Composite	B&T, Vestal, Ford,	367-5680								
Clear Opening: 15" Rim Thickness: 1"	DUCTILE IRON WORM GEAR Solid Lids* or with 1 Antenna Recess	AY McDonald type C and Baltimore	14.20 lbs.		Antenna recesses can be machined in the lid, charges may apply. Load ratings may vary depending on its size.						
17-1/4″ OD	Non-Traffic / Polymer		367-5588	367-5588- <u>BADG</u>	367-5588- <u>itron</u>	367-5588- <u>Kams</u>	367-5588- <u>MUEL</u>	367-5588- <u>NEPT</u>	367-5588- <u>sens</u>		
Clear Opening: 14" Rim Thickness: 0.5"	DROP-IN STYLE Solid Lids* or with 1 Antenna Recess	Flat Lid for 15" Plastic Pit	4.40 lbs. 250 pcs min	4.06 lbs. 250 pcs min	4.09 lbs. 250 pcs min	3.85 lbs. 250 pcs min	4.06 lbs. 250 pcs min	3.92 lbs. 250 pcs min	3.99 lbs. 250 pcs min		
17-1/4″ OD	Non-Traffic / Polymer			367-5588- <u>2BADG</u>	367-5588- <u>2ITRON</u>	367-5588- <u>2kams</u>	367-5588- <u>2MUEL</u>	367-5588- <u>2NEPT</u>	367-5588- <u>2SENS</u>		
Clear Opening: 14" Rim Thickness: 0.5"	DROP-IN STYLE 2 Antenna Recesses	Flat Lid for 15" Plastic Pit		4.14 lbs. 250 pcs min	4.21 lbs. 250 pcs min	3.73 lbs. 250 pcs min	4.14 lbs. 250 pcs min	4.15 lbs. 250 pcs min	3.87 lbs. 250 pcs min		
17-3/4″ OD	Non-Traffic / Composite		367-5681								
Clear Opening: 16-1/8" Rim Thickness: 1-1/16" Cap Style Lid	DROP-IN STYLE Solid Lids* Only	Owosso Central Castings Co.	12.80 lbs.								
18-7/8″ OD	40,000 lbs. / Composite		367-5615		367-5614						
Clear Opening: 18" Rim Thickness: 7/16"	DUCTILE IRON WORM GEAR Solid Lids* or with 1 Antenna Recess	18" AY McDonald Pit Setter	24.60 lbs.		23.90 lbs.						
19.35″ OD	Non-Traffic / Polymer		367-5590	367-5590- <u>BADG</u>	367-5590- <u>ITRON</u>	367-5590- <u>kams</u>	367-5590- <u>MUEL</u>	367-5590- <u>NEPT</u>	367-5590- <u>sens</u>		
Clear Opening: 17" Rim Thickness: 0.56"	DROP-IN STYLE Solid Lids* or with 1 Antenna Recess	Flat Lid for 18" Plastic Pit	6.07 lbs.	5.71 lbs.	5.75 lbs. 200 pcs min	5.51 lbs. 200 pcs min	5.72 lbs. 200 pcs min	5.58 lbs. 200 pcs min	5.64 lbs.		



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.
 ETTERING: Lids parally furnished marked "WATER METER" special lattering available

LETTERING: Lids normally furnished marked "WATER METER", special lettering available. **RECESSES:** All lids with antenna recesses have thru hole diameter of 1.88".

BEARING WASHERS: Polymer lids have UHMWPE bearing washers above and below lid. Composite Lids include a brass bearing washer below the lid and brass flanged sleeve (protects hole from elongation) above the lid. Not furnished on drop-in style lids. **ADDITIONAL NOTES:** Explanations for asterisk (*) and (*) points shown on page 46.



	S, LOAD RATINGS, D MATERIALS	FITS FRAME TYPES	SOLID LID No Antenna Recess	BADGER Antenna Recess Ø 3.13" x 0.41" dp	ITRON 60W, 100W, RIVA ^{Antenna Recess} Ø 2.84" x 0.26" dp	KAMSTRUP Antenna Recess Ø 5.06" x 0.50" dp	MUELLER Antenna Recess Ø 3.36" x 0.33" dp	NEPTUNE** (FIGURE 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- <u>2BADG</u> 5.80 lbs. 200 pcs min	367-5590- <u>21TRON</u> 5.87 lbs. 200 pcs min	367-5590-2KAMS 5.39 lbs. 200 pcs min	367-5590-2 <u>MUEL</u> 5.80 lbs. 200 pcs min	367-5590-2 <u>NEPT</u> 5.54 lbs. 200 pcs min	367-5590-2 <u>SENS</u> 5.66 lbs. 200 pcs min
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" Neenah R-1566 " Baltimore	367-5688 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	367-5631 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	367-5605 10.91 lbs.	<u>367-5605-BADG</u> 10.81 lbs.	367-5605- <u>IIRON</u> 10.77 lbs.	367-5605- <u>KAMS</u> 10.57 lbs.	367-5605- <u>MUEL</u> 10.79 lbs.	<u>367-5605-NEPT</u> 10.63 lbs.	367-5605- <u>sens</u> 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	367-5610 31.30 lbs.	367-5786 30.60 lbs.	367-5788 30.70 lbs.			367-5785 30.50 lbs.	367-5787 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	367-5633 23.10 lbs.						

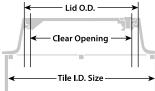


"WATER METER"

PENTAGON BOLTS: Water meter lids are normally furnished with standard (27/32") brass pentagon bolt, but are also available with large (1-1/32") brass pentagon bolt. Not furnished on drop-in style lids.
 WORM GEARS: Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

LETTERING: Lids normally furnished marked "WATER METER", special lettering available. **RECESSES:** All lids with antenna recesses have thru hole diameter of 1.88".

BEARING WASHERS: Polymer lids have UHMWPE bearing washers above and below lid. Composite Lids include a brass bearing washer below the lid and brass flanged sleeve (protects hole from elongation) above the lid. Not furnished on drop-in style lids. **ADDITIONAL NOTES:** Explanations for asterisk (*) and (*) points shown on page 46.



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

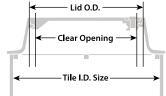


"WATER METER"

PENTAGON BOLTS: Water meter lids are normally furnished with standard (27/32") brass pentagon bolt, but are also available with large (1-1/32") brass pentagon bolt. Not furnished on drop-in style lids.
 WORM GEARS: Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

LETTERING: Lids normally furnished marked "WATER METER", special lettering available. **RECESSES:** All lids with antenna recesses have thru hole diameter of 1.88".

BEARING WASHERS: Polymer lids have UHMWPE bearing washers above and below lid. Composite Lids include a brass bearing washer below the lid and brass flanged sleeve (protects hole from elongation) above the lid. Not furnished on drop-in style lids. **ADDITIONAL NOTES:** Explanations for asterisk (*) and (*) points shown on page 46.



LID DIMENSIONS, LOAD RATINGS, Types and materials 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 ∅ 5.06″ x 0.50″ dp	MUELLER Antenna Recess Ø 3.36" x 0.33" dp	NEPTUNE** (FIGURE 8) Antenna Recess Ø 4.63" x 0.43" dp	SENSUS OR ZENNER Antenna Recess Ø 4.11" x 0.41" dp
24" OD Clear Opening: 19" Rim Thickness: 0.56"	Non-Traffic / Polymer DROP-IN STYLE Solid Lids* or with 1 Antenna Recess	Flat Lid for 20" and 21" Plastic Pit	367-5597 8.57 lbs.	367-5597- <u>BADG</u> 8.22 lbs.	367-5597- <u>ITRON</u> 8.25 lbs.	367-5597- <u>KAMS</u> 8.00 lbs.	367-5597- <u>MUEL</u> 8.22 lbs.	367-5597- <u>NEPT</u> 8.09 lbs.	<u>367-5597-<u>SENS</u> 8.15 lbs.</u>
24" OD Clear Opening: 19" Rim Thickness: 0.56"	Non-Traffic / Polymer DROP-IN STYLE 2 Antenna Recesses	Flat Lid for 20" and 21" Plastic Pit		367-5597- <u>2BADG</u> 8.31 lbs.	367-5597- <u>21TRON</u> 8.38 lbs.	367-5597- <u>2KAMS</u> 7.90 lbs.	<u>367-5597-2МИЕL</u> 8.32 lbs.	367-5597-2 <u>NEPT</u> 8.05 lbs.	367-5597- <u>2SENS</u> 8.17 lbs.
24-3/16" OD Clear Opening: 21" Rim Thickness: 3" "WSNY"	40,000 lbs. / Composite DUCTILE IRON WORM GEAR Solid Lids* Only T316SS Pentagon Bolt	NYC	5218-TMI 60.50 lbs.						
25-1/4" OD Clear Opening: 22-3/4" Rim Thickness: 2"	40,000 lbs. / Composite DUCTILE IRON WORM GEAR Solid Lids* Only	EJ 1700	367-5685 63.50 lbs.						
25-3/4" OD Clear Opening: 24" Rim Thickness: 2-1/2"	40,000 lbs. / Composite DOUBLE PADDLE LOCK (DI) Solid Lids* Only	EJ 1543/1545 " Neenah R-1565 " Baltimore	367-5698 64.00 lbs.						
25-1/2" OD Clear Opening: 24-3/16" Rim Thickness: 1-1/4" "CWD"	40,000 lbs. / Composite DUCTILE IRON WORM GEAR Solid Lids* Only	EJ 1040, 1045, 1048 and 1705	367-5527 54.00 lbs.						



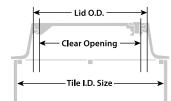
Composite and Polymer Lids
"WATER METER"

PENTAGON BOLTS: Water meter lids are normally furnished with standard (27/32") brass pentagon bolt, but are also available with large (1-1/32") brass pentagon bolt. Not furnished on drop-in style lids.
 WORM GEARS: Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears.

Not furnished on drop-in style lids.

LETTERING: Lids normally furnished marked "WATER METER", special lettering available. **RECESSES:** All lids with antenna recesses have thru hole diameter of 1.88".

BEARING WASHERS: Polymer lids have UHMWPE bearing washers above and below lid. Composite Lids include a brass bearing washer below the lid and brass flanged sleeve (protects hole from elongation) above the lid. Not furnished on drop-in style lids. **ADDITIONAL NOTES:** Explanations for asterisk (*) and (*) points shown on page 46.



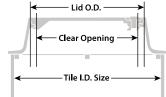
LID DIMENSIONS, LOAD RATINGS, Types and materials		FITS FRAME TYPES	SOLID LID No Antenna Recess	BADGER Antenna Recess Ø 3.13" x 0.41" dp	ITRON 60W, 100W, RIVA Antenna Recess Ø 2.84" x 0.26" dp	KAMSTRUP Antenna Recess Ø 5.06" x 0.50" dp	MUELLER Antenna Recess Ø 3.36" x 0.33" dp	NEPTUNE** (FIGURE 8) Antenna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



Composite and Polymer Lids "WATER METER" PENTAGON BOLTS: Water meter lids are normally furnished with standard (27/32") brass pentagon bolt, but are also available with large (1-1/32") brass pentagon bolt. Not furnished on drop-in style lids.
 WORM GEARS: Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

LETTERING: Lids normally furnished marked "WATER METER", special lettering available. **RECESSES:** All lids with antenna recesses have thru hole diameter of 1.88".

BEARING WASHERS: Polymer lids have UHMWPE bearing washers above and below lid. Composite Lids include a brass bearing washer below the lid and brass flanged sleeve (protects hole from elongation) above the lid. Not furnished on drop-in style lids. **ADDITIONAL NOTES:** Explanations for asterisk (*) and (*) points shown on page 46.



LID DIMENSIONS, LOAD RATINGS, TYPES AND MATERIALS FRAME TYPES		SOLID LID No Antenna Recess	BADGER Antenna Recess Ø 3.13" x 0.41" dp	ITRON 60W, 100W, RIVA Antenna Recess Ø 2.84" x 0.26" dp	KAMSTRUP Antenna Recess Ø 5.06" x 0.50" dp	MUELLER Antenna Recess Ø 3.36" x 0.33" dp	NEPTUNE** (FIGURE 8) Antenna Recess Ø 4.63" x 0.43" dp	SENSUS OR ZENNER Antenna Recess Ø 4.11" x 0.41" dp	
30-1/2" x 17-1/2" Rect. Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2"	40,000 lbs. / Composite DROP-IN STYLE 2 Antenna Recesses	17" x 30" Hubbell, Old Castle Polymer, & Old Castle Concrete		367-5572- <u>40K</u> 50.80 lbs. 25 pcs min	367-5573- <u>40K</u> 51.00 lbs. 25 pcs min		367-5564- <u>40K</u> 50.90 lbs. 25 pcs min	367-5575- <u>40K</u> 50.20 lbs. 25 pcs min	
30-1/2" x 17-1/2" Rect. Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2"	40,000 lbs. / Composite BOLT-DOWN STYLE Solid Lids* or with 1 Antenna Recess	17" x 30" Hubbell, Old Castle Polymer, & Old Castle Concrete	367-5561- <u>40K</u> 51.50 lbs. 25 pcs min	<u>367-5567-40K</u> 51.10 lbs. 25 pcs min	<u>367-5568-40K</u> 51.10 lbs. 25 pcs min		<u>367-5569-40K</u> 51.10 lbs. 25 pcs min	<u>367-5570-40K</u> 50.70 lbs. 25 pcs min	
30-1/2" x 17-1/2" Rect. Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2"	40,000 lbs. / Composite BOLT-DOWN STYLE 2 Antenna Recesses	17" x 30" Hubbell, Old Castle Polymer, & Old Castle Concrete		<u>367-5577-40K</u> 50.70 lbs. 25 pcs min	<u>367-5578-40K</u> 50.80 lbs. 25 pcs min		<u>367-5579-40K</u> 50.80 lbs. 25 pcs min	<u>367-5580-40K</u> 50.00 lbs. 25 pcs min	
31-13/16" OD Clear Opening: 30" Rim Thickness: 2-1/2"	40,000 lbs. / Composite DOUBLE PADDLE LOCK (DI) Solid Lids* Only	Neenah R-1568 * Baltimore	367-5710 108.70 lbs. 15 pcs min						
35-27/32" OD Clear Opening: 34" Rim Thickness: 1.44" "CONFINED SPACE NEORSD"	40,000 lbs. / Composite DROP-IN STYLE Solid Lids* Only	EJ 1585 Neenah R-1752	367-5715 131.30 lbs. 15 pcs min						
35-27/32" OD Clear Opening: 34" Rim Thickness: 1.44" "ARLINGTON"	40,000 lbs. / Composite DROP-IN STYLE Solid Lids* Only	EJ 1585 Neenah R-1752 Arlington, VA	367-5712 131.30 lbs. 30 pcs min						



"WATER METER"

Hand Key 367-4334 Single Slot

Single Slot Retainer Bracket <u>367-5782</u>

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

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



Composite Frame and Cover Assemblies

"WATER METER"

- **LETTERING:** Lids normally furnished marked "WATER METER", special lettering available.
- **SEAL:** All Frame & Cover Assemblies are sealed by an EPDM gasket. **BOLT DOWN LIDS:** Are secured to frames with four Xylan coated
 - stainless screws, see page 30 for optional security screws.
- **PADDLE LOCK LIDS:** Are secured to frame with pentagon bolt, see page 30 for optional security bolts.
- **ANTENNA MOUNTING OPTIONS:** Shown in "Additional Notes" on page 46.

	IS, LOAD RATINGS, D MATERIALS	FITS FRAME TYPES	BOLT DOWN STYLE	PADDLE LOCK Style
23-3/4" OD Clear Opening: 21-1/2" ID	50,000 lbs. / Composite BOIT-DOWN STYLE	Trumbull Frame	367-5790	
Rim Thickness: 1"	Solid Lids* Only	367-5468	66.10 lbs. Frame and Cover	
26″ OD	50,000 lbs. / Composite		367-5702	367-5704
Clear Opening: 24″ ID Rim Thickness: 1″	BOLT-DOWN STYLE OR PADDLE LOCK STYLE Solid Lids* Only	Trumbull Frame 367-5705	93.00 lbs. Frame and Cover	93.00 lbs. Frame and Cover
32″ OD	50,000 lbs. / Composite		367-5793	367-5901
Clear Opening: 30" ID Rim Thickness: 1-1/4"	BOLT-DOWN STYLE OR PADDLE LOCK STYLE Solid Lids* Only	Trumbull Frame 367-5794	129.00 lbs. Frame and Cover	129.00 lbs. Frame and Cover
32″ OD	50,000 lbs. / Composite		367-5799	
Clear Opening: 30" ID Rim Thickness: 1-1/4" "WATER"	BOLT-DOWN STYLE Solid Lids* Only	Trumbull Frame 367-5794	129.00 lbs. Frame and Cover	
38″ OD	50,000 lbs. / Composite		367-5465	367-5618
Clear Opening: 36" ID Rim Thickness: 1-1/2"	BOLT-DOWN STYLE OR PADDLE LOCK STYLE Solid Lids* Only	Trumbull Frame 367-5784	236.80 lbs. Frame and Cover	236.00 lbs. Frame and Cover



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 x 16,000 = 40,000 lbs.). Therefore, for H-20 rated lids, a 40,000 lbs. proof load test is required. For H-25 rated lids, a 50,000 lbs. proof load test is required.

Explanation of the Confusion

Many water departments began to install radio read meters but couldn't get a good read through cast iron lids. Frequently, many were only thinking of a radio-friendly material such as polymer, without giving much thought to its strength. As a result, many municipalities received thin plastic lids that could only withstand a proof load test of 5,000 lbs., or less. Frequently, breakage occurred from lawn tractors and other loads. To be conservative and have an industry standard they can specify, many municipalities require a 40,000 lbs. proof load test, even where a lid is not in the roadway. Some suppliers advertise their lids as H-20, but are referring to a 16,000 lbs. wheel load and not a 40,000 lbs. proof load test. Some furnish lids that cannot even meet the 16,000 lbs. load they advertise as "H-20".

How to Avoid the Confusion

To avoid confusion, your specs should require the proof load test you specify, conducted per AASHTO M-306. To be safe, require a report from an independent test lab. Simply specifying "H-20" may not provide the safety factor you need, particularly where traffic loads are involved. The AASHTO M-306 standard requires the load to be placed at the center of the lid and not transfer any of the load directly to the frame. For smaller lids, such as 12" diameter, a plate smaller than 9" x 9" must be used. If you would like a proof load test performed on the lids you are using, contact the Engineering Department here at Trumbull.







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.



Composite Manhole Frame and Cover Assembly 21-1/2" Clear Opening

23-3/4" Lid OD – EPDM Sealed

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

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

FOUR XYLAN COATED STAINLESS ALLEN HEAD SCREWS

compress seal to prevent infiltration and are retained in the lid using clips (security screws are also available, shown on page 40)

FRAME SLOTS

allow easy handling and anchoring to manhole

STAINLESS STEEL PICK BAR

GROOVED DESIGN EPDM SEAL

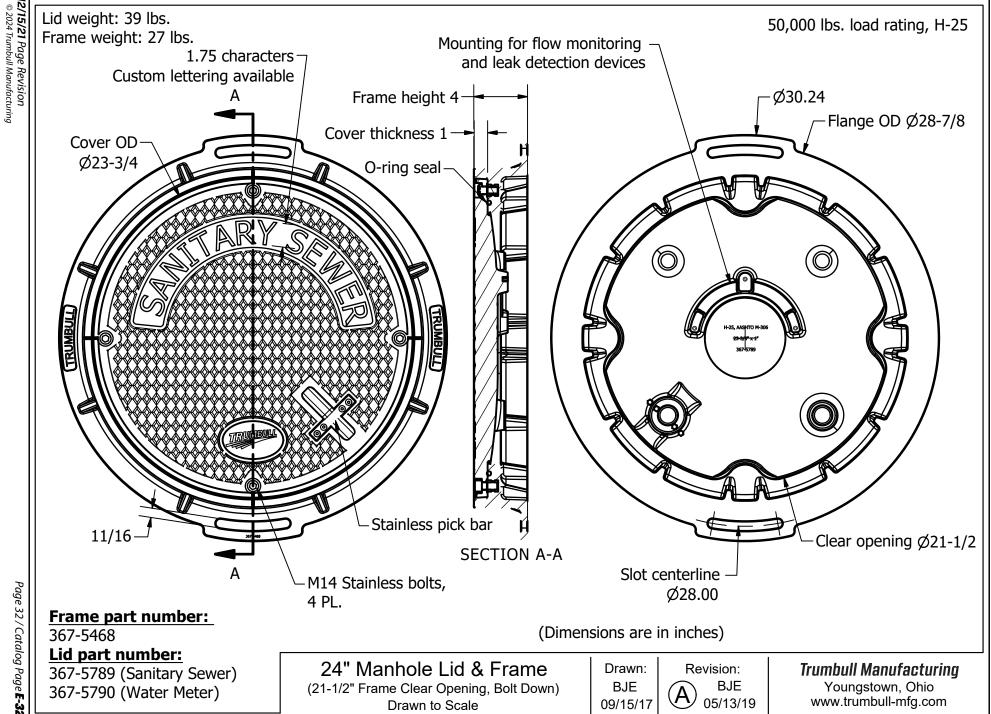
prevents infiltration through bolt holes (artificially colored here for emphasis)

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

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

Lid OD	Locking	Frame	Sanitary Sewer Lid	Water Meter Lid	Total	Optional logo/custom
Size	Mechanism	ltem №	ltem №	ltem №	Weight	lettering options available, ask your Trumbull Rep.
23-3/4″	Bolt Down	367-5468	367-5789	367-5790	66.10 lbs.	ask your frumbull Kep.

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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Trumbull Manufacturing 3850 Hendricks Road, Youngstown, Ohio 44515 Phone: **Toll Free:** Fax: 330.270.7888 877.504.1507 330.392.0756 www.trumbull-mfg.com

Composite Manhole Frame and Cover Assemblies With Full Clear Opening - Paddle Lock and Bolt Down Styles



anchoring to manhole Sanitary Frame Sewer Lid Lockina I id

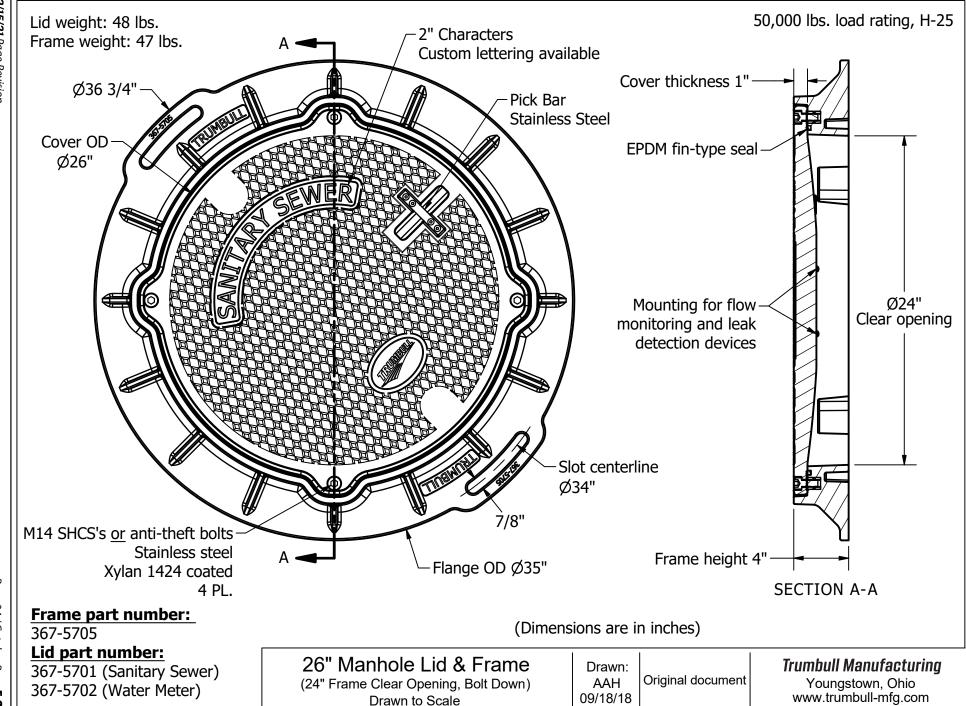
Lid	Locking	Frame	Sewer Lid	Meter Lid	Total
OD	Mechanism	ltem №	Item №	ltem №	Weight
26″	Bolt Down	367-5705	367-5701	367-5702	93.00 lbs.
26″	Paddle Lock	307-3703	367-5703	367-5704	93.00 lbs.
32″	Bolt Down	367-5794	367-5792	367-5793	129.00 lbs.
32″	Paddle Lock	307-3734	367-5900	367-5901	129.00 lbs.
38″	Bolt Down	367-5784	367-5795	367-5465	236.80 lbs.
38″	Paddle Lock	307-3704	367-5617	367-5618	236.80 lbs.

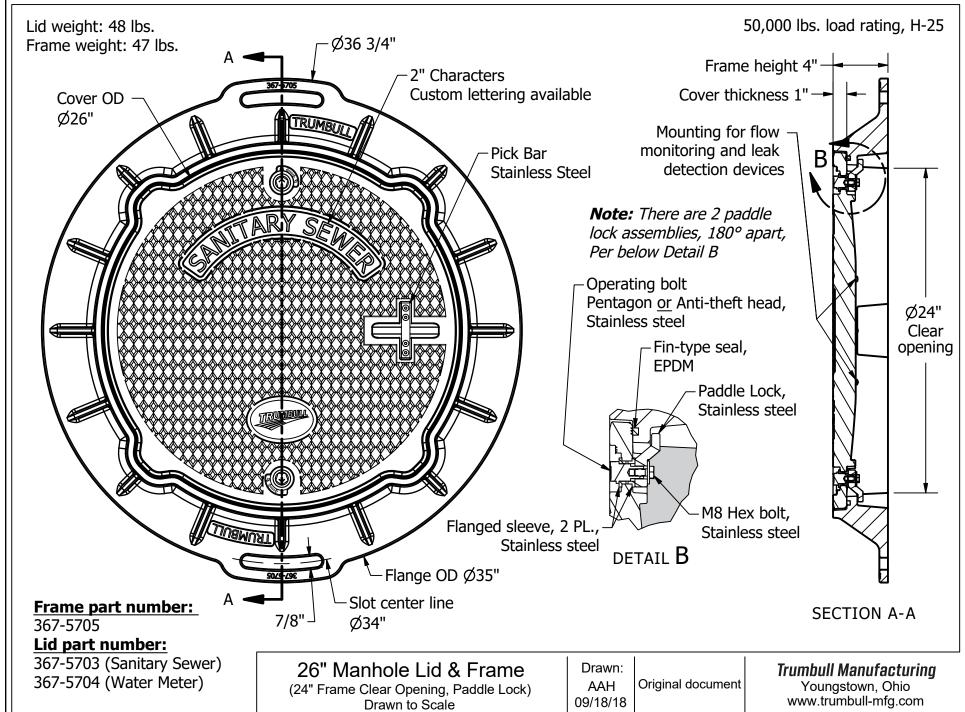
- Composite design can pass a 50,000 lb. proof load test per AASHTO M-306, H-25, vet weighs only one-third of comparable cast iron frame and lid, reducing back and finger injuries.
- Two lid fastening styles available.
- All hardware is stainless steel, along with the composite construction provides 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).

Water

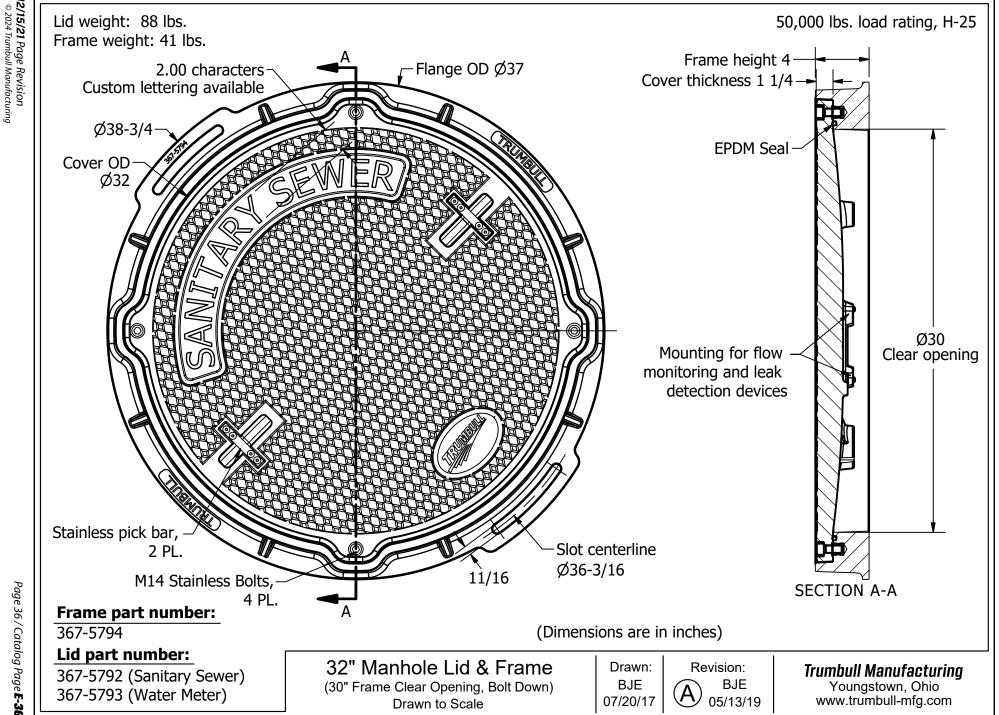
Meter Lid



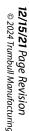


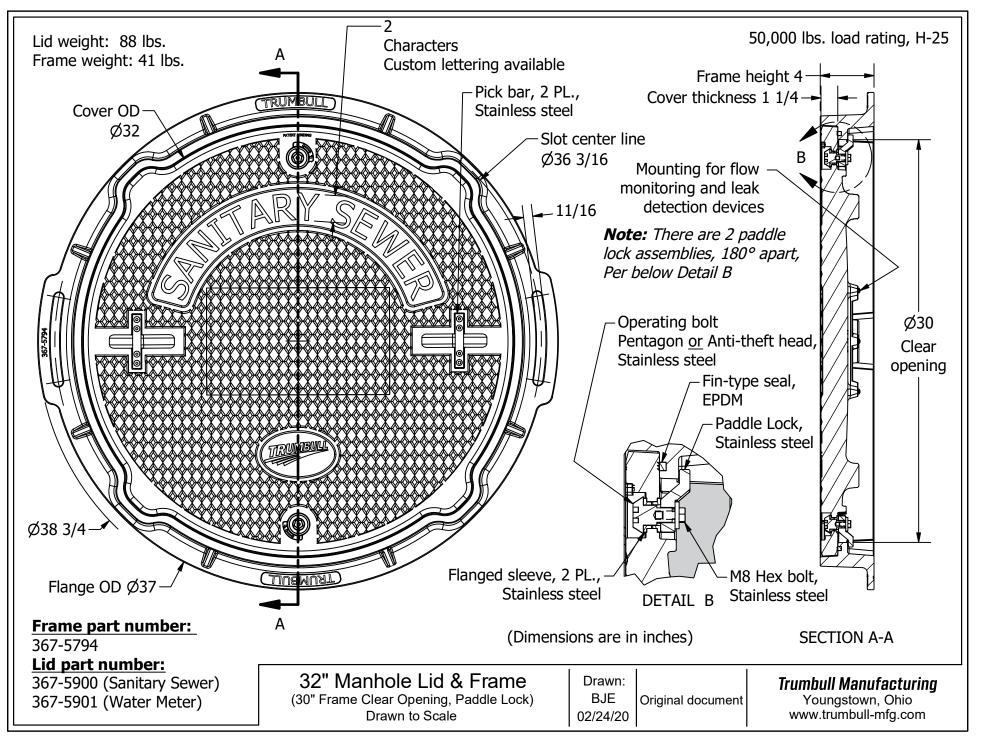
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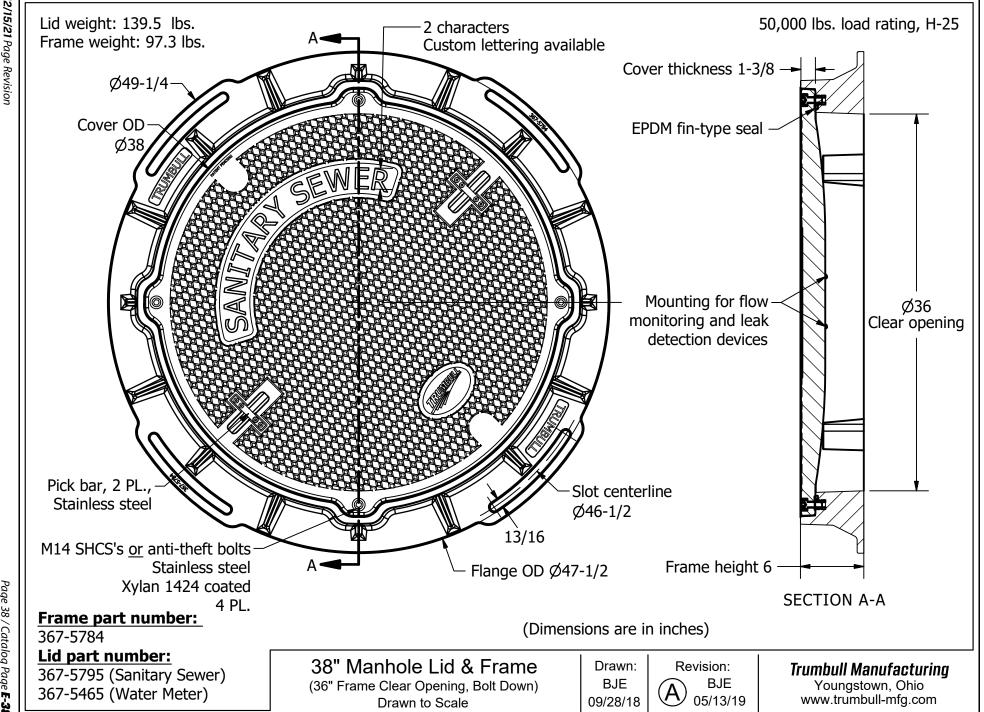
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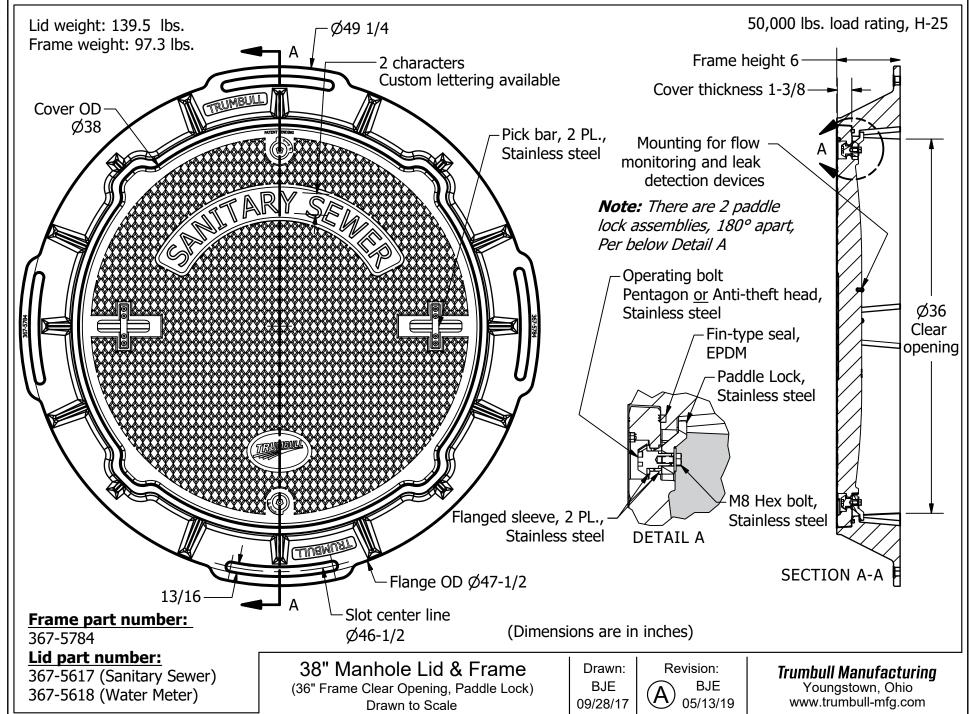
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www.trumbull-mfg.com

Additional Security for Meter and Manhole Lids

Security Bolts...

Made from stainless steel



... for Worm Gear Lids

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

... for Paddle-Lock Frames and Covers

Item №	Fo	For Frames		
167-0062*	Padd	Paddle-Lock Covers		
Don't forget the	ltem №	Description	Weight	
Custom	167-0070	Key Only	0.18 lbs.	
KEY	spec/ord.	Key, with T-Handle		
	* 010 0			

* 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 Handle 90° Han	
Overall Item № Length Weight Item I	Overall № Length Weight
367-4286 24" 3.35 lbs. 367-4 2	288 30" 3.85 lbs.
367-4290 36" 4.50 lbs. 367-4 2	2 <i>89</i> 36″ 4.45 lbs.

IN-LINE HANDLE 90° HANDLE



... for Bolt Down Frames and Covers

and 36" Frame and Covers

 Xylan coated stainless steel • M14 x 30MM for use with 24" Frame and Covers

Security Screws...

ltem №		Weight		
167-0146	M14-2.0 x 3	0.10 lbs.		
167-0148	M14-2.0 x 3	M14-2.0 x 35MM Security Screw		
Don't forget the	Item №	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

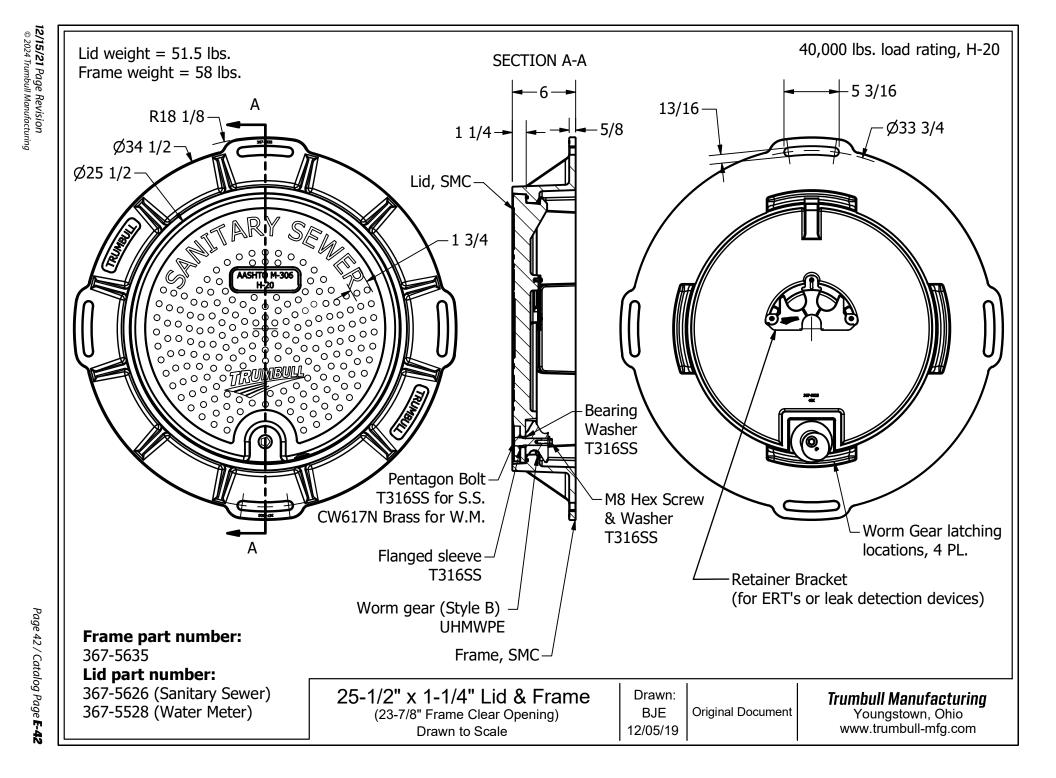
- Composite design can pass a 40,000 lbs. proof load test per AASHTO M-306, H-20, yet weighs only one-third of comparable cast iron frame, reducing back and finger injuries.
- Frame's composite construction provides corrosion resistance, making it suitable for both water and sewer applications.

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





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





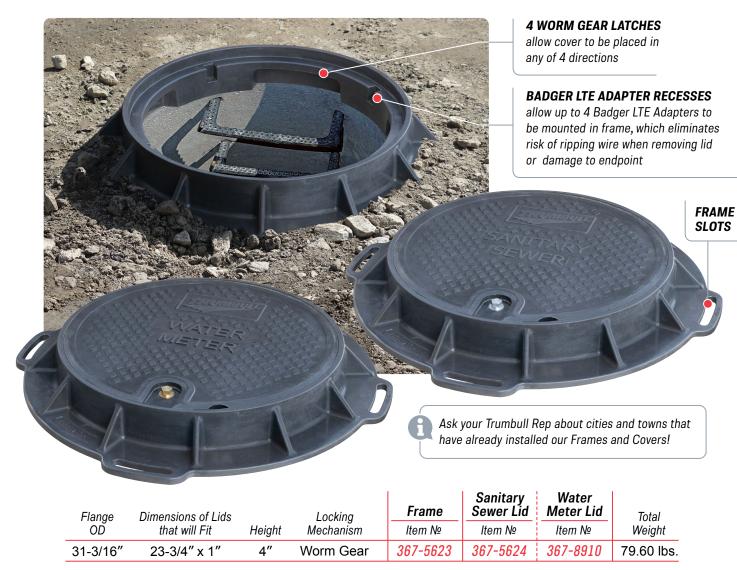
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Composite Manhole Frames and Covers Worm Gear Style – For Use with 23-3/4" x 1" Covers

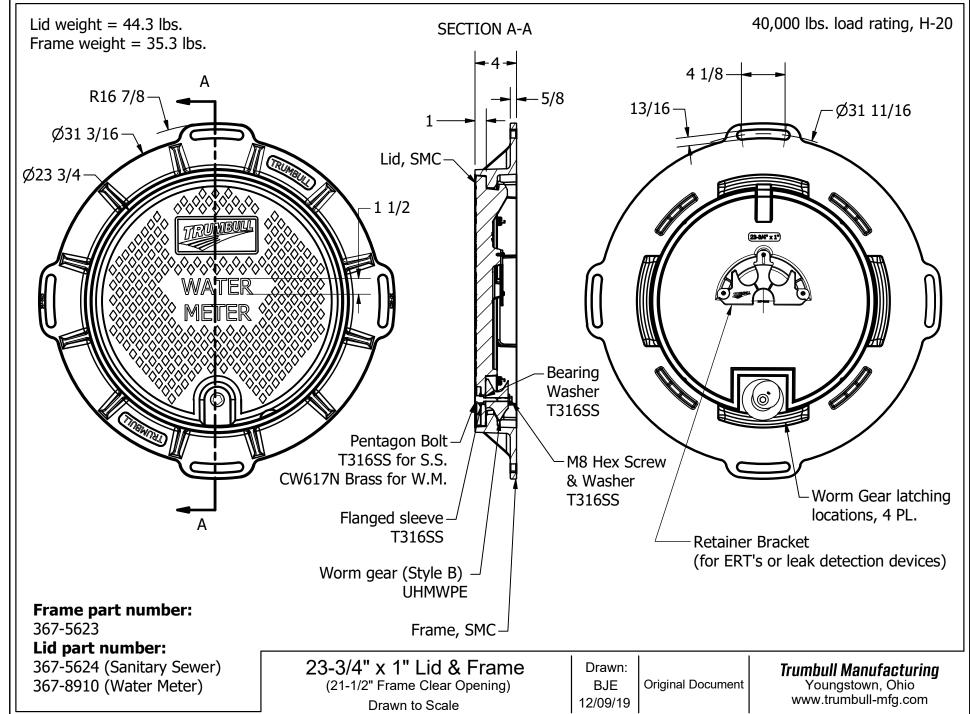
- Composite design can pass a 40,000 lbs. proof load test per AASHTO M-306, H-20, yet weighs only one-third of comparable cast iron frame, reducing back and finger injuries.
- Frame's composite construction provides corrosion resistance, making it suitable for both water and sewer applications.







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



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

WORM GEARS: Lids furnished with ductile worm gears. Not furnished on drop-in style lids.

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

BEARING WASHERS: Composite Lids include a T316SS bearing washer below

the lid and T316SS flanged sleeve (protects hole from elongation) above the lid. Not furnished on drop-in style lids.

FLOW MONITORING: Please inquire about custom brackets to mount flow monitoring equipment under the lid.

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

LID DIMENSIONS TYPES AND	, LOAD RATINGS, MATERIALS	FITS FRAME TYPES	SOLID LID No Antenna Recess
ITPEJ AND	MATERIALJ		NU AIILEIIIIA RECESS
21-3/8″ OD	40,000 lbs. / Composite	0	367-5695
Clear Opening: 19-13/16" Rim Thickness: 15/16" "SEWER"	DROP-IN STYLE Solid Lid* with Pick Hole Retainer Bracket	Capitol Foundry #14000-10 Richmond, VA	28.60 lbs.
22-3/4″ OD	40,000 lbs. / Composite		367-5619
Clear Opening: 21" Rim Thickness: 1-11/16"	DUCTILE IRON WORM GEAR Solid Lid* Retainer Bracket	EJ 1020, Neenah R-1580	45.70 lbs.
23-3/4″ OD	40,000 lbs. / Composite		367-5622
Clear Opening: 21-1/2" Rim Thickness: 1"	DUCTILE IRON WORM GEAR Solid Lid* Retainer Bracket	EJ 1450 and 1690 Neenah R-1771, Neenah R-1785	44.80 lbs.
23-3/4″ OD	40,000 lbs. / Composite		367-5624
Clear Opening: 21-1/2" Rim Thickness: 1"	DUCTILE IRON WORM GEAR Solid Lid* Retainer Bracket	Trumbull Frame 367-5623	44.80 lbs.
25-1/4″ OD	40,000 lbs. / Composite		367-5686
Clear Opening: 22-3/4" Rim Thickness: 2" "SANITARY SEWER"	DUCTILE IRON WORM GEAR Solid Lid* Retainer Bracket	EJ 1700	63.50 lbs.
25-1/4″ OD	40,000 lbs. / Composite		367-5687
Clear Opening: 22-3/4" Rim Thickness: 2" "CONFINED SPACE NEORSD"	DUCTILE IRON WORM GEAR Solid Lid* Retainer Bracket	EJ 1700	63.50 lbs.

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

Lid O.D.

Clear Opening

Tile I.D. Size

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

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Continued on the right.



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

SEAL: All Frame and Cover Assemblies are sealed by an EPDM gasket.

BOLT DOWN LIDS: Are secured to frames with four Xylan coated stainless screws, see page 30 for optional security screws. **PADDLE LOCK LIDS:** Are secured to frame with pentagon bolt, see page 30 for optional security bolts.

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

- * 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.

Trumbull Meter and Manhole Lids

Single Slot Retainer Bracket Retainer Bracket



3850 Hendricks Road, Youngstown, Ohio 44515

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

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.

ITEM №	SIZE OF METER	LAYING LENGTH	WEIGHT
368-0590	Coupling, 1/2" (for 5/8" x 3/4" & 3/4" meters)	2-3/8″	0.44 lbs.
368-0591	Coupling, 1/2" (for 5/8" x 1/2" meters)	2-3/8"	0.25 lbs.
368-0646	Coupling, 1/2" (for 5/8" x 3/4" & 3/4" meters)	1-5/8″	0.40 lbs.
368-0593	Coupling, 3/4" (for 5/8" x 3/4" & 3/4" meters)	2″	0.45 lbs.
368-0592	Coupling, 3/4" (for 5/8" x 3/4" & 3/4" meters)	2-1/2″	0.50 lbs.
368-0595	Coupling, 1"	2-5/8″	0.70 lbs.
368-0597	Coupling, 1-1/2", less bushing**	2-7/8″	1.85 lbs.
368-0598	Coupling, 2", less bushing**	3″	2.65 lbs.
368-0618	Bushing, for 1-1/2" Coupling**		0.85 lbs.
368-0619	Bushing, for 2" Coupling**		1.20 lbs.
379-1015	Flange w/full-face gasket, 1-1/2"		2.00 lbs.
379-1016	Flange w/full-face gasket, 2"		2.45 lbs.

Meter Flange Kits

Kits include 2 flanges, 2 gaskets and 4 fasteners (bolts and nuts). Shown in more detail on page E-54 of our Catalog.

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

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

ITEM №	DESCRIPTION		WEIGHT
367-5470	Meter Yoke, for 5/8" meters		3.65 lbs.
367-5469	Meter Yoke, for 5/8" x 3/4" meters		4.20 lbs.
367-5471	Meter Yoke, for 3/4" meters		4.60 lbs.
367-5472	Meter Yoke, for 1" meters		7.30 lbs.
368-0630	Expansion Connection, for 5/8" meters	TRUMEDIAL SIGW S.	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.

	FORD	ORIGIN	ORIGINAL METER		NEW METER		QUANTITY	
ITEM №	Nº	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

As a global manufacturer in the underground waterworks industry, specializing in treatment plant solutions, we have been committed to delivering innovative solutions and high-quality products since 1981. Our comprehensive approach includes full in-house engineering, manufacturing, and assembly operations based in Youngstown, Ohio.

Our team of experts is dedicated to developing cutting-edge solutions that address the unique challenges of the industry. We combine our extensive knowledge and experience with a focus on innovation to design and manufacture products that meet the highest standards of quality and reliability.

With our solid infrastructure, state-of-the-art manufacturing facilities, and exception customer service, we continue to lead the way in the underground waterworks industry. Our goal is to provide comprehensive solutions that meet the evolving needs of our customers while maintaining the highest standards of excellence and customer satisfaction.







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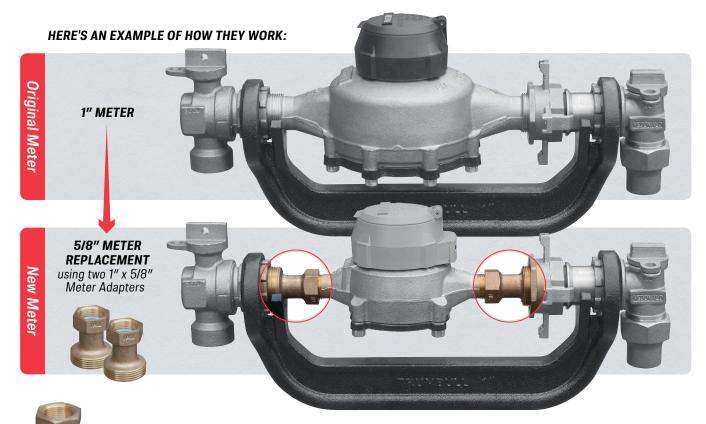
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 Toll Free:
 Fax:

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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.



N-				Original	Meter	Ð	New Meter		
	ltem №	Weight	Ford №	Meter Size	Laying Length		Meter Size	Laying Length*	Quantity Required
R	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
-	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
CONTRACTOR OF									

designed for 3/4" meters with 7-1/2" laying length.

* 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

379-1022

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Meter Couplings and Flanges WITH GASKETS

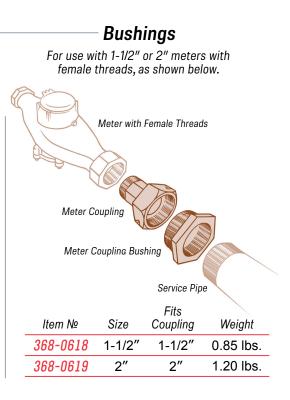
Certified by UL for compliance with NSF/ANSI 61 and NSF/ANSI 372, per the U.S. Safe Drinking Water Act



Meter Couplings

- 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.

ltem №	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 C89833.
- Boxed kit includes 2 flanges, 2 gaskets & 4 bolts and nuts.



ltem №	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.





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Cast Iron Meter Yokes

Trumbull Meter Yokes provide uniform spacing	ltem №	Meter Size	Length	Height	Weight
and alignment for setting water meters. Used in	367-5470	5/8″	10-15/16″	4-1/8″	3.65 lbs.
conjunction with Expansion Connections for easy installation and removal of meters.	367-5469	5/8" x 3/4"	10-15/16″	4-1/8″	4.20 lbs.
Cast of gray iron, Class 25,	367-5471	3/4″	12-1/2″	4-1/8″	4.60 lbs.
with rust-preventative	367-5472	1″	14-3/4″	5-1/4″	7.30 lbs.
black coating.		ANSION CONNE on bottom of th			

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.

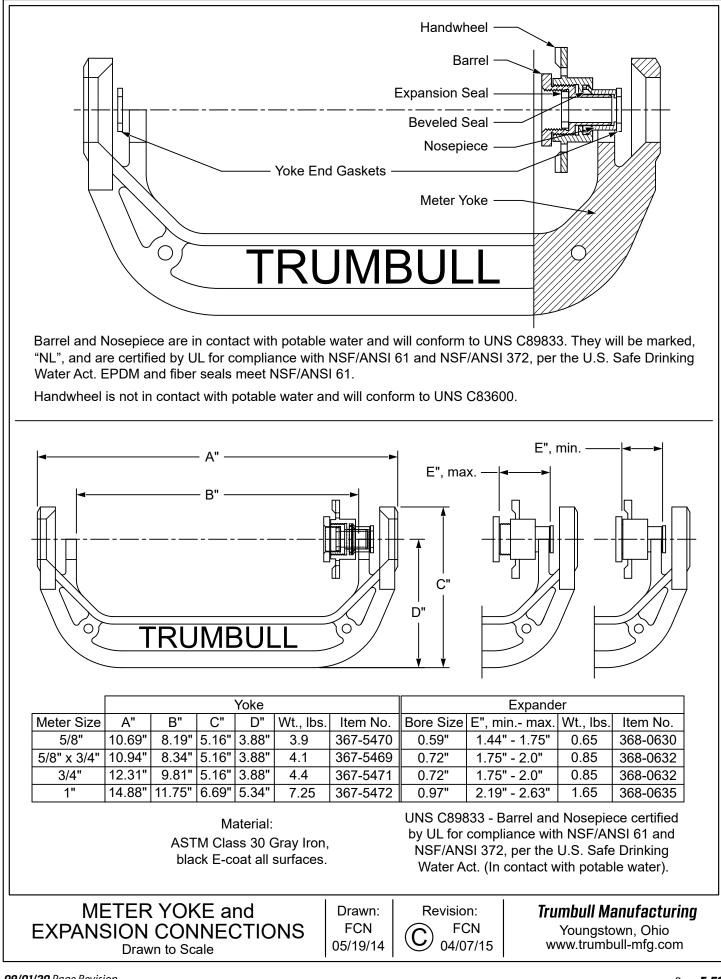
Nose Piece and Barrel are in contact with water and are cast from UNS C89833 brass. Certified by UL for compliance with NSF/ANSI 61 and NSF/ANSI 372, per the U.S. Safe Drinking Water Act.

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.



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

ltem №	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.

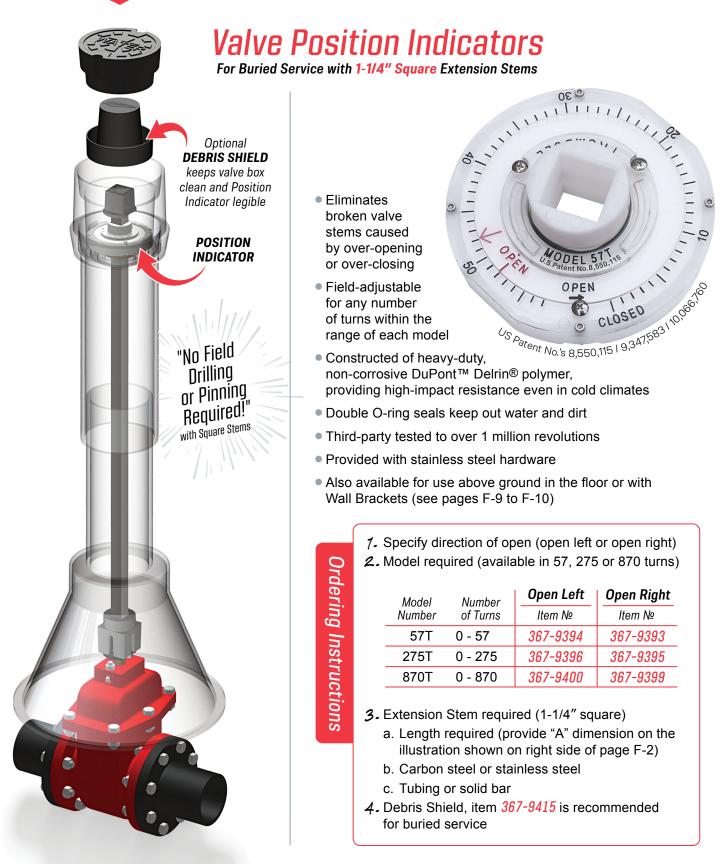




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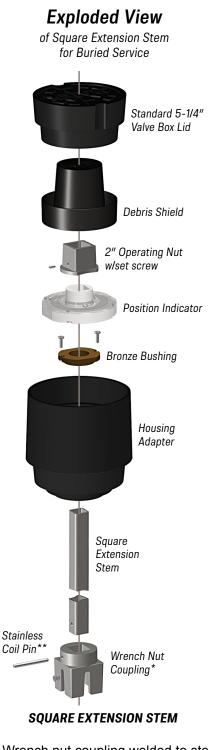
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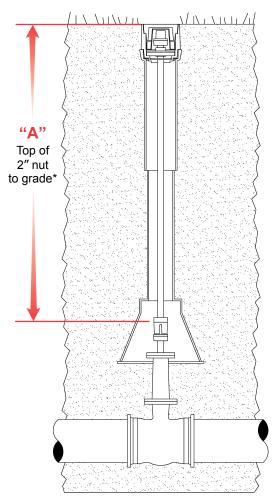


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- * Wrench nut coupling welded to stem at factory.
- ** When bottom coupling is purchased separately, pin is provided.



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

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

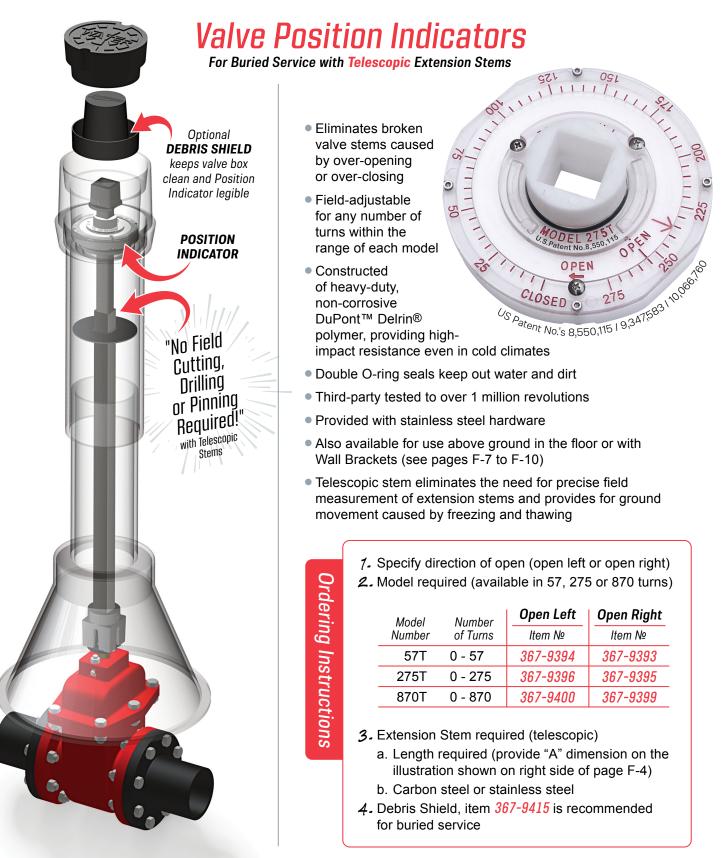


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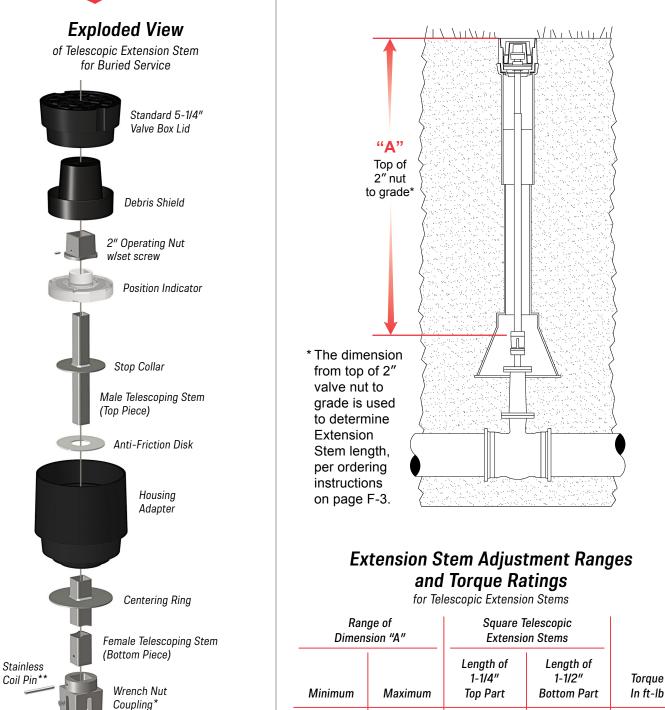
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3 ft.

4-1/2 ft.

6 ft.

7-1/2 ft.

9 ft.

4-1/2 ft.

6 ft.

7-1/2 ft.

9 ft.

10-1/2 ft.

30″

30"

30″

30"

30″

Other stem ranges available upon request.

30"

48"

66"

84"

102"

TELESCOPIC EXTENSION STEM

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

300 ft-lb

300 ft-lb

300 ft-lb

300 ft-lb

300 ft-lb

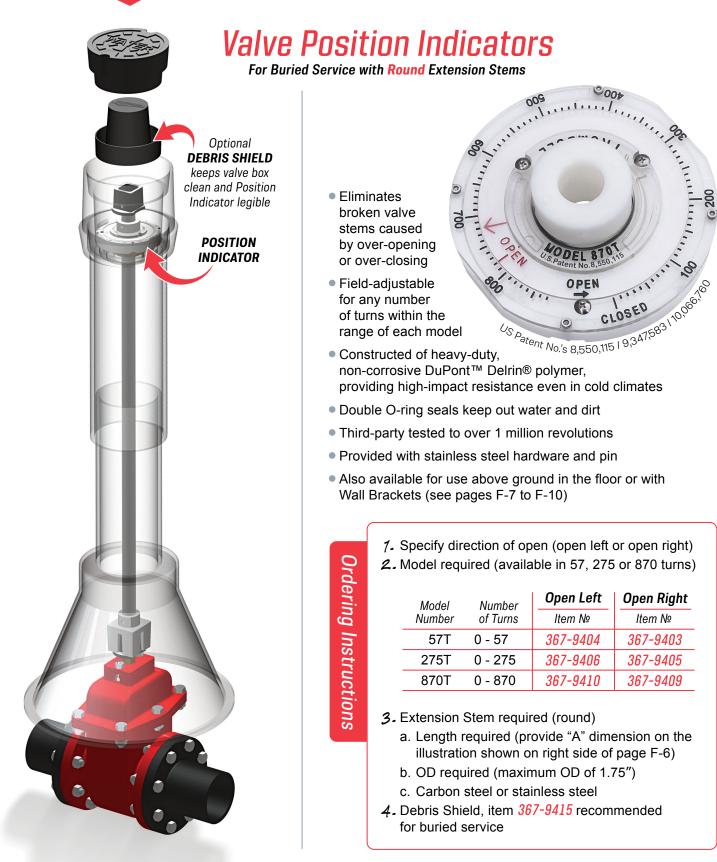


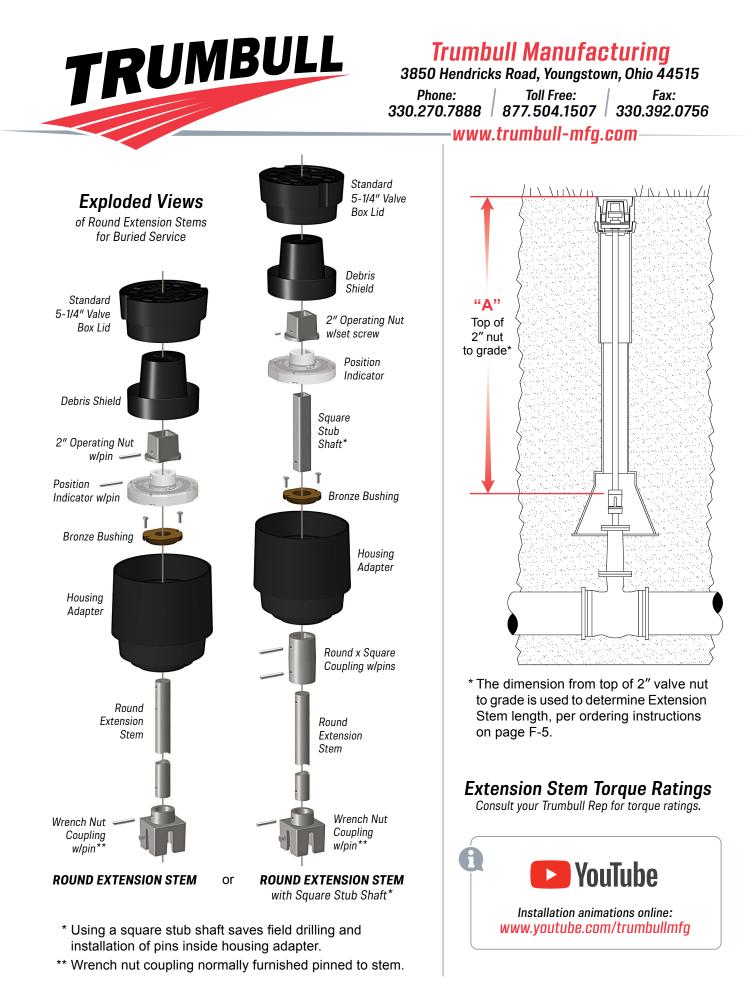
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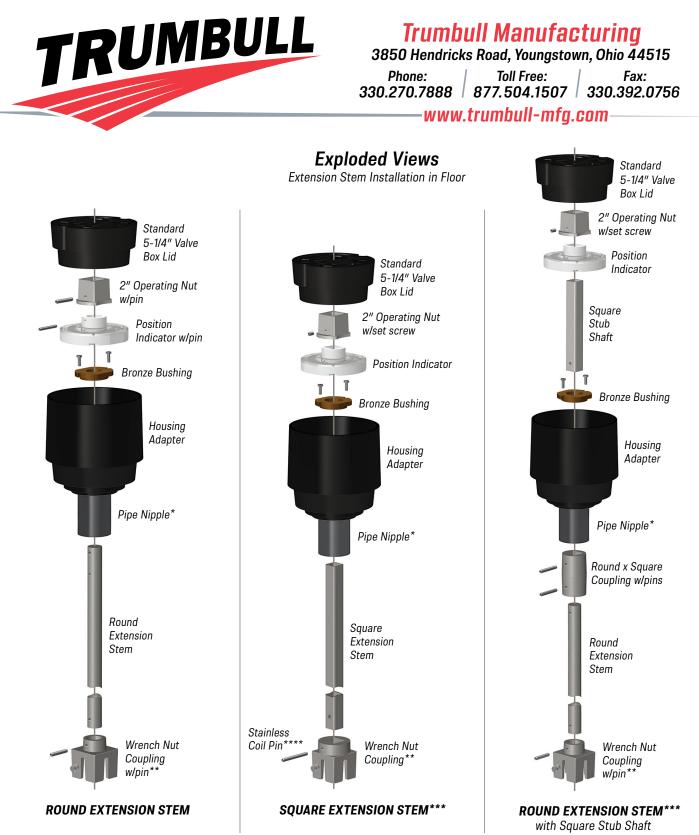


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Valve Position Indicators 111111111111 Installation in Floor 08 20 Eliminates broken valve stems caused by over-opening or over-closing Field-adjustable for any number of turns within the range of U.S. Patent No each model CLOSED 10,0610 CLOSED 10,0610 CLOSED 10,0610 CLOSED 10,0610 Constructed of heavy-duty, non-corrosive DuPont[™] Delrin[®] 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 POSITION Provided with stainless steel hardware INDICATOR Also available w/Wall Bracket for mounting to tank walls (pages F-9) to F-10), and in Valve Boxes for buried service (pages F-1 to F-6) 7. Specify direction of open (open left or open right) Ordering Instructions 2. Model required (available in 57, 275 or 870 turns, shown below) 3. Extension Stem required a. Length required b. Round (maximum OD of 1.75"), 1-1/4" square, or round x square stem (see reverse for details) c. Carbon steel or stainless steel 4. Housing Adapter - Floor Box style a. Cast iron housing (unsealed), see page F-11 b. Carbon steel or stainless steel (sealed), see page G-13 Square Ext. Stem Round Ext. Stem Open Left Open Right **Open Left** Open Right Model Item № Item № Item № Item № Number 367-9394 367-9393 367-9404 367-9403 57T 275T 367-9396 367-9395 367-9406 367-9405 870T 367-9400 367-9399 367-9410 367-9409

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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.



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08 20

Valve Position Indicators



Installation with Wall Bracket

- ODEL CS Patent No.'s 8,550,11519,347,58310,060,10 model
- Constructed of heavy-duty, non-corrosive DuPont[™] Delrin[®] 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

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

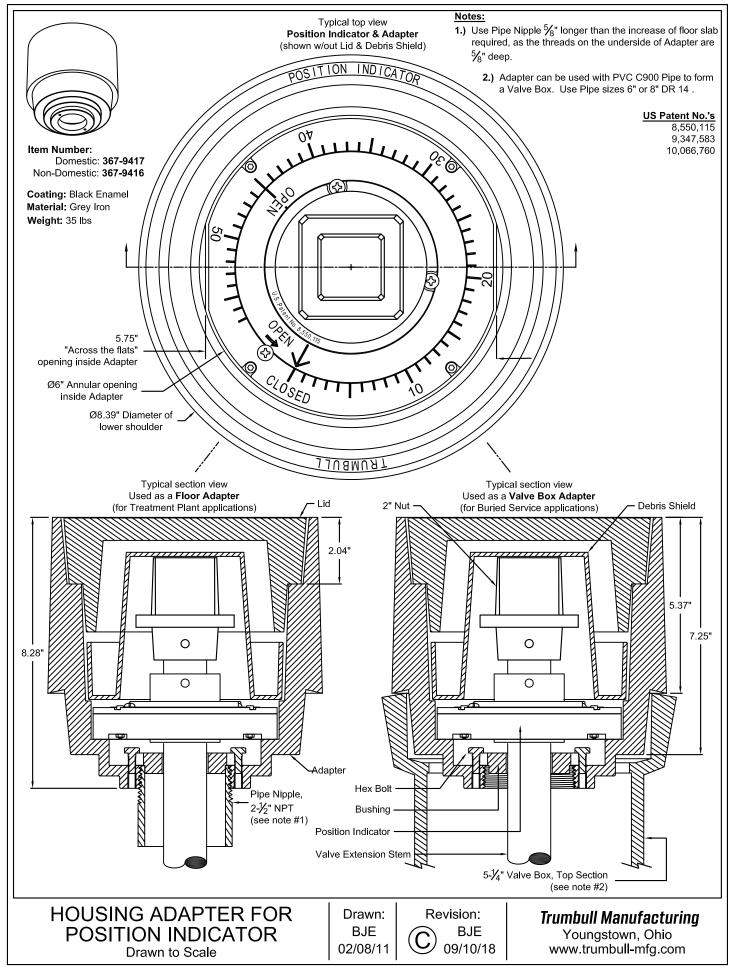


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Exploded Views Round Extension Stems Handwheel w/pin Installation with Wall Bracket Position Indicator w/pin 2" Operating Nut w/pin Bronze Bushing **Position Indicator** w/pin Bronze Bushing Position Indicator Adapter Plate Position Indicator Adapter Plate Wall Bracket Wall Bracket Clamps Clamps Round Round Extension Extension Stem Stem Wrench Nut Wrench Nut Coupling Coupling w/pin* w/pin³ **ROUND EXTENSION STEM ROUND EXTENSION STEM** with 2" Operating Nut with Handwheel

* Wrench nut coupling normally furnished pinned to stem.



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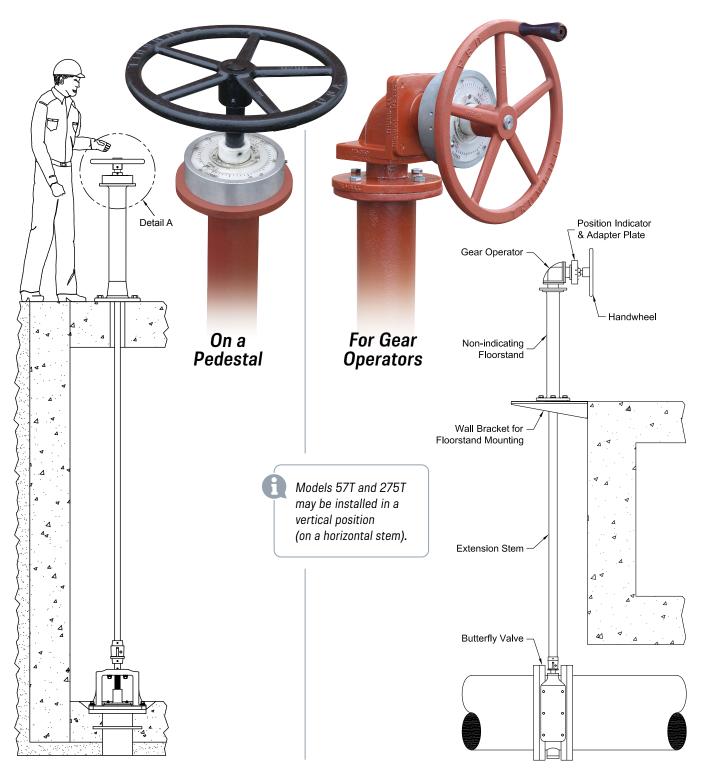
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Valve Position Indicators

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



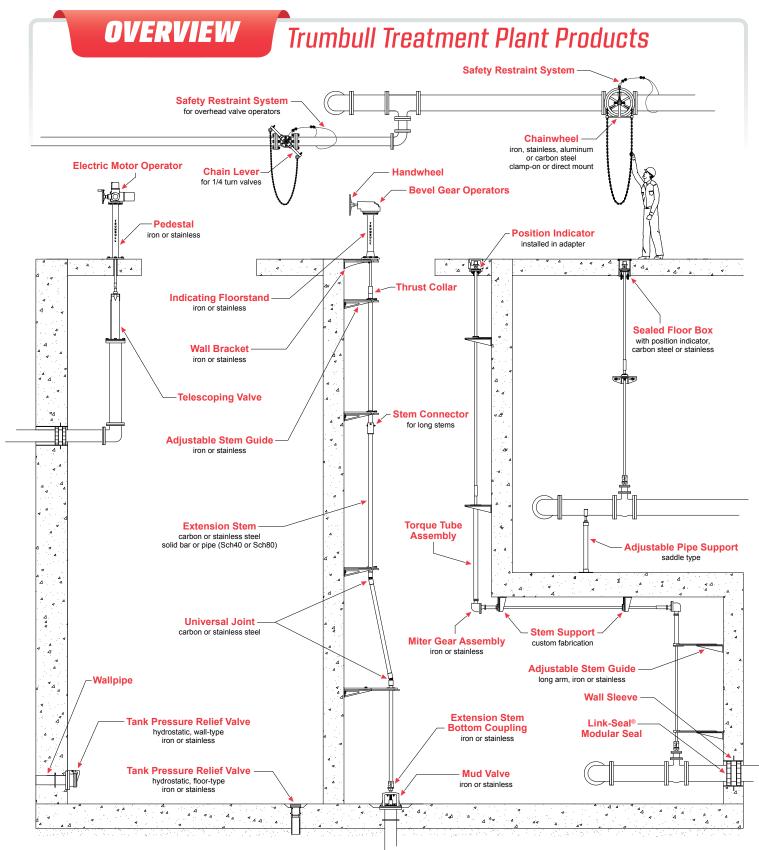
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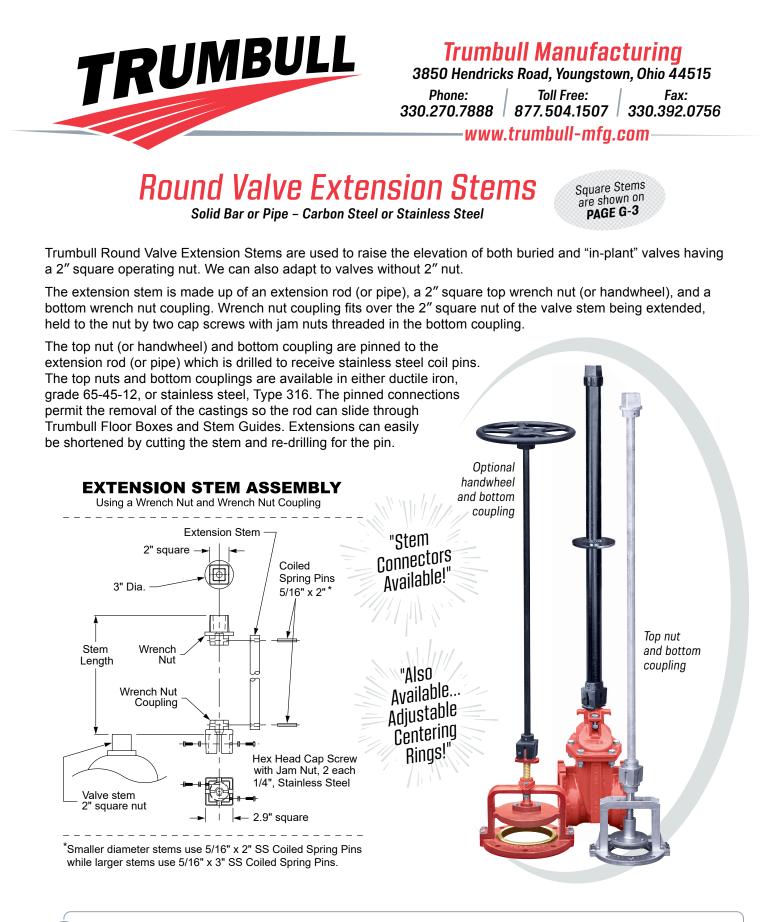
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Extension Stems are normally furnished complete with top nut (or handwheel), rod, bottom coupling, two cap screws with jam nuts and pins. Top nuts and bottom couplings are also available for separate sale (see page G-4). Universal Joints, Thrust Collars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



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Square Valve Extension Stems

Telescopic and Non-Telescopic Types





Telescopic Stems are a useful option in the choice of Extension Stems, eliminating the need for time-consuming measurements. One of the additional advantages of Telescopic Stems is their ability to adapt to ground movements caused by freezing and thawing cycles. These stems can accommodate the natural shifts and changes in the environment. This solution simplifies the installation process and guarantees long-term durability and reliability. It can streamline operations, and offer peace of mind to professionals working with Extension Stems.

Telescopic Extension Stems can be furnished with Valve Position Indicators for buried service (US Patented), as illustrated on pages F-3 and F-4.

Telescopic Extension Stems are furnished only as complete units. They 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 nontelescopic version uses 1-1/4'' square stock, either solid or tubular, (shown on page F-1).

The top nuts and bottom couplings used with Square Extension Stems have an internal square cavity that fit the square stems. The flat sides inside the cavity bear against the flat sides of the stem, reducing the dependence on the drive pins used to connect the top nuts 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. 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.

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).

See page F-3 for ordering information and page F-4 for adjustment ranges.



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).



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Top Nuts and Bottom Couplings

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

	Solid	Max Torq*	Steel	Max Torq*	Bore	Top Nut	Bottom Coupling
	Rod	in ft-lb	Pipe	in ft-lb	Diameter	ltem №	ltem №
	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
			1″	510	1.330″	367-4901	367-4910
	1-3/8″	530			1.390″	367-4955	367-4965
	1-1/2″	580	1-1/4″	640	1.675″	367-4956	367-4966
	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	l″ squar	e stems	***		367-4930	367-4938
	3/4″	325			0.780″	367-4931	367-4941
l '	1-1/4″	480			1.265″	367-4935	367-4945
l '			1″	510	1.330″	367-4933	367-4943
	1-1/2″	580	1-1/4″	640	1.675″	367-4934	367-4944
			1-1/2″	740	1.929″	367-4932	367-4942
			2″	920	**	367-4936	367-4947
	1-1/4	l" 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.

Contraction of the second seco
Top Nut for small round stom
7. Top Nut for small round stem
2. Top Nut for large round stem
3. Top Nut for 1-1/4" square stem
4. Bottom Coupling
for small round stem
5. Bottom Coupling
for large round stem

1-1/4" square stem

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

nunu							
Cast Handwheels							
ltem №	Material	O.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

6. Bottom Coupling for

Item №	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.



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Valve Extension Stems

ORDERING INFORMATION

ROUND COMPLETE EXTENSION STEMS

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

Material	Pipe or Solid Bar	Туре	Operator	Coating	
	Dino	Sch. 40	2″ DI Square Nut, or 14″ CI Handwheel*		
Carbon	Pipe	Sch. 80		Black Enamel **	
Steel	Calid Day	Hot Rolled			
	Solid Bar	Cold Rolled			
	Dipo (Sob 40)	304	2″ SS Square Nut, or 14″ Handwheel, CI or SS	n/a	
Stainless	Pipe (Sch. 40)	316			
Steel	Collid Dor	304		n/d	
	Solid Bar	316			

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

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 page G-4).
- ** Tnemec 37H-77 & N140-1211 normally stocked. Additional coatings, such as power coating, also available.

EXTENSION STEM COMPONENTS ONLY

- 7. Specify quantity of top nuts, bottom couplings, handwheels and stem couplings. Top nut and handwheel furnished with stainless coil pin. Bottom coupling furnished w/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".

DS&Y Adapters "Outside Screw and Yoke" Adapters Solver 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. Handwheel



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Miter Gears

Gear Ratio = 1:1, Input/Output Shaft Diameter = 0.984"

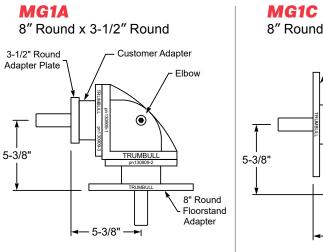
Trumbull Miter Gears are heavy-duty, enclosed gear assemblies available in ductile iron and stainless steel models, and are designed to fulfill these primary functions:

- 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.

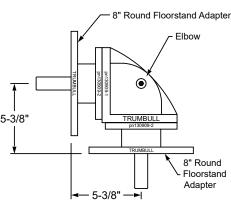
Housings are cast 316 stainless steel or ductile iron 65-45-12 with a Tnemec N140-1211 two-part epoxy, NSF-61 certified exterior coating. The gears are case hardened steel; the gear shafts and fasteners are 316 stainless steel. Trumbull Miter Gear Assemblies are provided standard with a recessed grease fitting for easy maintenance and Buna-N O-ring seals on each end adapter.



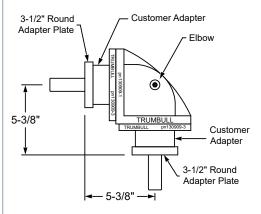
Trumbull Miter Gears have a recommended maximum working torque of 200 ft-lb (270 N-m). For applications with higher torque requirements, please consult Trumbull.



MG1C 8" Round x 8" Round



MG3A 3-1/2" Round x 3-1/2" Round



End Configurations	Model №	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 8" Round	MG1C	46.00 lbs.	Both 8" Round ends mate to our Floorstands & other fabrications such as torque tubes
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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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.

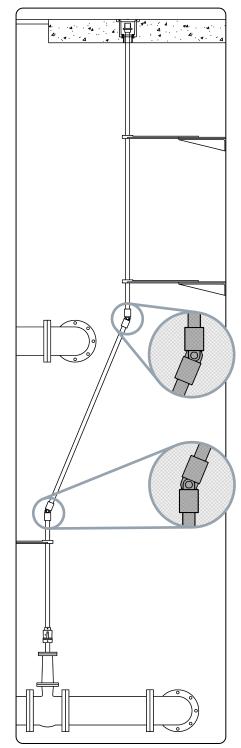
An optional resilient boot is recommended to seal and protect the Universal Joint, while still permitting full motion. The boot is packed with water-resistant grease on-site, keeping out contaminants and maximizing service life. The boot is furnished with stainless steel retainer clamps. Grease is supplied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



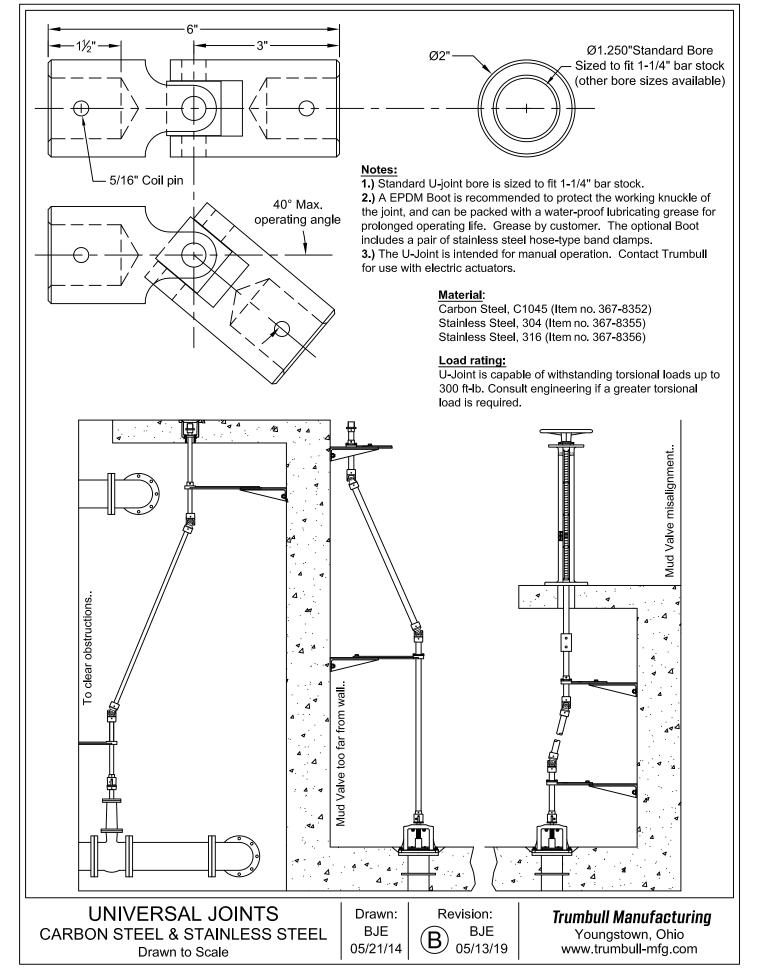
Material	Item №	Weight
Carbon Steel	<i>367-8352</i> **	3.65 lbs.
T304 SS	367-8355**	3.70 lbs.
T316 SS	367-8356**	3.70 lbs.

Includes two clamps			
ltem №	Weight		
367-8360	0.20 lbs.		

- * Recommended maximum torque is 250 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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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.

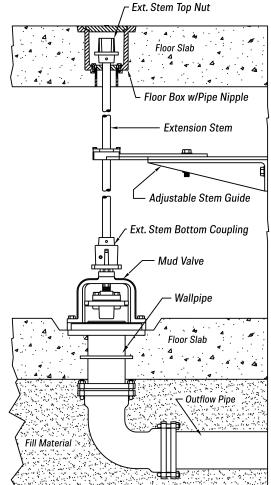
The Trumbull Cast Iron Floor Box is designed for varying slab thicknesses. Overall length is 6", but the underside is tapped to accept 2-1/2" NPT steel pipe nipples for floors thicker than 6". When it's necessary to use a Floor Box with thicker floors, use a 2-1/2" pipe nipple, 1/2" longer than the increase 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.



- **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

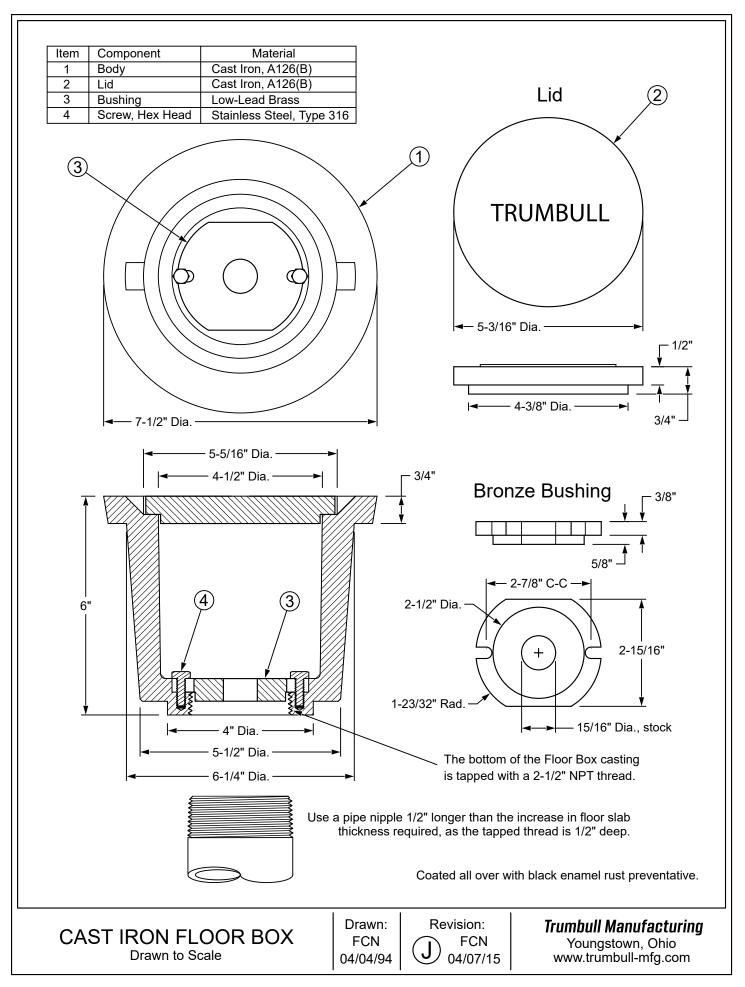


Typical Floor Box installation

Bushings are available in:

- Low-lead brass
- Ultra High Molecular Weight Polyethylene (UHMWPE)
- NSF 61 approved polymer (Ryton[®] R-4)

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

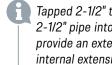
Available in Cast Carbon Steel and Cast Stainless Steel



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.



Floor Boxes

ltem №	Weight	
367-4623	24.20 lbs.	
367-4624	23.50 lbs.	

* Carbon steel models are EDP coated.

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.

Optional Accessories

Available as special order

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

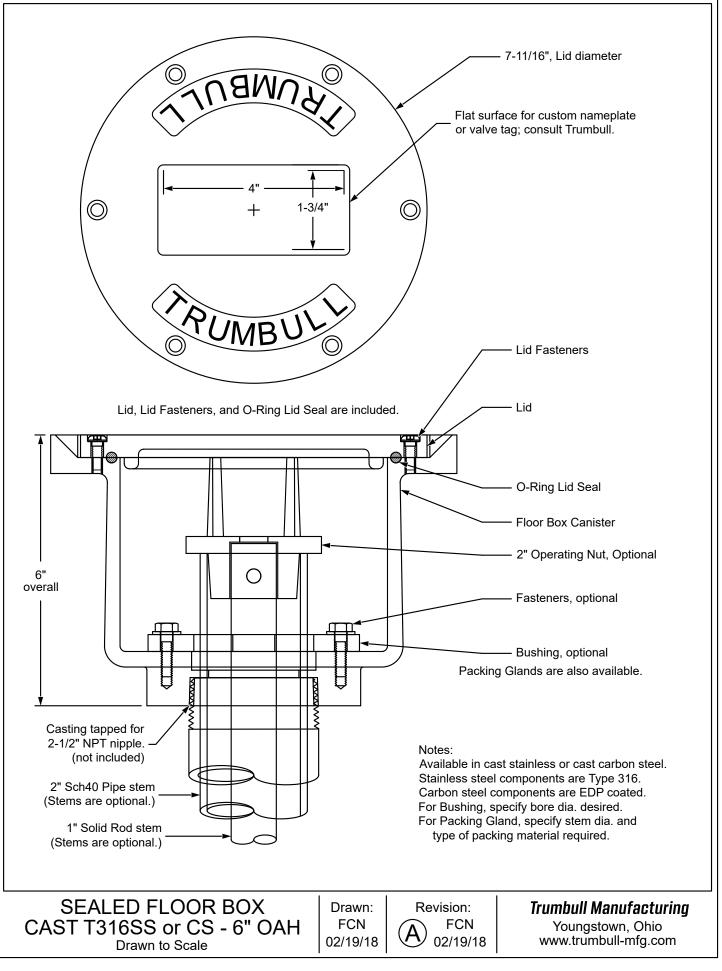














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11-1/8" Sealed Floor Boxes

Available in Cast Carbon Steel and Cast Stainless Steel



Trumbull Sealed 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.

Floor Boxes

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

* Carbon steel models are EDP coated.

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

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.

Optional Accessories Available as special order

PACKING GLAND with stainless steel follower seals bottom of Floor Box

BRASS BUSHING

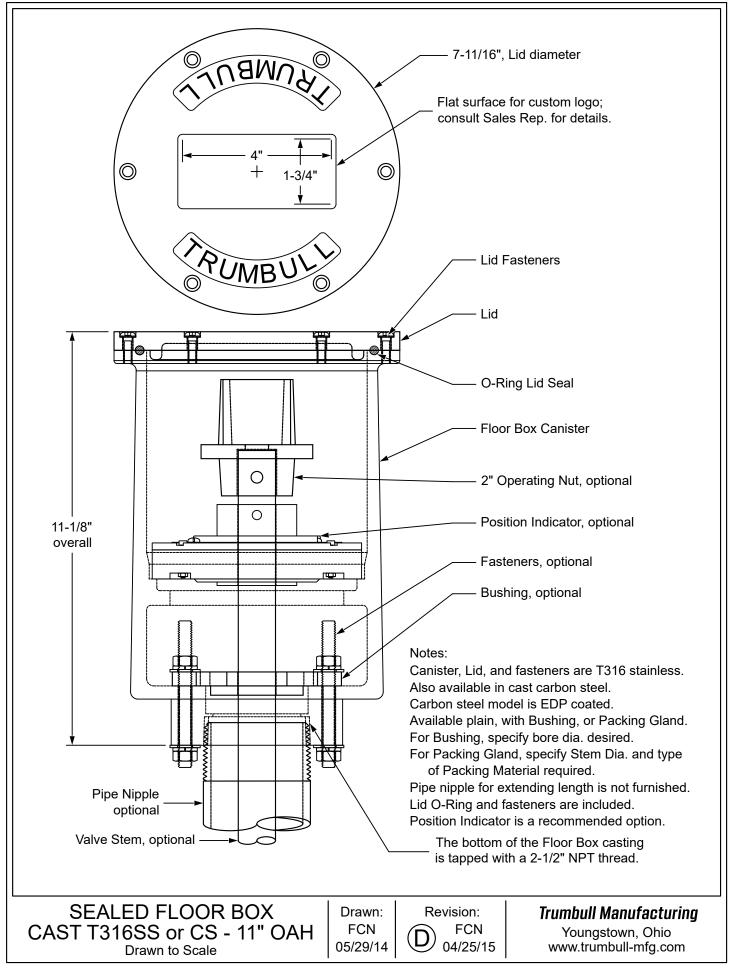
aligns extension stem when bottom seal is not utilized

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.	Se for
Brass Bushing	1.75 lbs.	101

ee Page G-13 r other custom options.





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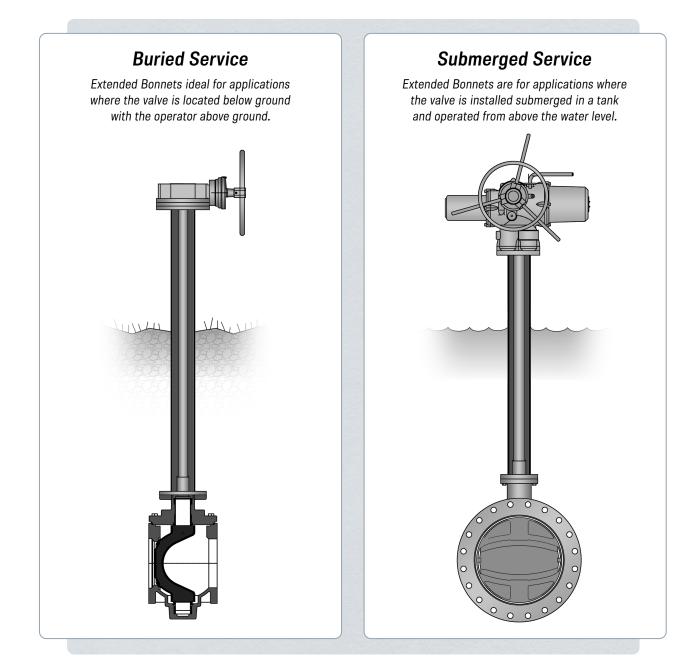
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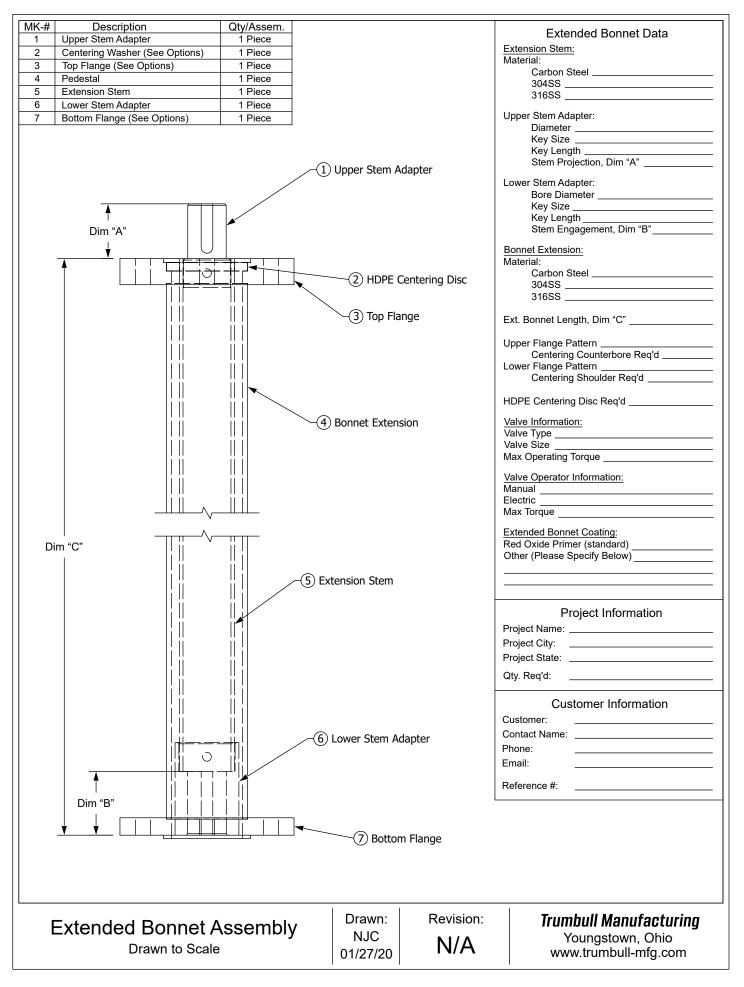
Extended Bonnets

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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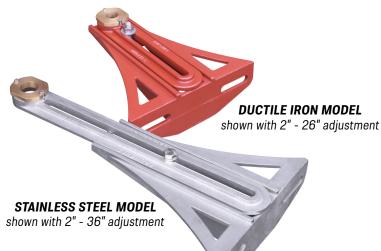
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Adjustable Stem Guides

Available in Ductile Iron and Stainless Steel

Trumbull Stem Guides are designed for installation in treatment plants and pump stations to provide support for valve extension stems. These Stem Guides are adjustable for stems as close to the wall as 2", or as far away as either 26", 36" or 48".

All ductile iron castings coated with Tnemec N140-1211 epoxy (complies with NSF 61). See reverse side for drawing.



Adjustable Stem Guides**

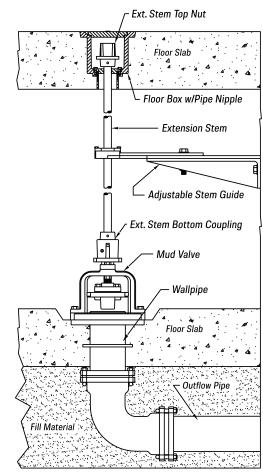
	Ductile Iron		316 Stainle	ess Steel
Adjustment	Non- Domestic Domestic		Domestic	Non- Domestic
Range	Item №	ltem №	ltem №	ltem №
2" to 26"	1367-4960	367-4960	1367-5960	367-5960
2" to 36"	1367-4970	367-4970	1367-5970	367-5970
36" to 48"	1367-4974*	367-4974*	1367-5974*	367-5974*

* Adjustable arm for 36" to 48" range will be fabricated. Stem 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

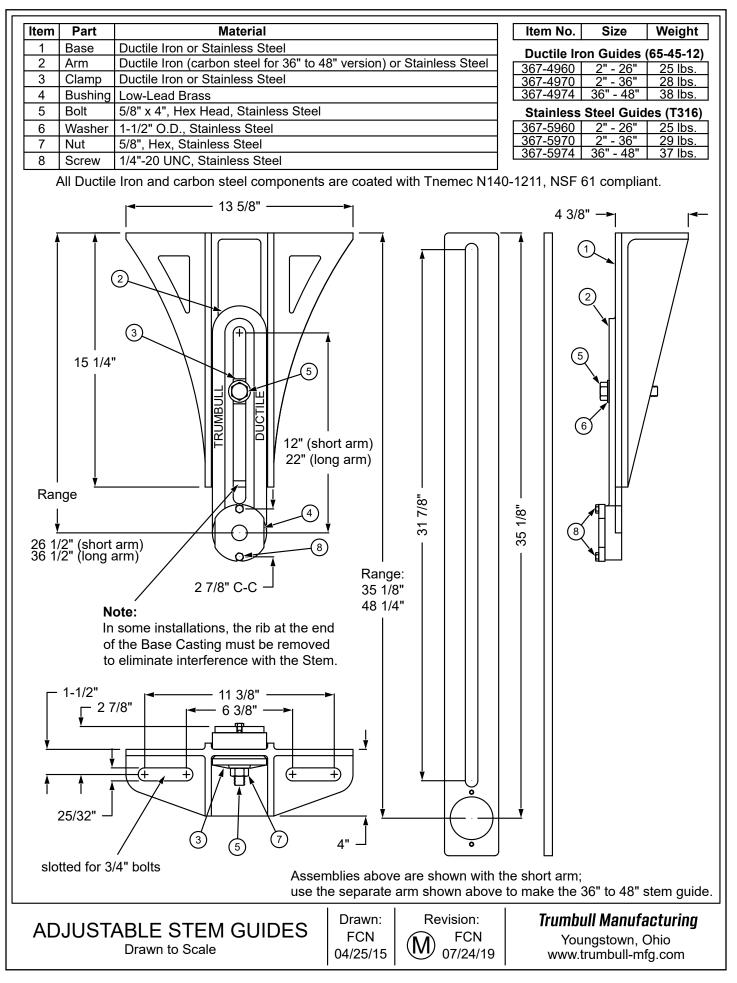


Typical Stem Guide installation

Stem Guides are generally recommended at 6' to 8' intervals. Bronze bushings can be drilled up to a 2-1/8" bore diameter for 2" O.D. stems. By removing the bushing larger stems can be accomodated, up to 2-3/8" O.D. See pages G-21 – G-24 for Stem Guides for larger diameter stems.

Bushings are available in:

- Low-lead brass
- Ultra High Molecular Weight Polyethylene (UHMWPE)
- NSF 61 approved polymer (Ryton[®] R-4)



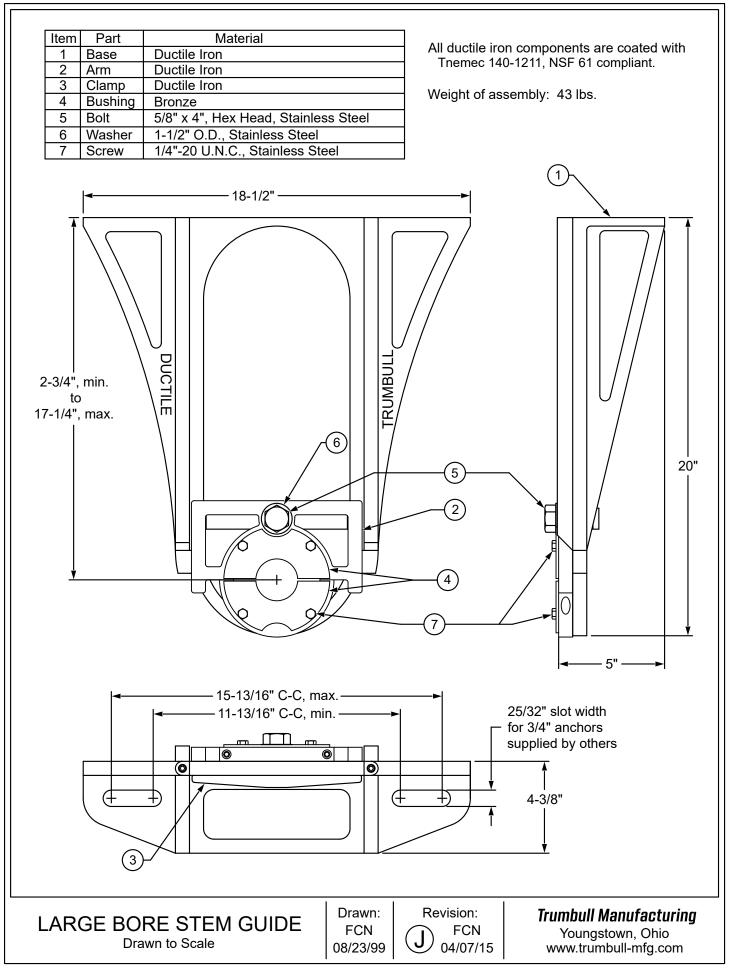


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Larger Diameter Adjustable Stem Guides Removable End Cap Design

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. Wall Bracket for Floorstand Stem Guides are generally recommended at 6' to 8' intervals. 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, Typical installation on centers from 11-3/4" to 15-3/4", supplied by others 7. Quantity required **2.** Trumbull item number For Stem 3. O.D. of stem being used, Adjustment Range Item № 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 Floorstand Stem & Connector **SPLIT BUSHINGS** simplifly the installation of larger diameter extension stems Larger Diameter Adjustable Stem Guide Large Diameter Ext. Stem **Ductile Iron** For Stem Item № Adjustment Range Diameters Weight Typical installation 367-2454 4" to 18" * 4" to 6-1/2" 38.65 lbs. 7. Quantity required ISTRUCTIONS Iraer 316 Stainlass Staal 2. Trumbull item number 3. O.D. of stem being used,

J		33 31661	For Stem		
	ltem №	Adjustment Range	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

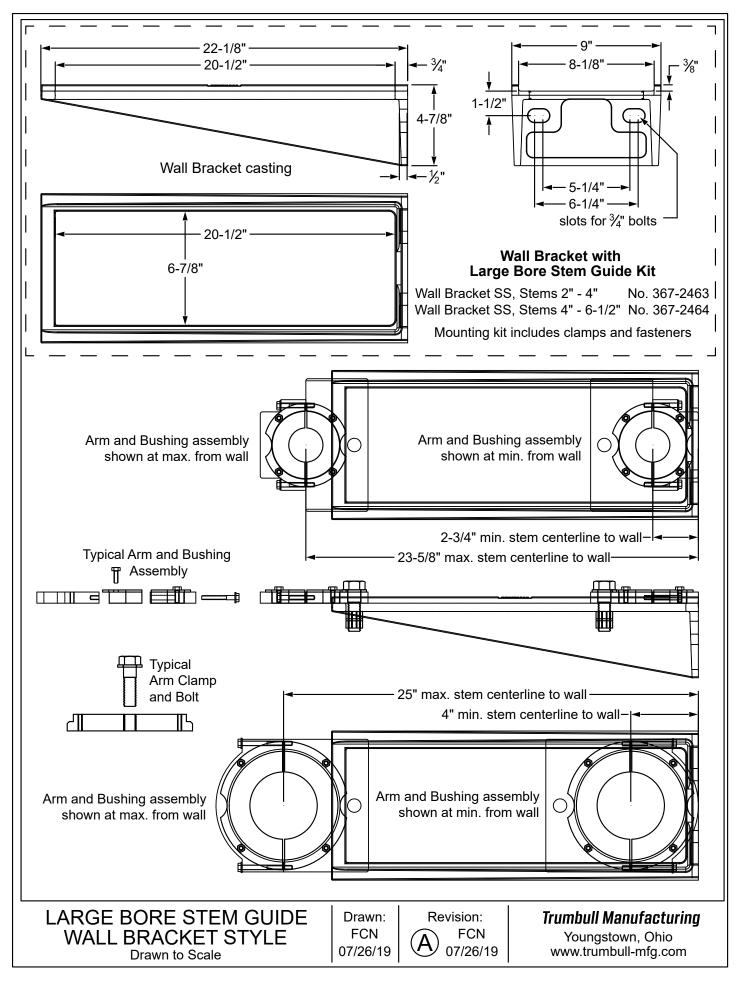
Stem Guides with 2-3/4" to 17-1/4" adjustment range and removable end cap design are shown on pages G-21 and G-22. or desired bushing material & hole size

If size is not specified, the following bore

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

diameter bushings are supplied:

2-1/8" for item 367-2463





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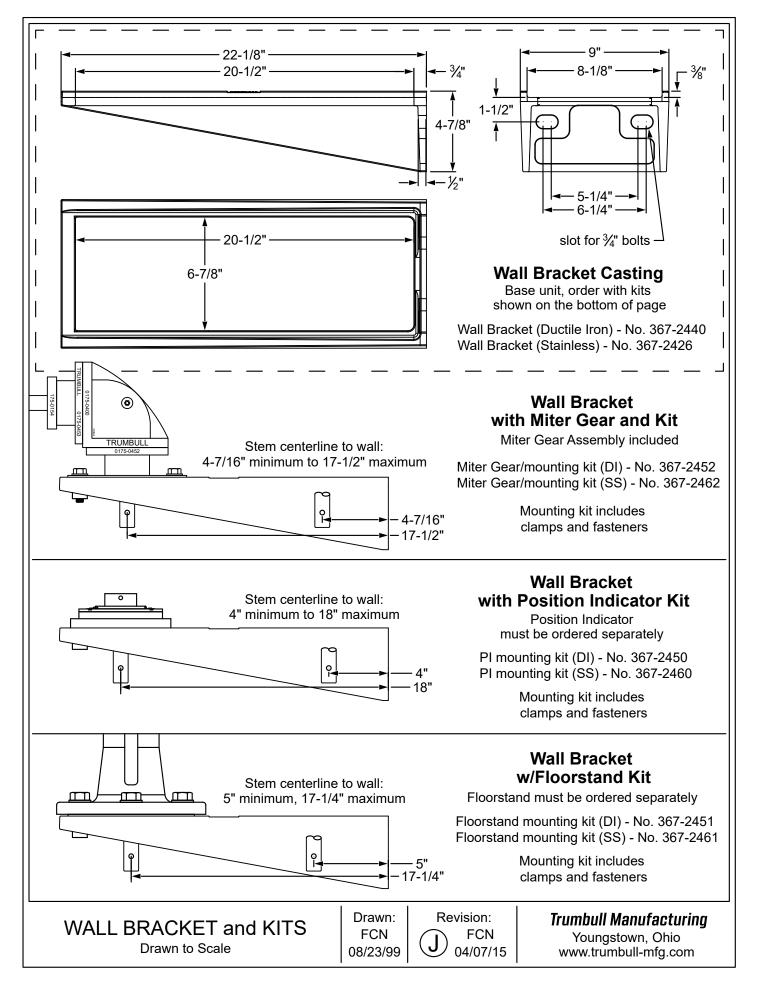
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Wall Brackets

Designed to Accommodate a Variety of Different Applications

MUTERORDING MUTERORDING MUTERORDING Margin Material Adjustment Range (stem to wall) Material Material Material Adjustment Range (stem to wall) Material Material Material	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.							
Item № Material Stainless 3-1/2" to 18" [varies] 367-2450 316 Stainless 3-1/2" to 18" [varies]	APP MI					. Miter Gears		
Item № Material Stainless 3-1/2" to 18" [varies] 367-2450 316 Stainless 3-1/2" to 18" [varies]			ltem №	Material		Weight		
Item Ne Material Mission Indicator Sold separately, shown on pages F-9 - F-10. Concrete anchors not included. Vision Indicator Sold separately, shown on pages F-9 - F-10. Concrete anchors not included. 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] Vision Indicator Sold separately, shown on pages G-44 - G-52. Concrete anchors not included. Vision Indicator Sold Separately, shown on pages G-44 - G-52. Concrete anchors not included. Vision Indicator Sold Separately, shown on pages G-44 - G-52. Concrete anchors not included.	GEL		367-2452	Ductile Iron	, ,			
Item № Material Stainless 3-1/2" to 18" [varies] 367-2450 316 Stainless 3-1/2" to 18" [varies]	NS R		367-2462	316 Stainless	4-1/2" to 17-1/2"			
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. Material Adjustment Range (stem to wall) Weight Weight 367-2460 316 Stainless 3-1/2" to 18" [varies] 367-2460 316 Stainless 3-1/2" to 18" [varies] Mit 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. Item № Material Adjustment Range (stem to wall) Weight [varies] Motorities 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. Item № Material Adjustment Range (stem to wall) Weight Weight 367-2451								
Store 2400 Store Stanliess 3-1/2 tore [varies] Item № 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. Adjustment Range (stem to wall) Weight Item № Material Adjustment Range (stem to wall) Weight 367-2451 Ductile Iron 4-7/8" to 17-1/8" [varies]	APPLI VE Kit incl	ludes Wall B The Position	racket, Position Indicator is sc ors not include Item № 367-2450	n Indicator Housing, old separately, showr d. Material Ductile Iron	(2) clamps and hardware on pages F-9 – F-10. C Adjustment Range (stem to wall) 3-1/2" to 18"	oncrete Weight [varies]		
The Floorstands and Pedestals are sold separately, shown on pages G-44 - G-52. Concrete anchors not included. Adjustment Range Item № Material Adjustment Range (stem to wall) Weight 367-2451 Ductile Iron 4-7/8" to 17-1/8"			36/-2460	316 Stainless	3-1/2" to 18"	[varies]		
Wall Brackets are also used as a Larger Diameter Stem Guides, as shown on pages G-23 and G-24.	Stor Stamless 3-1/2 to its [varies] Item № Naterial Adjustment Range (stem to wall) Weight 367-2451 Ductile Iron 4-7/8" to 17-1/8" [varies]							

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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.

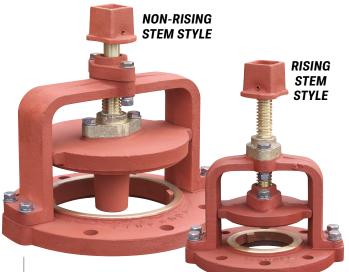
Nuts, bolts and gaskets for mounting to floor pipe are NOT furnished but can be ordered separately. Ductile iron components are coated with Tnemec N140-1211 epoxy, per NSF 61.

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

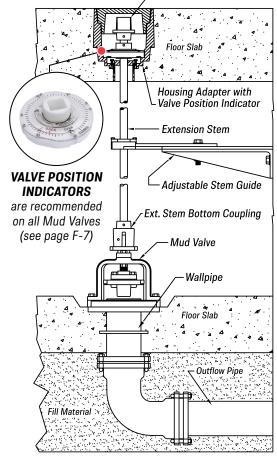
The flange drilling is according to ANSI 125[#] STD. on all sizes; however, one hole under each leg of the yoke is not available for fastening to the mating flange.

	Non-Ris	sing Stem	Rising	y Stem
Size	ltem №	Weight	ltem №	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	8 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.		
18″	367-1433	256.00 lbs.) lbs. Consult Trumbu for availability.	
20″	367-1434	281.00 lbs.	ior availability.	
24″	367-1435	450.00 lbs.		

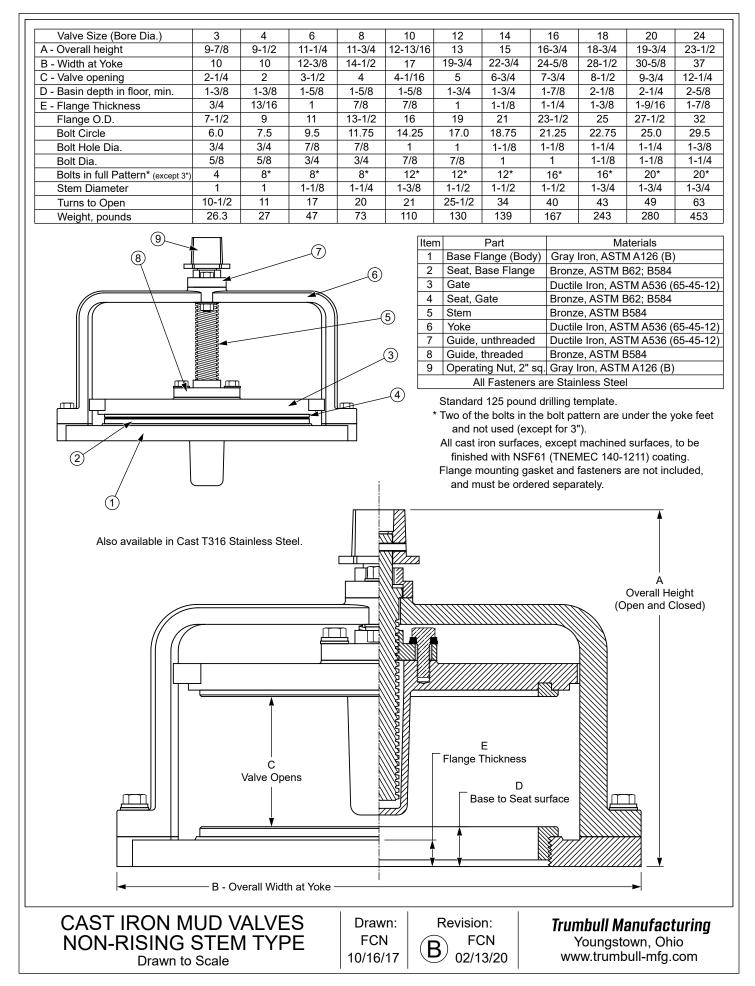
See page G-34 for installation options.

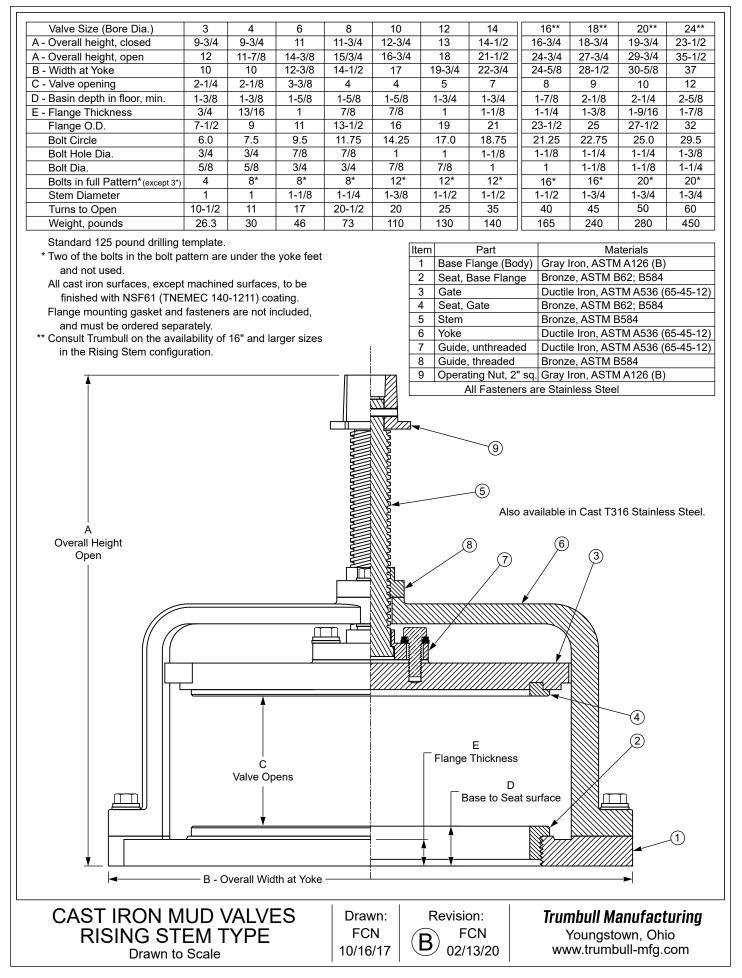


— Ext. Stem Top Nut



Typical Mud Valve Installation







Why Choose Type 316 Stainless Steel Mud Valves?

Trumbull Mud Valves are manufactured in ductile iron and cast stainless steel. Stem designs include Non-Rising Stem (NRS), Rising Stem (RS), as well as sliding stem. A full line of accessories are offered to operate our Mud Valves, including Valve Position Indicators, Extension Stems, Stem Guides, Floorstands and Floor Boxes.

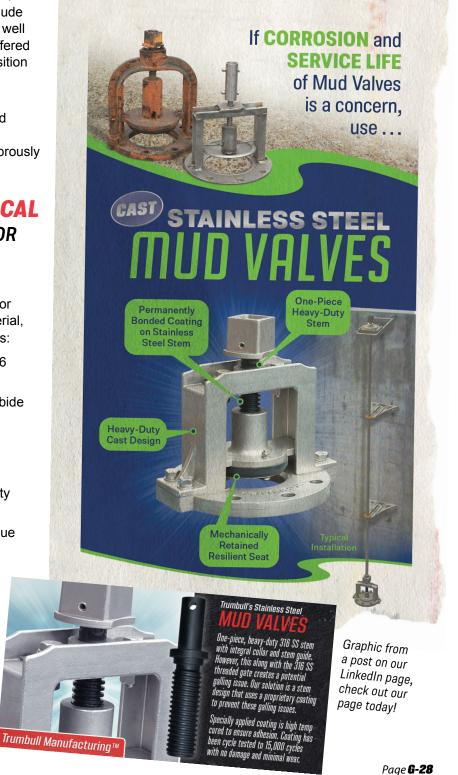
We stand behind our products with experienced Engineering and Field Service personnel. Our products are designed for long life, and are rigorously tested in-house and at independent labs.

EXTEND **USEFUL LIFE** OF **CRITICAL VALVES** AND COMPONENTS FOR AN AFFORDABLE PREMIUM!

Premium stainless Mud Valves use only cast stainless components. In addition to the superior corrosion resistance of the stainless steel material, our stainless Mud Valves include these features:

- Heavy-duty CAST stainless steel, type 316
 - 1. No-weld components
 - 2. Cast design eliminates problem of carbide precipitation from welding
 - 3. Stainless castings passivated per ASTM A-967
- Resilient seats are field-replaceable and mechanically retained; available in a variety of elastomers
- One-piece heavy-duty stem, 3rd party torque tested to over 500 ft-lb
- Permanently bonded coating on stainless stem prevents galling, 3rd party tested to over 15,000 cycles
- Rising stem, non-rising stem and sliding stem styles available
- "All stainless" installation available with stainless Extension Stem, Stem Guide and Floorstand

Graphics from a 2012 Trumbull Manufacturing advertisement.





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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.

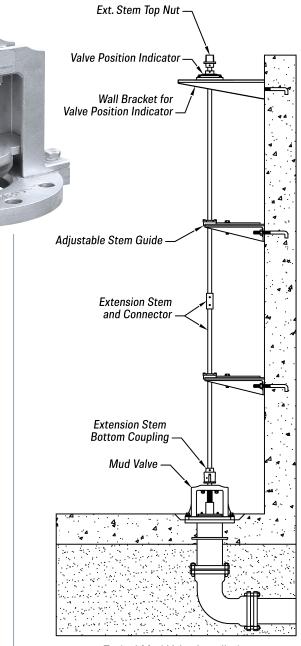
Cast components eliminate corrosion problems frequently caused when stainless steel is welded. Castings are passivated after machining, per ASTM A-967. Heavy-duty design incorporates generous wall thicknesses and stem diameters for maximum strength and corrosion protection. Seat is SBR rubber for positive shutoff. Mechanically retained seat is field-replaceable. 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**		
	Non- Domestic Domestic		Domestic	Non- Domestic	
Size	Item №	ltem №	Item №	ltem №	
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	
8″	1367-1352	367-1456	1367-1372*	367-1474	
10″	1367-1353	367-1457	1367-1373*	367-1480	
12″	1367-1354	367-1458	1367-1374*	367-1481	
14″	1367-1355	367-1459			
16″	1367-1356	367-1460			
18″	1367-1357	367-1461	*	*	
20″	1367-1358	367-1462			
24″	1367-1359	367-1463			

* Consult Trumbull for availability.

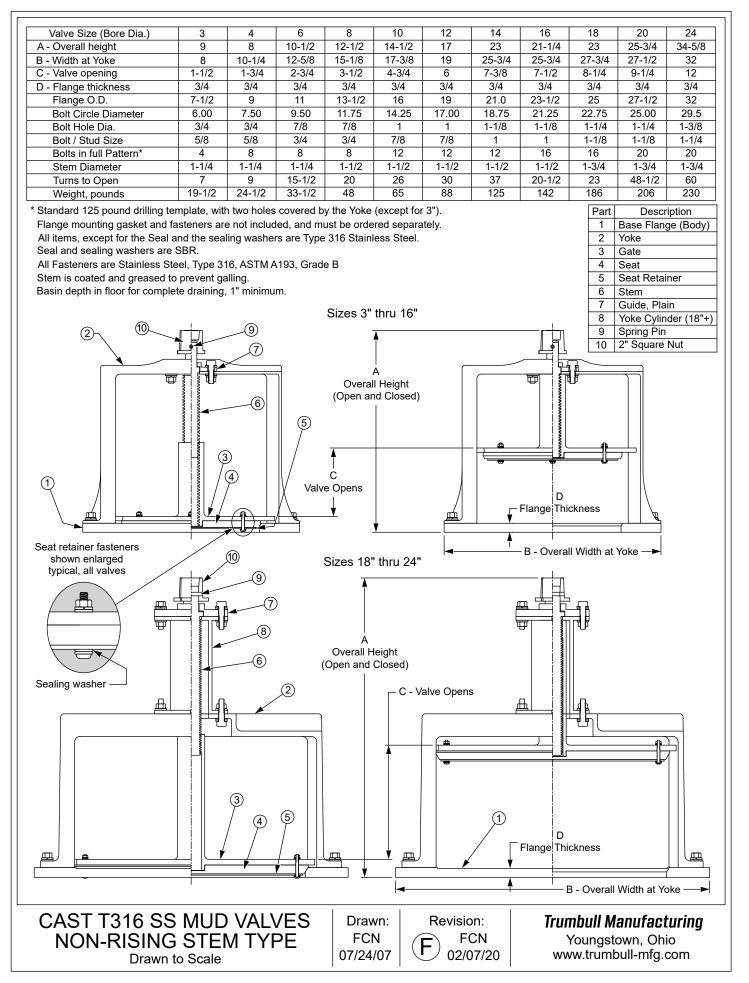
 ** For product weights, see drawings on Pages G-32 & G-33.

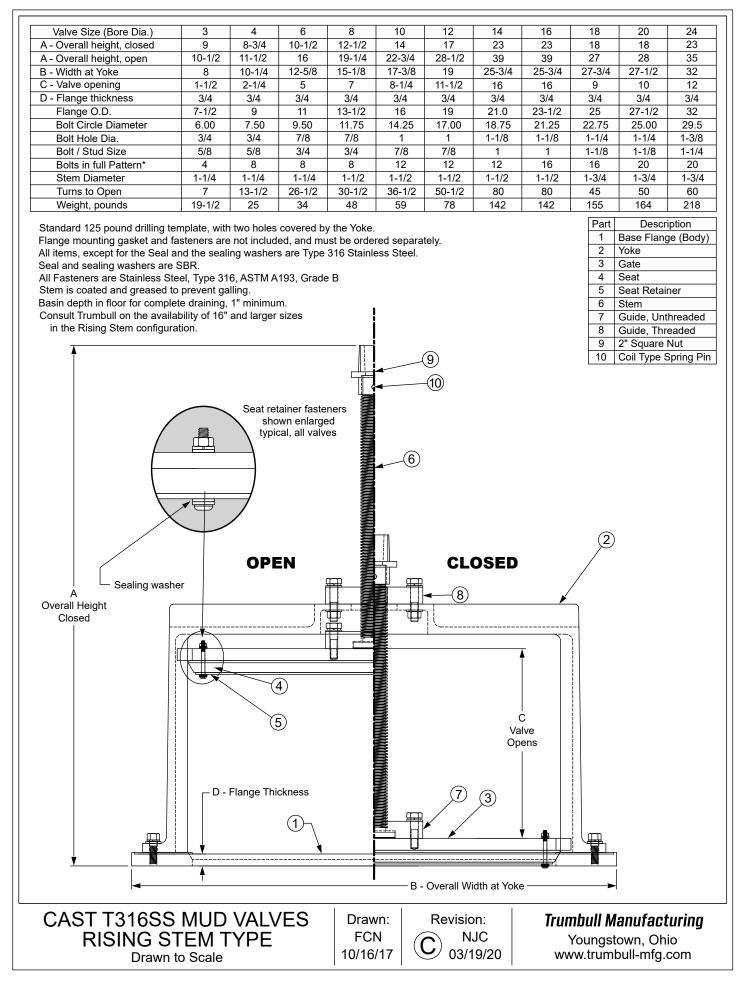


Typical Mud Valve Installation See page G-34 for installation options.

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

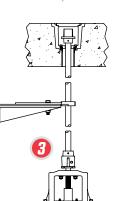
Mud Valve: Cast iron or cast 316 stainless steel Stem Guide: Ductile iron or cast 316 stainless steel Floorstand: Ductile iron (30" or 36") or cast 316 SS (36") Pedestal: Ductile iron or cast 316 SS Extension Stem: Carbon steel or stainless steel Wall Bracket: Ductile iron or cast 316 stainless steel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



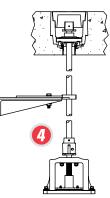
Stem Guide with Handwheel or

2" square nut

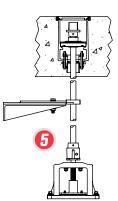
Wall Bracket with Position Indicator



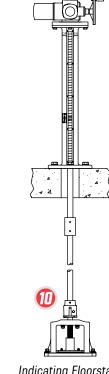
Floor Box w/out Position Indicator



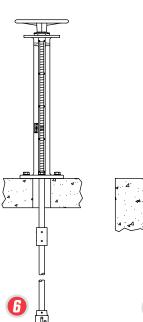
Floor Box with Position Indicator

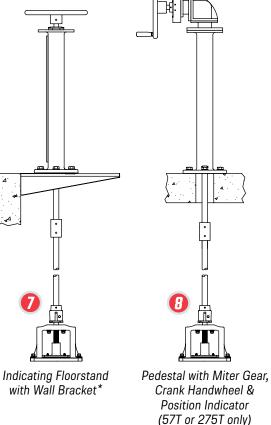


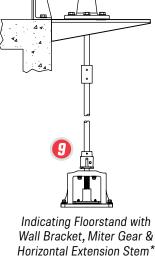
Cast Sealed Floor Box with Position Indicator



Indicating Floorstand with Actuator







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

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Indicating

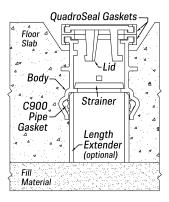
Floorstand



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Floor-Type Hydrostatic Tank Pressure Relief Valves QuadroSealTM 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	
	Domestic	Non- Domestic	Domestic	Non- Domestic
Size	Item №	ltem №	Item №	Item №
4″	1367-1558	367-1558	1367-1540	367-1540
6″	1367-1559	367-1559	1367-1544	367-1544

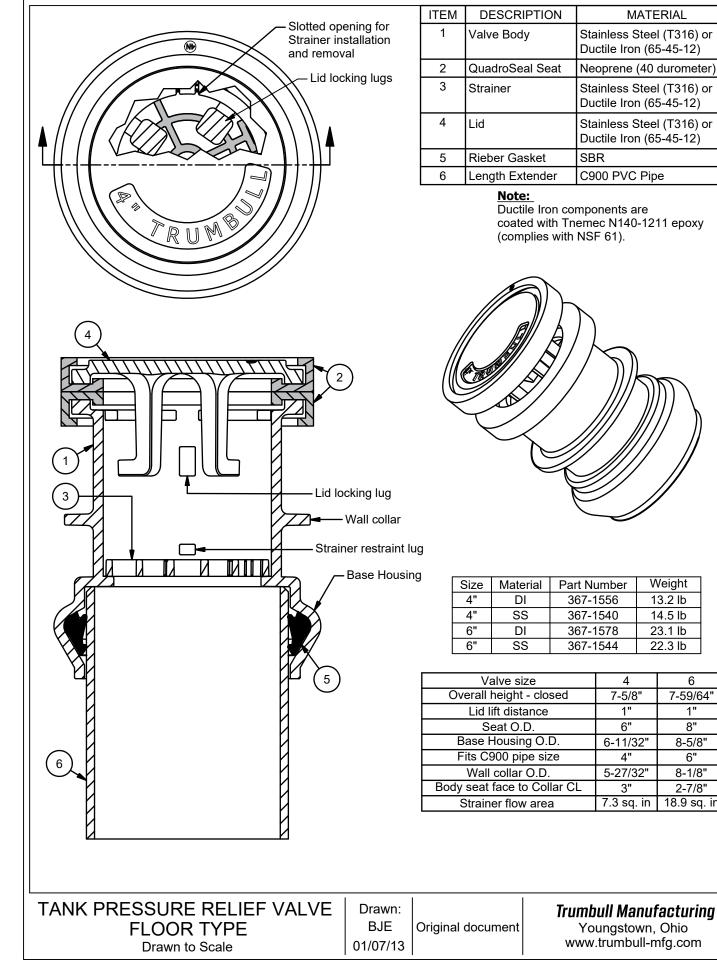
* For product weights, see drawing on Page G-36.

** 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 QuadroSealTM 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** Non- Domestic		316 Stainless Steel		
			Domestic	Non- Domestic	
Size	Item №	ltem №	Item №	Item №	
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		
Size	ltem №	Weight	
4″	367-1000	33.50 lbs.	
6″	367-1002	68.50 lbs.	

316 Stainless Steel

When stainless valves are used, Wallpipes are furnished in ductile iron or fabricated from stainless pipe.

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



qaskets

Unique square design of QuadroSealTM Gasket surrounds casting on 4 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. 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

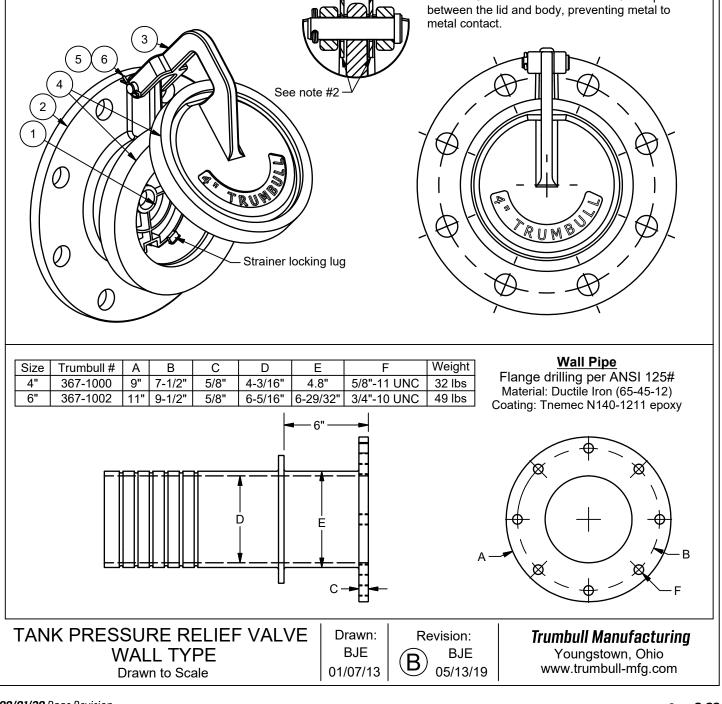
Size	Material	Part Number	Weight
4"	DI	367-1550	14.25 lb
4"	SS	367-1560	14.65 lb
6"	DI	367-1570	21.45 lb
6"	SS	367-1564	22.05 lb

Note:

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

2.) Ductile Iron valves have Isolating washers

made of UHMWPE installed on the Clevis pin



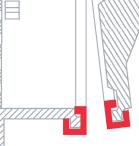
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NO METAL-TO-METAL CONTACT Pressure Relief Valves

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



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.

Example of Alternate Designs as Shown in Service

Trumbull Manufacturing Design

Flap was "frozen shut" by corrosion; the rim is caked with debris that has hardened!

Valve after being pried open.



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

METAL-TO-METAL CONTACT **RESULT:**

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

qaskets

ADROSEAL

It's because of our



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THE STRAINER

STRA

In Trumbull Hydrostatic Tank PRVs

I AM A STRAINER, THE TYPE USED IN WALL-TYPE AND FLOOR-TYPE TANK PRESSURE RELIEF VALVES. YOU MAY NOT THINK ABOUT ME VERY MUCH, BUT I AM ACTUALLY IMPORTANT.

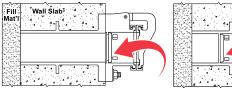
> MY JOB IS TO KEEP ROCK OR GRAVEL FROM THE TANK EXTERIOR FROM INTERFERING WITH THE SEATING SURFACE. BUT YOU MUST **REMOVE AND CLEAN ME PERIODICALLY.** OTHERWISE, THE VALVE CAN GET PLUGGED UP AND THE GROUNDWATER WON'T BE ABLE TO FIND ITS WAY THROUGH THE VALVE INTO THE TANK. IF THAT HAPPENS, THE PRESSURE 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, 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. THEY HAVE TO OCCASIONALLY REMOVE THE VALVE, JUST TO BE ABLE TO REACH ME!

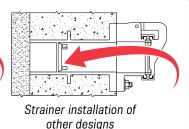
I WISH THE ENGINEERS THAT DESIGNED **EVERY PLANT** WOULD USE VALVES THAT ARE EASIER TO MAINTAIN. I LIKE FIELD REPLACEABLE GASKETS THAT SURROUND THE BODY AND COVER, PREVENTING SEPARATION FROM THE VALVE. PLUS, THOSE SOFT RESILIENT GASKETS ALLOW A BETTER SHUTOFF ON SAND, SILT AND FINE GRAVEL, COMPARED TO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





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Telescoping Valves

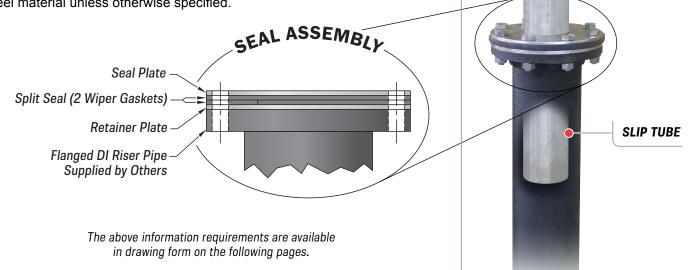
Trumbull Telescoping Valves are designed to regulate the level of fluids in containment structures such as holding chambers, tanks, ponds & lagoons. An example of an application might be to regulate the effluent level in a settling basin. Also known as "Sludge Draw-off Valves" or "Decanting Valves", 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.



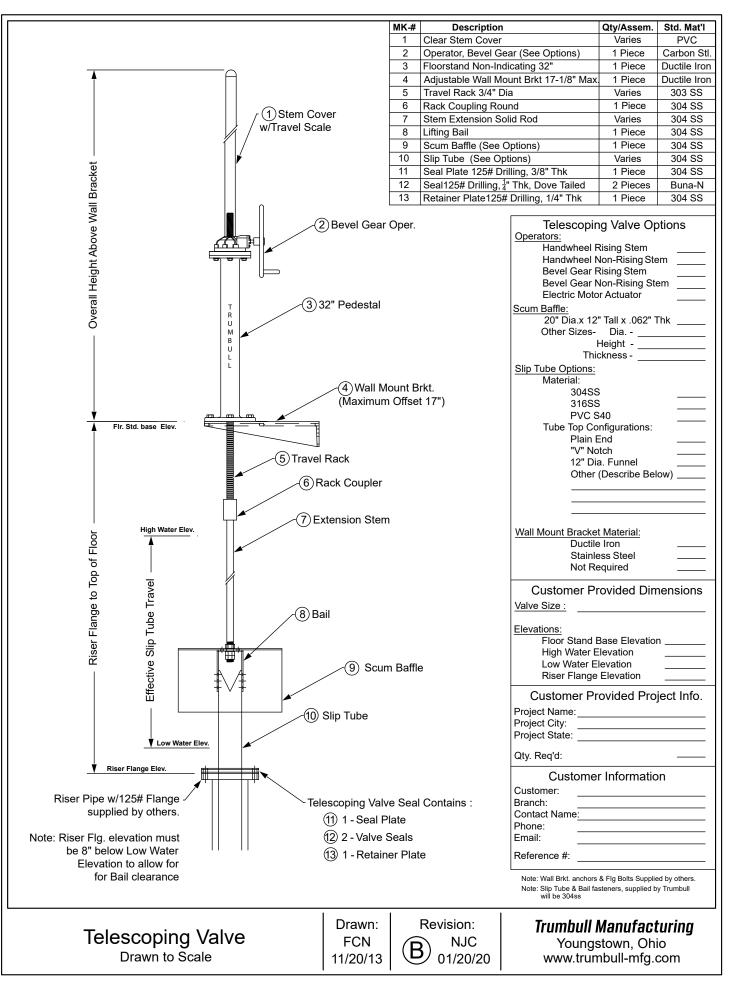
OPERATOR

PEDESTAL

CONNECTING

STEM

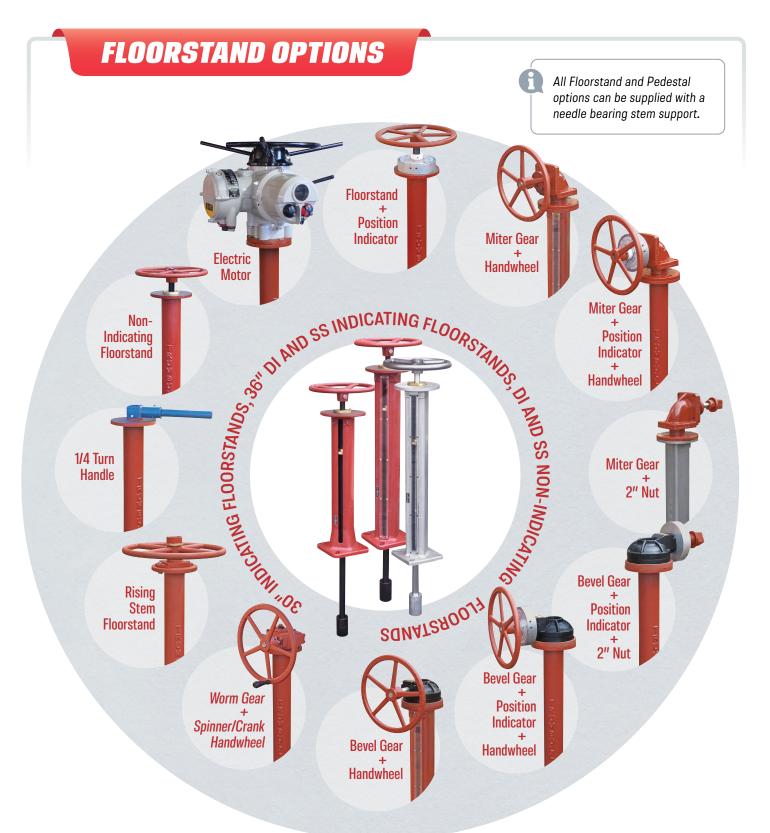
BAIL





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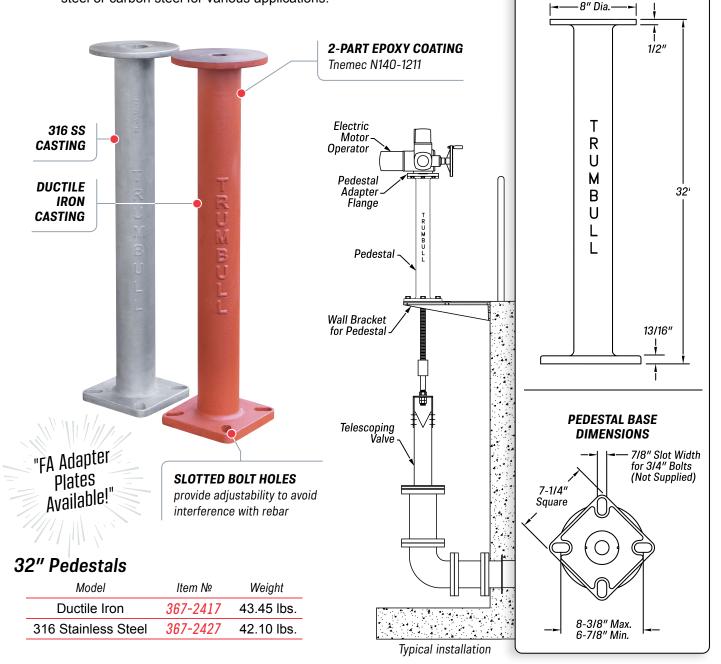


32" Pedestals

Ductile Iron and 316 Stainless Steel

Trumbull 32" Pedestals are designed for installation in treatment plants and pump stations to allow operation of valves at a lower elevation.

Pedestals can be adapted for various custom requirements such as mounting of electric motor operators, manual gear operators, or customer-supplied components. Also available in fabricated stainless steel or carbon steel for various applications.



MULTI-PURPOSE Many Possibilities!

PEDESTAL DIMENSIONS

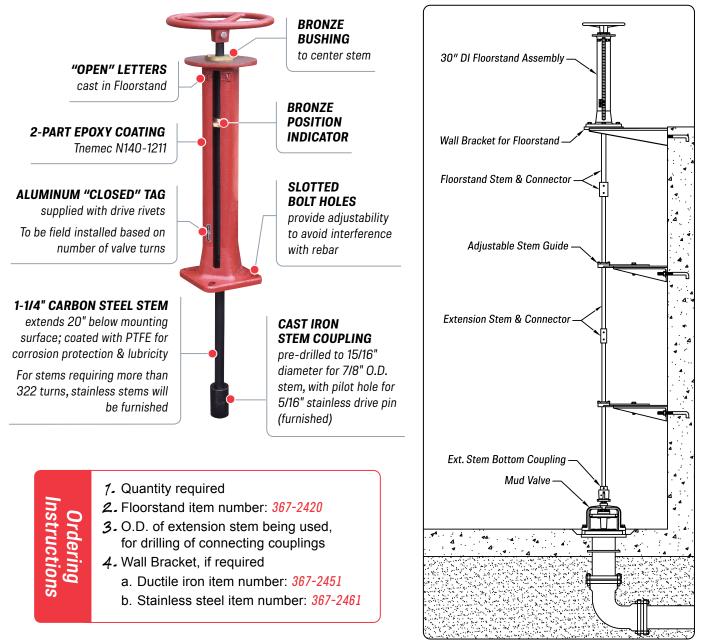


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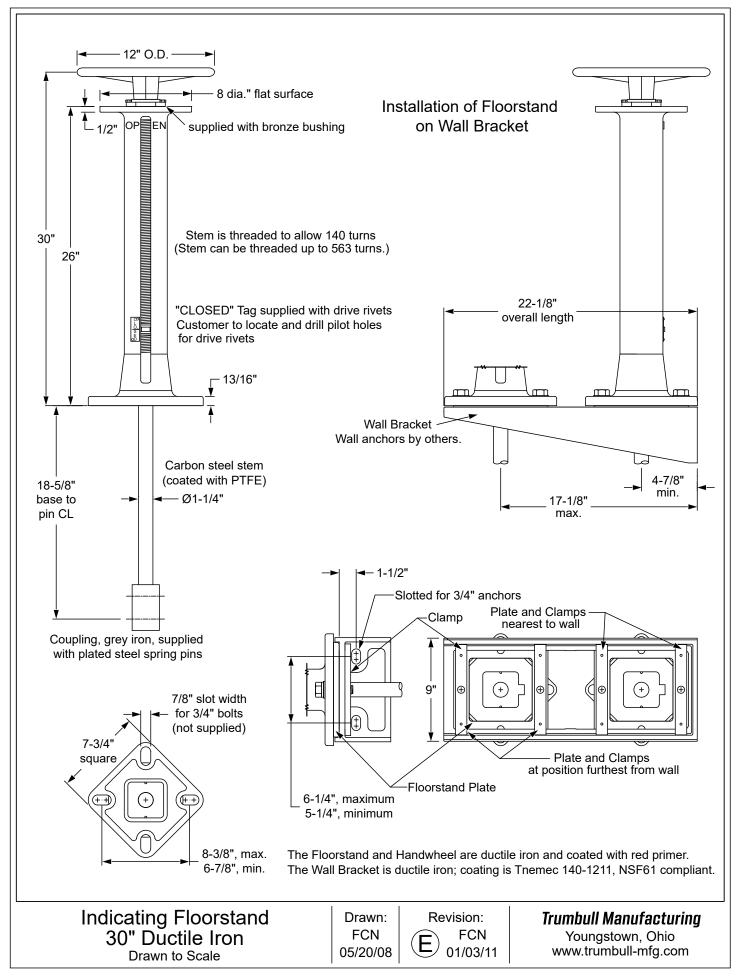
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30" Ductile Iron Indicating Floorstand

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





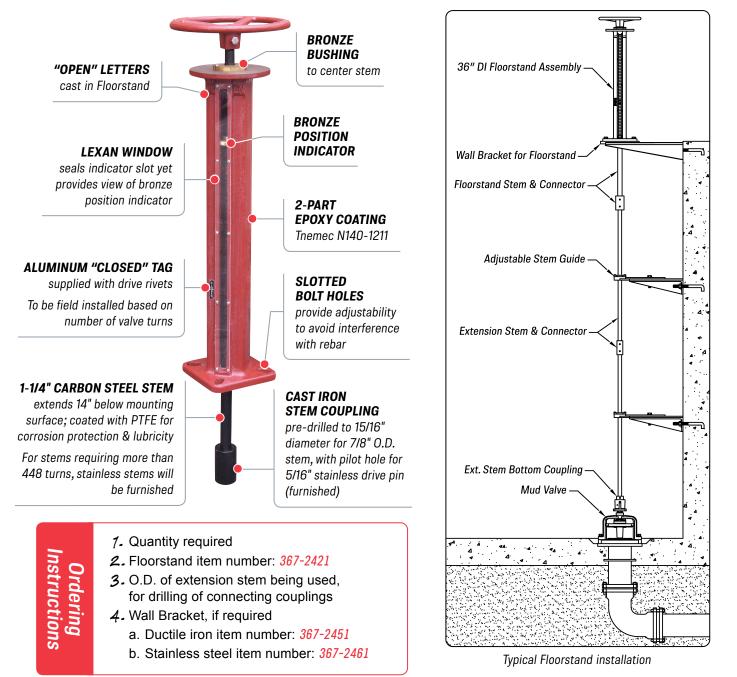
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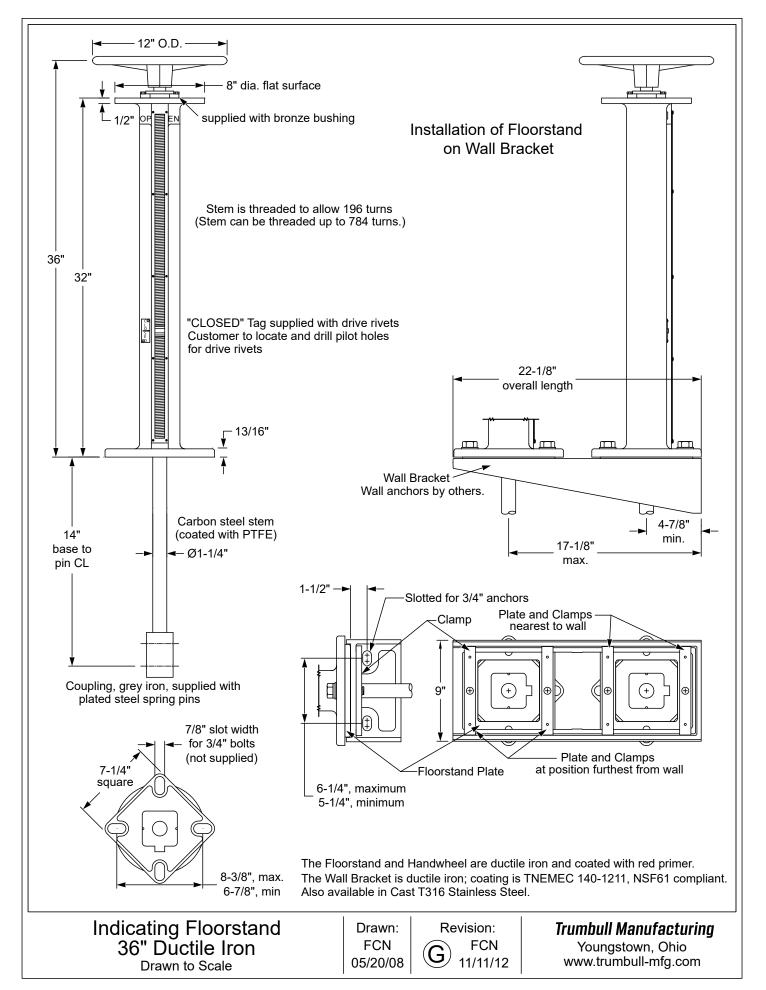
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36" Ductile Iron Indicating Floorstand Includes a Sealed Indicator Slot

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.



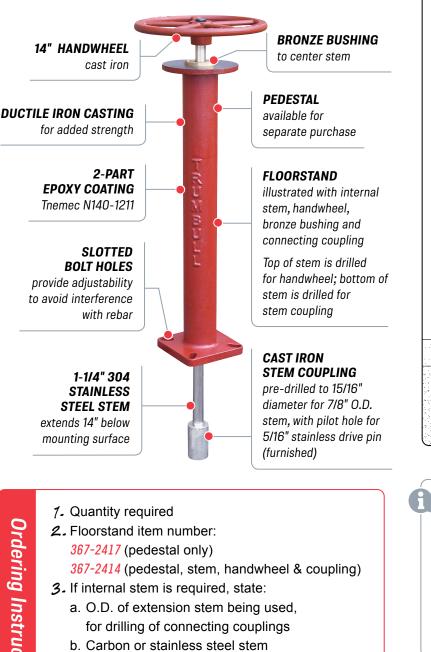


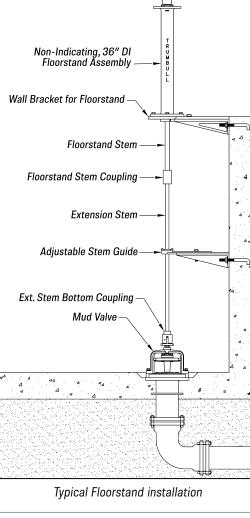


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36" Ductile Iron Non-Indicating Floorstand

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

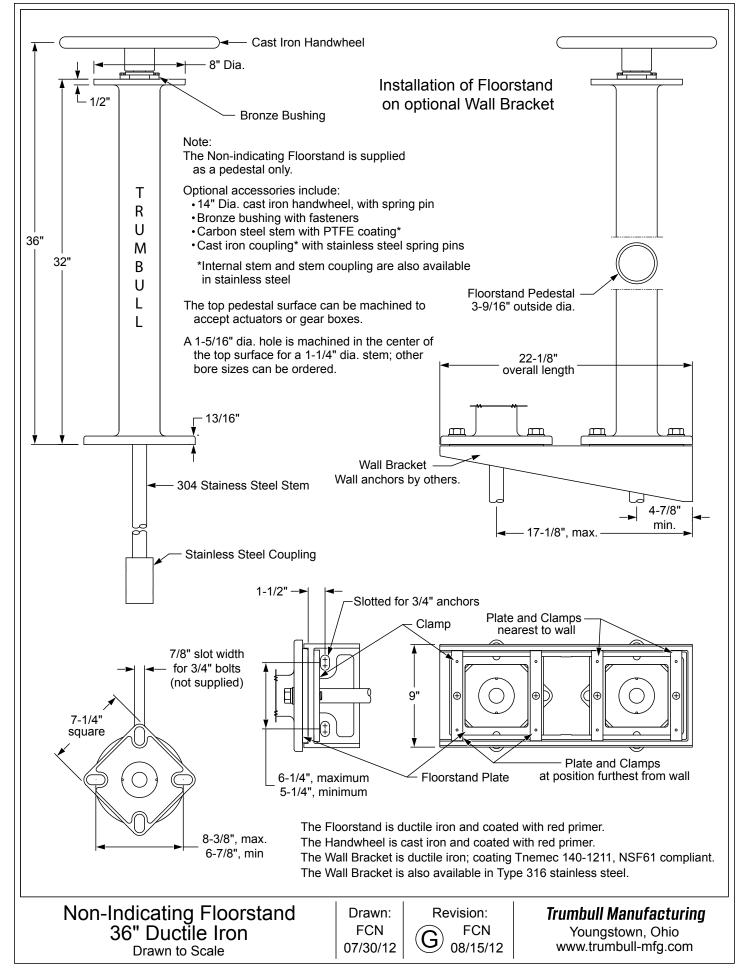
Also available in indicating styles in ductile iron (pages G-45 to G-48) and cast stainless steel (page G-51 to G-52). See page G-34 for custom Floorstand options.

Ordering Instructions

4. Wall Bracket, if required

a. Ductile iron item number: 367-2451

b. Stainless steel item number: 367-2461

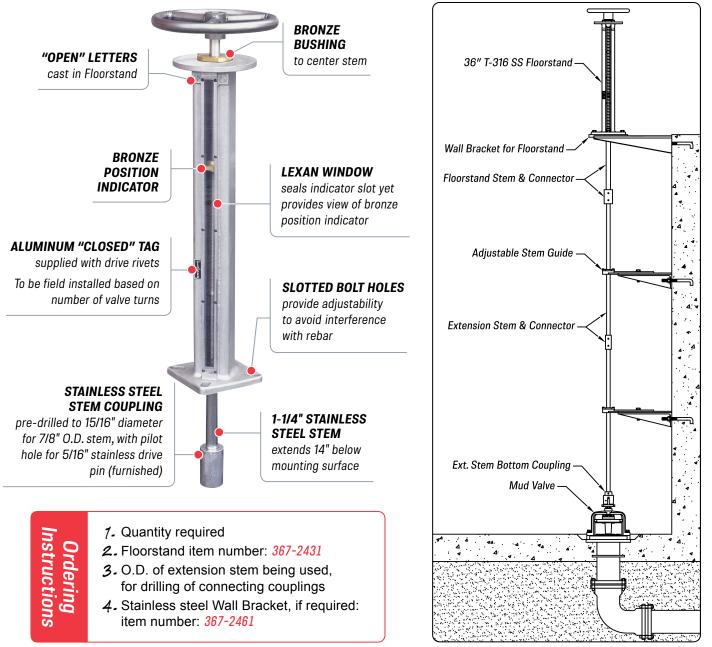




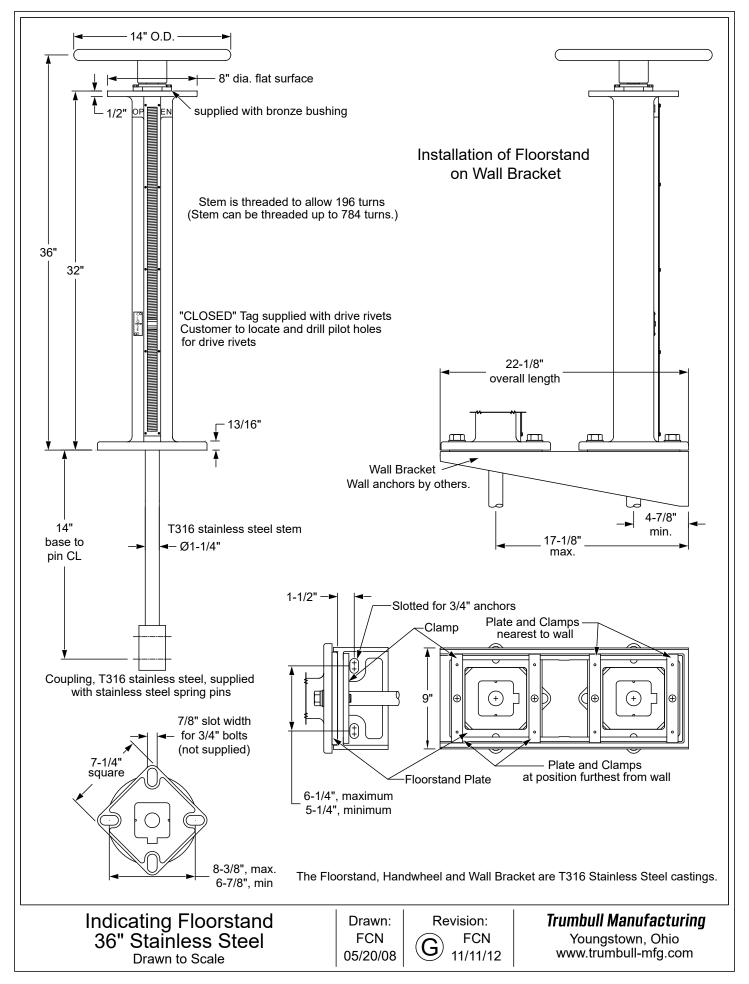
36" Stainless Steel Indicating Floorstand

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

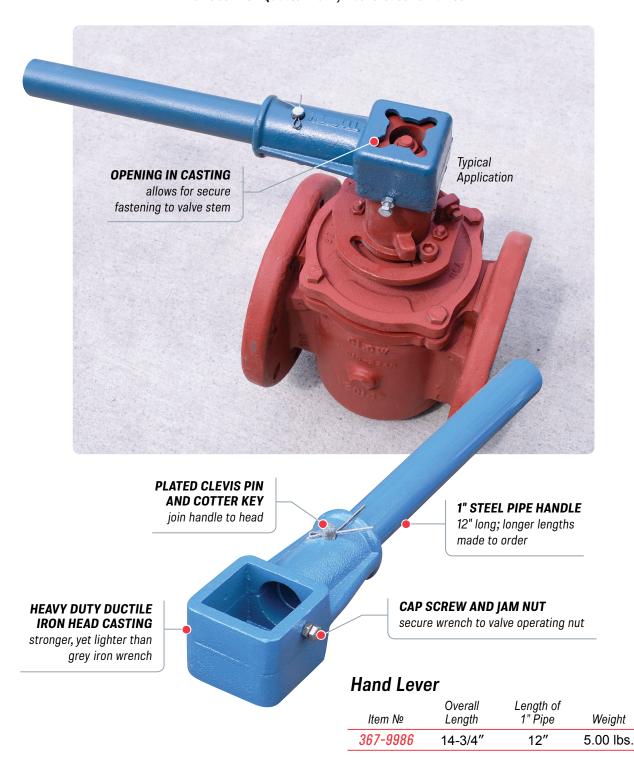




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Hand Lever For Use with Quarter-Turn, Above Ground Valves





3850 Hendricks Road, Youngstown, Ohio 44515

 Phone:
 Toll Free:
 Fax:

 330.270.7888
 877.504.1507
 330.392.0756

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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 be bolted or pinned to the valve stem, then fastened to the 2" nut with cap screw and jam nut

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.

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

Chain Lever Accessories

For machine chain, order specific length required.

Description	ltem №	Weight
Machine Chain, straight link, size 2/0	172-1219	0.32 lbs./ft.
Secondary Safety Restraint Kit, less eyebolt	367-1975	1.25 lbs.
Eyebolt, for Secondary Safety Restraint Kit	367-1974	0.25 lbs.



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Ductile Iron Chainwheels

Used to Operate Overhead Valves from the Floor

SPROCKET-TY 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.

Ordering

Instructions



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

Chain	Galva	nized	316 Stainless		
Size	Item №	Weight	Item №	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.			
		0.00.000			

CHAINWHEEL OPERATION ILLUSTRATED.					Galvanized	Stainless	Chain Length	
			Boxed	Handwheel OD Range Chain		Chain	Chain	(2X drop)
Item №	Size No.	Diameter	Weight	Chainwheel will Fit	Size	ltem №	ltem №	`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			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			1-1/2 ft.
367-1877	TR-2.5	12-1/2″	17.00 lbs.	9-1/4" to 12-1/2"	4/0			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			2-1/2 ft.
367-1880	TR-4.0	22″	42.75 lbs.	19-1/4" to 22"	5/0			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			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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SPROCKET-TYPE using single loop

Aluminum Chainwheels

Used to Operate Overhead Valves from the Floor

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.



		a Galety I	Boxed	Handwheel OD Range	Chain	Galvanized Chain	Stainless Chain	Length (2X drop)
ltem №	Size No.	Diameter	Weight	Chainwheel will Fit	Size	Item №	ltem №	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			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			1-1/2 ft.
367-2024	TRA-2.5	12-1/2″	7.90 lbs.	9-1/4" to 12-1/2"	4/0			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			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

Chain	Galva	nized	316 Sta	inless
Size	ltem №	Weight	ltem №	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 installations, or salt water environments.

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.

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.

ltem №	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.

•		-
3-3-2-(7)	0-0	100
C		
Description	ltem №	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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POCKET-TYPE using welded link

machine chain

Carbon Steel Chainwheels

Used to Operate Overhead Valves from the Floor

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.

ltem №	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.

	0-0-	
Description	ltem №	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-0.0	TR-1.0	TR-1.5	TR-2.0	TR-2.5	TR-3.0	TR-3.5	TR-4.0	TR-4.5	TR-5.0
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
	704.0.0	TDA 10	TDA 1 5	704.0.0		704.0.0	704.05			
ALUMINUM	TRA-0.0	TRA-1.0	TRA-1.5	TRA-2.0	TRA-2.5	TRA-3.0	TRA-3.5			
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″
C-WHEEL ASSEMBLY FITS	2" to 4"	4-1/4" to	6″ to	7-3/4″	9-1/4" to	12-3/4" to	15-3/4″	19-1/4″	22-1/2″	22-1/2″
HANDWHEEL O.D. RANGE	2 10 1	5-3/4″	7-1/2″	to 9"	12-1/2″	15-1/2″	to 19"	to 22"	to 26"	to 36"
CHAIN SIZE	Size #2		Size 1/0			Size 4/0	-		Size 5/0	
	Disk #0	Disk #1	"/	۸.	"B"		"(,"		"D"
ATTACHMENT SET SIZE	367-2005	367-2006	367-	1810	367-1811		367-	1812		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	Sm	nall		Medium		Large & X-Large see NOTE below				
								•		
MIN/MAX BORE DIA.	3/8″ t	o 7/8″	1	1/2" to 1-3/8	"	1/2″	to 1-3/8" (La	rge); 1/2" to	2-1/8" (X-La	arge)

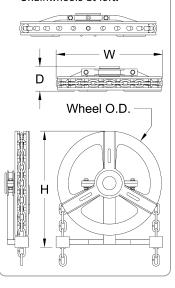
Note: Chainwheel spokes must be drilled for the Star Adapter on the TR-4.0, TR-4.5 and TR-5.0.

Pocket-Type Chainwheel Dimensions

CARBON STEEL		TRCS-6	TRCS-8	TRCS-12	TRCS-15	TRCS-22	TRCS-29	
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-4	TRS-6	TRS-8	TRS-12	TRS-15	TRS-22	TRS-29	
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″	
C-WHEEL 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				provided as s s "A" & "C" (see		
"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	Sm	nall	Large					
MIN/MAX BORE DIA.	3/8″ te	o 7/8″	3/4" to 1-3/8"					



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





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Chainwheel Connecting Links and Chain

Sprocket-Type Chainwheels

Ductile Iron & Aluminum Models

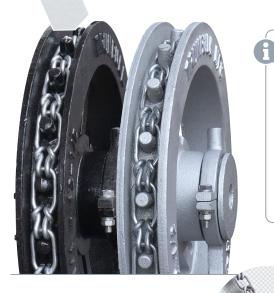
SINGLE LOOP CHAIN engages with the teeth in the wheel.

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!

	1000000
Galvanized	Stainless
ltem №	Item No.
367-1994	367-1997
367-1995	367-1998
367-1996	
	Item № 367-1994 367-1995

Single-Loop Chain

	Galvanized	Stainless
Chain Size	Item №	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 Stainless	Zinc Plated Carbon Steel
Item №	Item No.
367-1816	

Welded Link Machine Chain

calibrated specifically for our pocket-type Chainwheels

316L Stainless	Zinc Plated Carbon Steel
Item №	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.

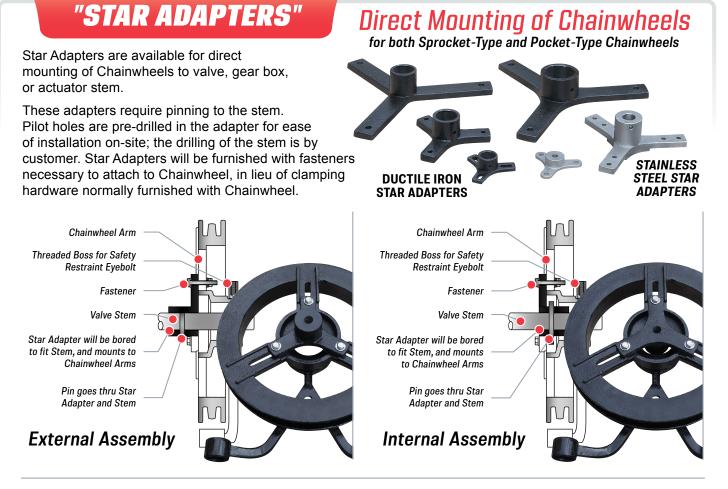
0.		"A" Attac	hment Set	"B" Attac	hment Set	"C" Attac	hment Set
:L #	<u>Size</u>	<u>Min. O.D.</u>	<u>Max. O.D.</u>	<u>Min. O.D.</u>	<u>Max. O.D.</u>	<u>Min. O.D.</u>	<u>Max. O.D.</u>
D. P	TRS/CS-8	6″	8″	7-1/2″	10-1/2″	12-1/2″	15-1/2″
Ra	TRS/CS-12	7″	11″	8-1/2″	13-1/2″	13-1/4″	18-1/2″
ng vhe	TRS/CS-15	8″	15″	9-1/2″	17-1/2″	14-1/8″	23″
t ge	TRS/CS-22	11″	22-1/2″	13″	25″	17-1/2″	30″
ers	TRS/CS-29	16″	29″	17-3/4″	32″	22-1/2″	37″



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Ductile Iron "Star Adapters" for Sprocket-Type Chainwheels

CHAINWHEEL	<u>Size</u> 0.0	<u>Size</u> 1.0	<u>Size</u> 1.5	<u>Size</u> 2.0	<u>Size</u> 2.5	<u>Size</u> 3.0	<u>Size</u> 3.5	<u>Size</u> 4.0	<u>Size</u> 4.5	<u>Size</u> 5.0
DI STAR ADAPTER	S	S	М	М	М	L & XL				
TRUMBULL ITEM NO.	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″					

	CHAINWHEEL	<u>Size</u> 4	<u>Size</u> 6	<u>Size</u> 8	<u>Size</u> 12	<u>Size</u> 15	<u>Size</u> 22	<u>Size</u> 29
Stainless Steel	SS STAR ADAPTER	S	S	L	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.

Chain	Galva	nized	316 Stainless Steel		
Size	ltem №	Weight	Item №	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 .



- 16		~ (F	- 7
	-16			0 (atss	11cl
		3			
chain to	docir	od lonat	h	and the second second	

Install connecting link by inserting looped end <u>of chain</u> into the open end of connecting link.



Cut and remove excess link pieces.

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

Lay opposite end of chain

onto the connecting link.

5

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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"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.



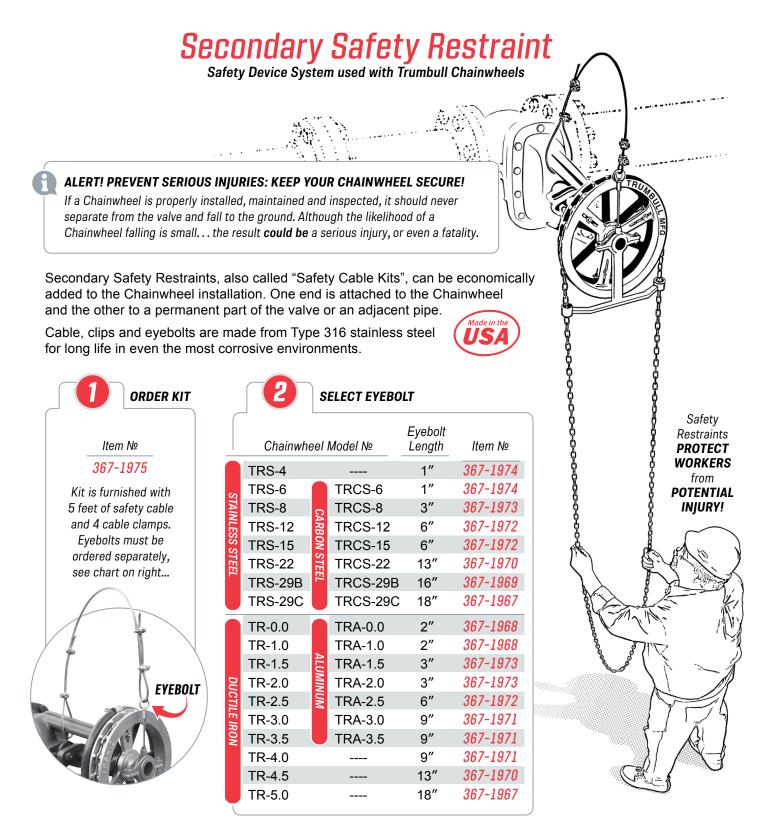
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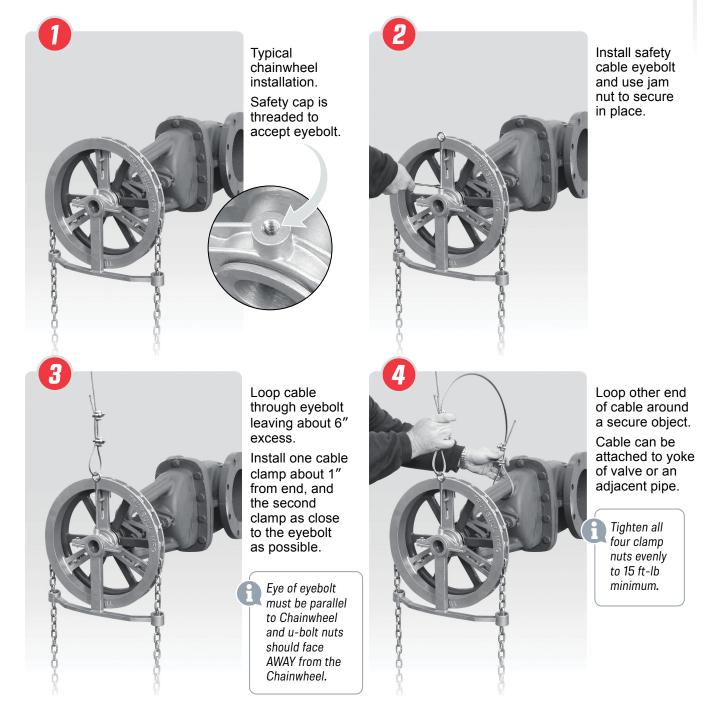




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INSTRUCTIONS

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





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Saddle Style Adjustable Pipe Supports

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

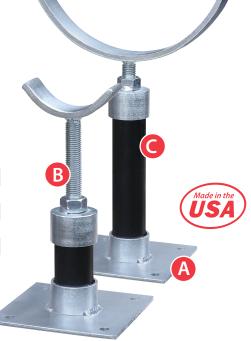
CUSTOMER SUPPLIED:

C Extension Pipe, at the length required*

	Carbon Steel	304 Stainless Steel	
Base Plate:	ASTM A36 sheet steel	ASTM 304 sheet steel	В
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	
Saddle:	ASTM A36	ASTM 304	

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	Carbon Steel	304 Stainless				Extension Pipe	Min. Height
Size	Item №	Item №	Saddle Size	Threaded Rod	Base Plate	Size*	from Floor
3″	364-5850	364-5830	1-1/2″ x 3/8″				
4″	364-5851	364-5831	1-1/2 X 3/0				
6″	<i>364-5852</i>	364-5832		1″-8 NC x 6″	1/4″ x 8″ x 8″	2″ Sch 40	7″
8″	364-5853	364-5833	2″ x 1/2″	1 -8 NC X 6	1/4 X 0 X 0	2 301 40	7
10″	364-5854	364-5834					
12″	364-5855	364-5835					
14″	364-5856	364-5836	3″ x 5/8″	1-1/2″-6 NC x 6″		3″ Sch 40	
16″	364-5857	364-5837	3 X 5/0	1-1/2 -0 NC X 0		3 501140	
18″	364-5858	364-5838			1/2″ x 8″ x 8″		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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Flange Style Adjustable Pipe Supports

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 Flange 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.

004

- 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

Carbon Steel	304 Stainless	Flange Plate			Extension	Min. Height
ltem №	ltem №	Dimensions	Threaded Rod	Base Plate	Pipe Size*	from Floor
364-5870	364-5890	6″ x 3-1/4″ x 1/4″				
364-5871	364-5891	4-1/2" x 2-1/2" x 1/4"				
364-5872	364-5892	5-1/4" x 2-1/2" x 1/4"	1″ 9 NC x 6″	1/4" × 4" × 6"	2" Sob 40	7″
364-5873	364-5893	6-1/2" x 2-1/2" x 1/4"		1/4 X 4 X 0	2 301 40	1
364-5874	364-5894	6" x 2-1/2" x 1/4"				
364-5875	364-5895	6-1/2" x 2-1/2" x 1/4"				
364-5876	364-5896		1 1/2" 6 NC v 6"		2" Sob 40	
364-5877	364-5897		1-1/2 -0 NC X 0		5 501 40	
364-5878	364-5898	7-1/2" x 3-1/2" x 3/8"		1/2″ x 8″ x 8″		10″
364-5879	364-5899		2"-4 NC x 6"		4" Sch 40	
364-5880	364-5900					
	Item № 364-5870 364-5871 364-5872 364-5873 364-5874 364-5875 364-5876 364-5877 364-5878	Steel Stainless Item № Item № 364-5870 364-5890 364-5871 364-5891 364-5872 364-5892 364-5873 364-5893 364-5874 364-5894 364-5875 364-5894 364-5876 364-5895 364-5877 364-5895 364-5876 364-5896 364-5877 364-5897 364-5878 364-5898 364-5878 364-5898 364-5878 364-5898 364-5878 364-5898 364-5878 364-5898 364-5878 364-5898 364-5878 364-5898 364-5878 364-5898 364-5878 364-5898 364-5878 364-5898 364-5878 364-5898 364-5878 364-5898 364-5878 364-5898	Steel Stainless Flange Plate Dimensions Item № Item № Dimensions 364-5870 364-5890 6" x 3-1/4" x 1/4" 364-5871 364-5891 4-1/2" x 2-1/2" x 1/4" 364-5872 364-5892 5-1/4" x 2-1/2" x 1/4" 364-5873 364-5893 6-1/2" x 2-1/2" x 1/4" 364-5874 364-5894 6" x 2-1/2" x 1/4" 364-5875 364-5895 6-1/2" x 2-1/2" x 1/4" 364-5876 364-5895 6-1/2" x 2-1/2" x 1/4" 364-5875 364-5895 6-1/2" x 2-1/2" x 1/4" 364-5876 364-5895 7-1/2" x 3-1/2" x 3/8" 364-5878 364-5897 364-5897 364-5878 364-5898 7-1/2" x 3-1/2" x 3/8"	Steel Stainless Flange Plate Dimensions Threaded Rod 364-5870 364-5890 6" x 3-1/4" x 1/4"	Steel Item №Stainless Item №Flange Plate DimensionsThreaded RodBase Plate364-5870364-58906" x 3-1/4" x 1/4" $364-5871$ 364-58914-1/2" x 2-1/2" x 1/4"364-5871364-58914-1/2" x 2-1/2" x 1/4" $364-5872$ 364-58925-1/4" x 2-1/2" x 1/4"364-5873364-58936-1/2" x 2-1/2" x 1/4" $1''-8 NC x 6"$ 1/4" x 4" x 6"364-5874364-58956-1/2" x 2-1/2" x 1/4"1''-8 NC x 6"364-5875364-58956-1/2" x 2-1/2" x 1/4"1''-8 NC x 6"364-5876364-58966-1/2" x 2-1/2" x 1/4"1''-8 NC x 6"364-5877364-58977-1/2" x 3-1/2" x 3/8"1''-2" -6 NC x 6"364-5878364-58987-1/2" x 3-1/2" x 3/8"2"-4 NC x 6"	Steel Stainless Flange Plate Threaded Rod Base Plate Extension 364-5870 364-5890 6" x 3-1/4" x 1/4"

Class



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Link-Seal[®] Modular Seals

The Premier Method for Permanently Sealing Pipe of Any Size Passing Through Walls, Floors and Ceilings

TRUMBULL MANUFACTURING IS AN APPROVED LINK-SEAL[®] MODULAR SEAL MASTER DISTRIBUTOR

Don't be fooled by "look-alikes". Specify and use original Link-Seal[®] Modular Seals!





Link-Seal ®	Model C	Model S-316
Model No.	Item №	Item №
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/ord.	364-5722
LS-650	364-5623	364-5724

If you are unsure of the correct size for your job, please contact your Trumbull Rep before ordering.

16 INDUSTRY-LEADING SIZES

Nitrile seal elements, for oil, fuels, motor oil and kerosene, or for low durometer EPDM compound or silicone, see Link-Seal[®] 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. HOW LINK-SEAL[®] 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.



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.

RUMBULL

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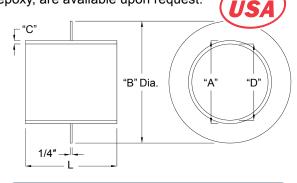
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Wall Sleeves

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 lade in th

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 №	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.



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



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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.



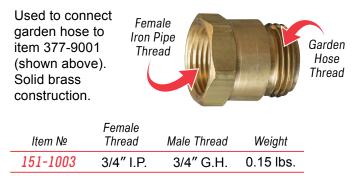
NST x MIP Hydrant Adapters

ltem №	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

Female Item № 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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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.

ltem №	Product Description	Weight
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.

Hydrant Nozzle Cap Chain

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

Item № Weight 392-0860

Nozzle Cap purchased separately.

0.20 lbs.

Gaskets for Hydrant Nozzle Caps

ltem №	Size	O.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″



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 30 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.



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Hydrant Valve Rubbers

	TYPE "A" Valve Rubber	TYPE Valve Ru			TYPE B A		TYPE B A	"B"
Hydrant Manufacturer	Model	Valve Opening	Item №	Туре	"A"	"B"	"C"	"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	"B"	5-3/4″	3-7/8″	5/8″	
	L 75 & L 90	5″	392-0100		6-1/2″	4-1/8″	5/8″	
Denseleer	L 90A & L 90B	4″	393-0255		4-3/8″	2-3/8″	1″	3-7/8″
Rensselaer	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		5″	1″	1-1/8″	4-1/2″
U.S. Pipe*	Smith* H200	4-1/2″	377-5702	"A"	5″	2-1/4″	3/4″	4-3/4″
American Darling*	B50B, 40-50-41	4″	377-4792		4-1/2″	2-1/16″	1″	4-1/8″
	B50B, 50-50-41	5″	377-5492		5-3/4″	2-1/16″	1-3/16″	5-3/16″
Daning	B62B, 54-62-41	5-1/4″	377-6092		5-5/8″	1″	1″	5-3/16″
Kennedy*	K10, K11, K81, 1080, 1280	4-1/2″	378-0204		5″	15/16″	7/8″	4-5/8″
Renneuy	K10, K11, K81	5-1/4″	378-0208		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.



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JUST BECAUSE YOUR HYDRANT IS OLD AND OBSOLETE DOESN'T MEAN YOU CAN'T FIND PARTS!

Trumbull Manufacturing is the original equipment manufacturer of

Ludlow, Corey And Rensselaer Hydrants

and has been making fire hydrant parts since 1990.

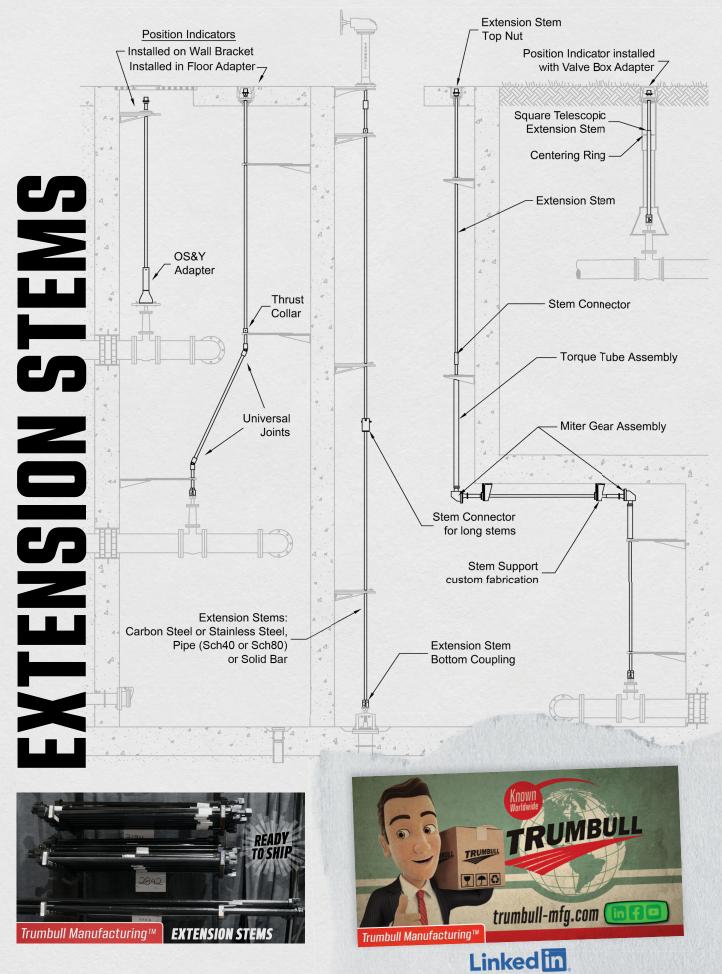
Trumbull Has Over 30 Years Experience

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.

Inquire about parts for Other Makes and Models

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





www.linkedin.com/company/trumbull-manufacturing



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