

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

Fax:

-www.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



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

Item № 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	Item №	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" 3		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

- 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.





ADJUSTABLE HANDLE ILLUSTRATION.

PLATED STEEL BOLT AND WING NUT

lock heavy duty 12" ductile iron handle to the ratchet head

EASY ACTION LEVER reverses direction

SLIP RESISTANT RESILIENT GRIP

WING NUT AND BOLT

can be installed from either side of assembly to minimize interference

OILER FEATURE

allows for easy lubrication without disassembly

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.

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



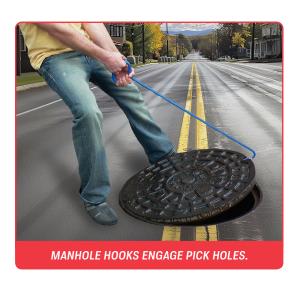
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Manhole Cover Hooks





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

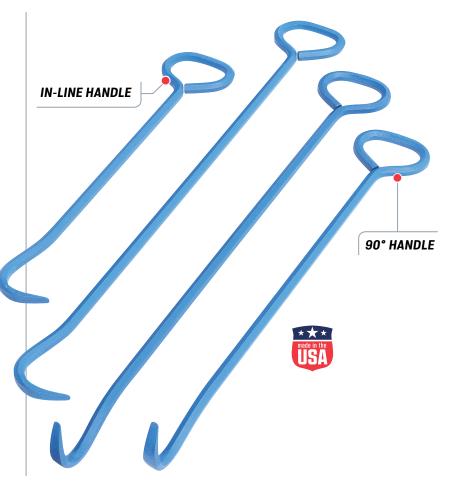
Hooks are painted in Safety Blue enamel paint for safety and durability.

In-Line Handle

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

90° Handle

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





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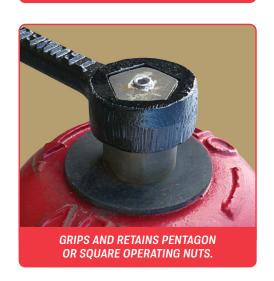
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Hydrant Operating Wrenches



•	ciitagoii i	uts	Model	"A"	"B"	
	Item №	Size	Number	at base	at top	Weight
	377-5952	1-1/2"	B41	1-5/8"	1-1/2"	2.45 lbs.
	377-5953	1-1/4"	B18	1-3/8"	1-1/4"	2.55 lbs.

Sa	quare Nuts				B A	
	Item №	Size	Model Number	"A" at base	"B" at top	Weight
	377-5951	1″	A12	1-1/8"	1″	2.60 lbs.
	377-5947	7/8"	A3	1"	7/8"	2.70 lbs.

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.

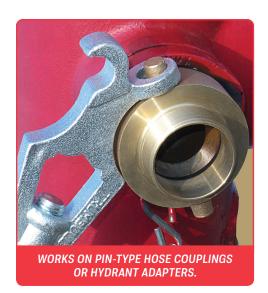


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Fits pentagon nuts up to 1-1/2" (point to flat) and square nuts up to 1-1/4" (flat to flat). Spanner fits both lug-type and pin-type hose couplings.

Entire wrench is zinc-chromate plated for corrosion resistance.



STANDARD 15" HANDLE

made of 7/8" carbon steel, 24" handle available as separate purchase



with heavy wall thickness



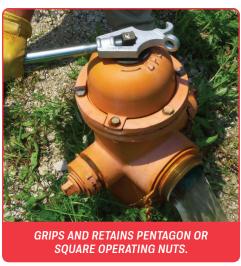
Adjustable Hydrant Wrench

Item №	Handle Length	Weight
377-5960	15"	4.25 lbs.

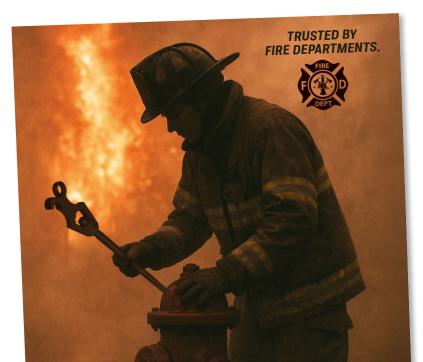
24" Handle Only

Item №	Handle Length	Weight
100-380-00040	24"	0.60 lbs.





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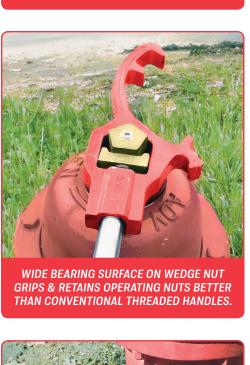
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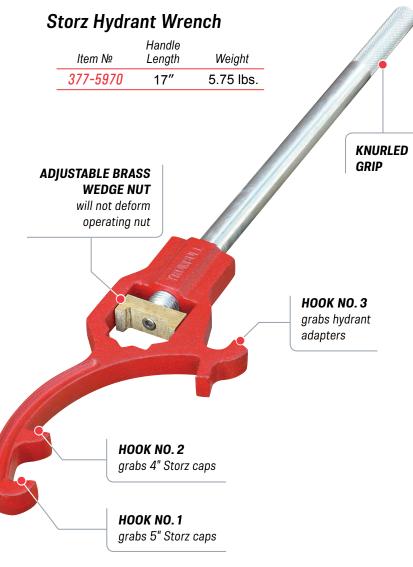


Adjustable Hydrant Wrench

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.







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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.

Item №	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.

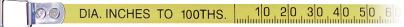
LINEAR MARKINGS

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.







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Handwheel for 2" Nut

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

Item № Material O.D. Weight 367-4962 Cast Iron 14" 15.15 lbs. Also Shown on Page G-4.



Erie/Minneapolis

Buffalo

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.

Stainless Steel Curb Box Rods

Buffalo Type Curb Box Rods

Furnished with brass cotter pin

Length	Item №	Weight
30"	100-230-00430	4.70 lbs.
36"	100-230-00435	5.10 lbs.

304 Stainless Steel Models

Length	Item №	Weight
30"	100-230-00440	4.70 lbs.
36"	100-230-00445	5.10 lbs.

Erie/Minneapolis Type **Curb Box Rods**

Furnished with brass cotter pin

Length	Item №	Weight
24"	100-230-00410	2.50 lbs.
30"	100-230-00415	3.10 lbs.
36"	100-230-00420	3.50 lbs.
42"	100-230-00425	4.20 lbs.

Buffalo Erie/Minneapolis



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Curb Wrenches and Keys





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.
5 ft.	367-4360	7.00 lbs.
6 ft.	367-5025	8.00 lbs.
7 ft.	367-4362	9.00 lbs.
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)

Length Range	2 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.

Thumb

Screw

Operated



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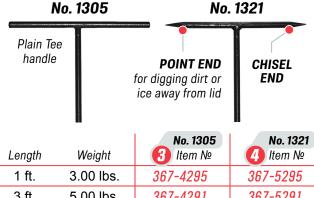
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Curb Wrenches and Keys, Continued

No.1305 and No.1321 Combination Curb Box Keys

For **BUFFALO** Type Boxes

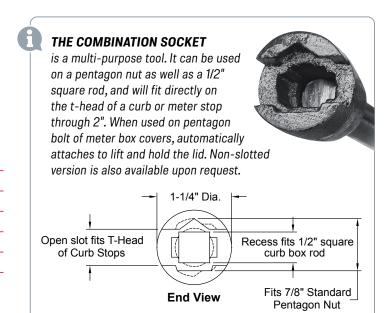
Made of 5/8" round carbon steel with cast steel combo casting.







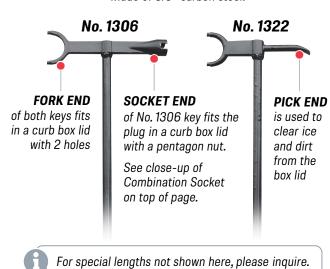
NOT for use with 1" Erie Style Boxes.



No. 1306 and No. 1322 Curb Box Keys

For ERIE & MINNEAPOLIS Type Boxes

Made of 5/8" carbon steel.



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

Length	Weight	Plain Handle	No. 1306 5 Item №	No. 1322
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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Main Valve Keys



T-Handle Main Valve Keys

- Handles & shafts fabricated from 1" Sch 40 steel pipe
- Cast steel socket that fits 2" square operating nut

Length	Item №	Weight
2 ft.	367-5016	9.15 lbs.
3 ft.	367-5017	10.70 lbs.
4 ft.	367-5018	12.10 lbs.
5 ft.	367-5019	13.35 lbs.
6 ft.	367-5020	15.30 lbs.
7 ft.	367-5021	17.10 lbs.
8 ft.	367-5023	18.80 lbs.



For special lengths not shown here, please inquire.

Gate Valve Speed Wrench

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

Item №	Handle Length	Weight
367-9981	18"	6.20 lbs.

Ideal for operating valves with 2" AWWA nut in the trench or in the yard.

Ring Handle Main Valve Keys

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

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



Telescoping Main Valve Keys

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

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



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Pentagon Hand Keys

Medium Carbon Steel Investment Casting - Plated Finish



Model HK-O 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.

Item №	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.



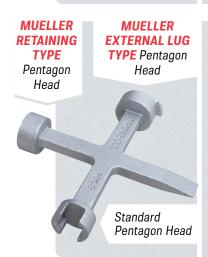
Model HK-1

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.





LARGE WATERWORKS PENTAGON HEAD



MUELLER METER BOX COVER PENTAGON HEAD





3850 Hendricks Road, Youngstown, Ohio 44515

Phone: 330.270.7888 | 877.504.1507 |

TEE HANDLE

Toll Free:

330.392.0756

Illustration of Tee Handle

fitting in Base Unit.

-www.trumbull-mfg.com

Valve and Curb Key Kit

Trumbull Valve Key Kit and Adapters operate main valves, curb and meter stops, and a variety of curb box rods and lids. Tool collapses to compact length for convenient storage in utility vehicles. Carrying case included.

Base Unit Product Item № Description

Base Unit

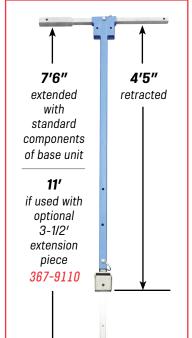
Weight doubles as 20" extension 20.65 lbs.

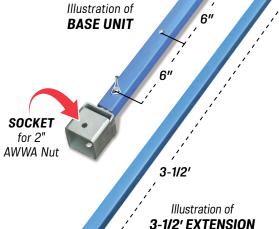
MULTI-PURPOSE ADAPTER

fits on 3/4" - 2" curb and meter stops (illustration B below), operates standard waterworks pentagon (illustration C below), & 1/2" curb box rod

KEY FOR MAIN VALVES With AWWA Socket

367-9100

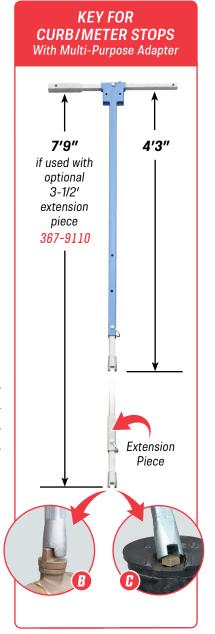




Optional Accessories

Item №	Product Description	Weight
367-9110	3-1/2 ft. Extension Piece	7.00 lbs.
367-9111	Replacement Stem & Socket	5.55 lbs.
367-9106	Replacement Tee Handle	2.80 lbs.







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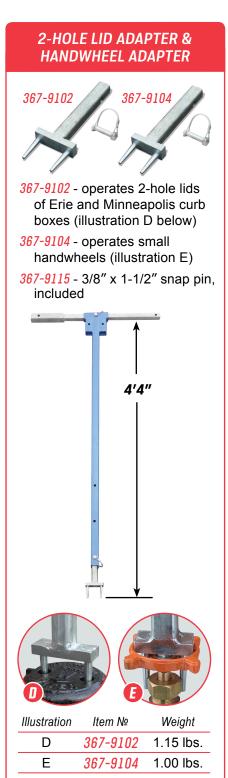
Phone: 330.270.7888 | 877.504.1507 | 330.392.0756

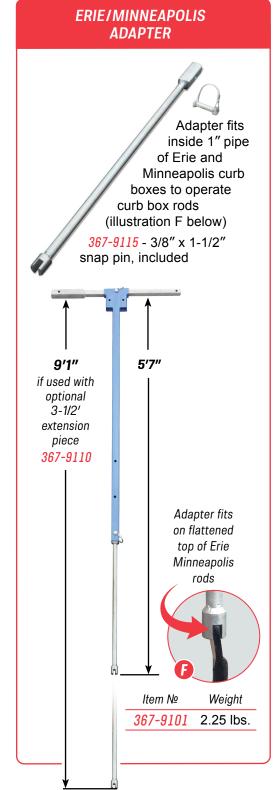
Toll Free:

Fax:

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Valve and Curb Key Kit — Optional Accessories









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Toll Free:

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Soil Probe Rods

Used for Locating Buried Lines - Insulated and Uninsulated Types



INSULATED HANDLE

1-3/16" diameter x 9-1/2" long

Insulated Type Soil Probe Rods

Our insulated type Soil Probe Rods feature non-conducting, molded rubber handle and shield on upper section of shaft. Molded rubber coverings have been laboratory tested to assure protection against electrical shock from accidental contact with buried SECONDARY electrical lines. Replaceable alloy steel tip.



The insulation **WILL NOT** provide protection against contact with **PRIMARY** voltages. Always contact power company to locate underground electrical lines before digging!

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			Uninsulat	ted Types		
Overall	Rubber	Handle	Carbon St	eel "Plus"	Stainless S	teel "Plus"	Economy	/ Туре
Length	Item №	Weight	Item №	Weight	Item №	Weight	Item №	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.	 	



Alloy Steel Tip - for Insulated Type Probe Rods 367-9095 0.05 lbs. Stainless Tip - for SS & CS Uninsulated Type Probe Rods 367-9097 0.10 lbs. Grips - for SS & CS Uninsulated Type Probe Rods (2-pack) 367-9096 0.10 lbs.



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Toll Free:

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KnuckleSAVER™3-in-1 Flaring Tools





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

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.

Item №	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.

Shutoff Tool For Polyethylene Water Tubing





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

Hinge on one end allows the tool to open for use on 3/4" and 1" polyethylene tubing. Latch on opposite end keeps tool closed during repair. Zinc chromate plated. 17-7/8" overall length.

Shutoff Tool

Item №	Weight
368-9040	2.90 lbs.



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



3850 Hendricks Road, Youngstown, Ohio 44515

Phone:

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Fax:

Apply torque through gripping jaw.

Slide wrench against smooth

anvil iaw to re-position

for quick action.

Gripping Jaw

Anvil Jaw

368-0625

-www.trumbull-mfg.com

Meter Wrench

Trumbull's Meter Wrench is used to install and remove meter couplings in buried meter boxes and meter pits. The 16" handle allows worker easy access into these confined areas.

Works with 1/2" through 1-1/2" meter couplings. Special features include resilient grip on handle and replaceable jaws.



SLIP-RESISTANT **RESILIENT GRIP**

STEEL TUBING EDP Coating

HEAT TREATED TOOL STEEL JAWS Bright Zinc Plating

Meter Wrench

Item № Weight 368-0620 2.50 lbs.

Replacement law Set

Includes set of jaws and screws

Item № Weight

0.35 lbs.

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 laws 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

COMPETITIVE MODEL can "over-open" and become disengaged, requiring the tool to be removed from the box & adjusted back into place

SCOOP JAWS

designed to remove large amounts of debris, sand and mud



Valve and Curb Box Cleaners

	Standard Jaws		Scoop	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.

law Replacement Kits

Includes 2 jaws and 2 pins

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



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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.





Trumbull Manufacturing 3850 Hendricks Road, Youngstown, Ohio 44515

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Valve Boxes



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Curb Boxes



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Phone: 330.270.7888 | 8

Toll Free: 877.504.1507 Fax: 330.392.0756

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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.

- MUNICIPAL WATER DEPARTMENTS
- PRIVATE WATER COMPANIES
- PAVING & HIGHWAY CONTRACTORS





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.

Itom No



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.



iteiii iv≥	Size	weigni
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.

Waight

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

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



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.

Item №	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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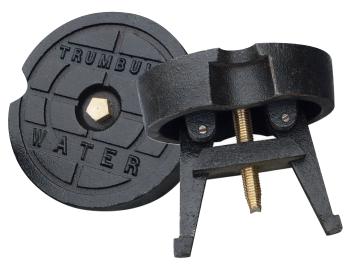
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Fax: 330.392.0756

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Valve Box Lids

Available in Locking Type and Standard Type Models

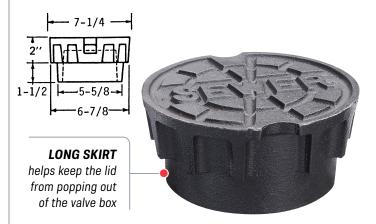


Locking Valve Box Lid

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.



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.

 Item №	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.





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Ordering Instructions

AFC AVK Clow

Kennedy М&Н Mueller

US Pipe

AFC AVK Clow **Toll Free:**

Fax: 330.392.0756

NO. 2

-www.trumbull-mfg.com

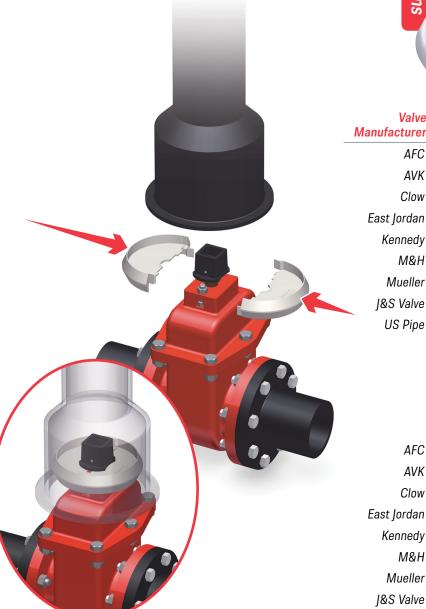
Valve Box Alignment Device

- 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.

7. Quantity required.

2. Order model required, using the charts below.

Model	Item №	Weight
No. 1	367-4850	0.30 lbs.
No. 2	367-4851	0.40 lbs.
No. 3	530-450-00790	0.30 lbs.
No 4	530-150-00100	0.30 lbs



CI Valve Box or 8" PVC Pipe Valve Manufacturer

NO. 1

2"	3"	4"	6"	8"	10"	12"
2	2	2	2	2	1	1
1	1	1	1	1	1	1
2	2	2	2	2	K1	K1
2	2	2	2	2	2	1
2	2	2	2	2	K1	K1
2	2	2	2	2	K1	K1
2	2	2	2	2	1	1
2	2	2	2	2	2	1
2	2	2	2	2	2	1

NO. 3 6" PVC Pine

NO. 4

o PVC Pipe								
4	4	4	4	4	3	3		
3	3	3	3	3	3	3		
4	4	4	4	4	K3	K3		
4	4	4	4	4	4	3		
4	4	4	4	4	K3	K3		
4	4	4	4	4	K3	K3		
4	4	4	4	4	3	3		
4	4	4	4	4	4	3		
4	4	4	4	4	4	3		

Kennedy М&Н



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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.







Item №	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.

* Requires Lock Key 367-4403 to operate.





Item №	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.

^{*} 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", 1-1/4" or 1-1/2" 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	Item №	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	Item №	Weight
3″	<i>367-0176</i>	1.05 lbs.
6"	<i>367-0177</i>	1.45 lbs.
9″	<i>367-0178</i>	2.25 lbs.
12"	367-0179	3.10 lbs.
18"	367-0180	3.85 lbs.
24"	367-0181	4.35 lbs.
	· · · · · · · · · · · · · · · · · · ·	

Service Box Extensions for 1-1/2" Curb Boxes

Length	Item №	Weight
3″	530-200-00070	1.90 lbs.
6"	530-200-00075	2.50 lbs.
9″	530-200-00080	3.25 lbs.
12"	530-200-00085	3.95 lbs.
15"	530-200-00090	4.65 lbs.
18"	530-200-00095	5.10 lbs.
24"	530-200-00100	5.60 lbs.
		·



Available for 1-1/2" and 2" Curb Boxes Includes pentagon plug and stainless steel insert.

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



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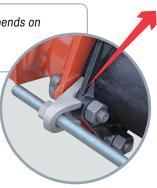
Tie-Lugs

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	Item №	Item №
Tie Lug	364-3395	364-9035

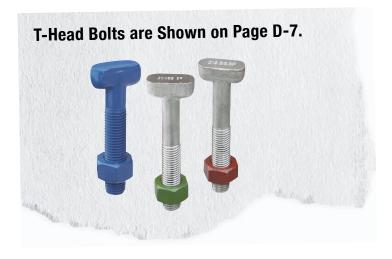




For 4" through 12" Mechanical Joints Used in place of T-head bolt. 3/4" threaded rod passes through eye and is retained with heavy hex nut, sold separately. Made of low carbon steel.

Item №	Product Description	Weight
364-4000	3/4" Tie-Bolt, less nut	0.95 lbs.







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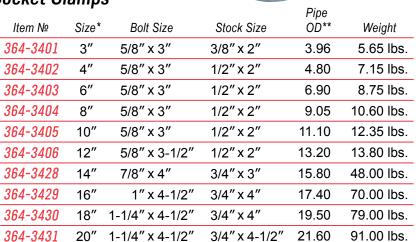
Socket Clamps

For Use in Preventing Underground Pipe Joints from Separating

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

Carbon Steel Socket Clamps

364-3432



3/4" x 5"

25.80

118.00 lbs.

Stainless Steel Socket Clamps

1-1/2" x 5"

24"

			-	Pipe	
Item №	Size*	Bolt Size	Stock Size	OD**	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

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



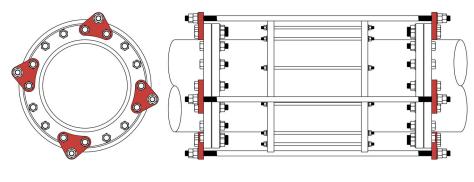
Also known in the field as "Thrust Plates", "Harness Lugs" or "Gusset Plates". They are installed on the back sides of ANSI Class 125 B16.1 and Class 150 B16.5 flanges to allow tie rods to span across an unrestrained piping component.

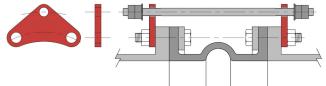
Trumbull flange lugs are also used with rubber expansion joints to limit their expansion. Uncontrolled expansion can lead to failure of rubber expansion joints.

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.

Fax:

Carbon Steel	304SS	316SS	Flange	Plate	Tie-Rod	
Item №	Item №	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	<i>500-875-00035</i>	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.

Pipe	Pipe	Flange	Вс	olt Hol	es	Bolt	Lug	Tie R	Weight	
Size	O.D.	O.D.	Hole CL	Qty.	Hole D.	Dia.	Thickness	Hole D.	Rod D.	pounds
3"	3.96"	7.5"	6"	4	3/4"	5/8"	1/2"	3/4"	5/8"	1.25
4"	4.80"	9"	7.5"	8	3/4"	5/8"	1/2"	3/4"	5/8"	1.00
6"	6.90"	11"	9.5"	8	7/8"	3/4"	1/2"	3/4"	5/8"	1.26
8"	9.05"	13.5"	11.75"	8 12 12 12	7/8"	3/4"	1/2"	3/4"	5/8"	1.56 2.35 2.75 3.45
10"	11.10"	16"	14.25"		1"	7/8"	3/4"	7/8"	3/4"	
12"	13.20"	19"	17"		1"	7/8"	3/4"	7/8"	3/4"	
14"	15.30"	30" 21"	18.75"		1-1/8"	1"	3/4"	7/8"	3/4"	
16"	17.40"	23.5"	21.25"	16	1-1/8"	1"	1"	1-1/8"	1"	4.25
18"	19.50"	25"	22.75"	16	1-1/4"	1-1/8"	1"	1-1/8"	1"	5.00
20"	21.60"	27.5"	25"	20	1-1/4"	1-1/8"	1"	1-1/8"	1"	4.50
24"	25.80"	32"	29.5"	20	1-3/8"	1-1/4"	1-1/8"	1-1/4"	1-1/8"	6.75
30"	32.00"	38.75"	36"	28	1-3/8"	1-1/4"	1-1/4"	1-3/8"	1-1/4"	6.90
36"	38.30"	46"	42.75"	32	1-5/8"	1-1/2"	1-1/4"	1-3/8"	1-1/4"	7.05
42"	44.50"	53"	49.5"	36	1-5/8"	1-1/2"	1-1/4"	1-3/8"	1-1/4"	8.80
48"	50.80"	59.5"	56"	44	1-5/8"	1-1/2"	1-1/2"	1-5/8"	1-1/2"	9.75
54"	57.56"	66.25"	62.75"	44	1-7/8"	1-3/4"	1-3/4"	1-5/8"	1-1/2"	15.60
60"	61.61"	73"	69.25"	52	1-7/8"	1-3/4"	1-3/4"	1-5/8"	1-1/2"	15.80

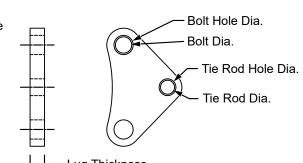
ANSI Class 125 B16.1 Drilling Template

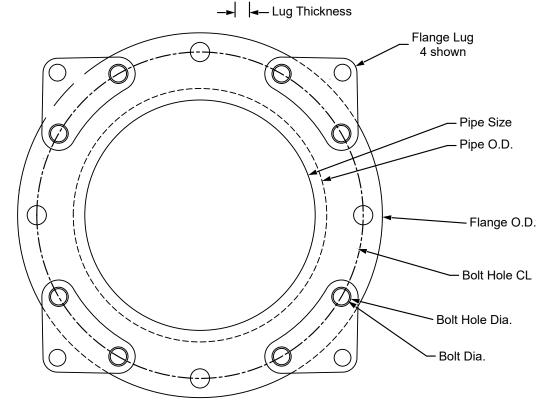
Notes:

250 psi maximum pressure.

Type 304 stainless steel plate, or,
A36 structural steel plate with
TNEMEC red 37-77 primer.

Other finishes available.





FLANGE LUGS
Drawn to Scale

Drawn: FCN 01/04/11 Revision:
FCN
07/25/19

Trumbull Manufacturing
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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 №	Item №	Item №	Item №**	Length	Item №	Item №	Length	Item №	Item №	Item №	Item №**	Length	4
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			<u></u>	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"



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V-Bio® Enhanced Polyethylene Encasement "Don't forget the Polywrap Tape!"



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

V-Bio® 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

Layflat Width	Perf'd Every	Item №	Roll Length
20"	22 ft.	388-7831	484 ft.
27"	22 ft.	388-7833	374 ft.
34"	22 ft.	388-7835	308 ft.
41"	22 ft.	388-7837	264 ft.
54"	22 ft.	388-7839	198 ft.
67"	22 ft.	388-7841	154 ft.
81"	22 ft.	388-7843	132 ft.
95"	22 ft.	388-7845	110 ft.
108"	22 ft.	388-7847	110 ft.
121″	22 ft.	388-7849	110 ft.
	Width 20" 27" 34" 41" 54" 67" 81" 95"	Width Every 20" 22 ft. 27" 22 ft. 34" 22 ft. 41" 22 ft. 54" 22 ft. 67" 22 ft. 81" 22 ft. 95" 22 ft. 108" 22 ft.	Width Every Item № 20" 22 ft. 388-7831 27" 22 ft. 388-7833 34" 22 ft. 388-7835 41" 22 ft. 388-7837 54" 22 ft. 388-7839 67" 22 ft. 388-7841 81" 22 ft. 388-7843 95" 22 ft. 388-7845 108" 22 ft. 388-7847

Blue V-Bio® Enhanced PE Encasement

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	Item №	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	Item №	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.



3850 Hendricks Road, Youngstown, Ohio 44515

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Other Polywrap

Clear Polywrap 12 Mil

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



"Don't Forget the Polywrap Tape!"

MULTIPURPOSE PVC TAPE: IAPMO/UPC certified for AWWA and plumbing applications.

Item №	Roll Size	Thickness	weight
		10 mil	1.00 lbs.
364-9975	2" x 100'	10	

GENERAL PURPOSE PE TAPE: blue in color.

11 No	Roll Size	Thickness	weight
Item №		9 mil	1.00 lbs.
364-9976	2" x 108'	3 11111	

Zinc Anode Caps

Sacrificial Zinc Anodes









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

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

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



Typical Installation

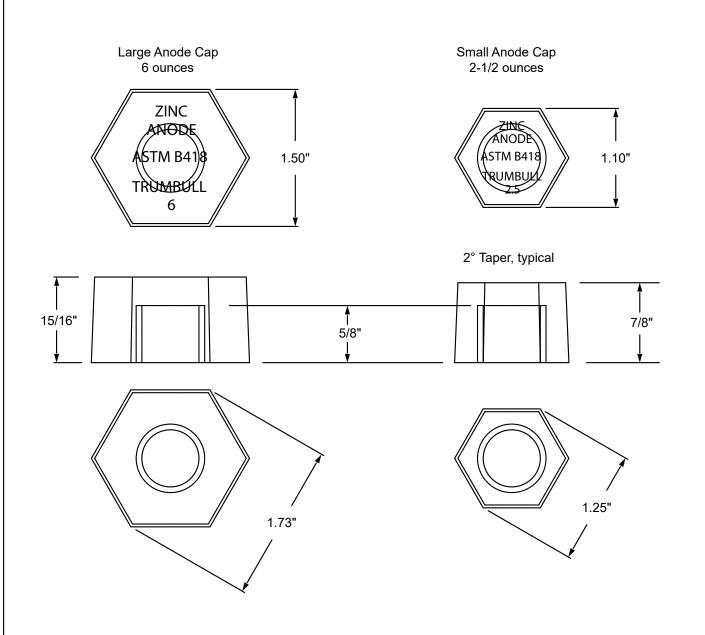
Zinc Anode Caps

=				
	2.5 oz.	6 oz.		
Description	Item №	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. Material: High Grade Zinc Conforms to chemical requirements of ASTM B418-88, "Galvanic Zinc Anodes", and, U.S. Navy Specification, Mil-18001 H

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

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



ZINC ANODE CAPS
Drawn to Scale

Drawn: FCN 06/28/94 Revision: FCN 09/26/18

Trumbull ManufacturingYoungstown, Ohio
www.trumbull-mfg.com



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Prepackaged Anode Bags

Provides Cathodic Protection that Prevents Metal Degradation in Waterworks Infrastructure





Available in either Magnesium or Zinc.

The prepackaged anode is a corrosionprevention solution designed for waterworks applications. It consists of high-purity anode enclosed in a protective anode bag made from durable, chemical-resistant material. Each unit is securely packaged to maintain integrity and facilitate ease of installation.

The backfill is a precise mixture, which draws moisture for best performance and creates a uniform environment for the anode to consume itself evenly. The anode is formulated with minimal impurity levels, ensuring consistent performance in the harshest environments. They come in various sizes and dimensions tailored to meet specific system requirements.



The prepackaged anode is designed to be installed within cathodic protection systems for pipelines, tanks, and other submerged metal structures in the waterworks industry and fuel pipelines. The primary function of the anode bag is to provide effective cathodic protection. A simple method of protection connects protected metal to a more easily corroded "sacrificial metal" to act as the anode. The anode corrodes instead of the protected metal.

This anode operates with an open-circuit voltage of 1.05 (-V .Ag/AgCl), ensuring a consistent protective current. With an actual capacitance exceeding 780 Ah/Kg and a current efficiency above 95%, it delivers long-lasting and efficient corrosion control. By mitigating oxidation, the anode extends the lifespan of water pipes, fuel pipelines, storage tanks, and submerged metallic structures, reducing maintenance costs and improving system reliability. The prepackaged configuration simplifies installation while ensuring sustained performance, making it an essential component in water treatment and distribution networks.

Magnesium Prepackaged Anode Bags

Item №	Anode Size	Cable Length	Weight
625-200-00005	1 lbs.	25 ft.	11.00 lbs.
625-200-00010	3 lbs.	25 ft.	11.00 lbs.
625-200-00015	5 lbs.	25 ft.	15.00 lbs.
625-200-00020	9 lbs.	25 ft.	26.00 lbs.
625-200-00025	17 lbs.	25 ft.	44.00 lbs.
625-200-00030	20 lbs.	25 ft.	73.00 lbs.
625-200-00035	32 lbs.	25 ft.	66.00 lbs.
625-200-00040	48 lbs.	25 ft.	110.00 lbs.
625-200-00045	60 lbs.	25 ft.	128.00 lbs.

Zinc Prepackaged Anode Bags

Item №	Anode Size	Cable Length	Weight
625-200-00050	5 lbs.	25 ft.	15.00 lbs.
625-200-00055	12 lbs.	25 ft.	26.00 lbs.
625-200-00060	15 lbs.	25 ft.	33.00 lbs.
625-200-00065	18 lbs.	25 ft.	42.00 lbs.
625-200-00070	30 lbs.	25 ft.	59.00 lbs.
625-200-00075	45 lbs.	25 ft.	71.00 lbs.
625-200-00080	60 lbs.	25 ft.	95.00 lbs.
		•	•



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Anode Ground Rod

Completes the Electrical Circuit in Tracer Wire Systems



The 1.5 lbs. Magnesium Anode Ground Rod is an anode grounding rod designed for seamless integration into tracer wire systems to complete the electrical circuit necessary for enhanced signal detection. The anode ground rod has a diameter of 1.31 inches and a length of 18.5 inches, making it compact yet effective for its intended application. Its design ensures secure placement within backfill environments, optimizing electrical conductivity and signal transmission.

- High-purity MAGNESIUM GROUND ROD, with 20 feet of red 12 AWG wire, ensures flexibility in placement.
- HDPE CAP encases the ground rod for protection and ease of installation. It enhances durability, making the anode suitable for direct burial in various soil conditions.
- Waterproof, direct-bury TWIST CONNECTOR, allows for secure integration into underground systems and for easy splicing with tracer wire. Ensures a reliable electrical connection.

The anode ground rod has a high-potential magnesium composition, with Aluminum (2.5-3.5%), Zinc (0.6- 1.4%), Magnesium (0.2-1.0%), Iron (0.002% max), Copper (0.05% max), Nickel (0.005% max), and Silicon (0.10% max), ensures superior performance and longevity. Operating with an open circuit voltage of 1.57-1.67 (-V. Cu/CuSO₄) and an actual capacitance exceeding 1210 Ah/Kg, the anode efficiently enhances signal transmission. Its current efficiency surpasses 55%, making it an ideal component for utility locating in underground infrastructure. The configuration simplifies installation while ensuring long-term reliability, ultimately improving the accuracy and efficiency of tracer wire systems.

Anode Ground Rod

Item №	Anode Size	Cable Length	Weight
625-200-00100	1.5 lbs.	20 ft.	2.25 lbs.



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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

	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 №	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				
RECYCLED/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	
DANGER		100-600-00325			
RESTRAINT JOINT WATER			100-600-00335		
CAUTION					100-600-00350

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 №	Item №	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				
RECYCLED/RECLAIMED WATER	100-625-00045	100-625-00125		100-625-00205	100-625-0025
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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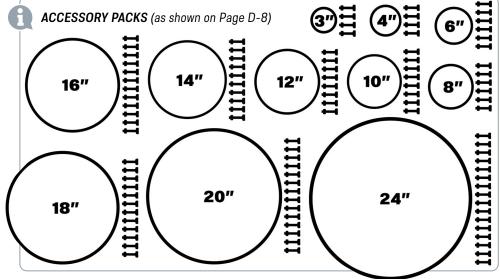
Mechanical Joint Accessories

T-Head Bolts and Nuts	7	50		
T Ticad Boits and Nats	Corten	304SS	316SS	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





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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 №	
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.





TRAFFIC RATED COMPOSITE MANHOLE COVERS

and Frame and Cover Assemblies

Amazingly Strong. Surprisingly Light.™





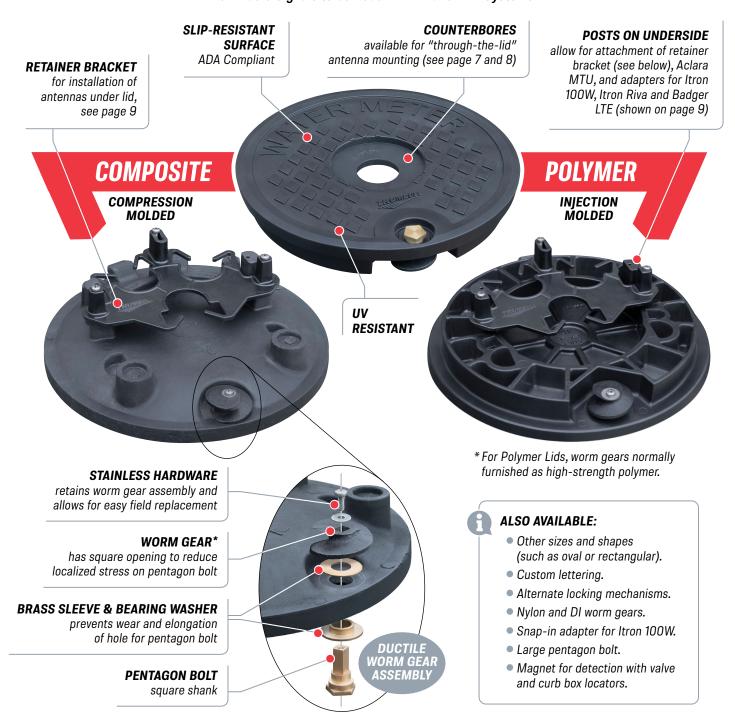
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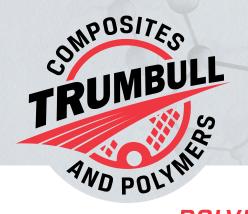
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COMPOSITE and POLYMER Meter Box Lids

Allow Radio Signals to be Read in AMR and AMI Systems



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



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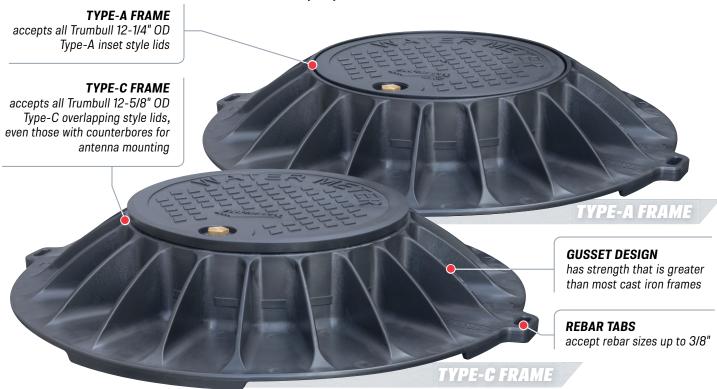
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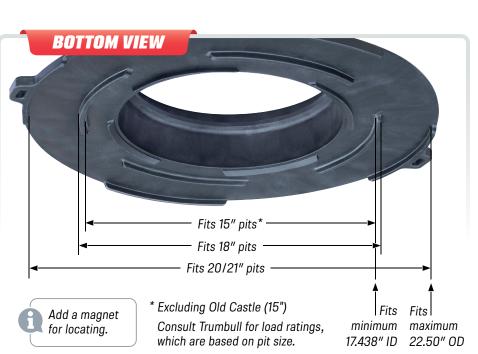
POLYMER Meter Pit Frames

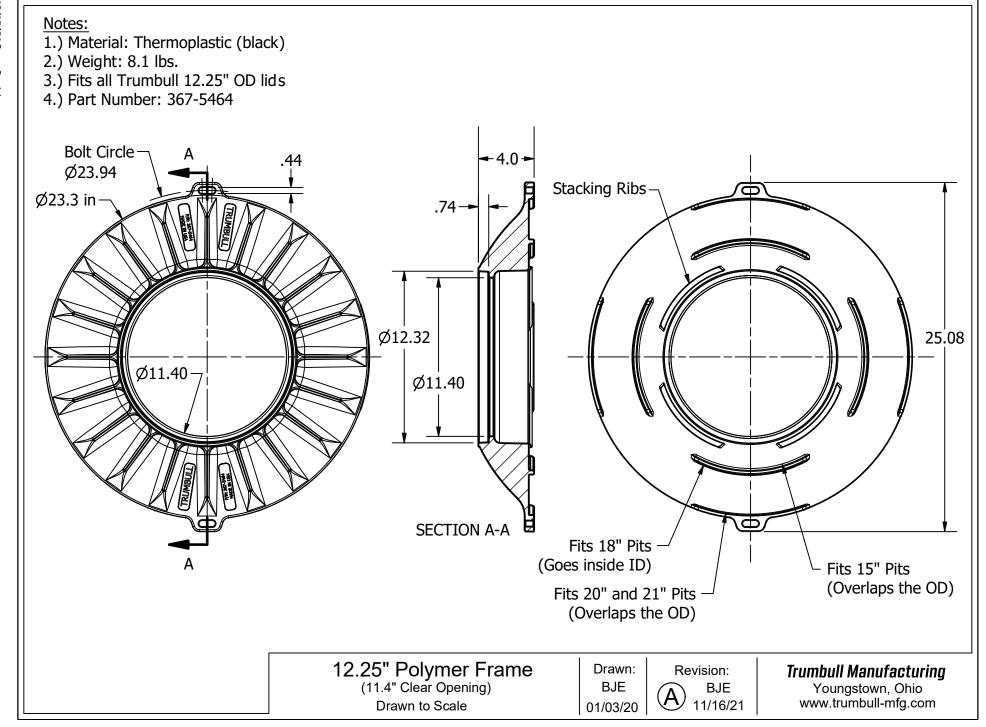
Fits on 15", 18", 20" and 21" Meter Pits





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





Notes: 1.) Material: Thermoplastic (black) 2.) Weight: 8.1 lbs. 3.) Fits all Trumbull 12.63" OD lids 4.) Part Number: 367-5459 Bolt Circle --4.0→ Ø23.94 Stacking Ribs Ø23.3 in 25.08 Ø11.48 Ø11.48-**SECTION A-A** Fits 18" Pits (Goes inside ID) Fits 15" Pits (Overlaps the OD) Fits 20" and 21" Pits -(Overlaps the OD)

12.63" Polymer Frame (11.48" Clear Opening) Drawn to Scale

Drawn: NJC 10/09/20 Revision:

A NJC
11/19/21

Trumbull ManufacturingYoungstown, Ohio
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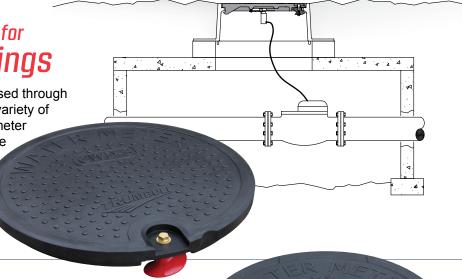
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COMPOSITE Manhole Lids for Large Meter Settings

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

Custom lettering and graphics available.



COMPOSITE Lids for **Coiled Pit Setters**

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



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



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.



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COUNTERBORES FOR THROUGH-THE-LID ANTENNA MOUNTING



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

Solution:

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



COUNTERBORE OPTIONS



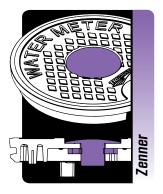
















As some meter manufacturers offer more than one through-the-lid antenna or adapter, dimensions should be confirmed at time of order.

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



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BLUE COLOR LIDS

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



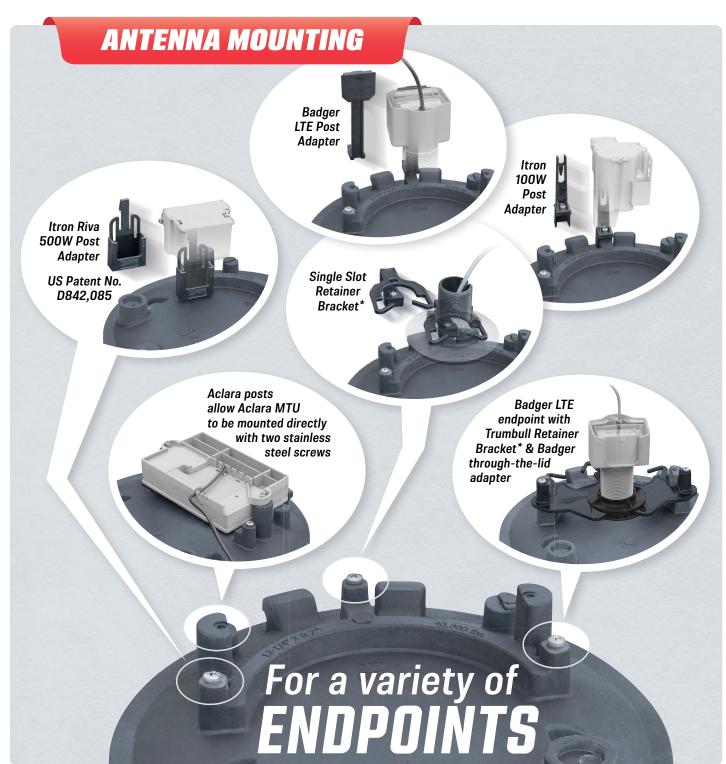
For dimensions, load ratings and additional options, refer to the product information chart on pages 18 - 28.



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^{*} Both Retainer Brackets will fit all antennas or through-the-lid adapters with 1-3/4" shaft.

The elevation of the meter in the pit may cause interference with the endpoint which should be verified.



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REDUCING RINGS

Fabricated Reducing Rings

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



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



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Composite Oval Remote Antenna Box

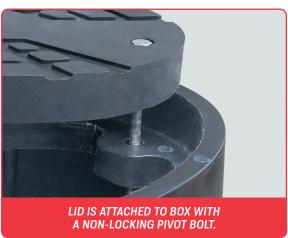
13.42" x 9.29" Lid Size - Sold Complete with Box and Lid Together



The Oval Remote Antenna Box provides a good solution to house endpoints when replacement composite lids are not available to replace the larger cast iron lid.

Designed to accept up to 3 Badger endpoints in the box, rather than attached to the lid, reducing the chance of ripping wires when removing lids.

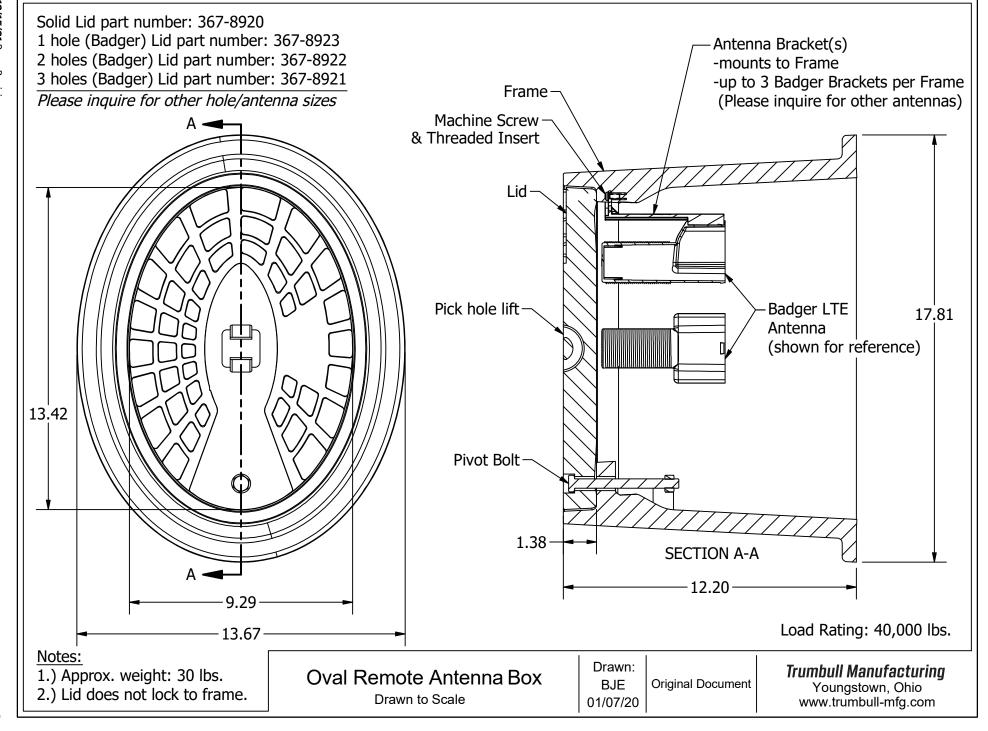
Made of durable SMC composite material. Box and solid lid are rated for a 40,000 lbs. test load, per AASHTO M-306, H-20. For load ratings with antenna holes throught the lid, please inquire.







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





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MBX Series Meter Boxes and Lids

Rounded Rectangle Enclosures for Meter Settings



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

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

MBX Series Meter Boxes

Model	Depth	Item №	Weight
MBX-1	12"	530-450-01645	32.00 lbs.
MBX-2	18"	530-475-00475	46.00 lbs.

MBX Series Meter Box Accessories



19-3/8" x 9-3/4"

0 0/0 X 0 0/4				
Counterbore	Load Rating	Item №.	Weight	
Solid	Non Traffic*	530-425-00190	3.50 lbs.	
Solid	20,000 lbs.	530-450-01565	10.50 lbs.	
Solid	40,000 lbs.	530-450-01605	13.50 lbs.	
Badger	20,000 lbs.	530-450-01570	10.50 lbs.	
Badger	40,000 lbs.	530-450-01610	13.50 lbs.	
Itron	20,000 lbs.	530-450-01575	10.50 lbs.	
Itron	40,000 lbs.	530-450-01615	13.50 lbs.	
Mueller	20,000 lbs.	530-450-01580	10.50 lbs.	
Mueller	40,000 lbs.	530-450-01620	13.50 lbs.	
Sensus	20,000 lbs.	530-450-01585	10.50 lbs.	
Sensus	40,000 lbs.	530-450-01625	13.50 lbs.	
Neptune	20,000 lbs.	530-450-01590	10.50 lbs.	
Neptune	40,000 lbs.	530-450-01630	13.50 lbs.	
NepCell	20,000 lbs.	530-450-01595	10.50 lbs.	
NepCell	40,000 lbs.	530-450-01635	13.50 lbs.	
Kamstrup	20,000 lbs.	530-450-01600	10.50 lbs.	
Kamstrup	40,000 lbs.	530-450-01640	13.50 lbs.	
* Non-To-Clin Lists become a state all allowed and a mission				

^{*} Non Traffic Lids have composite sliding lock mechanism



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10"x 6.5" Polymer Yokebox Lids

Allows Radio Signals to be Read in AMR and AMI Systems



SLIDING LOCK: shown in closed positition

UNDERSIDE

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.

Yokebox Lids Accessories

Don't forget the Custom

Hand	Key
	,

Item №	Weight	
367-4334	0.40 lbs.	

Single Slot Retainer Bracket Details shown on page 9

Item №	Weight	
367-5782	0.05 lbs.	

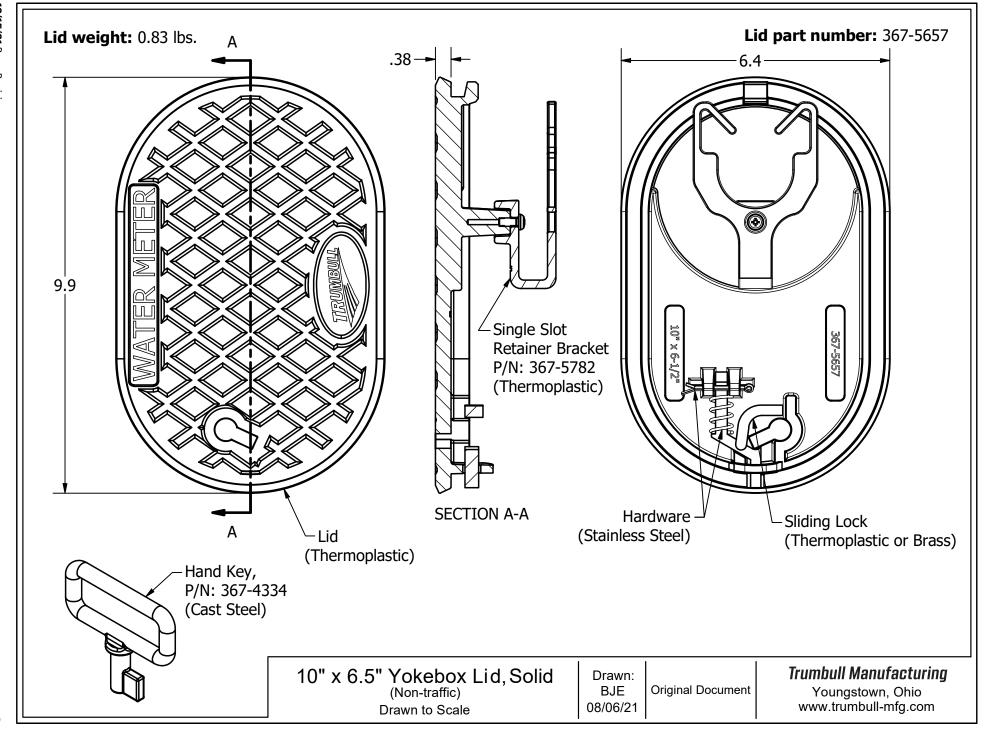
	5" UPPER YOKEBOX	8" UPPER YOKEBOX	10" UPPER YOKEBOX		
BADGER	×	\checkmark	\checkmark		
ITRON	×	\checkmark	√		
MUELLER	×	×	✓		
SENSUS	×	×	✓		
ZENNER	×	×	✓		
NEPTUNE	Due to lack of space for counterbore, a through hole will be provided.				
KAMSTRUP					

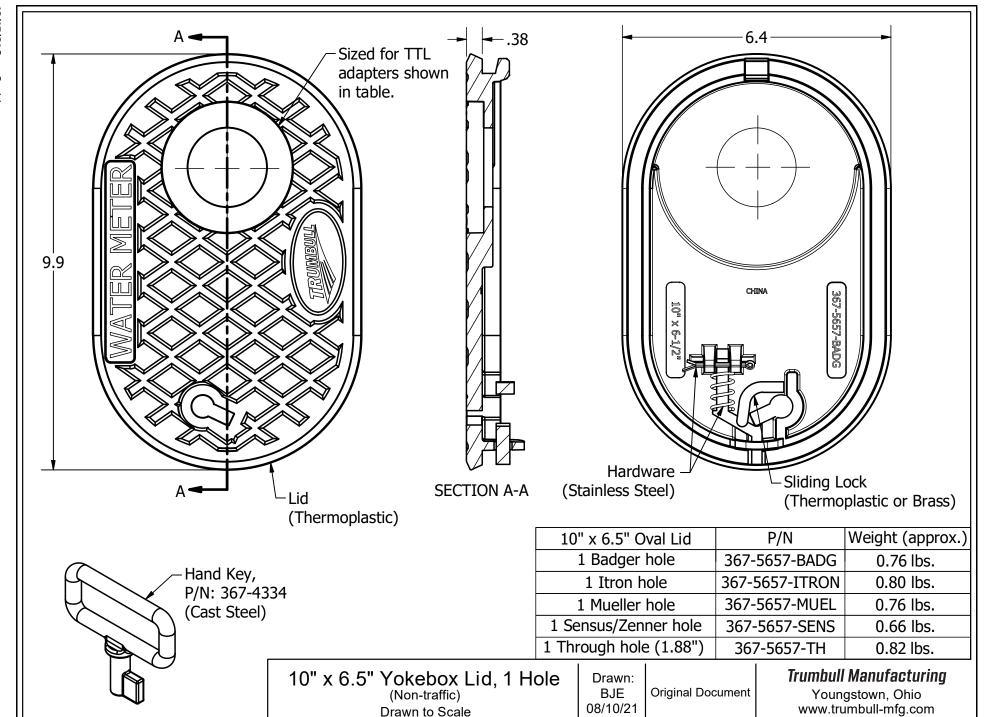
SINGLE SLOT RETAINER BRACKET (FOR SOLID LIDS)

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

POST ADAPTER (FOR SOLID LIDS)

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







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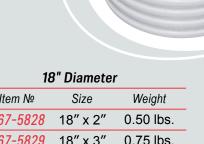
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METER PIT INSULATING DISCS

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



For larger sizes not shown, please inquire



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

RELATED PRODUCT

Ductile Iron Meter Box Cover

Accepts All Trumbull 12-1/4" OD Lids

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



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

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





Customer Information

Name

Phone _____

Company _____

Project Location _____

Email

Manhole and Meter Pit Lid

NOTE: All dimensions to be taken from frame

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Other_

LOAD RATING REQUIRED

	Heavy	Duty	AASHTC) M306,	H-20;	40,000	lbs
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Medium Duty; 20,00	00 lbs
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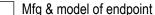
		Light	Duty;	5.	.000	lb	s
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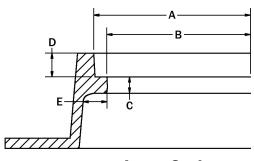
AMI/AMR Antenna & Leak Detection Mounting

	Bracket	mounting	οn	underside
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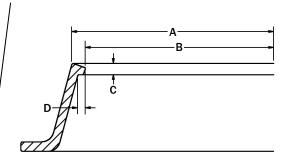
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Inset Style



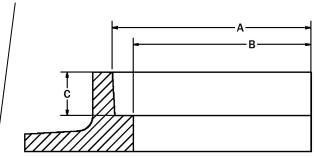
Frame Manufacturer Information

Frame Make & Model No. _____

Lettering On Lid _____

Lid Make & Model No. _____

Overlapping Style



Straight Wall ID Style

Lid Style	Address	Α	В	С	D	E



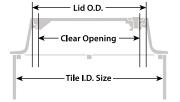
OUR 20,000 LB. LIDS HAVE NOMINAL LOAD RATINGS:

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.



LID DIMENSIONS Types and	, LOAD RATINGS, Materials	FITS FRAME TYPES	SOLID LID No Antenna Recess	BADGER Antenna Recess Ø 3.13" x 0.41" dp	ITRON 60W, 100W, RIVA Antenna Recess Ø 2.84" x 0.26" dp	KAMSTRUP Antenna Recess Ø 5.06" x 0.50" dp	MUELLER Antenna Recess Ø 3.36" x 0.33" dp	NEPTUNE** (FIGURE 8) Antenna Recess ∅ 4.63" x 0.43" dp	SENSUS OR ZENNER Antenna Recess Ø 4.11" x 0.41" dp
10-3/8" OD	Non-Traffic / Polymer		367-5530	367-5531	367-5532		367-5533	367-5534	367-5535
Clear Opening: 9-1/2" Rim Thickness: 0.65"	NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	Ford W2A	1.85 lbs.	1.75 lbs. 500 pcs min	1.77 lbs. 500 pcs min		1.80 lbs. 500 pcs min	1.73 lbs. 500 pcs min	1.77 lbs. 500 pcs min
10-3/8" OD	Non-Traffic / Polymer	Newport News	5901-TMI				5902-TMI		
Clear Opening: 9-1/2" Rim Thickness: 3/8" "NEWPORT NEWS WATERWORKS"	NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	Meter Box No. 1 and Capital Foundry	1.42 lbs. 500 pcs min				1.60 lbs. 500 pcs min		
10-3/8" OD	Non-Traffic / Polymer		367-5581				367-5581- <u>MUEL</u>		
Clear Opening: 9-1/2" Rim Thickness: 3/8"	NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	Capital Foundry	1.42 lbs. 500 pcs min				1.60 lbs. 500 pcs min		
11-7/8" OD	Non-Traffic / Composite		367-5639	367-5638					
Clear Opening: 10" Rim Thickness: 5/8"	DI WORM GEAR (1.5" OD) US Patent No. D858,797 Solid Lids* or MegaNet Antenna Recess	Clark Meter Box Frame	6.00 lbs.	5.60 lbs. MegaNet Recess (Not for Badger)					
11.91" OD	40,000 lbs. / Composite		367-5632						
Clear Opening: 10.7" Rim Thickness: 1"	DUCTILE IRON WORM GEAR Solid Lids* Only	Wilmington, DE (Old Style) Inner Lid	8.52 lbs.						
12-1/8" OD	Non-Traffic / Polymer		367-5660	367-5664	367-5666			367-5662	367-5659
Clear Opening: 11" Rim Thickness: 5/8"	NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	Mueller A and C	3.00 lbs. 500 pcs min	2.90 lbs. 500 pcs min	2.90 lbs. 500 pcs min			2.80 lbs. 500 pcs min	2.90 lbs. 500 pcs min

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



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.

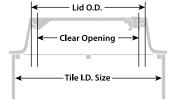
PENTAGON BOLTS: Water meter lids are normally furnished with standard (27/32") brass pentagon bolt, but are also available with large (1-1/32") brass pentagon bolt. Not furnished on drop-in style lids. **WORM GFARS:** Non-traffic and 20 000 lbs lids normally furnished with pylon worm near ductile iron

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.



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



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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.

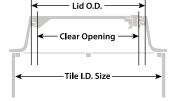
Not furnished on drop-in style lids.

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 charge may apply.			00110110	24225	ITRON 60W,	//44/0TD//D		NEPTUNE**	SENSUS
LID DIMENSIONS, LOAD RATINGS, FITS TYPES AND MATERIALS FRAME TYPES		FITS FRAME TYPES	SOLID LID No Antenna Recess	BADGER Antenna Recess Ø 3.13" x 0.41" dp	100W, RIVA Antenna Recess Ø 2.84" x 0.26"dp	KAMSTRUP Antenna Recess Ø 5.06" x 0.50"dp	MUELLER Antenna Recess Ø 3.36" x 0.33" dp	(FIGURE 8) Antenna Recess Ø 4.63" x 0.43" dp	OR ZENNER Antenna Recess Ø 4.11" x 0.41" dp
12-1/4" OD	40,000 lbs. / Composite		367-5518	367-5591	367-5519			367-5593	367-5592
Clear Opening: 11-1/2" Rim Thickness: 0.7"	DUCTILE IRON WORM GEAR Solid Lids* or with 1 Antenna Recess	Ford A and C AY McDonald type A	Available w/out Logo 367-5517 (40K) 9.54 lbs.	9.00 lbs.	9.01 lbs.			8.70 lbs.	8.71 lbs.
12-3/4" OD	Non-Traffic / Polymer	Newport News	4946-TMI				4945-TMI		
Clear Opening: 11-5/8" Rim Thickness: 3/8" "NEWPORT NEWS WATERWORKS"	NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	Meter Box No. 2 and Capital Foundry	Also available w/out NN Lettering (Non-Traffic) 2.20 lbs.				Also available w/out NN Lettering (Non-Traffic) 2.20 lbs.		
12.438" OD	Non-Traffic / Polymer		367-5719	367-5721	367-5722		367-5723	367-5724	367-5725
Clear Opening: 11" Rim Thickness: 0.65"	DROP-IN STYLE Solid Lids* or with 1 Antenna Recess	American Foundry, and misc.	3.30 lbs. 250 pcs min	3.10 lbs. 250 pcs min	3.10 lbs. 250 pcs min		2.90 lbs. 250 pcs min	2.90 lbs. 250 pcs min	3.00 lbs. 250 pcs min
12.438" OD	20,000 lbs. / Polymer		367-5720						
Clear Opening: 11" Rim Thickness: 0.65"	DROP-IN STYLE Solid Lid* Only	MO American	3.30 lbs. 250 pcs min						
12-5/8" OD	Non-Traffic / Polymer	Ford, AY McD,	367-5769						
Clear Opening: 11-1/2" Rim Thickness: 9/16"	NYLON WORM GEAR Solid Lid* or Machined Recess	Vestal and B&T Type C and Baltimore	3.08 lbs. 500 pcs min	nay 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 recesses can be machined in the lid, charges may apply. Load ratings may vary depending on its size.					

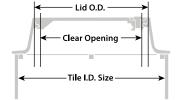


WORM GEARS: Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

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	
12-5/8" OD	40,000 lbs. / Composite	Ford, Vestal	367-5669						
Clear Opening: 11-1/2" Rim Thickness: 1"	DUCTILE IRON WORM GEAR Solid Lid* Only	and B&T Type C and Baltimore	10.74 lbs.	Antenna recesses can be machined in the lid, charges may apply. Load ratings may vary depending on its size.					
13" x 17-9/32" OD	25,000 lbs. / Composite		367-5650						
(Oval Shape Lid) Rim Thickness: 0.79"	DROP-IN STYLE Solid Lid* Only	MB-10 Oval	14.80 lbs.						
14" x 16" MB Dual Lid	Non-Traffic / Polymer		367-5594		367-5595				
(Rectangle Shape Lid) Clear Opening: 13" x 15-1/8" Rim Thickness: 1-1/2"	DROP-IN STYLE Solid Lids* or with 1 Antenna Recess	Brooks MB Dual Frame	7.70 lbs.		7.60 lbs.				
14" x 16" MB Dual Lid	Non-Traffic / Polymer				367-5596				
(Rectangle Shape Lid) Clear Opening: 13" x 15-1/8" Rim Thickness: 1-1/2"	DROP-IN STYLE 2 Antenna Recesses	Brooks MB Dual Frame			7.50 lbs.				
15.4" OD	Non-Traffic / Polymer		367-5644	367-5646	367-5648		367-5649	367-5645	367-5647
Clear Opening: 14.7" Rim Thickness: 0.7"	UHMWPE WORM GEAR Solid Lids* or with 1 Antenna Recess	Mueller and AY McDonald Coil Pit Setter	5.65 lbs.	5.45 lbs.	5.45 lbs. 200 pcs min		5.45 lbs. 200 pcs min	5.35 lbs. 200 pcs min	5.40 lbs. 200 pcs min
16-1/16" OD	Non-Traffic / Polymer	Vestal type A,	367-5771	367-5773	367-5775			367-5772	367-5774
Clear Opening: 15" Rim Thickness: 21/32"	NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	Ford type C, AY McDonald type C	6.04 lbs. 100 pcs min	5.96 lbs. 100 pcs min	6.01 lbs. 100 pcs min			5.76 lbs. 100 pcs min	5.84 lbs. 100 pcs min



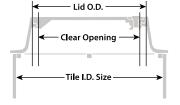
WORM GEARS: Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

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

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



	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
16-3/16" OD Clear Opening: 15" Rim Thickness: 1"	40,000 lbs. / Composite DUCTILE IRON WORM GEAR Solid Lids* or with 1 Antenna Recess	B&T, Vestal, Ford, AY McDonald type C and Baltimore	367-5680 14.20 lbs.	Antenna recesses can be machined in the lid, charges may apply. Load ratings may vary depending on its size.					
17-1/4" OD	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>NEPI</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.

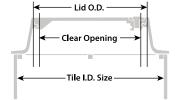


WORM GEARS: Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

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	S, LOAD RATINGS, I MATERIALS	FITS Frame types	SOLID LID No Antenna Recess	BADGER Antenna Recess Ø 3.13" x 0.41" dp	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
19.35" OD Clear Opening: 17" Rim Thickness: 0.56"	Non-Traffic / Polymer DROP-IN STYLE 2 Antenna Recesses	Flat Lid for 18" Plastic Pit		367-5590-2BADG 5.80 lbs. 200 pcs min	367-5590- <u>211RON</u> 5.87 lbs. 200 pcs min	367-5590- <u>2KAMS</u> 5.39 lbs. 200 pcs min	367-5590-2MUEL 5.80 lbs. 200 pcs min	367-5590-2NEPI 5.54 lbs. 200 pcs min	367-5590- <u>2SENS</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)	EJ 1525 " Neenah R-1566 "	367-5688						
19-13/16" OD	Solid Lids* Only 40,000 lbs. / Composite	Baltimore	33.00 lbs. 367-5631						
Clear Opening: 18-1/2" Rim Thickness: 1" "CWD-2"	DUCTILE IRON WORM GEAR Solid Lids* Only	EJ 2990 Neenah R-1892	28.30 lbs.						
21-3/16" OD 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.	367-5605- <u>BADG</u> 10.81 lbs.	367-5605- <u>ITRON</u> 10.77 lbs.	367-5605- <u>KAMS</u> 10.57 lbs.	367-5605- <u>MUEL</u> 10.79 lbs.	367-5605- <u>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.						

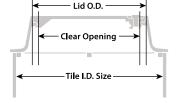


WORM GEARS: Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

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



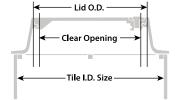
PENTAGON BOLTS: Water meter lids are normally furnished with standard (27/32") brass pentagon bolt, but are also available with large (1-1/32") brass pentagon bolt. Not furnished on drop-in style lids.

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

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



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

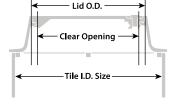
WORM GEARS: Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

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

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

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

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



LID DIMENSIONS, Types and N		FITS Frame types	SOLID LID No Antenna Recess	BADGER Antenna Recess Ø 3.13" x 0.41" dp	100W, RIVA 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
25-1/2" OD Clear Opening: 24-3/16" Rim Thickness: 1-1/4"	40,000 lbs. / Composite UHMWPE WORM GEAR *** Solid Lids* Only	Trumbull Frame 367-5635	367-5528 54.00 lbs.						
30-1/2" x 17-1/2" Rect. Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2"	Non-Traffic / Polymer DROP-IN STYLE Solid Lids* or with 1 Antenna Recess	17" x 30" Hubbell, Old Castle Polymer, & Old Castle Concrete	367-5560 27.80 lbs.	367-5562 27.60 lbs. 250 pcs min	367-5563 27.60 lbs. 250 pcs min	367-5582 27.40 lbs. 250 pcs min	367-5564 27.60 lbs. 250 pcs min	367-5565 27.40 lbs. 250 pcs min	367-5566 27.50 lbs. 250 pcs min
30-1/2" x 17-1/2" Rect. Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2"	Non-Traffic / Polymer DROP-IN STYLE 2 Antenna Recesses	17" x 30" Hubbell, Old Castle Polymer, & Old Castle Concrete		367-5572 27.50 lbs. 250 pcs min	367-5573 27.50 lbs. 250 pcs min	367-5584 27.00 lbs. 250 pcs min	367-5574 27.40 lbs. 250 pcs min	367-5575 27.00 lbs. 250 pcs min	367-5576 27.30 lbs. 250 pcs min
30-1/2" x 17-1/2" Rect. Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2"	Non-Traffic / Polymer BOLT-DOWN STYLE Solid Lids* or with 1 Antenna Recess	17" x 30" Hubbell, Old Castle Polymer, & Old Castle Concrete	367-5561 27.70 lbs.	367-5567 27.50 lbs. 250 pcs min	367-5568 27.50 lbs. 250 pcs min	367-5583 27.30 lbs. 250 pcs min	367-5569 27.50 lbs. 250 pcs min	367-5570 27.30 lbs. 250 pcs min	367-5571 27.40 lbs. 250 pcs min
30-1/2" x 17-1/2" Rect. Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2"	Non-Traffic / Polymer BOLT-DOWN STYLE 2 Antenna Recesses	17" x 30" Hubbell, Old Castle Polymer, & Old Castle Concrete		367-5577 27.40 lbs. 250 pcs min	367-5578 27.40 lbs. 250 pcs min	367-5585 26.90 lbs. 250 pcs min	367-5579 27.30 lbs. 250 pcs min	367-5580 26.90 lbs. 250 pcs min	367-5581 27.20 lbs. 250 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 DROP-IN STYLE Solid Lids* or with 1 Antenna Recess	17" x 30" Hubbell, Old Castle Polymer, & Old Castle Concrete	367-5560- <u>40K</u> 52.00 lbs. 25 pcs min	367-5562- <u>40K</u> 51.20 lbs. 25 pcs min	367-5563- <u>40K</u> 51.30 lbs. 25 pcs min		367-5564- <u>40K</u> 51.20 lbs. 25 pcs min	367-5565- <u>40K</u> 50.90 lbs. 25 pcs min	



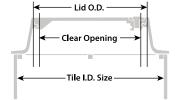
PENTAGON BOLTS: Water meter lids are normally furnished with standard (27/32") brass pentagon bolt, but are also available with large (1-1/32") brass pentagon bolt. Not furnished on drop-in style lids.

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

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

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

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



LID DIMENSIONS, Types and i	, LOAD RATINGS, Materials	FITS FRAME TYPES	SOLID LID No Antenna Recess	BADGER Antenna Recess Ø 3.13" x 0.41" dp	11 HUN BUW, 100W, RIVA Antenna Recess Ø 2.84" x 0.26" dp	KAMSTRUP Antenna Recess Ø 5.06" x 0.50" dp	MUELLER Antenna Recess Ø 3.36" x 0.33" dp	(FIGURE 8) Antenna Recess Ø 4.63" x 0.43" dp	OR ZENNER Antenna Recess Ø 4.11" x 0.41" dp
30-1/2" x 17-1/2" Rect. Clear Opening: 28-1/4" x 15-1/4" Rim Thickness: 2"	40,000 lbs. / Composite DROP-IN STYLE 2 Antenna Recesses	17" x 30" Hubbell, Old Castle Polymer, & Old Castle Concrete		367-5572- <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	367-5567- <u>40K</u> 51.10 lbs. 25 pcs min	367-5568- <u>40K</u> 51.10 lbs. 25 pcs min		367-5569- <u>40K</u> 51.10 lbs. 25 pcs min	367-5570- <u>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		367-5577- <u>40K</u> 50.70 lbs. 25 pcs min	367-5578- <u>40K</u> 50.80 lbs. 25 pcs min		367-5579- <u>40K</u> 50.80 lbs. 25 pcs min	367-5580- <u>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						

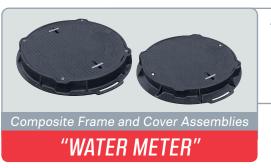


Hand Key 367-4334

Single Slot Retainer Bracket 367-5782

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

LID DIMENSIONS Types and	, LOAD RATINGS, Materials	FITS FRAME TYPES	SOLID LID No Antenna Recess	BADGER Antenna Recess Ø 3.13" x 0.41"dp	ITRON 60W, 100W, RIVA Antenna Recess Ø 2.84" x 0.26" dp	MUELLER Antenna Recess Ø 3.36" x 0.33" dp	SENSUS OR ZENNER Antenna Recess Ø 4.11" x 0.41" dp	FUH "UTHEH" 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>тн</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



Pricing does not include retainer brackets or antenna adapters.

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

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

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

ANTENNA MOUNTING OPTIONS: Shown in "Additional Notes" on page 46.

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



3850 Hendricks Road, Youngstown, Ohio 44515

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

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PROOF LOAD PROOF LOAD TESTING PER... AASHTO M-306

The M-306 Standard

The American Association of State Highway and Transportation Officials (AASHTO) developed a standard, M-306, that calls for proof load testing of iron castings. For an H-20 proof load test, that standard requires a 40,000 lb. load to be applied to a 9" x 9" square plate for one minute. Any cracks or permanent deformation greater than 1/8" are cause for rejection.

Polymer and Composite Lids

Polymer and composite lids are used for a variety of applications, such as:

- Water meter pits and manholes, where existing cast iron lids blocked radio signals from radio read meters.
- Flow monitoring devices in manholes, where signals of rising flow levels are likewise blocked by cast iron lids.
- Theft, due to the scrap value of iron.
- In industrial and sanitary manholes to reduce finger and back injuries, due to their light weight.



How the M-306 Standard Relates to Polymer and Composite Lids

Municipalities and Engineers wanting a traffic rated polymer lid frequently specify an "H-20" rating in their specifications. There can be confusion since AASHTO published bridge design criteria, known as H-20, which calls for truck axle loading of 32,000 lbs., or 16,000 lbs. per wheel load. The AASHTO M-306 standard calls for a safety factor of 2.5 to be applied to the 16,000 lbs. wheel load (2.5 x 16,000 = 40,000 lbs.). Therefore, for H-20 rated lids, a 40,000 lbs. proof load test is required. For H-25 rated lids, a 50,000 lbs. proof load test is required.

Explanation of the Confusion

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

How to Avoid the Confusion

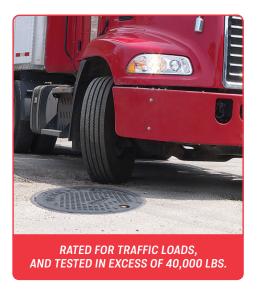
To avoid confusion, your specs should require the proof load test you specify, conducted per AASHTO M-306. To be safe, require a report from an independent test lab. Simply specifying "H-20" may not provide the safety factor you need, particularly where traffic loads are involved. The AASHTO M-306 standard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



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Composite Manhole Lids

For Sanitary Sewer

Trumbull Composite Manhole Lids are today's smart choice for highway use in place of cast iron lids. They have been successfully tested to a minimum of 40,000 lb. proof load per AASHTO M-306, H-20. Test reports from independent lab are available upon request.

Composite lids have no scrap value, deterring theft common to iron lids. These lids are much lighter than cast iron lids, yet are rated for traffic loads. Use composite lids to avoid back and finger injuries associated with cast iron lids. Lids also have a slip-resistant, anti-skid pattern.



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

(See page 29 for details on load testing)







For compatible Trumbull Composite Frames, see pages 41 - 44. For dimensions, load ratings and additional options, refer to the product information chart on pages 45 - 46.



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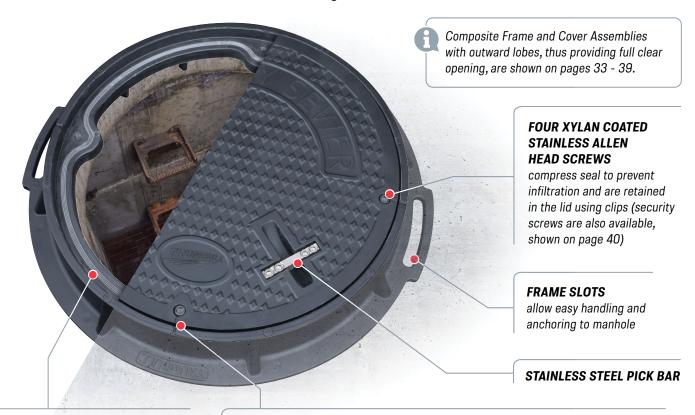
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Composite Manhole Frame and Cover Assembly

21-1/2" Clear Opening

23-3/4" Lid OD - EPDM Sealed

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



GROOVED DESIGN EPDM SEAL

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

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

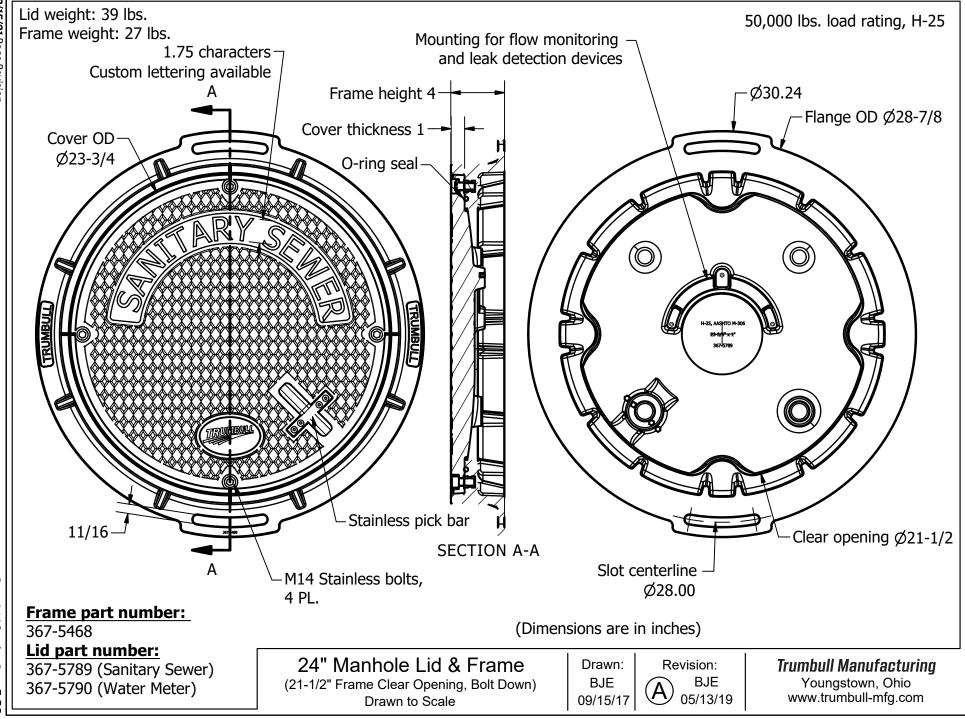
help line up the stainless screws with threaded inserts in the frame; in addition, the underside has cutouts that cause the lid to drop into the proper "bolt-down" position

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



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

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





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Toll Free:

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Composite Manhole Frame and Cover Assemblies

With Full Clear Opening - Paddle Lock and Bolt Down Styles

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

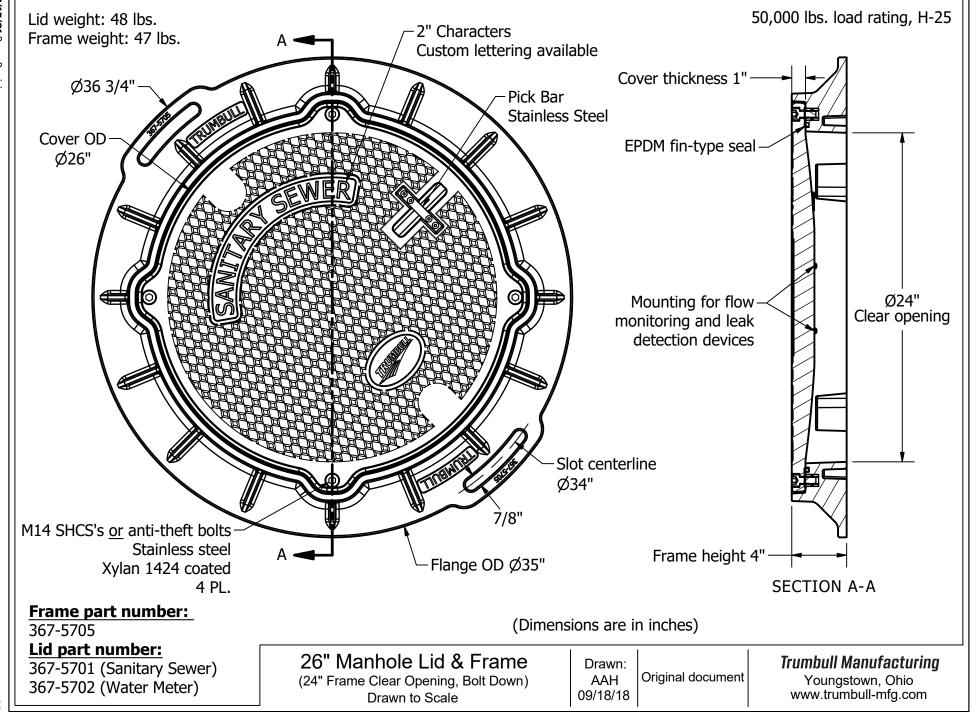


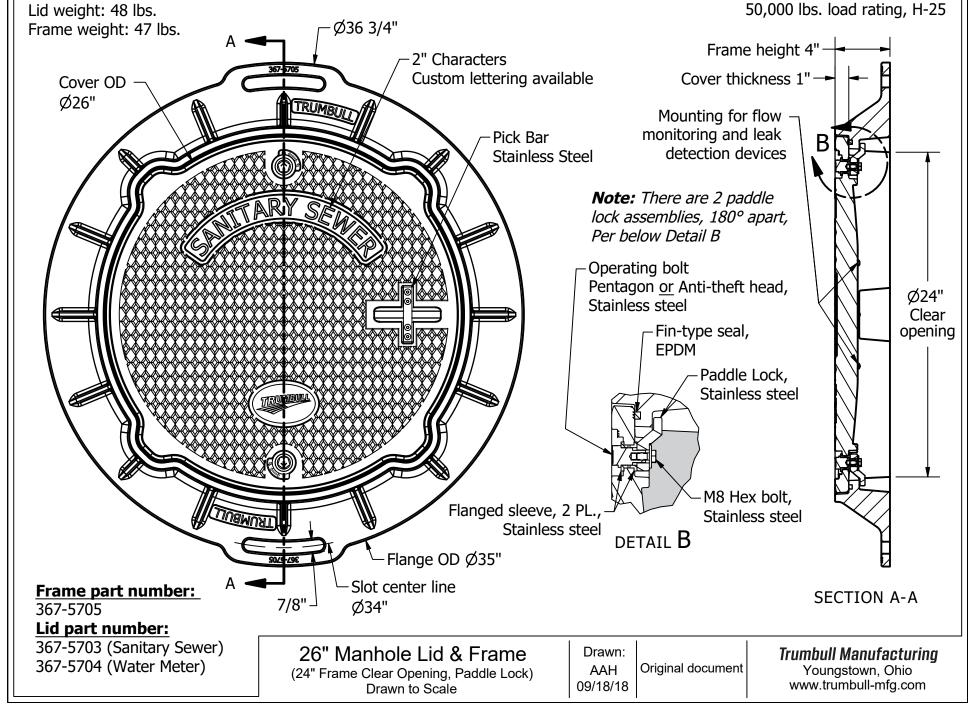
Lid	Locking	Frame	Sanitary Sewer Lid	Water Meter Lid	Total
OD	Mechanism	Item №	Item №	Item №	Weight
26"	Bolt Down	007 5705	367-5701	367-5702	93.00 lbs.
26"	Paddle Lock	367-5705	367-5703	367-5704	93.00 lbs.
32"	Bolt Down	367-5794	367-5792	367-5793	129.00 lbs.
32"	Paddle Lock	307-3734	367-5900	367-5901	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.

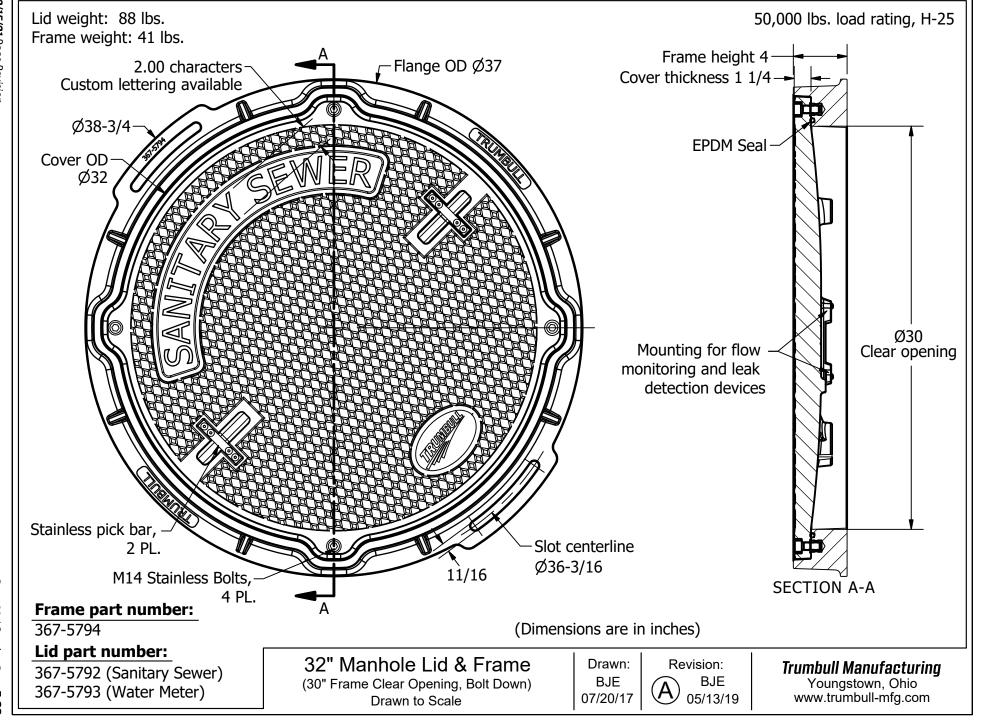
- Composite design can pass a 50,000 lb. proof load test per AASHTO M-306, H-25, vet weighs only one-third of comparable cast iron frame and lid, reducing back and finger injuries.
- Two lid fastening styles available.
- All hardware is stainless steel, along with the composite construction provides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

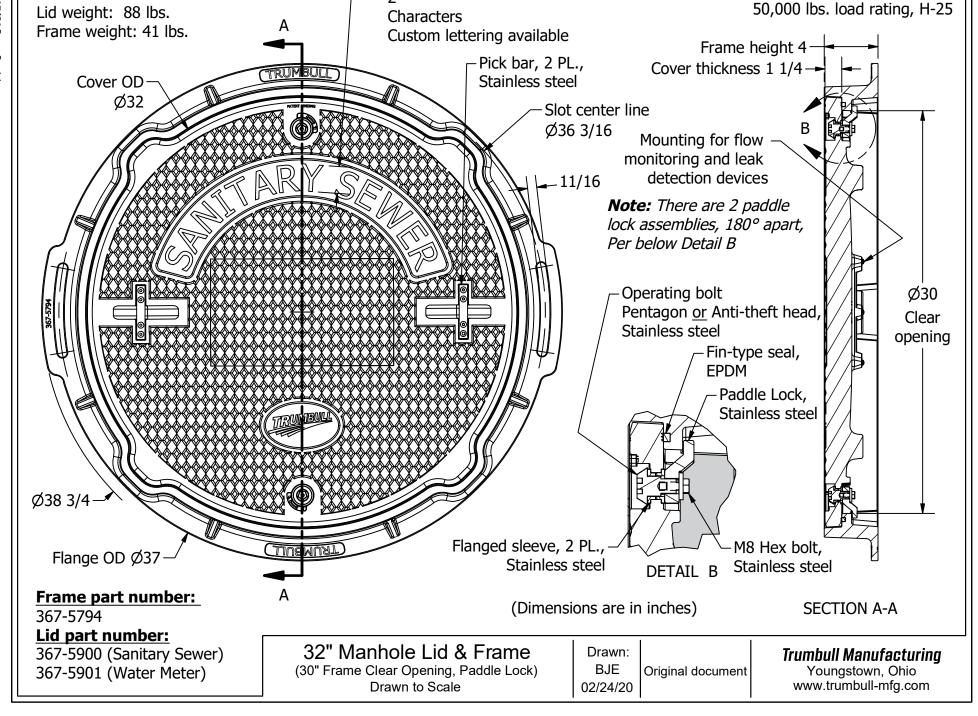
For dimensions, load ratings and additional options, refer to the product information chart on page 28 (WATER METER) and page 46 (SANITARY SEWER).

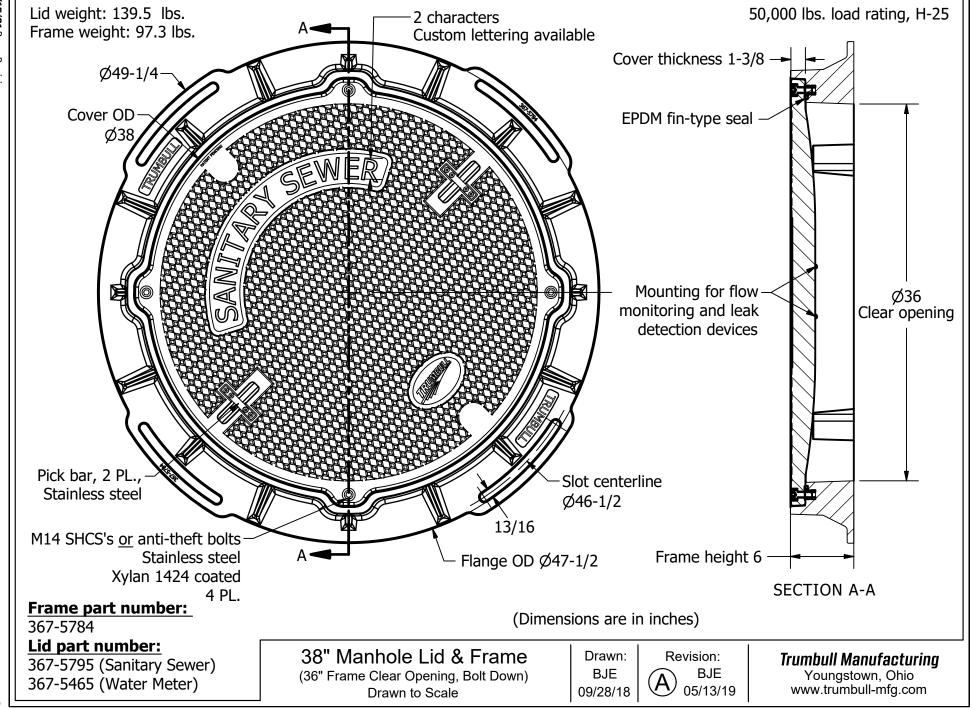
manhole

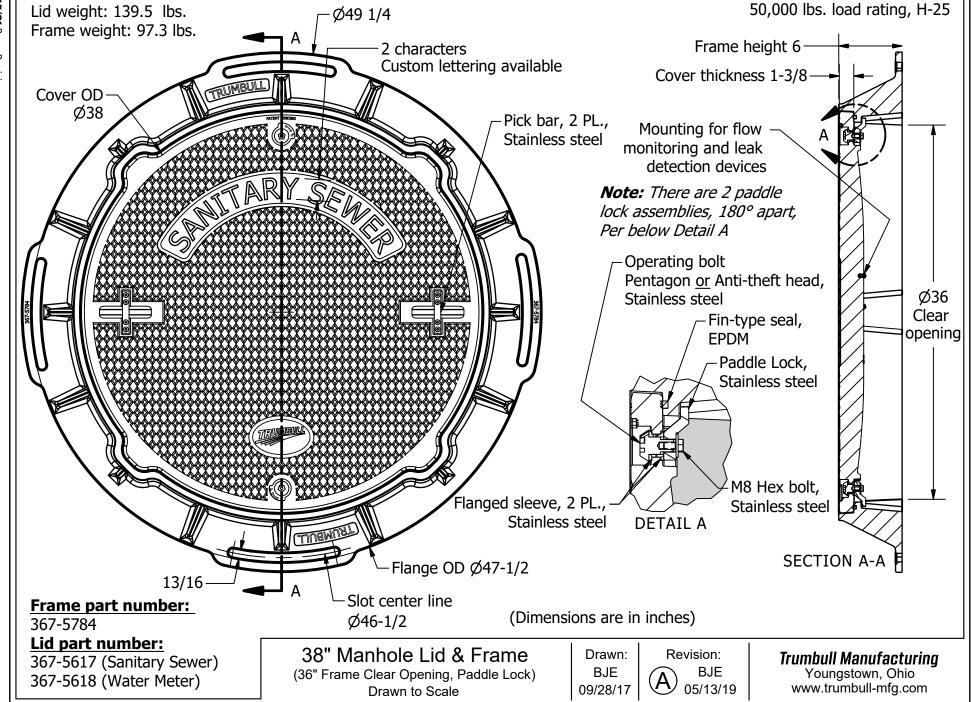














3850 Hendricks Road, Youngstown, Ohio 44515

Phone: 330.270.7888 877.504.1507 330.392.0756

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Additional Security for Meter and Manhole Lids

Security Bolts...

Made from stainless steel

...for Worm Gear Lids

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

...for Paddle-Lock Frames and Covers

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



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

^{* 316} Stainless Steel

Security Screws...

- Xylan coated stainless steel
- M14 x 30MM for use with 24" Frame and Covers
- M14 x 35MM for use with 30" and 36" Frame and Covers



...for Bolt Down Frames and Covers

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

Don't forget the
Custom
KEY

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

RELATED PRODUCT

Manhole Cover Hooks

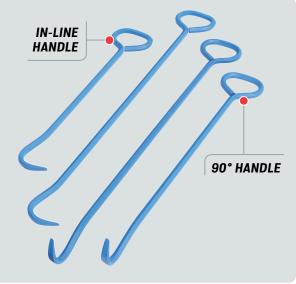
Trumbull Manhole Cover Hooks are made of 5/8" hexagonal steel. The 1/2" point engages the lid of the manhole cover. Painted in Safety Blue enamel paint for safety and durability. Product shown in more detail on Catalog page A-3.

In-Line Handle

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

90° Handle

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



^{** 17-4} Stainless Steel



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

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







EPDM SEAL

prevents infiltration

4 WORM GEAR RECESSES

allow cover to be placed in any of 4 directions

WIDE FLANGE DIAMETER

FRAME SLOTS

allow easy handling and anchoring to manhole



367-5626 367-5528

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

		1					
	Flange	Dimensions of Lids		Locking	Frame	Sanitary Sewer Lid	Water Meter Lio
_	OD	that will Fit	Height	Mechanism	Item №	Item №	Item №

Worm Gear

6"

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

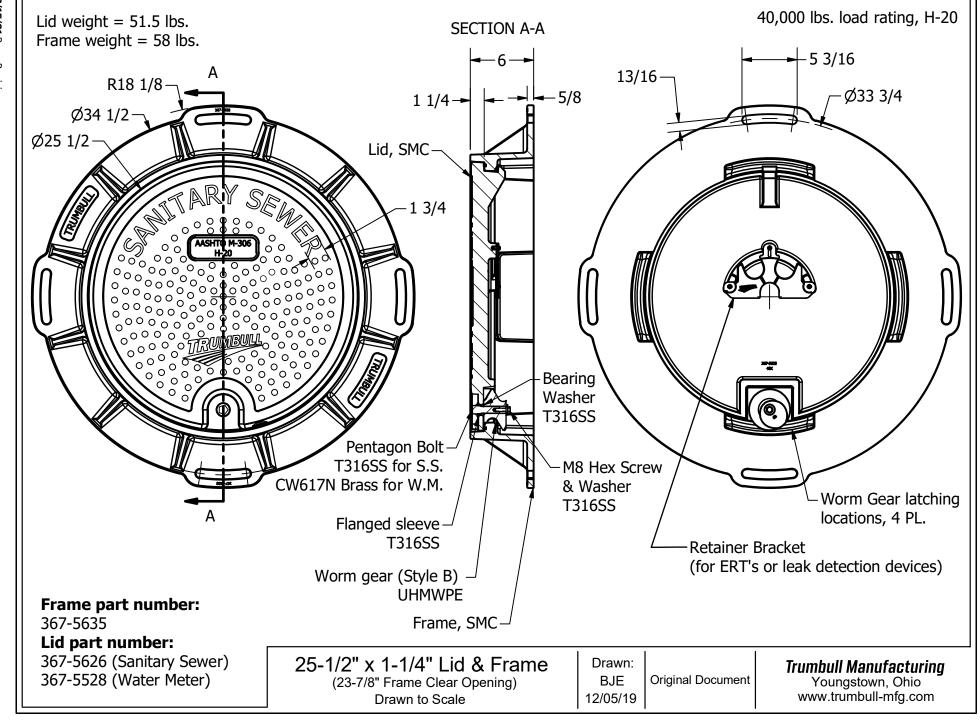
367-5635

34-1/2"

25-1/2" x 1-1/4"

Total Weight

109.50 lbs.





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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.



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

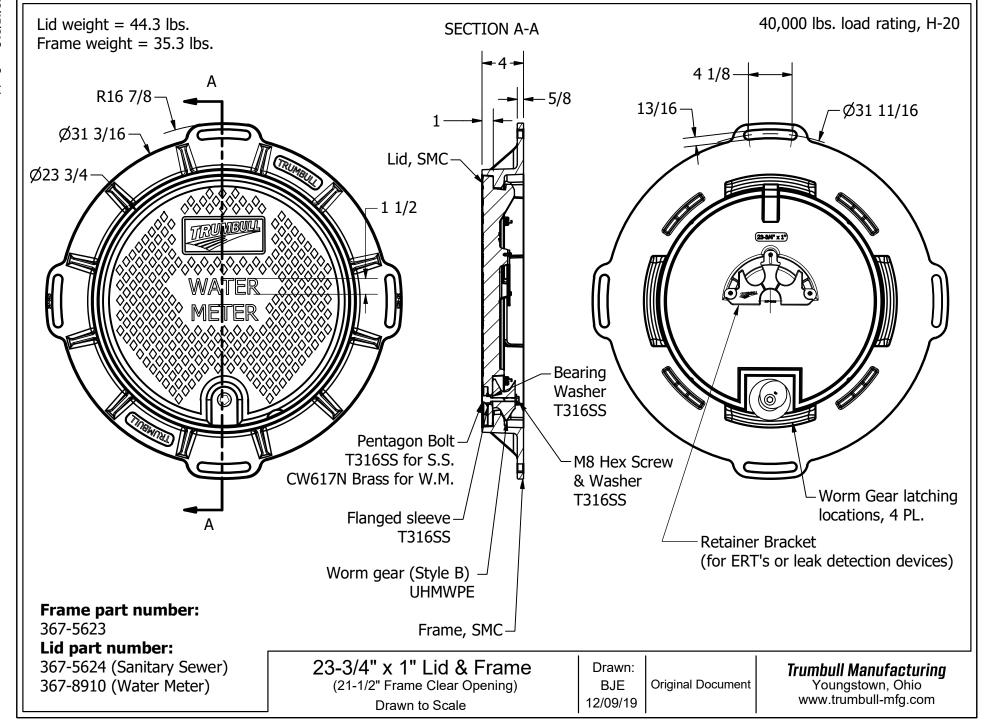


FRAME SLOTS



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

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





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

WORM GEARS: Lids furnished with ductile worm gears. Not furnished on drop-in style lids. **LETTERING:** Lids normally furnished marked "SANITARY SEWER", special lettering available.

BEARING WASHERS: Composite Lids include a T316SS bearing washer below the lid and T316SS flanged sleeve (protects hole from elongation) above the lid. Not furnished on drop-in style lids.

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

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

—	—— Lid O.D. —	\rightarrow
	- Clear Opening	→
- 	— Tile I.D. Size	

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

Continued	nη	the	riaht
Continueu	UII	uic	ngn.

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

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

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

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

BOLT DOWN LIDS: Are secured to frames with four Xylan coated stainless screws, see page 30 for optional security screws.

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

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

- * Underside of solid lids provide the following options to mount antenna:
 - 1. Trumbull Retainer Bracket, screwed to 3 posts, which will hold the following:
 - ITRON SHELF MOUNT ADAPTER
 - ITRON THROUGH-THE-LID ADAPTER, bracket can hold either one or two
 - BADGER, antenna bracket can hold either one or two
 - NEPTUNE, bracket can hold one R900 antenna
 - SENSUS, bracket can hold one antenna
 - ZENNER, bracket can hold one antenna
 - MUELLER, bracket can hold one antenna
 - 2. A Trumbull retainer bracket can be mounted to the underside of lid to hold a flow monitoring device or other equipment.
 - 3. Post adapters, screwed to one post on the lid:
 - ITRON 100W ADAPTER, item #367-5796 (snap-in design)
 - ITRON RIVA ADAPTER, item #167-5000 (snap-in design)
 - BADGER LTE ADAPTER, item #367-5000
- ** Neptune (figure 8) holes accepts either Neptune Touch Read or R900 antennas.
- *** X-Frame style lids will seat, but not hinge.
 - * Slots need to be cut or ground into existing frame in order for the paddle locks to lock in frame.
- *** A ductile iron worm gear is required when cover is used with an iron frame, and UHMWPE worm gear when used with a composite frame.





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Brass Meter Couplings and Meter Flanges

Complete w/gasket. Additional gaskets can be purchased separately. Shown in more detail on page E-54 of our Catalog.

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.

ZINC-PLATED FASTENERS	BRASS FASTENERS	STAINLESS FASTENERS
ITEM №	ITEM №	ITEM №
379-2015	379-2025	379-2030
379-2016	379-2026	379-2031
	FASTENERS ITEM № 379-2015	FASTENERS FASTENERS ITEM № ITEM № 379-2015 379-2025



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	TRUMBULL 5584	0.72 lbs.
368-0632	Expansion Connection, for 5/8" x 3/4" or 3/4" me	eters	0.93 lbs.
368-0635	Expansion Connection, for 1" meters		1.61 lbs.







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

				. '	3	, ,	
	FORD	ORIGINAL METER		NEW METER		QUANTITY	
ITEM №	Nº	METER SIZE	LAYING LENGTH	METER SIZE L	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.



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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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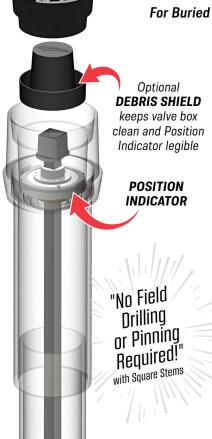
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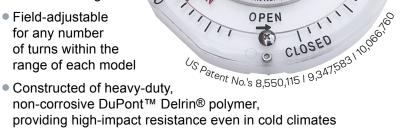
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Valve Position Indicators

For Buried Service with 1-1/4" Square Extension Stems



- Eliminates broken valve stems caused by over-opening or over-closing
- Field-adjustable for any number of turns within the range of each model



- Double O-ring seals keep out water and dirt
- Third-party tested to over 1 million revolutions
- Provided with stainless steel hardware
- Also available for use above ground in the floor or with Wall Brackets (see pages F-9 to F-10)



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

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

- 3. Extension Stem required (1-1/4" square)
 - a. Length required (provide "A" dimension on the illustration shown on right side of page F-2)
 - b. Carbon steel or stainless steel
 - c. Tubing or solid bar
- 4. Debris Shield, item 367-9415 is recommended for buried service





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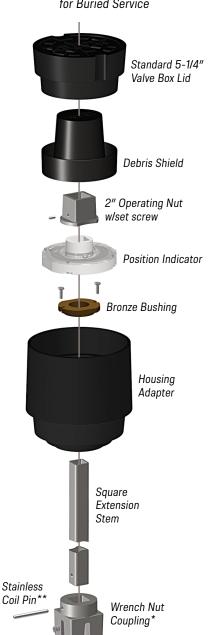
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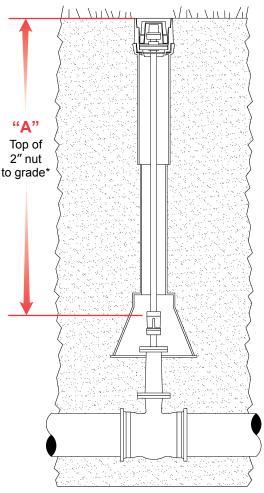
Exploded View

of Square Extension Stem for Buried Service



SQUARE EXTENSION STEM

- * 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.





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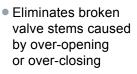
For Buried Service with Telescopic Extension Stems

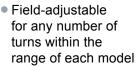


POSITION INDICATOR

'Nn Field Cutting, Drilling or Pinning Required! with Telescopic

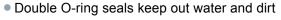
Stems





Constructed of heavy-duty, non-corrosive DuPont™ Delrin® polymer, providing high-

impact resistance even in cold climates



- Third-party tested to over 1 million revolutions
- Provided with stainless steel hardware
- Also available for use above ground in the floor or with Wall Brackets (see pages F-7 to F-10)
- Telescopic stem eliminates the need for precise field measurement of extension stems and provides for ground movement caused by freezing and thawing



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

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

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



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Exploded View

of Telescopic Extension Stem for Buried Service



Valve Box Lid



Debris Shield



2" Operating Nut w/set screw





Male Telescoping Stem (Top Piece)







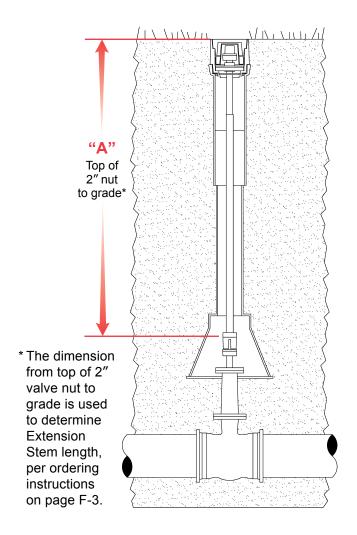




Wrench Nut Coupling*

TELESCOPIC EXTENSION STEM

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



Extension Stem Adjustment Ranges and Torque Ratings

for Telescopic Extension Stems

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

Other stem ranges available upon request.



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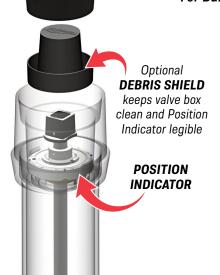
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Valve Position Indicators

For Buried Service with Round Extension Stems



- Eliminates broken valve stems caused by over-opening or over-closing
- Field-adjustable for any number of turns within the range of each model
- CLOSED CL Constructed of heavy-duty, non-corrosive DuPont™ Delrin® polymer, providing high-impact resistance even in cold climates



- Third-party tested to over 1 million revolutions
- Provided with stainless steel hardware and pin
- Also available for use above ground in the floor or with Wall Brackets (see pages F-7 to F-10)



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

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

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



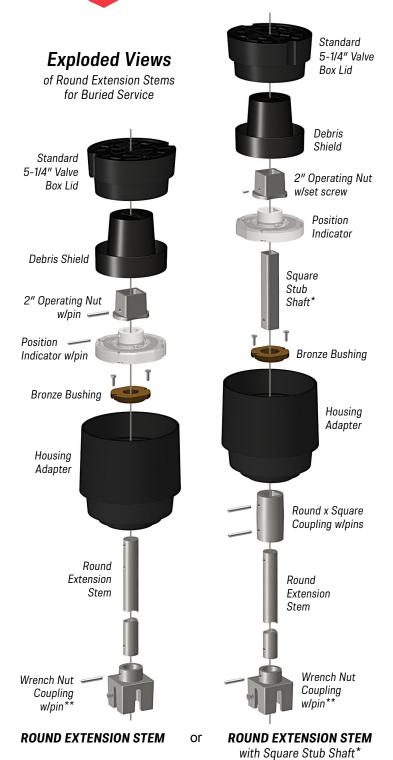
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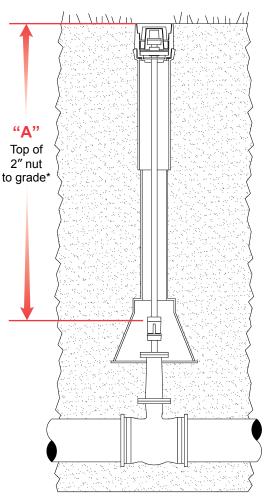
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- * Using a square stub shaft saves field drilling and installation of pins inside housing adapter.
- ** Wrench nut coupling normally furnished pinned to stem.



* The dimension from top of 2" valve nut to grade is used to determine Extension Stem length, per ordering instructions on page F-5.

Extension Stem Torque Ratings

Consult your Trumbull Rep for torque ratings.





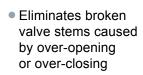
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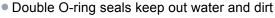
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Valve Position Indicators

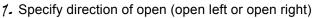
Installation in Floor



- Field-adjustable for any number of turns within the range of each model
- Constructed of heavy-duty, non-corrosive DuPont™ Delrin® polymer, U_{S} providing high-impact resistance even in cold climates
- er, Cosen Close Close Cosen Rolling Cosen Cosen

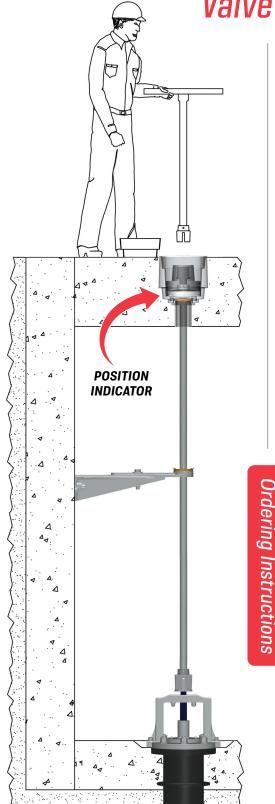


- Third-party tested to over 1 million revolutions
- Provided with stainless steel hardware
- Also available w/Wall Bracket for mounting to tank walls (pages F-9 to F-10), and in Valve Boxes for buried service (pages F-1 to F-6)



- 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
Item №	Item №	Item №	Item №
367-9394	367-9393	367-9404	367-9403
367-9396	<i>367-9395</i>	367-9406	367-9405
367-9400	367-9399	367-9410	367-9409
	Open Left Item № 367-9394 367-9396	Open Left Open Right Item № Item № 367-9394 367-9393 367-9396 367-9395	Open Left Open Right Open Left Item № Item № Item № 367-9394 367-9393 367-9404 367-9396 367-9395 367-9406





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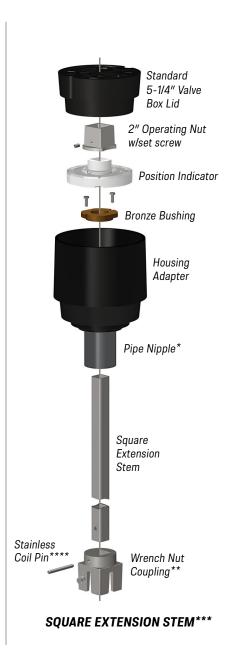
Fax: 330.392.0756

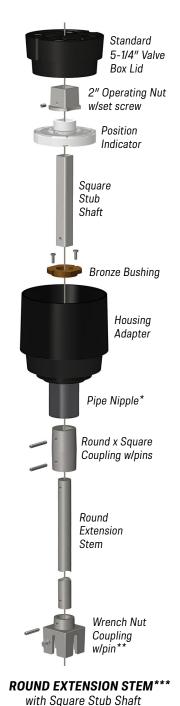
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Exploded Views

Extension Stem Installation in Floor







- * 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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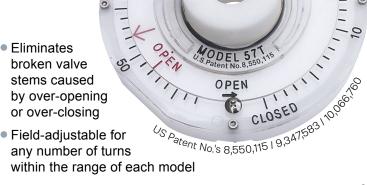
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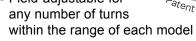
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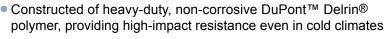
Valve Position Indicators

Installation with Wall Bracket









- 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)

Ordering Instructions

- 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

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



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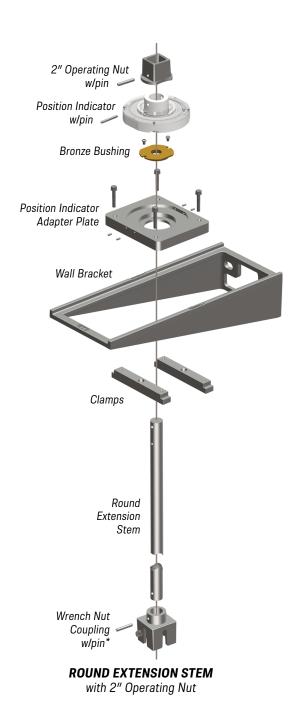
Phone: **Toll Free:** 330.270.7888 | 877.504.1507 | 330.392.0756

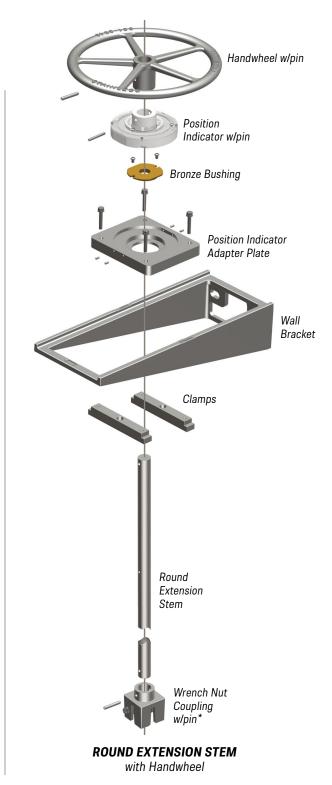
Fax:

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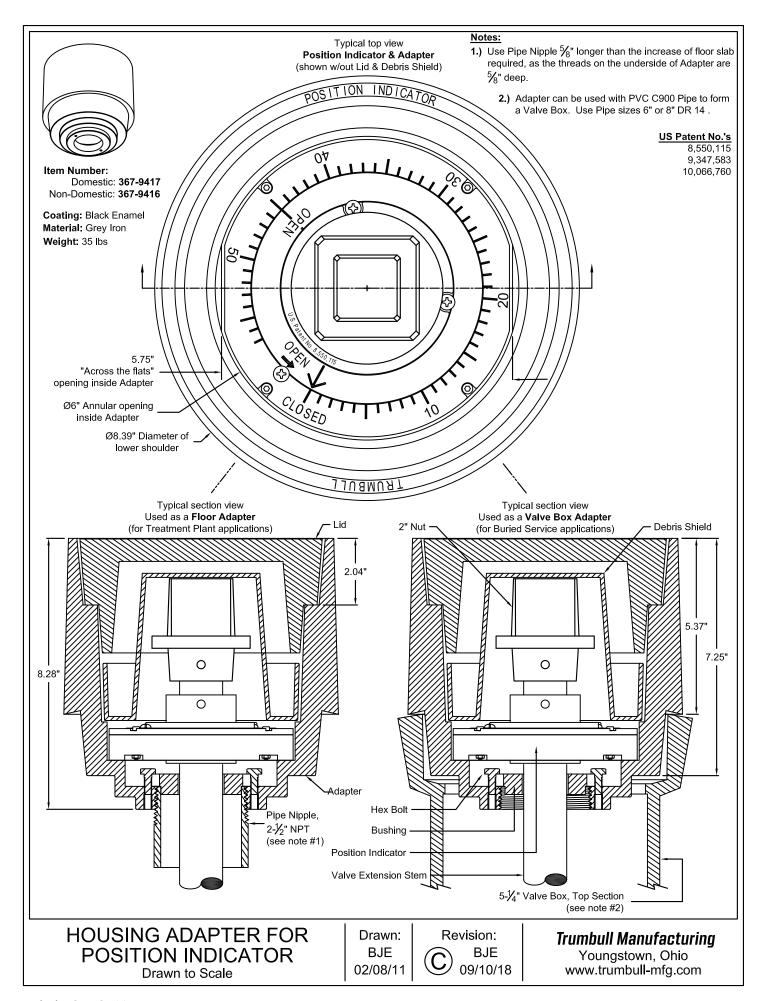
Exploded Views

Round Extension Stems Installation with Wall Bracket





* Wrench nut coupling normally furnished pinned to stem.





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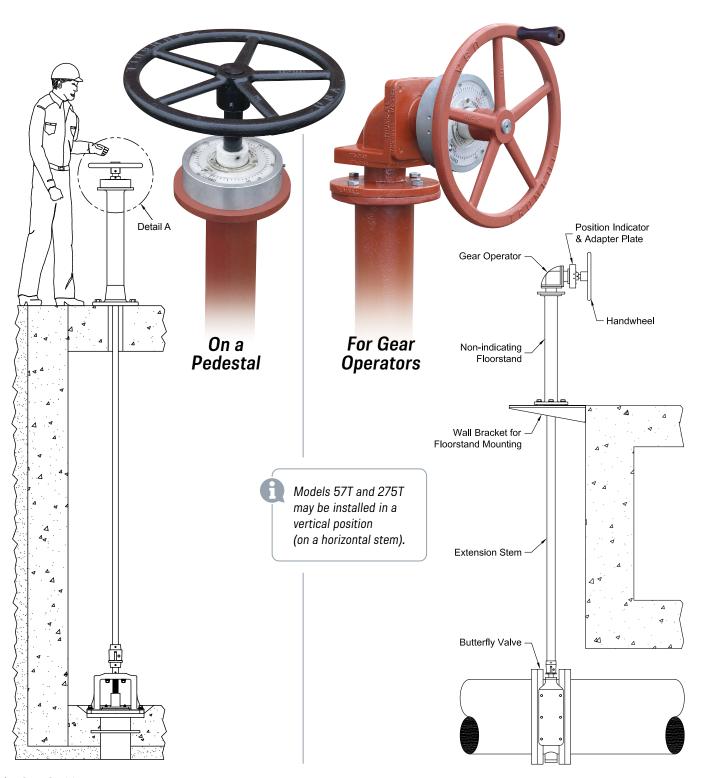
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Valve Position Indicators

Installation with Floorstands

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



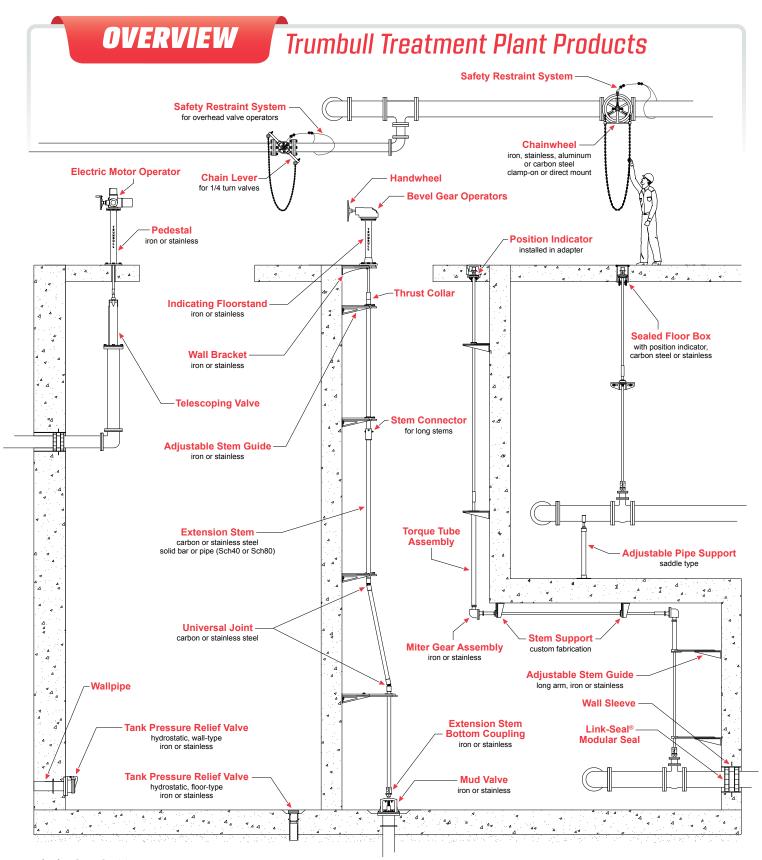


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Round Valve Extension Stems

Solid Bar or Pipe - Carbon Steel or Stainless Steel

Square Stems are shown on **PAGE G-3**

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

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

The top nut (or handwheel) and bottom coupling are pinned to the extension rod (or pipe) which is drilled to receive stainless steel coil pins. The top nuts and bottom couplings are available in either ductile iron, grade 65-45-12, or stainless steel, Type 316. The pinned connections permit the removal of the castings so the rod can slide through Trumbull Floor Boxes and Stem Guides. Extensions can easily be shortened by cutting the stem and re-drilling for the pin. Optional handwheel **EXTENSION STEM ASSEMBLY** and bottom Using a Wrench Nut and Wrench Nut Coupling coupling Extension Stem 2" square -Coiled Spring Pins 3" Dia. 5/16" x 2" Top nut Stem Wrench and bottom Length Nut coupling Wrench Nut Coupling Hex Head Cap Screw with Jam Nut, 2 each 1/4", Stainless Steel Valve stem square nut 2.9" square *Smaller diameter stems use 5/16" x 2" SS Coiled Spring Pins while larger stems use 5/16" x 3" SS Coiled Spring Pins.



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



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Square Valve Extension Stems

Telescopic and Non-Telescopic Types

Round Stems are shown on PAGE G-2





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



TELESCOPIC EXTENSION STEMS

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 non-telescopic 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.



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Top Nuts and Bottom Couplings

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

S	olid	Max Torg*	Steel	Max Torg*	Bore	Top Nut	Bottom Coupling
-	Rod	in ft-lb	Pipe	in ft-lb	Diameter	Item №	Item №
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	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	3/4"	680	1-1/2"	740	1.929"	367-4957	367-4967
- 2	2"	775			2.047"	367-4958	367-4968
			2"	920	**	367-4959	367-4969
	1-1/4	" squar	e stems	***		367-4930	367-4938
3.	/4"	325			0.780"	367-4931	367-4941
1-	1/4"	480			1.265"	367-4935	367-4945
			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	" 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.



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

Handwheels are available. Contact Trumbull for more information.



oust manawhous			3	2-3-3	
	Item №	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

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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ORDERING INFORMATION

Valve Extension Stems

COMPLETE ROUND 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	
	Pipe	Sch. 40			
Carbon	Fipe	Sch. 80	2" DI Square Nut, or 14" CI	Black Enamel	
Steel	Solid Bar	Hot Rolled	Handwheel*	**	
	Solid Bai	Cold Rolled			
	Pipe (Sch. 40)	304	2" SS Square	n/a	
Stainless Steel	Fipe (301. 40)	316	Nut, or 14"		
	Solid Bar	304	Handwheel,		
	Sullu Dal	316	CI or SS		

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

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 and 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".

COMPLETE SOUARE **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 and ready to ship. Additional coatings, such as powder coating, available as special order.

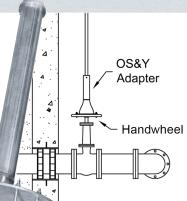


OS&Y Adapters

"Outside Screw and Yoke" Adapters

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

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





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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.

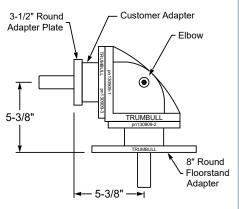
Housings are cast 316 stainless steel or ductile iron 65-45-12 with a Tnemec N140-1211 two-part epoxy, NSF-61 certified exterior coating. The gears are case hardened steel; the gear shafts and fasteners are 316 stainless steel. Trumbull Miter Gear Assemblies are provided standard with a recessed grease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

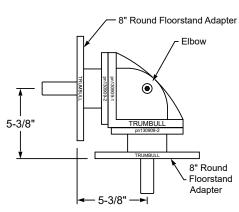
MG1A

8" Round x 3-1/2" Round



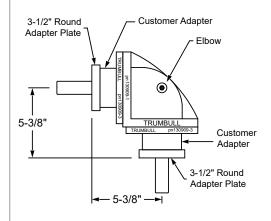
MG1C

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.



UNIVERSAL JOINT shown with optional EPDM grease boot assembly

Universal Joints*

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

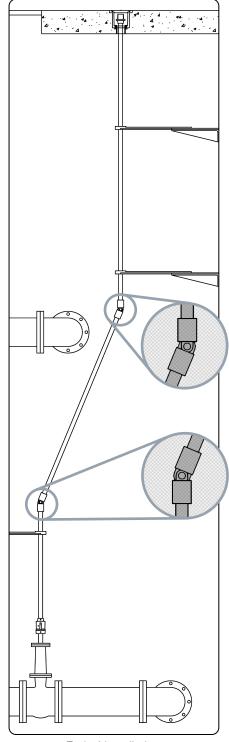
Material	Item №	Weight
Carbon Steel	367-8352**	3.65 lbs.
T304 SS	<i>367-8355</i> **	3.70 lbs.
T316 SS	367-8356**	3.70 lbs.

Boot Assembly

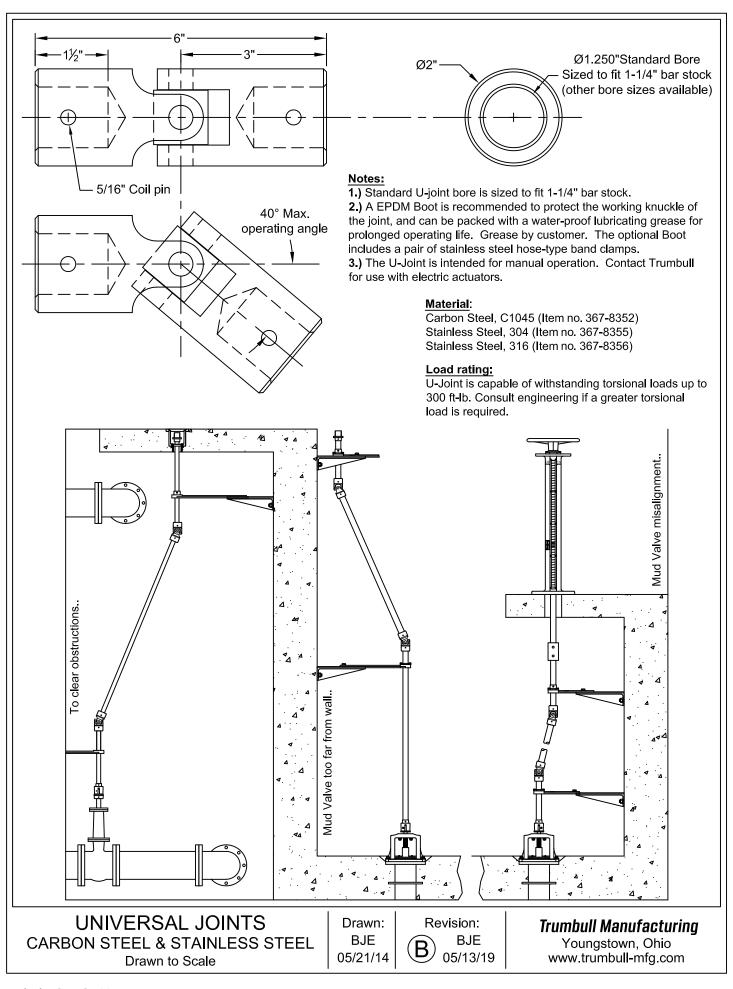
Includes two clamps

Item №	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

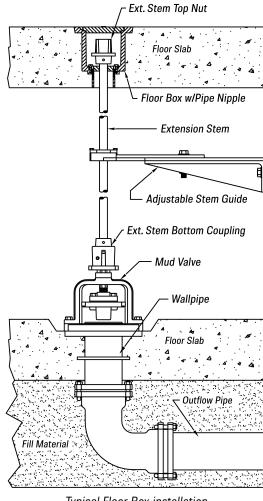
Floor Boxes are designed for installation in concrete floors or slabs to provide support for extension stems for non-rising type valves, and to provide a cover over the operating nut on the extension stem.

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.





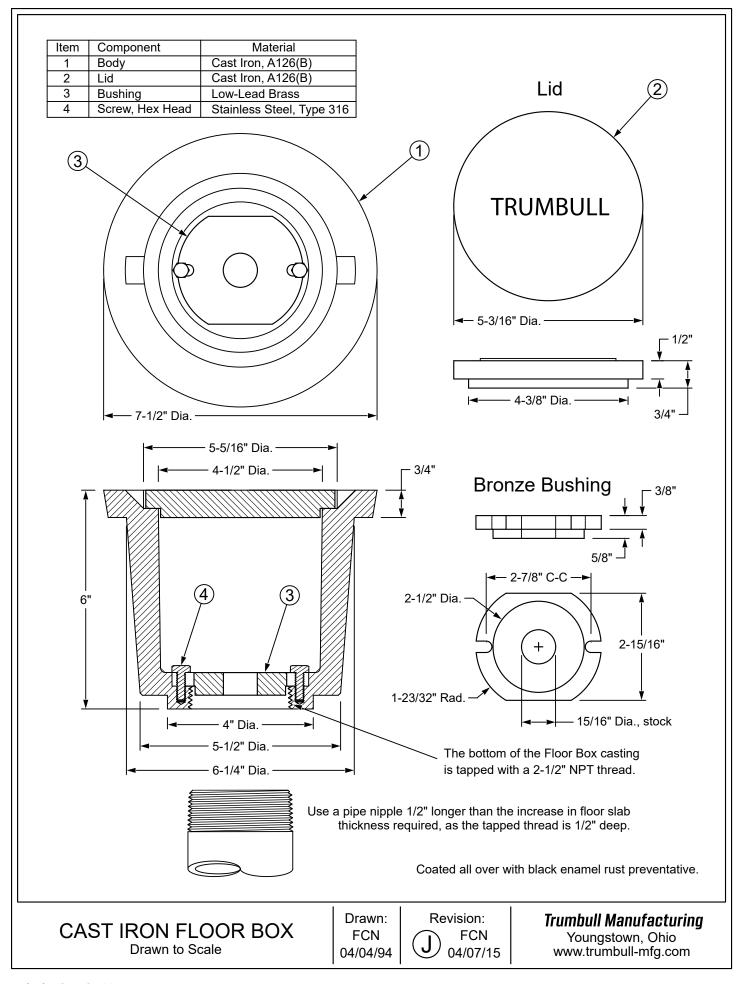
Typical Floor Box installation

Bushings are available in:

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

- 1. Quantity required
- 2. Thickness of floor slab, or length of pipe nipple required
- 3. O.D. of stem being used, or desired bushing material & hole size
- 4. Custom options available such as stainless steel construction. O-Ring lids, water-tight seals, tamper-resistant lids & anchoring collar

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





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6" Sealed Floor Boxes

Available in Cast Carbon Steel and Cast Stainless Steel

BUNA-N O-RING Seals Floor Box at top of floor; **SOCKET HEAD CAP SCREWS** furnished standard, other furnished standard materials available upon request STAINLESS STEEL **SEALED FLOOR BOX** shown with optional packing gland

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

NOT for use with Valve Position Inidicators. See page G-15 for Sealed

Floor Boxes for use with

the Position Indicators.

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

Floor Boxes

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

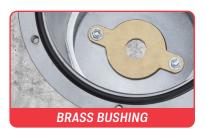
^{*} Carbon steel models are EDP coated.

Optional Accessories

Available as special order

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

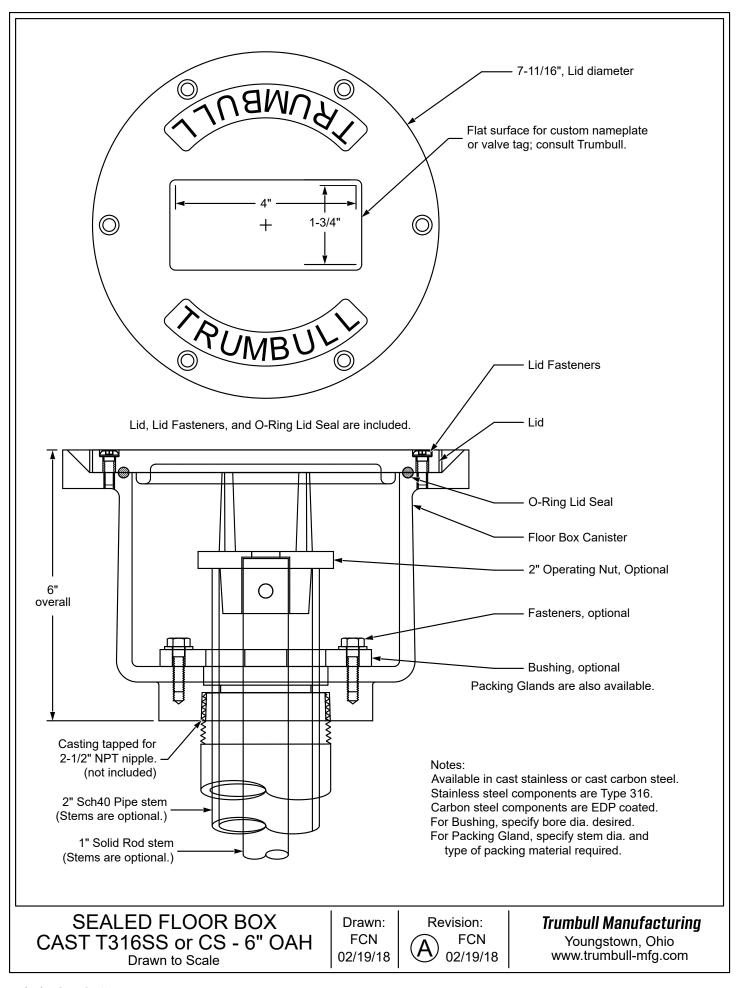














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11-1/8" Sealed Floor Boxes

Available in Cast Carbon Steel and Cast Stainless Steel

OVERALL HEIGHT

11-1/8" with lid



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	Item №	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

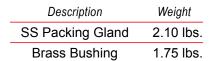
with stainless steel follower seals bottom of Floor Box

BRASS BUSHING

aligns extension stem when bottom seal is not utilized

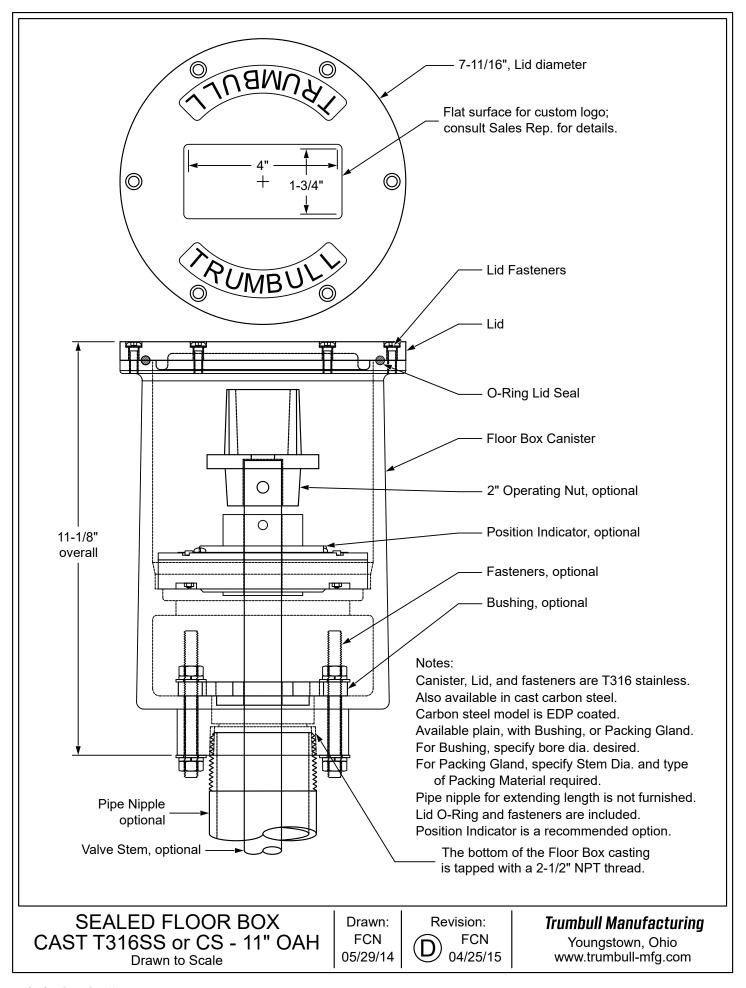
POSITION INDICATOR

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.











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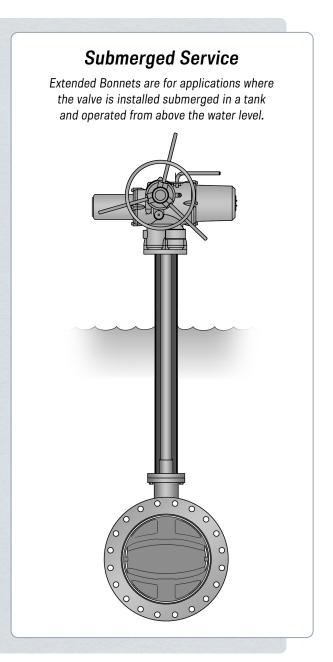
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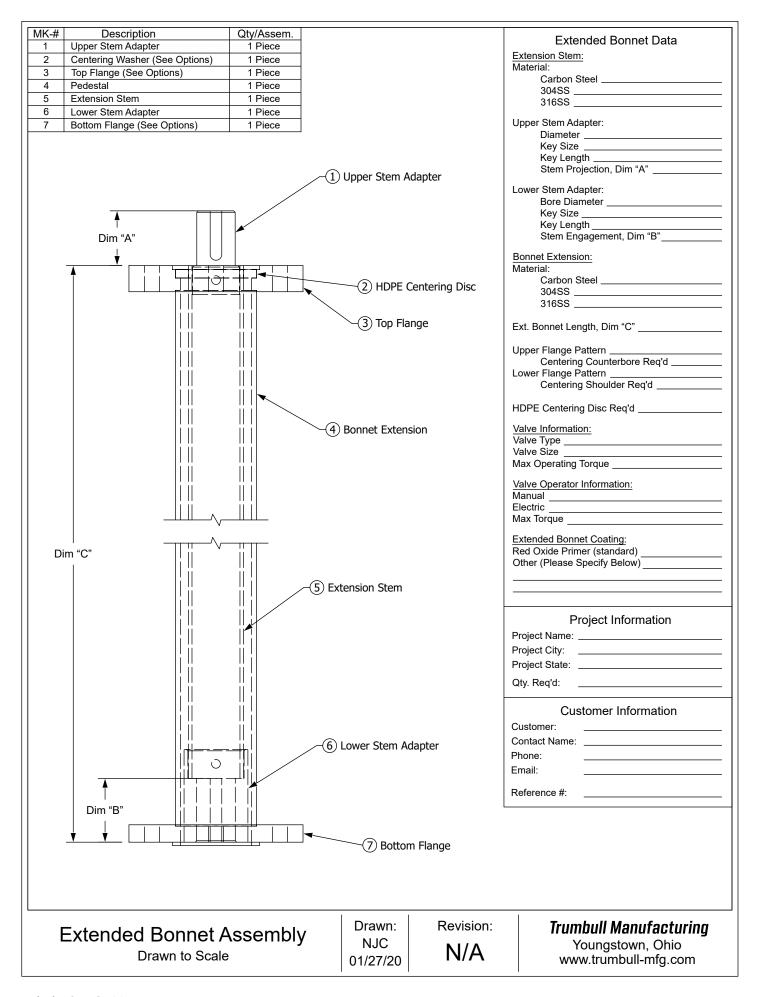
Extended Bonnets

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.

Buried Service Extended Bonnets ideal for applications where the valve is located below ground with the operator above ground.







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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.

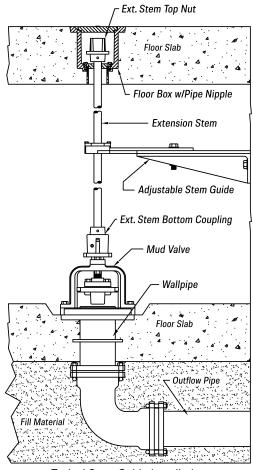


	Ductile	e Iron	316 Stainless Steel		
Adjustment	Domestic	Non- Domestic	Domestic	Non- Domestic	
Range	Item №	Item №	Item №	Item №	
2" to 26"	1367-4960	367-4960	1367-5960	367-5960	
2" to 36"	1367-4970	367-4970	1367-5970	367-5970	
36" to 48"	1367-4974*	367-4974*	1367-5974*	367-5974*	

- * 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.

Ordering Instructions

- 1. Quantity required
- 2. Provide the Trumbull item number for the model you require (shown above)
- 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:

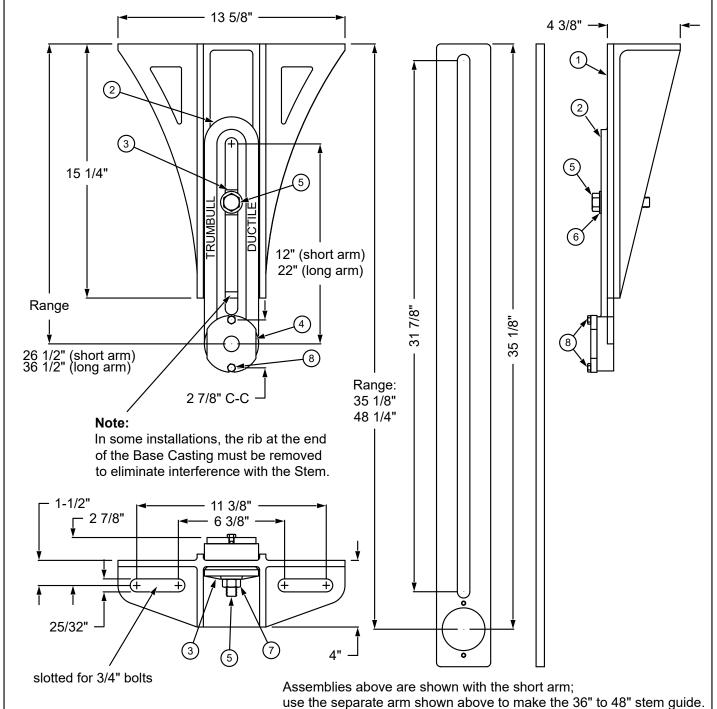
- Low-lead brass
- Ultra High Molecular Weight Polyethylene (UHMWPE)
- NSF 61 approved polymer (Ryton® R-4)

Item	Part	Material
1	Base	Ductile Iron or Stainless Steel
2	Arm	Ductile Iron (carbon steel for 36" to 48" version) or Stainless Steel
3	Clamp	Ductile Iron or Stainless Steel
4	Bushing	Low-Lead Brass
5	Bolt	5/8" x 4", Hex Head, Stainless Steel
6	Washer	1-1/2" O.D., Stainless Steel
7	Nut	5/8", Hex, Stainless Steel
8	Screw	1/4"-20 UNC, Stainless Steel

Ite	m No.	Size	Weight				
Ductile Iron Guides (65-45-12)							
367	'-4960	2" - 26"	25 lbs.				
367	'-4970	2" - 36"	28 lbs.				
367	'-4974	36" - 48"	38 lbs.				

Stainless Steel Guides (T316) 367-5960 2" - 26" 25 lbs. 367-5970 2" - 36" 29 lbs. 367-5974 36" - 48" 37 lbs.

All Ductile Iron and carbon steel components are coated with Tnemec N140-1211, NSF 61 compliant.



ADJUSTABLE STEM GUIDES

Drawn to Scale

Drawn: FCN 04/25/15

Revision:
FCN
07/24/19

Trumbull ManufacturingYoungstown, Ohio

www.trumbull-mfg.com



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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 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.

A

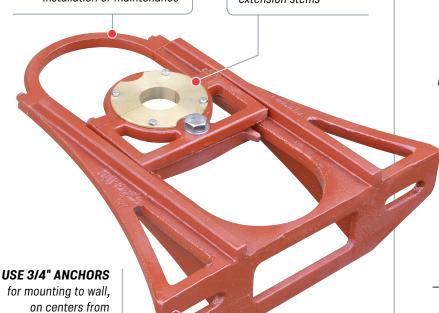
Stem Guides are generally recommended at 6' to 8' intervals.

END CAP DESIGN provides a safety restraint for

provides a safety restraint for large or unwieldy stems during installation or maintenance

SPLIT BUSHINGS

simplify the installation of larger diameter extension stems

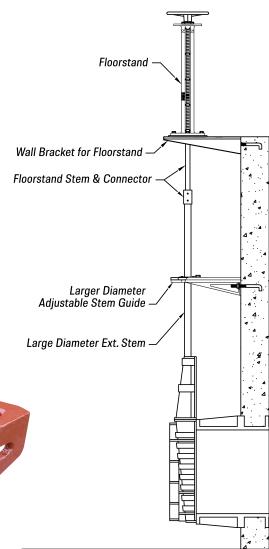


on centers from 11-3/4" to 15-3/4", supplied by others

Item №	Adjustment Range	For Stem Diameters	Weight
367-6960	2-3/4" to 17-1/4" *	2" to 4"	38.65 lbs.

^{*} 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.



Typical installation

Ordering Instructions

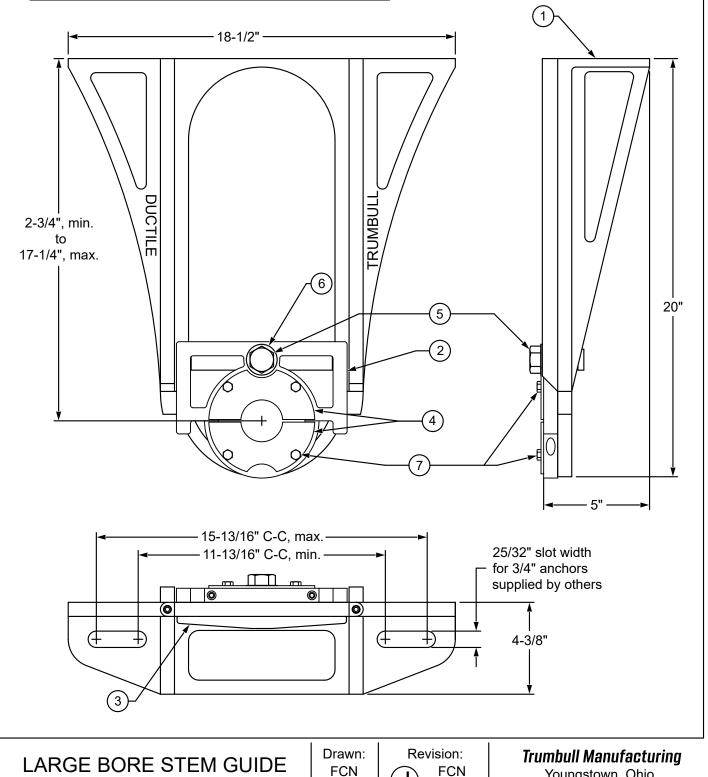
- 7. Quantity required
- 2. Trumbull item number
- 3. O.D. of stem being used, or desired bushing material & hole size

Note that a 2-1/8" bore diameter bushing supplied if size is not specified.

Item	Part	Material
1	Base	Ductile Iron
2	Arm	Ductile Iron
3	Clamp	Ductile Iron
4	Bushing	Bronze
5	Bolt	5/8" x 4", Hex Head, Stainless Steel
6	Washer	1-1/2" O.D., Stainless Steel
7	Screw	1/4"-20 U.N.C., Stainless Steel

All ductile iron components are coated with Tnemec 140-1211, NSF 61 compliant.

Weight of assembly: 43 lbs.



08/23/99

04/07/15

Drawn to Scale

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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 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.

SPLIT BUSHINGS simplifly the installation of larger diameter extension stems

Ductile Iron

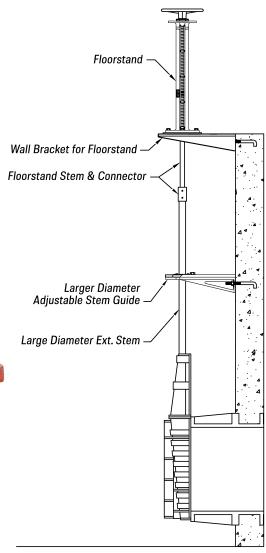
367-2454	4" to 18" *	4" to 6-1/2"	
Item №	Adjustment Range	For Stem Diameters	Weight

316 Stainless Steel

Item №	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.

For Stom

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.



Typical installation

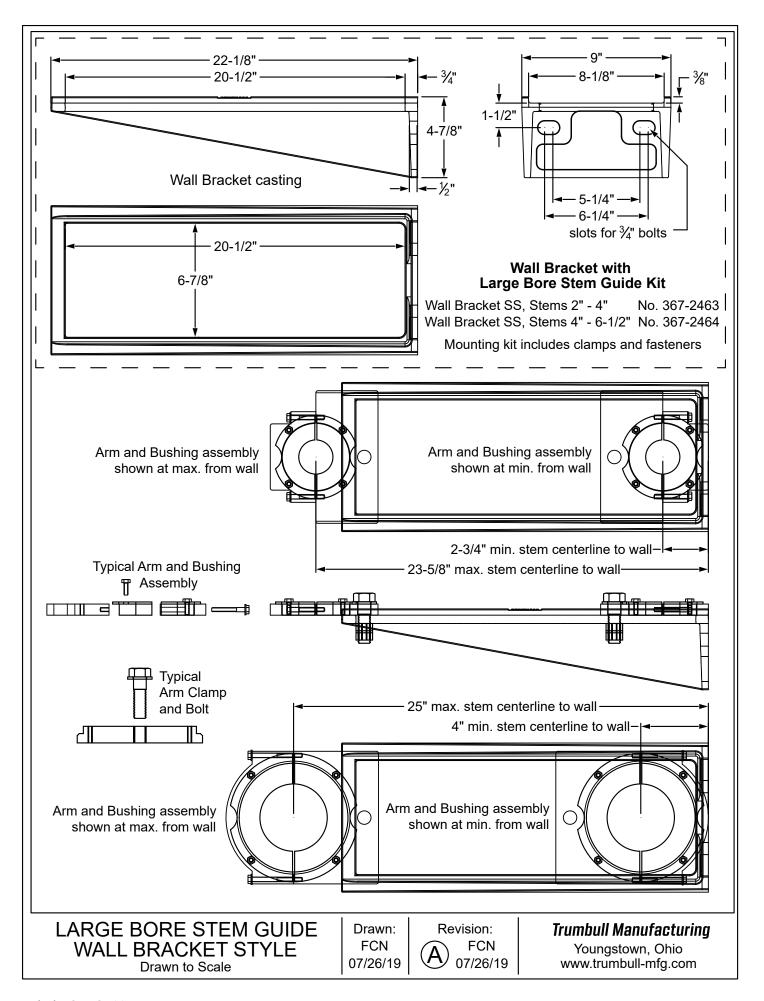
- 1. Quantity required
- 2. Trumbull item number
- 3. O.D. of stem being used. or desired bushing material & hole size

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

2-1/8" for item 367-2463

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

^{*} Adjustment range dependent on stem diameter





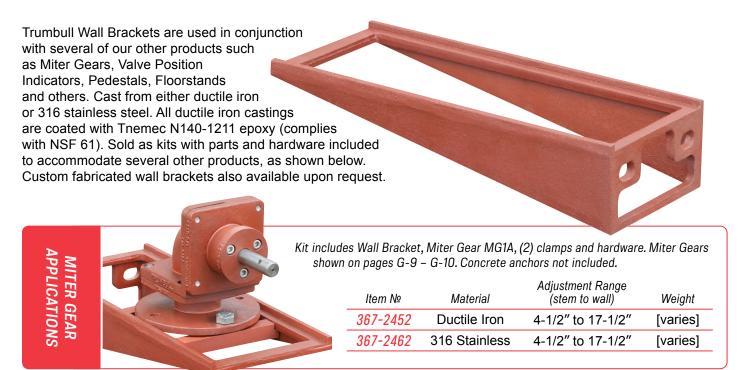
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Wall Brackets

Designed to Accommodate a Variety of Different Applications



VALVE POSITION INDICATOR APPLICATIONS



US PATENT NO. 9,347,583 (See page F-9 for detailed illustration)

Kit includes Wall Bracket, Position Indicator Housing, (2) clamps and hardware.

The Position Indicator is sold separately, shown on pages F-9 – F-10. Concrete anchors not included.

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

FLOORSTAND & PEDESTAL APPLICATIONS Kit includes Wall Bracket, Mounting Plate, (2) clamps and hardware.

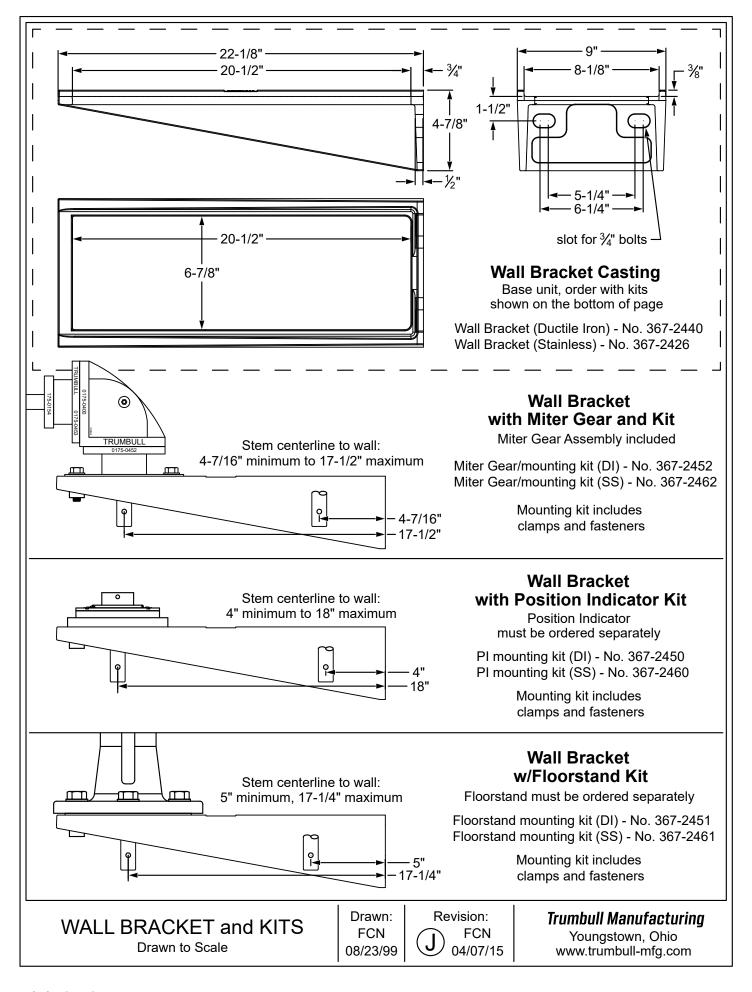
The Floorstands and Pedestals are sold separately, shown on pages G-44 – G-52.

Concrete anchors not included.

Adjustment Range

to 17-1/8" [varies]
to 17-1/8" [varies]

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





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Cast Iron Mud Valves

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

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

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

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

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

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

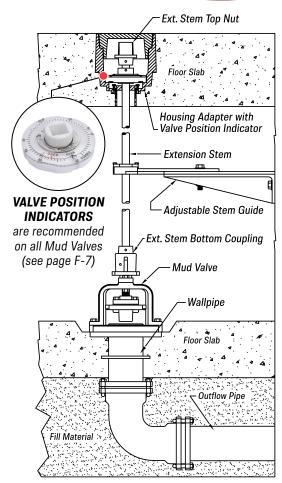


The flange drilling is according to ANSI 125# STD. on all sizes; however, one hole under each leg of the yoke is not available for fastening to the mating flange.

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

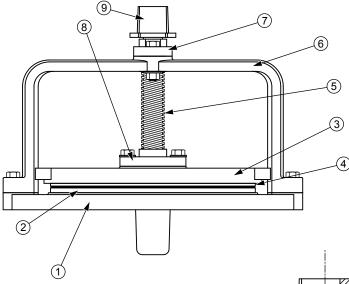
See page G-34 for installation options.





Typical Mud Valve Installation

Valve Size (Bore Dia.)	3	4	6	8	10	12	14	16	18	20	24
A - Overall height	9-7/8	9-1/2	11-1/4	11-3/4	12-13/16	13	15	16-3/4	18-3/4	19-3/4	23-1/2
B - Width at Yoke	10	10	12-3/8	14-1/2	17	19-3/4	22-3/4	24-5/8	28-1/2	30-5/8	37
C - Valve opening	2-1/4	2	3-1/2	4	4-1/16	5	6-3/4	7-3/4	8-1/2	9-3/4	12-1/4
D - Basin depth in floor, min.	1-3/8	1-3/8	1-5/8	1-5/8	1-5/8	1-3/4	1-3/4	1-7/8	2-1/8	2-1/4	2-5/8
E - Flange Thickness	3/4	13/16	1	7/8	7/8	1	1-1/8	1-1/4	1-3/8	1-9/16	1-7/8
Flange O.D.	7-1/2	9	11	13-1/2	16	19	21	23-1/2	25	27-1/2	32
Bolt Circle	6.0	7.5	9.5	11.75	14.25	17.0	18.75	21.25	22.75	25.0	29.5
Bolt Hole Dia.	3/4	3/4	7/8	7/8	1	1	1-1/8	1-1/8	1-1/4	1-1/4	1-3/8
Bolt Dia.	5/8	5/8	3/4	3/4	7/8	7/8	1	1	1-1/8	1-1/8	1-1/4
Bolts in full Pattern* (except 3")	4	8*	8*	8*	12*	12*	12*	16*	16*	20*	20*
Stem Diameter	1	1	1-1/8	1-1/4	1-3/8	1-1/2	1-1/2	1-1/2	1-3/4	1-3/4	1-3/4
Turns to Open	10-1/2	11	17	20	21	25-1/2	34	40	43	49	63
Weight, pounds	26.3	27	47	73	110	130	139	167	243	280	453

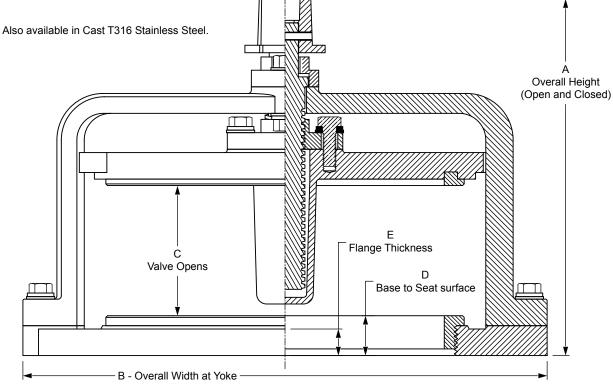


Item	Part	Materials					
1	Base Flange (Body)	Gray Iron, ASTM A126 (B)					
2	Seat, Base Flange	Bronze, ASTM B62; B584					
3	Gate	Ductile Iron, ASTM A536 (65-45-12)					
4	Seat, Gate	Bronze, ASTM B62; B584					
5	Stem	Bronze, ASTM B584					
6	Yoke	Ductile Iron, ASTM A536 (65-45-12)					
7	Guide, unthreaded	Ductile Iron, ASTM A536 (65-45-12)					
8	Guide, threaded	Bronze, ASTM B584					
9	Operating Nut, 2" sq.	Gray Iron, ASTM A126 (B)					
	All Fasteners are Stainless Steel						

Standard 125 pound drilling template.

* Two of the bolts in the bolt pattern are under the yoke feet and not used (except for 3").

All cast iron surfaces, except machined surfaces, to be finished with NSF61 (TNEMEC N140-1211) coating. Flange mounting gasket and fasteners are not included, and must be ordered separately.



CAST IRON MUD VALVES NON-RISING STEM TYPE Drawn to Scale Drawn: FCN 10/16/17

Revision:

B FCN
02/13/20

Trumbull ManufacturingYoungstown, Ohio
www.trumbull-mfg.com

Valve Size (Bore Dia.)	3	4	6	8	10	12	14	16**	18**	20**	24**
A - Overall height, closed	9-3/4	9-3/4	11	11-3/4	12-3/4	13	14-1/2	16-3/4	18-3/4	19-3/4	23-1/2
A - Overall height, open	12	11-7/8	14-3/8	15/3/4	16-3/4	18	21-1/2	24-3/4	27-3/4	29-3/4	35-1/2
B - Width at Yoke	10	10	12-3/8	14-1/2	17	19-3/4	22-3/4	24-5/8	28-1/2	30-5/8	37
C - Valve opening	2-1/4	2-1/8	3-3/8	4	4	5	7	8	9	10	12
D - Basin depth in floor, min.	1-3/8	1-3/8	1-5/8	1-5/8	1-5/8	1-3/4	1-3/4	1-7/8	2-1/8	2-1/4	2-5/8
E - Flange Thickness	3/4	13/16	1	7/8	7/8	1	1-1/8	1-1/4	1-3/8	1-9/16	1-7/8
Flange O.D.	7-1/2	9	11	13-1/2	16	19	21	23-1/2	25	27-1/2	32
Bolt Circle	6.0	7.5	9.5	11.75	14.25	17.0	18.75	21.25	22.75	25.0	29.5
Bolt Hole Dia.	3/4	3/4	7/8	7/8	1	1	1-1/8	1-1/8	1-1/4	1-1/4	1-3/8
Bolt Dia.	5/8	5/8	3/4	3/4	7/8	7/8	1	1	1-1/8	1-1/8	1-1/4
Bolts in full Pattern* (except 3")	4	8*	8*	8*	12*	12*	12*	16*	16*	20*	20*
Stem Diameter	1	1	1-1/8	1-1/4	1-3/8	1-1/2	1-1/2	1-1/2	1-3/4	1-3/4	1-3/4
Turns to Open	10-1/2	11	17	20-1/2	20	25	35	40	45	50	60
Weight, pounds	26.3	30	46	73	110	130	140	165	240	280	450

Standard 125 pound drilling template.

* Two of the bolts in the bolt pattern are under the yoke feet and not used.

All cast iron surfaces, except machined surfaces, to be finished with NSF61 (TNEMEC N140-1211) coating.

Flange mounting gasket and fasteners are not included, and must be ordered separately.

** Consult Trumbull on the availability of 16" and larger sizes in the Rising Stem configuration.

Item Part Materials Gray Iron, ASTM A126 (B) 1 Base Flange (Body) 2 Bronze, ASTM B62; B584 Seat, Base Flange 3 Gate Ductile Iron, ASTM A536 (65-45-12) Seat, Gate Bronze, ASTM B62; B584 4 5 Stem Bronze, ASTM B584 Ductile Iron, ASTM A536 (65-45-12) 6 Yoke Guide, unthreaded Ductile Iron, ASTM A536 (65-45-12) Guide, threaded Bronze, ASTM B584 Operating Nut, 2" sq. Gray Iron, ASTM A126 (B)

Also available in Cast T316 Stainless Steel

Overall Height Open

Flange Thickness

Valve Opens

B - Overall Width at Yoke

CAST IRON MUD VALVES RISING STEM TYPE Drawn to Scale

Drawn: FCN 10/16/17 Revision:

B FCN
02/13/20

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



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Phone: 330.270.7888 | 877.504.1507 |

Toll Free:

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Why Choose Type 316 Stainless Steel Mud Valves?

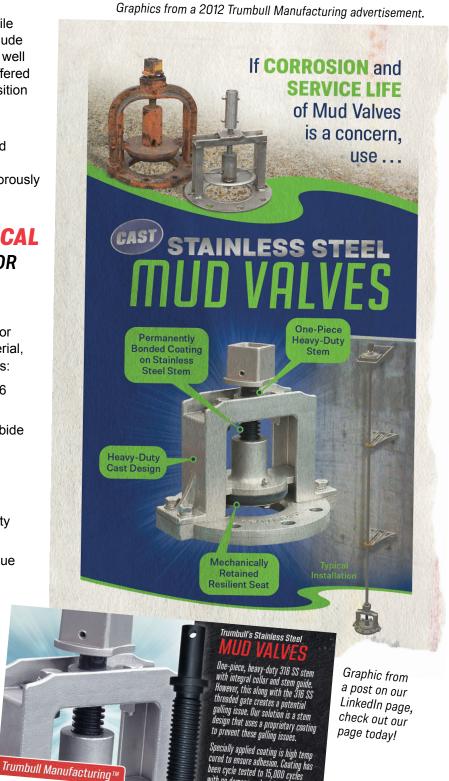
Trumbull Mud Valves are manufactured in ductile iron and cast stainless steel. Stem designs include Non-Rising Stem (NRS), Rising Stem (RS), as well as sliding stem. A full line of accessories are offered to operate our Mud Valves, including Valve Position Indicators, Extension Stems, Stem Guides, Floorstands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



with no damage and minimal wear



3850 Hendricks Road, Youngstown, Ohio 44515

Phone: 330.270.7888

Toll Free: 877.504.1507 Fax: 330.392.0756

-www.trumbull-mfg.com

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.

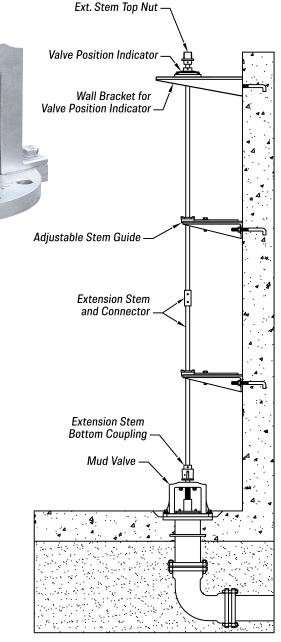
For applications requiring more corrosion protection than cast iron, the yoke, flange, guides and gate of these Mud Valves are cast from Type 316 stainless steel. The one-piece, Type 316 stem has a permanently bonded coating to protect against galling for a lifetime of maintenance-free operation.

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.

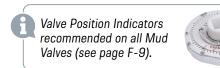
Nuts, bolts and gaskets for mounting to floor pipe are NOT furnished but can be ordered separately.

	Non-Risi	ng Stem**	Rising Stem**				
	Non- Domestic Domestic		Domestic	Non- Domestic			
Size	Item №	Item №	Item №	Item №			
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.

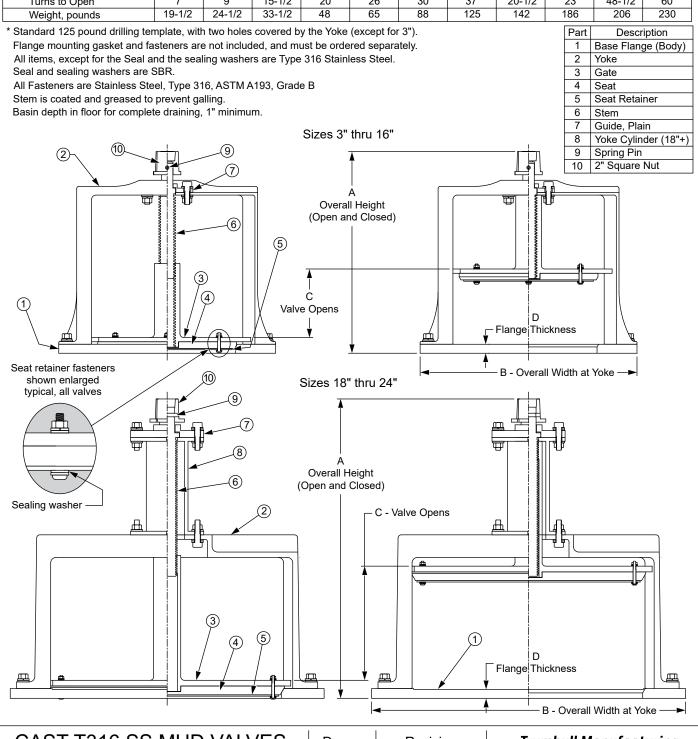


Typical Mud Valve Installation See page G-34 for installation options.



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

Valve Size (Bore Dia.)	3	4	6	8	10	12	14	16	18	20	24
A - Overall height	9	8	10-1/2	12-1/2	14-1/2	17	23	21-1/4	23	25-3/4	34-5/8
B - Width at Yoke	8	10-1/4	12-5/8	15-1/8	17-3/8	19	25-3/4	25-3/4	27-3/4	27-1/2	32
C - Valve opening	1-1/2	1-3/4	2-3/4	3-1/2	4-3/4	6	7-3/8	7-1/2	8-1/4	9-1/4	12
D - Flange thickness	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Flange O.D.	7-1/2	9	11	13-1/2	16	19	21.0	23-1/2	25	27-1/2	32
Bolt Circle Diameter	6.00	7.50	9.50	11.75	14.25	17.00	18.75	21.25	22.75	25.00	29.5
Bolt Hole Dia.	3/4	3/4	7/8	7/8	1	1	1-1/8	1-1/8	1-1/4	1-1/4	1-3/8
Bolt / Stud Size	5/8	5/8	3/4	3/4	7/8	7/8	1	1	1-1/8	1-1/8	1-1/4
Bolts in full Pattern*	4	8	8	8	12	12	12	16	16	20	20
Stem Diameter	1-1/4	1-1/4	1-1/4	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-3/4	1-3/4	1-3/4
Turns to Open	7	9	15-1/2	20	26	30	37	20-1/2	23	48-1/2	60
Weight, pounds	19-1/2	24-1/2	33-1/2	48	65	88	125	142	186	206	230
* Standard 125 pound drilling template, with two holes covered by the Yoke (except for 3").						Part	Descr	iption			
Flange mounting gasket and fasteners are not included, and must be ordered separately. 1 Base Flange (Box											



CAST T316 SS MUD VALVES NON-RISING STEM TYPE Drawn to Scale

Drawn: FCN 07/24/07 Revision: FCN 02/07/20

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Valve Size (Bore Dia.)	3	4	6	8	10	12	14	16	18	20	24
A - Overall height, closed	9	8-3/4	10-1/2	12-1/2	14	17	23	23	18	18	23
A - Overall height, open	10-1/2	11-1/2	16	19-1/4	22-3/4	28-1/2	39	39	27	28	35
B - Width at Yoke	8	10-1/4	12-5/8	15-1/8	17-3/8	19	25-3/4	25-3/4	27-3/4	27-1/2	32
C - Valve opening	1-1/2	2-1/4	5	7	8-1/4	11-1/2	16	16	9	10	12
D - Flange thickness	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Flange O.D.	7-1/2	9	11	13-1/2	16	19	21.0	23-1/2	25	27-1/2	32
Bolt Circle Diameter	6.00	7.50	9.50	11.75	14.25	17.00	18.75	21.25	22.75	25.00	29.5
Bolt Hole Dia.	3/4	3/4	7/8	7/8	1	1	1-1/8	1-1/8	1-1/4	1-1/4	1-3/8
Bolt / Stud Size	5/8	5/8	3/4	3/4	7/8	7/8	1	1	1-1/8	1-1/8	1-1/4
Bolts in full Pattern*	4	8	8	8	12	12	12	16	16	20	20
Stem Diameter	1-1/4	1-1/4	1-1/4	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-3/4	1-3/4	1-3/4
Turns to Open	7	13-1/2	26-1/2	30-1/2	36-1/2	50-1/2	80	80	45	50	60
Weight, pounds	19-1/2	25	34	48	59	78	142	142	155	164	218

Part Description Standard 125 pound drilling template, with two holes covered by the Yoke. Base Flange (Body) Flange mounting gasket and fasteners are not included, and must be ordered separately. 2 Yoke All items, except for the Seal and the sealing washers are Type 316 Stainless Steel. 3 Seal and sealing washers are SBR. Gate All Fasteners are Stainless Steel, Type 316, ASTM A193, Grade B 4 Seat Stem is coated and greased to prevent galling. 5 Seat Retainer Basin depth in floor for complete draining, 1" minimum. Stem Consult Trumbull on the availability of 16" and larger sizes Guide, Unthreaded in the Rising Stem configuration. 8 Guide, Threaded 2" Square Nut Coil Type Spring Pin Seat retainer fasteners shown enlarged typical, all valves **OPEN CLOSED** Sealing washer Overall Height Closed **(4**) Valve Opens - D - Flange Thickness B - Overall Width at Yoke

CAST T316SS MUD VALVES RISING STEM TYPE

Drawn to Scale

Drawn: FCN 10/16/17 Revision:

NJC
03/19/20

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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")

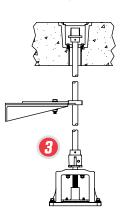
Pedestal: Ductile iron or cast 316 SS
Extension Stem: Carbon steel or stainless steel
Wall Bracket: Ductile iron or cast 316 stainless steel
Floor Box: Sealed or unsealed, cast iron or cast SS



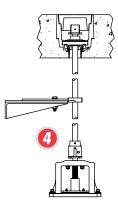
Stem Guide with Handwheel or 2" square nut



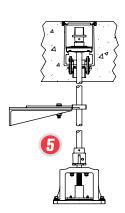
Wall Bracket with Position Indicator



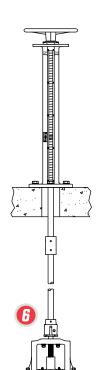
Floor Box w/out Position Indicator



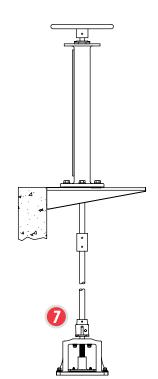
Floor Box with Position Indicator



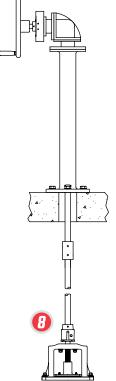
Cast Sealed Floor Box with Position Indicator



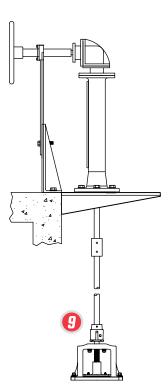
Indicating Floorstand



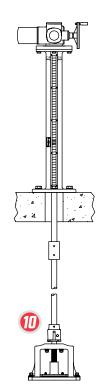
Indicating Floorstand with Wall Bracket*



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



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



Indicating Floorstand with Actuator

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



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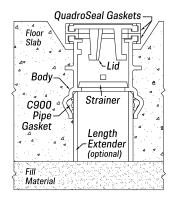
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Floor-Type Hydrostatic Tank Pressure Relief Valves QuadroSealTM Gasket Design - Available in Ductile Iron and Type 316 Stainless Steel

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*

	Ductil	e Iron**	316 Stainless Steel		
	Domestic	Non- Domestic	Domestic	Non- Domestic	
Size	Item №	Item №	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.



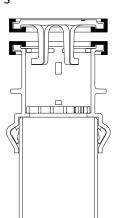
Floor-Type valves are cast in 4" and 6" sizes, in overall lengths of approx. 7-3/4". The lengths can be extended by inserting C900 PVC pipe into the underside of the valve. The PVC extensions can be furnished and inserted by Trumbull, to customer's exact length requirements, or in the field with customer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



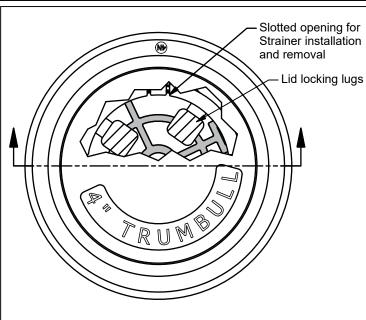


Unique square design of QuadroSealTM Gasket surrounds casting on four sides to prevent separation.

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



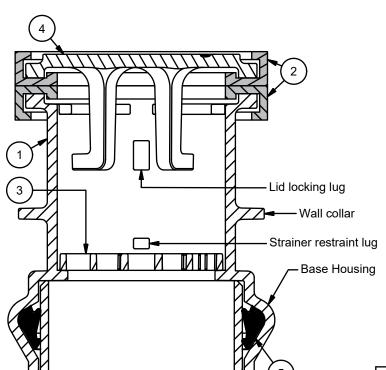
Wall-Type Pressure Relief Valves are shown on pages G-37 and G-38.

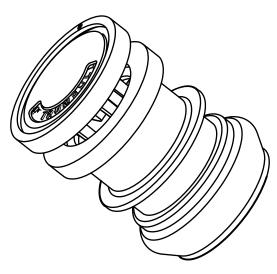


	•	
ITEM	DESCRIPTION	MATERIAL
1	Valve Body	Stainless Steel (T316) or Ductile Iron (65-45-12)
2	QuadroSeal Seat	Neoprene (40 durometer)
3	Strainer	Stainless Steel (T316) or Ductile Iron (65-45-12)
4	Lid	Stainless Steel (T316) or Ductile Iron (65-45-12)
5	Rieber Gasket	SBR
6	Length Extender	C900 PVC Pipe

Note:

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





Size	Material	Part Number	Weight
4"	DI	367-1556	13.2 lb
4"	SS	367-1540	14.5 lb
6"	DI	367-1578	23.1 lb
6"	SS	367-1544	22.3 lb

Valve size	4	6
Overall height - closed	7-5/8"	7-59/64"
Lid lift distance	1"	1"
Seat O.D.	6"	8"
Base Housing O.D.	6-11/32"	8-5/8"
Fits C900 pipe size	4"	6"
Wall collar O.D.	5-27/32"	8-1/8"
Body seat face to Collar CL	3"	2-7/8"
Strainer flow area	7.3 sq. in	18.9 sq. in

TANK PRESSURE RELIEF VALVE FLOOR TYPE Drawn to Scale Drawn: BJE 01/07/13

Original document

Trumbull ManufacturingYoungstown, Ohio
www.trumbull-mfg.com



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Toll Free: 330.270.7888 | 877.504.1507 | 330.392.0756

-www.trumbull-mfg.com

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*

	Ductil	e Iron**	316 Stainless Steel		
	Domestic	Non- Domestic	Domestic	Non- Domestic	
Size	Item №	Item №	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	Item №	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.



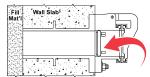


Unique square design of QuadroSealTM Gasket surrounds casting on 4 sides to prevent separation.

QuadroSealTM 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#

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"

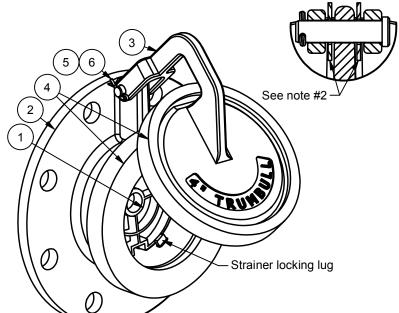
Clevis Pin Detail

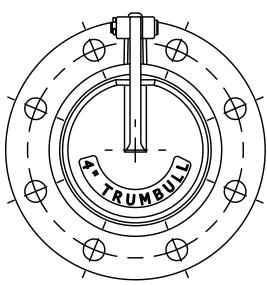
Item	Description	Material
1	Strainer	Stainless Steel (T316) or Ductile Iron (65-45-12)
2	Body	Stainless Steel (T316) or Ductile Iron (65-45-12)
3	Lid Flap	Stainless Steel (T316) or Ductile Iron (65-45-12)
4	QuadroSeal Seat	Neoprene (40 durometer)
5	Clevis Pin	Stainless Steel
6	Cotter Pin	Stainless Steel

Size	Material	Part Number	Weight
4"	DI	(1)367-1572	14.25 lb
4"	SS	(1)367-1560	14.65 lb
6"	DI	(1)367-1573	21.45 lb
6"	SS	(1)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 between the lid and body, preventing metal to metal contact.

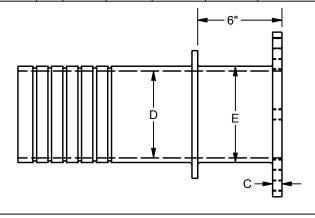


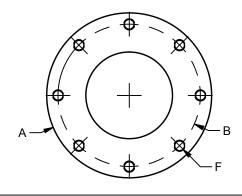


Size	Trumbull #	Α	В	С	D	E	F	Weight
4"	367-1000	9"	7-1/2"	5/8"	4-3/16"	4.8"	5/8"-11 UNC	32 lbs
6"	367-1002	11"	9-1/2"	5/8"	6-5/16"	6-29/32"	3/4"-10 UNC	49 lbs

Wall Pipe

Flange drilling per ANSI 125# Material: Ductile Iron (65-45-12) Coating: Tnemec N140-1211 epoxy





TANK PRESSURE RELIEF VALVE WALL TYPE

Drawn to Scale

Drawn: BJE 01/07/13 Revision:

BJE
06/04/25

Trumbull Manufacturing

Youngstown, Ohio www.trumbull-mfg.com



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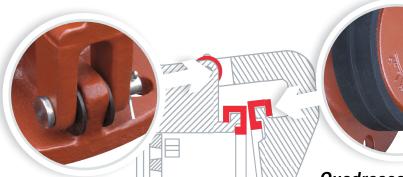
Phone: Toll Free: 330.270.7888 877.504.1507 3

Fax: 330.392.0756

-www.trumbull-mfg.com



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.





RESULT:

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!

It's because of our

QUADROSEAL



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Phone: 330.270.7888 | 877.504.1507 |

Toll Free:

330.392.0756

-www.trumbull-mfg.com

THE STRAINER

In Trumbull Pressure Relief Valves

This is a strainer, the type used in wall-type and floor-type tank pressure relief valves. You may not think about it very much. but it's actually an important part.

Its job is to keep rock or gravel from the tank exterior from interfering with the seating surface. You need to remove and clean it 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 one of these strainers in a wall-type valve, put it in the valve... not in the wall pipe. If you put it in the pipe, sometimes workers can't get their arms through the valve and into the wall pipe. They have to occasionally remove the valve to be able to reach the strainer!



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

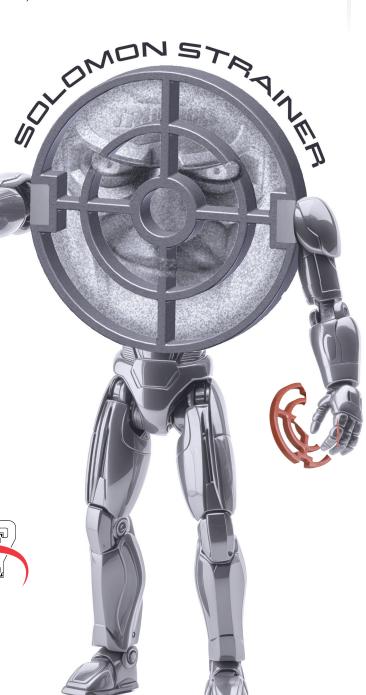
The accumulation of debris on seating surfaces can lead to leakage from the tank. To prevent that condition . . . specify a valve with an internal strainer!



Strainer in Trumbull valve is easily accessed for maintenance



Strainer installation of other designs





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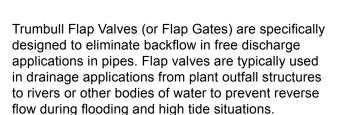
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Fax: 330.392.0756

-www.trumbull-mfg.com

Flap Valves

Used to Facilitate Outflow Through a Pipe

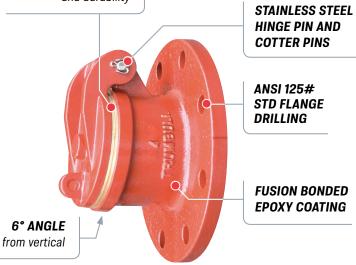


The fusion bonded epoxy coated body and lid help control corrosion of the cast iron components. The lid hinge components are made of stainless steel keeping free of corrosion for smooth operation over the life of the flap valve.

The valve body outlet is designed with a 6 degree angle from vertical keeping the lid closed during zero outflow conditions. The valve uses a machined bronze-to-bronze seating to seal in severe applications for added strength and durability against debris.

MACHINED BRONZE-TO-BRONZE SEATS

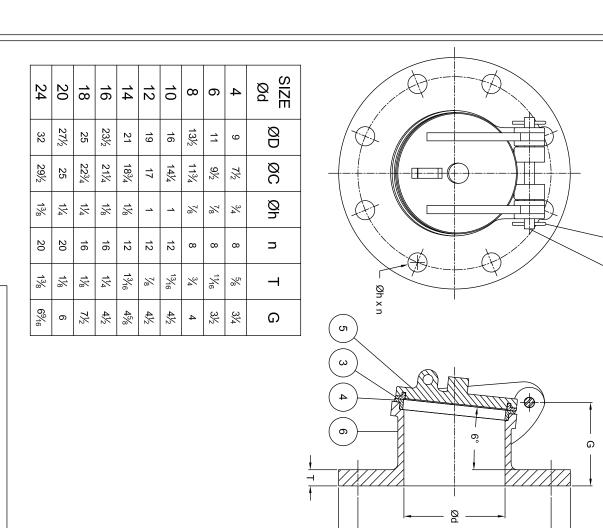
for added strength and durability





Flap Valves

Size	Item №	Weight
4"	700-610-00010	14.10 lbs.
6"	700-610-00020	24.90 lbs.
8″	700-610-00030	37.50 lbs.
10"	700-610-00040	55.10 lbs.
12"	700-610-00050	92.60 lbs.
14"	700-610-00060	154.30 lbs.
16"	700-610-00070	232.60 lbs.
18"	700-610-00080*	*Consult
20"	700-610-00085*	Trumbull for
24"	700-610-00090*	availability.



PARTS	MATERIAL	QTY
Cotter Pin	Stainless Steel ASTM A276 Type 304	2
Hinge Pin	Stainless Steel ASTM A276 Type 304	1
Lid Seat Ring	Bronze ASTM B62 C83600	1
Body Seat Ring	Bronze ASTM B62 C83600	1
Lid	Gray Iron ASTM A126 Class B	1
Body	Gray Iron ASTM A126 Class B	_

000

NO.

1.) Flange drilled to ANSI B 16.1 Class 125

Notes

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2.) Dimensions in inches

3.) Iron components are coated with Fusion Bonded Epoxy, Red

4"-24" Flap Valves

Drawn to Scale

Drawn: BJE

05/31/24

Revision

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



3850 Hendricks Road, Youngstown, Ohio 44515

Phone: 330.270.7888

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Fax: 330.392.0756

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Telescoping Valves

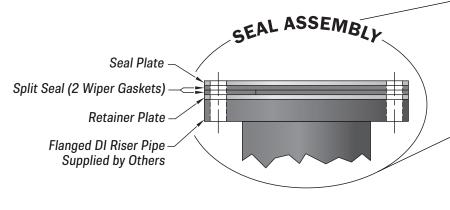
Trumbull Telescoping Valves are designed to regulate the level of fluids in containment structures such as holding chambers, tanks, ponds & lagoons. An example of an application might be to regulate the effluent level in a settling basin. Also known as "Sludge Draw-off Valves" or "Decanting Valves",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

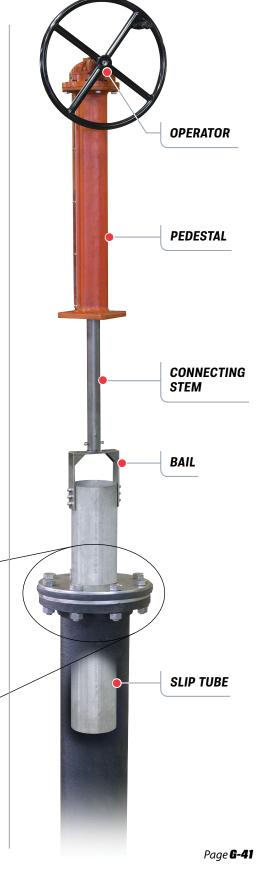
Trumbull's seal assembly consists of a stainless steel retainer plate, a seal plate and two (2) Buna-N wiper gaskets. The assembly is designed so that the wiper gaskets can easily be replaced in the field without disassembling the Telescoping Valve. Additional seal elastomers available upon request.

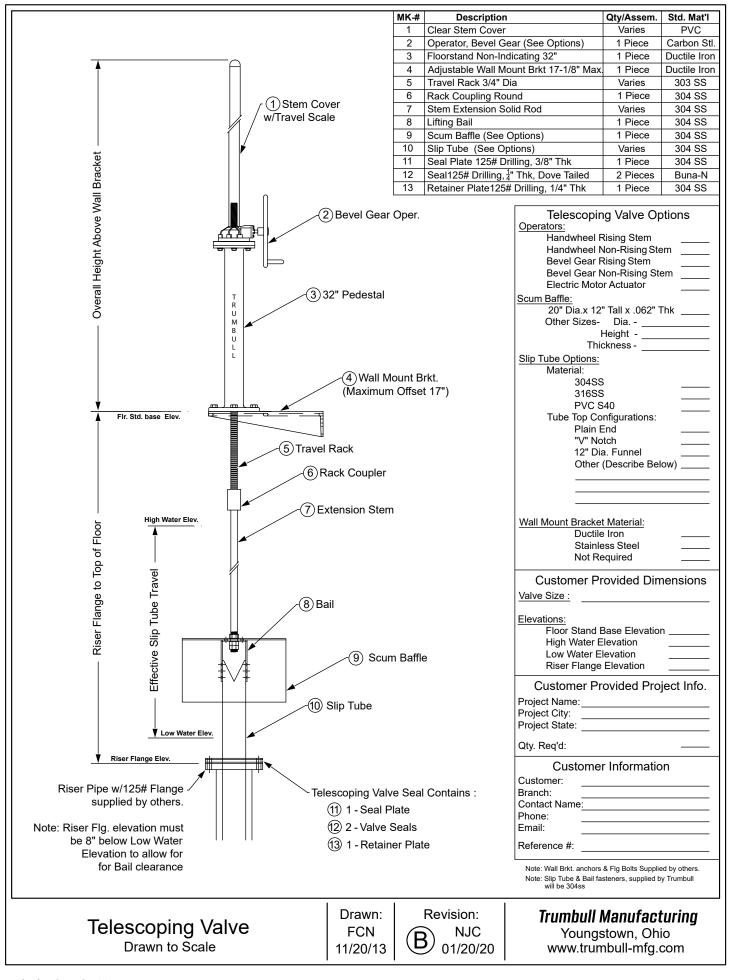
Operator pedestals are available in 26" & 32" cast ductile iron Indicating Style, 32" cast ductile iron Non-Indicating Style and 32" cast stainless steel Indicating Style. Other custom-fabricated styles and materials are available upon request. Offset wall brackets are available in either cast ductile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



The above information requirements are available in drawing form on the following pages.





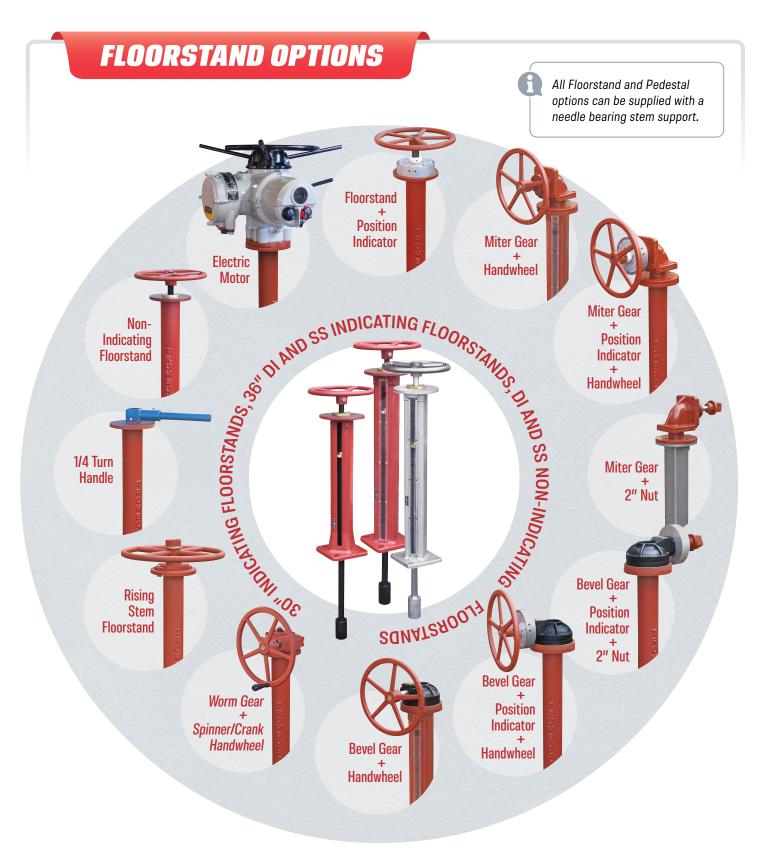


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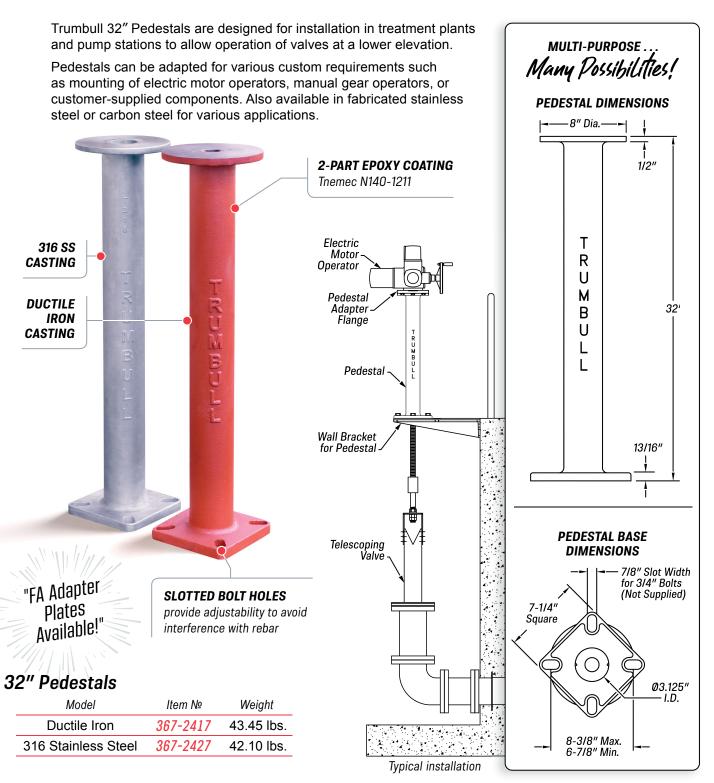
Toll Free:

Fax: 330.392.0756

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32" Pedestals

Ductile Iron and 316 Stainless Steel





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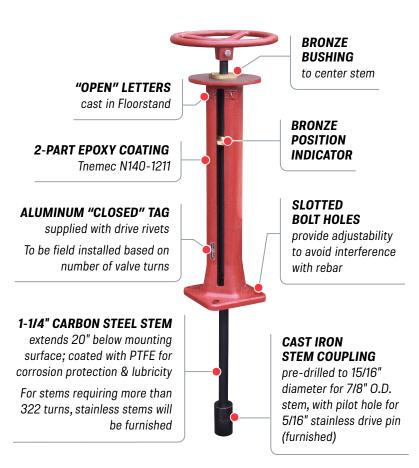
Phone: Toll Free: 330.270.7888 877.504.1507

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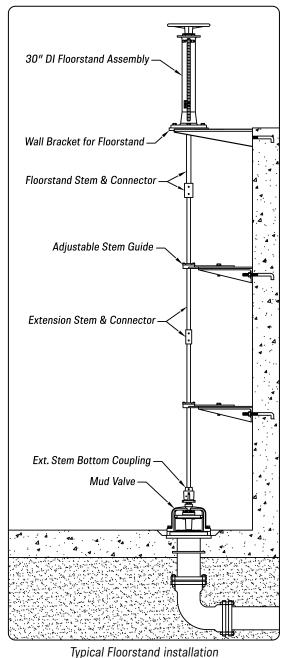
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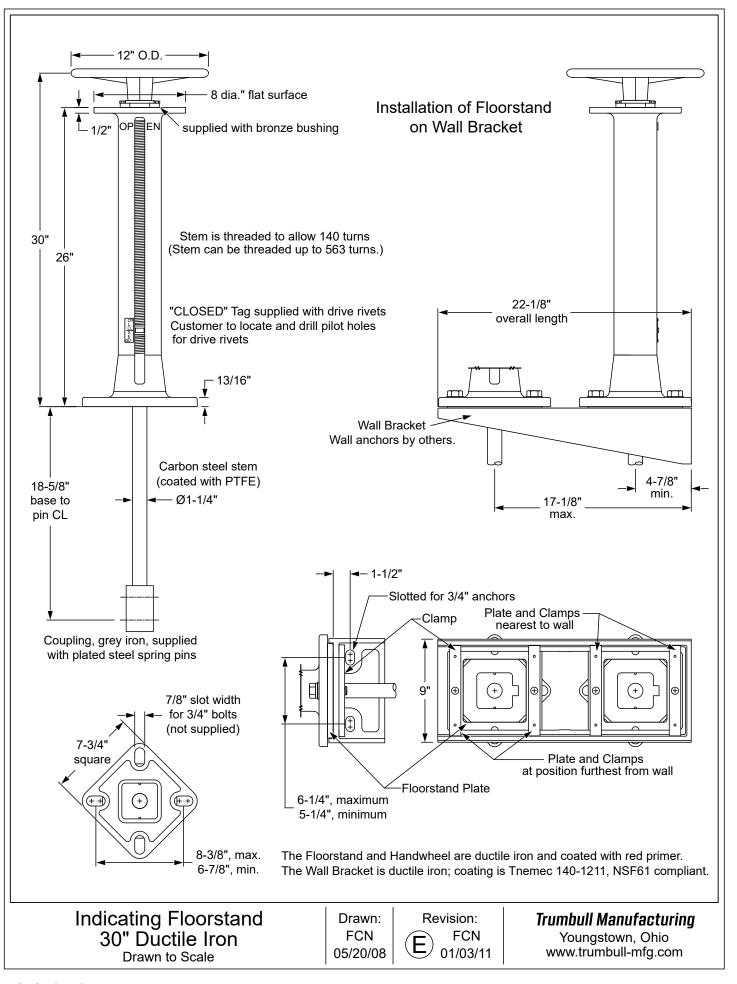
30" Ductile Iron Indicating Floorstand

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.



- 7. Quantity required
- 2. Floorstand item number: 367-2420
- 3. O.D. of extension stem being used, for drilling of connecting couplings
- 4. Wall Bracket, if required
 - a. Ductile iron item number: 367-2451
 - b. Stainless steel item number: 367-2461







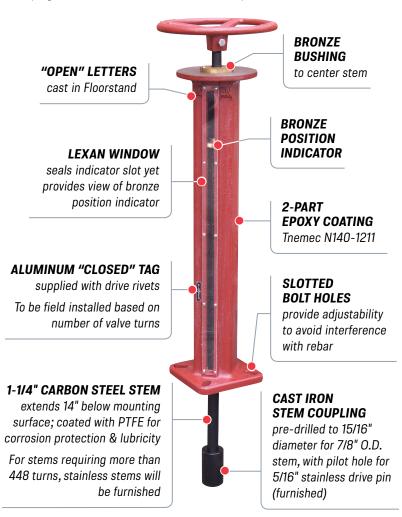
3850 Hendricks Road, Youngstown, Ohio 44515

Phone: Toll Free: 330.270.7888 | 877.504.1507 | 330.392.0756

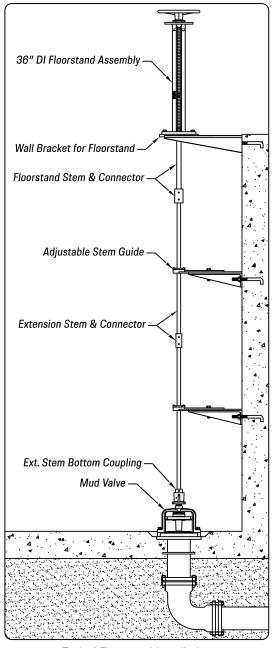
-www.trumbull-mfg.com

36" Ductile Iron Indicating Floorstand Includes a Sealed Indicator Slot

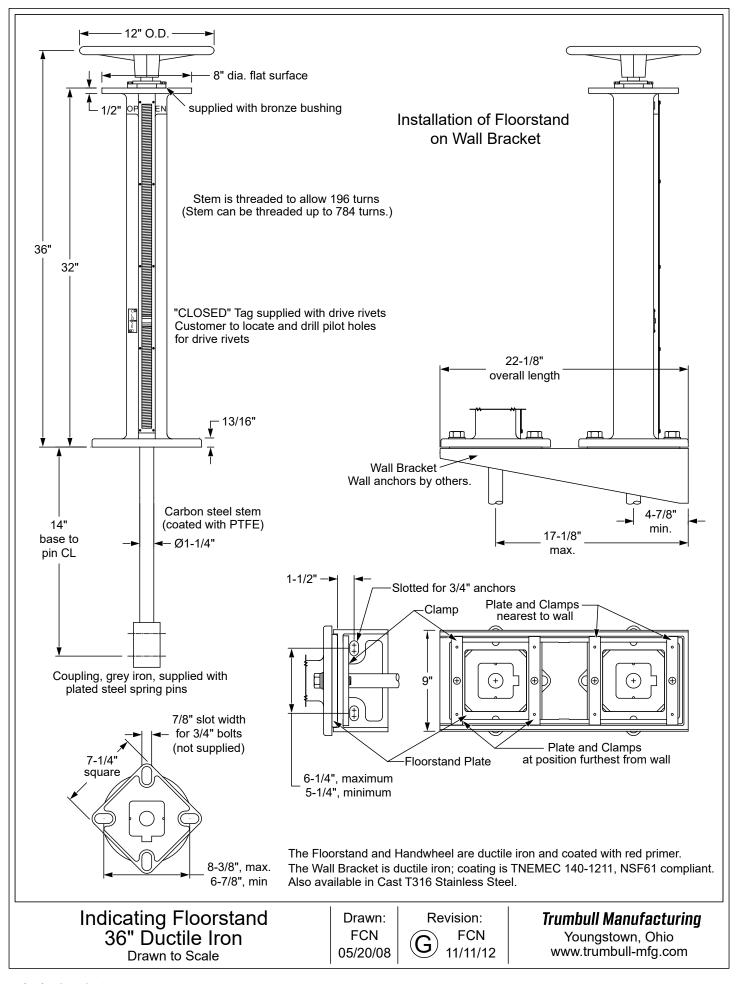
Trumbull 36" Ductile Iron Indicating Floorstands are designed for installation in treatment plants and pump stations to allow operation of valves at a lower elevation. Set screw secures handwheel to stem. Flange can be machined to facilitate mounting of actuator, if required (also available with gear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



- 7. Quantity required
- 2. Floorstand item number: 367-2421
- 3. O.D. of extension stem being used. for drilling of connecting couplings
- 4. Wall Bracket, if required
 - a. Ductile iron item number: 367-2451
 - b. Stainless steel item number: 367-2461



Typical Floorstand installation





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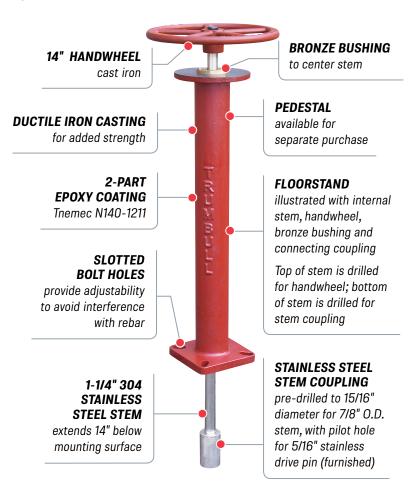
Phone: 330.270.7888

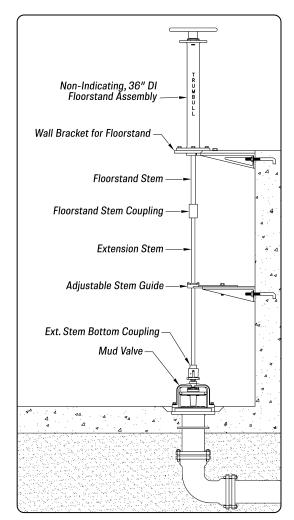
Toll Free: 877.504.1507 Fax: 330.392.0756

-www.trumbull-mfg.com-

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.





Typical Floorstand installation

Ordering Instructions

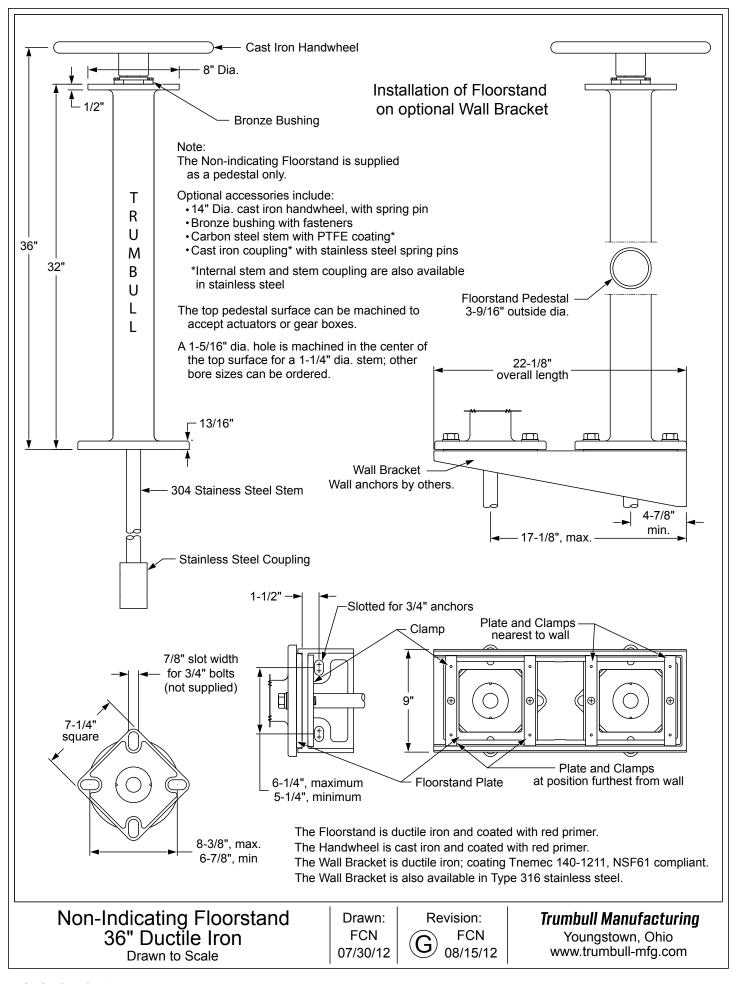
- 1. Quantity required
- 2. Floorstand item number: 367-2414 (pedestal, stem, handwheel & coupling)
- 3. If internal stem is required, state O.D. of extension stem being used, for drilling of connecting couplings
- 4. Wall Bracket, if required
 - a. Ductile iron item number: 367-2451
 - b. Stainless steel item number: 367-2461



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.





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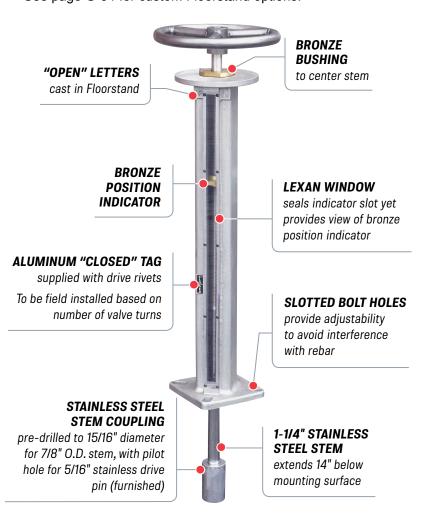
Phone: Toll Free: 330.270.7888 | 877.504.1507

330.392.0756

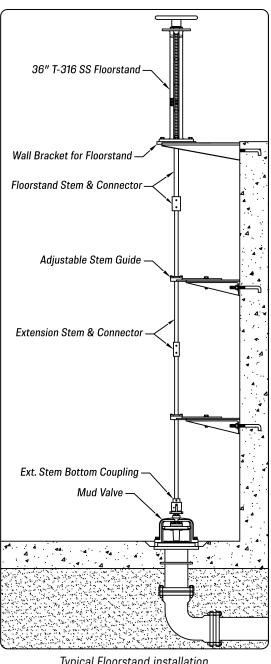
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36" Stainless Steel Indicating Floorstand

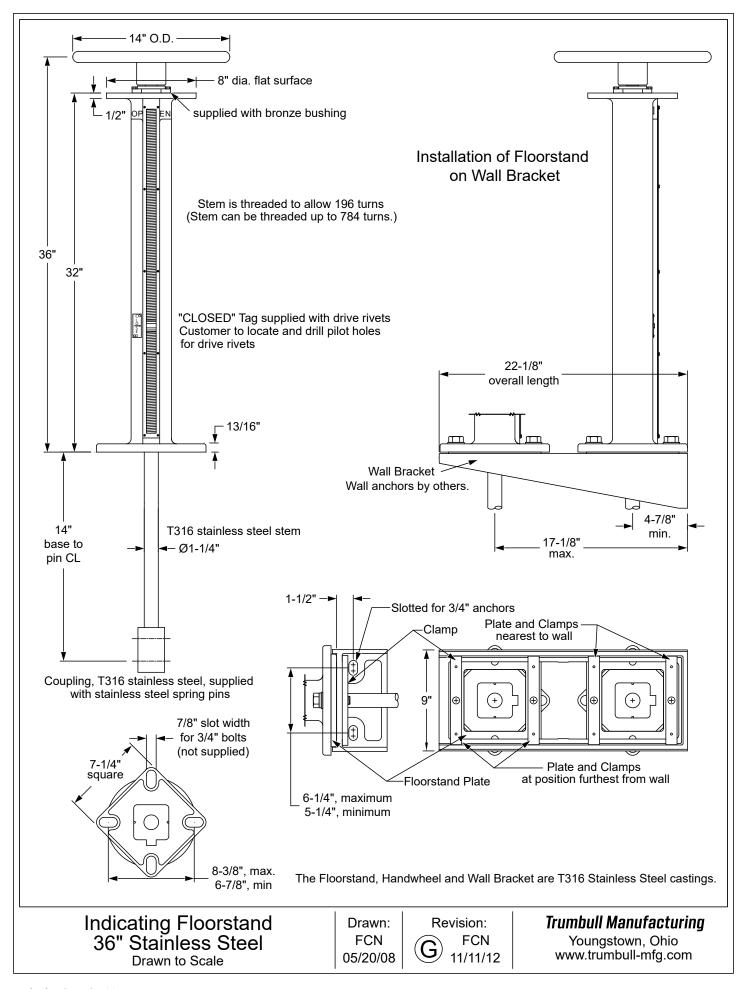
Trumbull 36" Stainless Steel Indicating Floorstands are designed for installation in treatment plants and pump stations to allow operation of valves at a lower elevation. Stainless steel drive pin secures handwheel to stem. Flange can be machined to facilitate mounting of actuator, if required (also 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.



- 1. Quantity required
- 2. Floorstand item number: 367-2431
- 3. O.D. of extension stem being used, for drilling of connecting couplings
- 4. Stainless steel Wall Bracket, if required: item number: 367-2461



Typical Floorstand installation





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Hand Lever

For Use with Quarter-Turn, Above Ground Valves





join handle to head

1" STEEL PIPE HANDLE

12" long; longer lengths made to order

HEAVY DUTY DUCTILE IRON HEAD CASTING

stronger, yet lighter than grey iron wrench

CAP SCREW AND JAM NUT

secure wrench to valve operating nut

Hand Lever

Item №	Overall Length	Length of 1" Pipe	Weight
367-9986	14-3/4"	12"	5.00 lbs.



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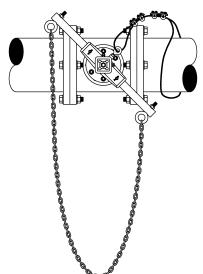
Toll Free:

330.392.0756

-www.trumbull-mfg.com

Chain Lever

Used for Manual Operation of Quarter-Turn Valves Installed Overhead



PLATED EYEBOLTS.

CONNECTOR LINKS furnished standard

HARDWARE AND

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.



grey iron

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)



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.

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

Chain Lever Accessories

For machine chain, order specific length required.

Description	Item №	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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Toll Free:

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Ductile Iron Chainwheels

Used to Operate Overhead Valves from the Floor

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.



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 Sta	inless
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.		

| Galvanized | Stainless |

			Boxed	Handwheel OD Range	Chain	Chain	Chain	Length (2X drop)
Item №	Size No.	Diameter	Weight	Chainwheel will Fit	Size	Item №	Item №	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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Toll Free:

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Aluminum Chainwheels

Used to Operate Overhead Valves from the Floor

SPROCKET-TYPE using single loop cut chain

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

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

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

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



			Boxed	Handwheel OD Range	Chain	Chain	Chain	Length (2X drop)
Item №	Size No.	Diameter	Weight	Chainwheel will Fit	Size	Item №	Item №	plus
367-2020	TRA-0.0	4"	1.05 lbs.	2" to 4"	#2	172-1650		1 ft.
367-2021	TRA-1.0	6″	2.65 lbs.	4-1/4" to 5-3/4"	1/0	367-1894	367-1897	1 ft.
367-2022	TRA-1.5	7-1/2"	4.15 lbs.	6" to 7-1/2"	1/0			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 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.			

Galvanized Stainless

Chain



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Toll Free:

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316 Stainless Steel Chainwheels

Used to Operate Overhead Valves from the Floor

POCKET-TYPE using welded link machine chain



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.



Item №	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.



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



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Carbon Steel Chainwheels

Used to Operate Overhead Valves from the Floor

POCKET-TYPE using welded link machine chain

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

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

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



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



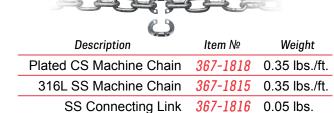
Finished	with	e-coating
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Item №	Size No.	Diameter	Boxed Weight	Handwheel Range Chainwheel will Fit**	Bore*** Diameter	Chain Length (2X drop)
367-1829	TRCS-6PD*	5-7/8"	8.50 lbs.	2-1/8" I.D. to 6-1/4" O.D.	0.850	Plus 1 ft.
367-1832	TRCS-8PB	8"	14.35 lbs.	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.





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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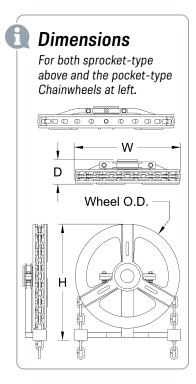
Sprocket-Type Chainwheel Dimensions

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
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 HANDWHEEL O.D. RANGE	2" to 4"	4-1/4" to 5-3/4"	6" to 7-1/2"	7-3/4" to 9"	9-1/4" to 12-1/2"	12-3/4" to 15-1/2"	15-3/4" to 19"	19-1/4" to 22"	22-1/2" to 26"	22-1/2" to 36"
CHAIN SIZE	Size #2		Size 1/0		Size 4/0 Size 5/			Size 5/0		
ATTACHMENT SET SIZE	Disk #0 367-2005	Disk #1 367-2006	" <i>F</i> 367-	-	"B" 367-1811	"C" 367-1812				"D" 367-1813
"D" (OVERALL DEPTH)	1-7/8"	2-3/8"	2-1/2"	2-1/2"	2-9/16"	2-9/16"	2-9/16"	2-5/8"	2-5/8"	3-5/16"
"H" (OVERALL HEIGHT)	5″	6-7/8"	8-3/4"	10-3/4"	12-5/8"	16"	19"	23"	27"	30"
"W" (OVERALL WIDTH)	4-1/4"	5-7/16"	8-1/4"	9-1/2"	11-5/16"	15-7/16"	18-7/16"	22-5/8"	26-1/2"	29-7/8"
STAR ADAPTER SIZE	Sm	nall Medium			Large & X-Large see NOTE below					
MIN/MAX BORE DIA.	3/8" to	o 7/8″	1	1/2" to 1-3/8	"	1/2" to 1-3/8" (Large); 1/2" to 2-1/8" (X-Large)			arge)	

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

Pocket-Type Chainwheel Dimensions

CARBON STEEL		TRCS-6	TRCS-8	TRCS-12	TRCS-15	TRCS-22	TRCS-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	"B" Attachment Set (367-1808) provided as standard. Ranges can be expanded by optional sets "A" & "C" (see page G-55).						
"D" (OVERALL DEPTH)	2-3/8"	2-5/8"	2-3/4"	2-3/4"	2-3/4"	2-3/4"	2-7/8"		
"H" (OVERALL HEIGHT)	6-1/4"	7-1/16"	9″	13-1/8"	16-1/4"	22-1/4"	29-1/4"		
"W" (OVERALL WIDTH)	4-5/8"	6-3/16"	8-7/16"	12″	15-5/8"	22-5/8"	29-1/2"		
STAR ADAPTER SIZE	Small		Large						
MIN/MAX BORE DIA.	3/8" to 7/8"		3/4" to 1-3/8"						





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Chainwheel Connecting Links and Chain

Sprocket-Type Chainwheels

Ductile Iron & Aluminum Models

SINGLE LOOP CHAIN

engages with the teeth in the wheel.

Pocket-Type Chainwheels

Carbon Steel & Stainless Steel Models

WELDED LINK MACHINE CHAIN fits in pockets in the wheel.

Smooth chain links provide more comfortable operation.



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

Closing the loop is simple with "Connecting Links".

TR Series Connecting Links

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

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

Single-Loop Chain

	Galvanized	Stainless
Chain Size	Item №	Item No.
#2	<i>172-1650</i>	
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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CLAMPING HARDWARE

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.

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



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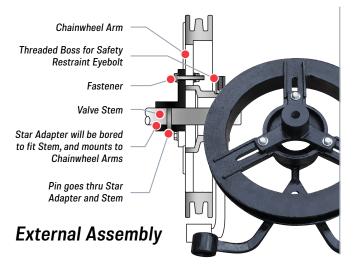
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"STAR ADAPTERS"

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

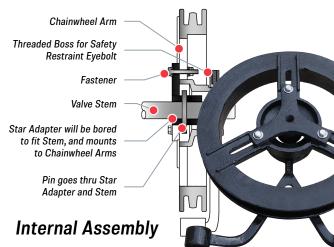
These adapters require pinning to the stem. Pilot holes are pre-drilled in the adapter for ease of installation on-site; the drilling of the stem is by customer. Star Adapters will be furnished with fasteners necessary to attach to Chainwheel, in lieu of clamping hardware normally furnished with Chainwheel.



Direct Mounting of Chainwheels

for both Sprocket-Type and Pocket-Type Chainwheels





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	M	M	M	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"				

Stainless Steel "Star Adapters"

> **FOR POCKET-TYPE CHAINWHEELS**

CHAINWHEEL	Size 4	Size 6	Size 8	<u>Size</u> 12	<u>Size</u> 15	<u>Size</u> 22	<u>Size</u> 29
SS STAR ADAPTER	S	S	L	L	L	L	L
TRUMBULL ITEM NO.	167-3060 3/8"		167-3062				
BORE SIZE, STANDARD			3/4"				
HUB O.D.	1-1/16"		1-9/16"				
OPTIONAL BORE, MAX.	7/8"		1-3/8"				
HUB HEIGHT	1/2	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.

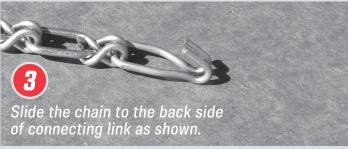
Available in three sizes; 1/0, 4/0 and 5/0.

INSTALLATION IS EASY, JUST FOLLOW THESE FIVE STEPS.

Chain	Galva	nized	316 Stainid	ess Steel
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.		













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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.





WATER DRAINS prevent water from building up inside

Item №	Uveraii Length	Weight
367-1890	11-3/4"	0.55 lbs.

G F

For additional Chainwheel safety, always use Trumbull's Chainwheel Safety Restraint System (see page G-65 & G-66 for more information).



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Secondary Safety Restraint

Safety Device System used with Trumbull Chainwheels

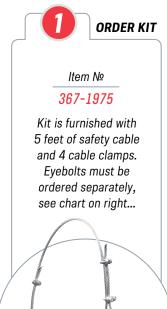


ALERT! PREVENT SERIOUS INJURIES: KEEP YOUR CHAINWHEEL SECURE!

If a Chainwheel is properly installed, maintained and inspected, it should never separate from the valve and fall to the ground. Although the likelihood of a Chainwheel falling is small... the result **could be** a serious injury, or even a fatality.

Secondary Safety Restraints, also called "Safety Cable Kits", can be economically added to the Chainwheel installation. One end is attached to the Chainwheel and the other to a permanent part of the valve or an adjacent pipe.

Cable, clips and eyebolts are made from Type 316 stainless steel for long life in even the most corrosive environments.



EYEBOLT

		GEEEGT ETEBOET			
	Chainwhe	eel	Model №	Eyebolt Length	Item №
	TRS-4			1″	367-1974
S	TRS-6		TRCS-6	1″	367-1974
STAINLESS STEEL	TRS-8	S	TRCS-8	3"	367-1973
VE.	TRS-12	CARBON STEEL	TRCS-12	6"	367-1972
S S	TRS-15	N	TRCS-15	6"	367-1972
핊	TRS-22	STE	TRCS-22	13"	367-1970
	TRS-29B	严	TRCS-29B	16"	367-1969
	TRS-29C		TRCS-29C	18"	367-1967
	TR-0.0		TRA-0.0	2"	367-1968
	TR-1.0		TRA-1.0	2"	367-1968
	TR-1.5	ALU	TRA-1.5	3"	367-1973
	TR-2.0	M	TRA-2.0	3"	367-1973
DUCTILE IRON	TR-2.5	M	TRA-2.5	6"	367-1972
ΕR	TR-3.0		TRA-3.0	9"	367-1971
NO	TR-3.5		TRA-3.5	9"	367-1971
	TR-4.0			9"	367-1971
	TR-4.5			13"	367-1970
	TR-5.0			18"	367-1967

SELECT EYEBOLT





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INSTRUCTIONS

Installation of Safety Restraints

As easy as... 1 2 3 4













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



Loop cable through eyebolt leaving about 6" excess.

Install one cable clamp about 1" from end, and the second clamp as close to the eyebolt as possible.

> Eye of eyebolt must be parallel to Chainwheel and u-bolt nuts should face AWAY from the Chainwheel.



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

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



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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:

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
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.

	Carbon Steel	304 Stainless				pp.) p.pcac .c c	-
Pipe Size	Item №	Item №	Saddle Size	Threaded Rod	Base Plate	Extension Pipe Size*	Min. Height from Floor
			Oddale Olze	Timedaed Nod	Buse I lute	UIZU	11011111001
3″	364-5850	364-5830	1-1/2" x 3/8"				
4"	364-5851	364-5831	1-1/2 X 3/6				7"
6"	364-5852	364-5832		1"-8 NC x 6"	1/4" x 8" x 8"	" x 8" 2" Sch 40	
8″	364-5853	364-5833	2" x 1/2"		1/4 20 20		
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 5/6	1-1/2"-6 NC X 6"		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.

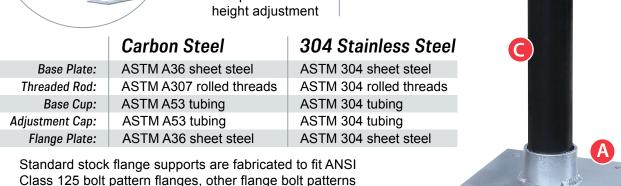


ASSEMBLY INCLUDES:

- 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:

Extension Pipe, at the length required*



Class 125 bolt pattern flanges, other flange bolt patterns classes available upon request;

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



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

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



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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.



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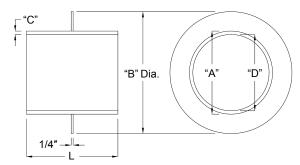
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Wall Sleeves



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 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.

7		"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"

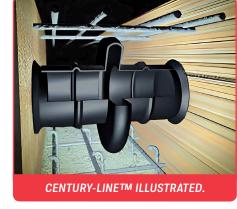
Century-Line™ Pipe Penetration Sleeves

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.



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



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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

It	em №	Female Thread	Male Thread	Weight
37	7-9001	2-1/2" NST	3/4" MIP	1.40 lbs.
37	7-9005	2-1/2" NST	1-1/2" MIP	1.40 lbs.
37	7-9009	2-1/2" NST	2" MIP	1.40 lbs.

NST x Garden Hose Hydrant Adapter

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



FIP x Garden Hose Adapter

Used to connect garden hose to item 377-9001 (shown above). Solid brass construction.



Item №	Female Thread	Male Thread	Weight
151-1003	3/4" I.P.	3/4" G.H.	0.15 lbs.





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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.

Item №	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	0.20 lbs.



Gaskets for Hydrant Nozzle Caps

Item №	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"	



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Hydrant Valve Rubbers



^{*} 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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Fire Hydrant Markers Allow for Easy Locating in Difficult-to-Find Environments

Our Hydrant Markers are made of fiberglass shafts with reflective red and white stripes. Shafts are 3/8" in diameter and available in 4, 5 or 6 foot lengths. Spring mounts allow for greater flexibility in wind, rain or snow, and the top mount model includes a flat mounting bracket.

- Easy to install.
- Top mount model installs easily onto the hydrant's cap bolts.
- Side mount model attaches on the hose nozzle.
- Both models are corrosion and UV resistant.
- Models are shipped fully assembled.

Top Mount Hydrant Markers

Item №	Length	Weight
125-250-00040	4'	1.70 lbs.
125-250-00050	5'	1.85 lbs.
125-250-00060	6'	2.00 lbs.

Side Mount Hydrant Markers

Item №	Length	Weight
125-250-00010	4'	1.75 lbs.
125-250-00020	5'	1.95 lbs.
125-250-00030	6'	2.15 lbs.





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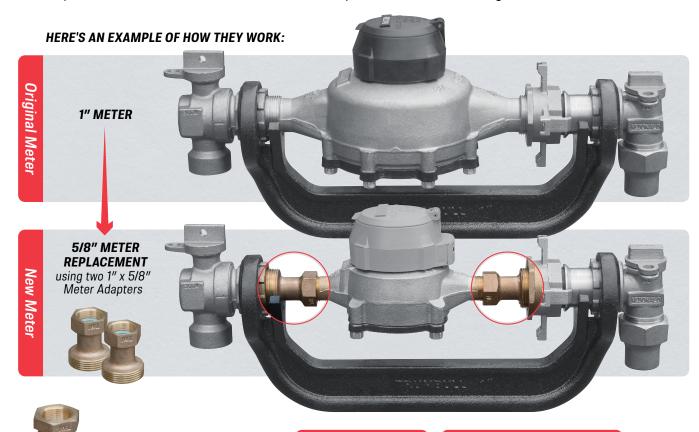
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New Meter

Meter Adapters

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

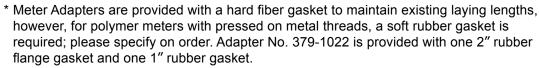








Original Meter



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

379-1022



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Phone: 330.270.7888 | 877.504.1507 | 330.392.0756

Toll Free:

Fax:

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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



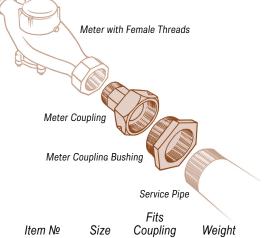
Meter Couplings

- 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.

Item №	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.

Bushings

For use with 1-1/2" or 2" meters with female threads, as shown below.



Item №	Size	Fits Coupling	Weight
368-0618	1-1/2"	1-1/2"	0.85 lbs.
368-0619	2″	2"	1.20 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.



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



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Meter Size

5/8"

5/8" x 3/4"

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Length

10-15/16"

10-15/16"

Height

4-1/8"

4-1/8"

4-1/8"

5-1/4"

Weight

3.65 lbs.

4.20 lbs.

4.60 lbs.

7.30 lbs.

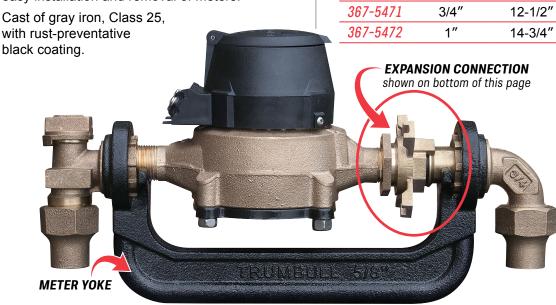
Cast Iron Meter Yokes

Item №

367-5470

367-5469

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



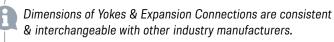
Expansion Connections

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.

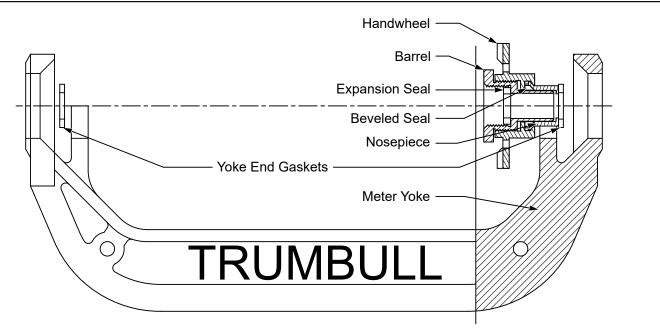
Nose Piece and Barrel are in contact with water and are cast from UNS C89833 brass. Certified by UL for compliance with NSF/ANSI 61 and NSF/ANSI 372, per the U.S. Safe Drinking Water Act.

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.



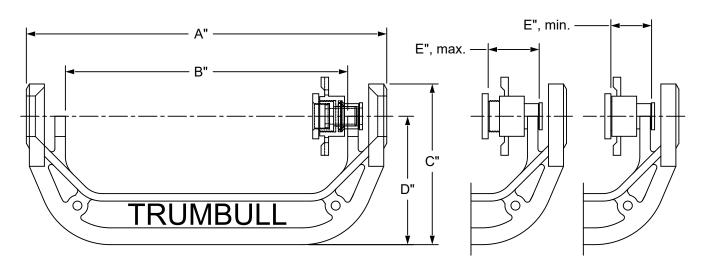


Item №	Meter Size	Size	Type	Weight
368-0630	5/8"	5/8"	Handwheel	0.72 lbs.
368-0632	5/8" x 3/4" & 3/4"	3/4"	Handwheel	0.93 lbs.
368-0635	1″	1″	Handwheel	1.61 lbs.



Barrel and Nosepiece are in contact with potable water and will conform to UNS C89833. They will be marked, "NL", and are certified by UL for compliance with NSF/ANSI 61 and NSF/ANSI 372, per the U.S. Safe Drinking Water Act. EPDM and fiber seals meet NSF/ANSI 61.

Handwheel is not in contact with potable water and will conform to UNS C83600.



		Yoke						Expande	er	
Meter Size	A"	B"	C"	D"	Wt., lbs.	Item No.	Bore Size	E", min max.	Wt., Ibs.	Item No.
5/8"	10.69"	8.19"	5.16"	3.88"	3.9	367-5470	0.59"	1.44" - 1.75"	0.65	368-0630
5/8" x 3/4"	10.94"	8.34"	5.16"	3.88"	4.1	367-5469	0.72"	1.75" - 2.0"	0.85	368-0632
3/4"	12.31"	9.81"	5.16"	3.88"	4.4	367-5471	0.72"	1.75" - 2.0"	0.85	368-0632
1"	14.88"	11.75"	6.69"	5.34"	7.25	367-5472	0.97"	2.19" - 2.63"	1.65	368-0635

Material:

ASTM Class 30 Gray Iron, black E-coat all surfaces.

UNS C89833 - Barrel and Nosepiece certified by UL for compliance with NSF/ANSI 61 and NSF/ANSI 372, per the U.S. Safe Drinking Water Act. (In contact with potable water).

METER YOKE and EXPANSION CONNECTIONS

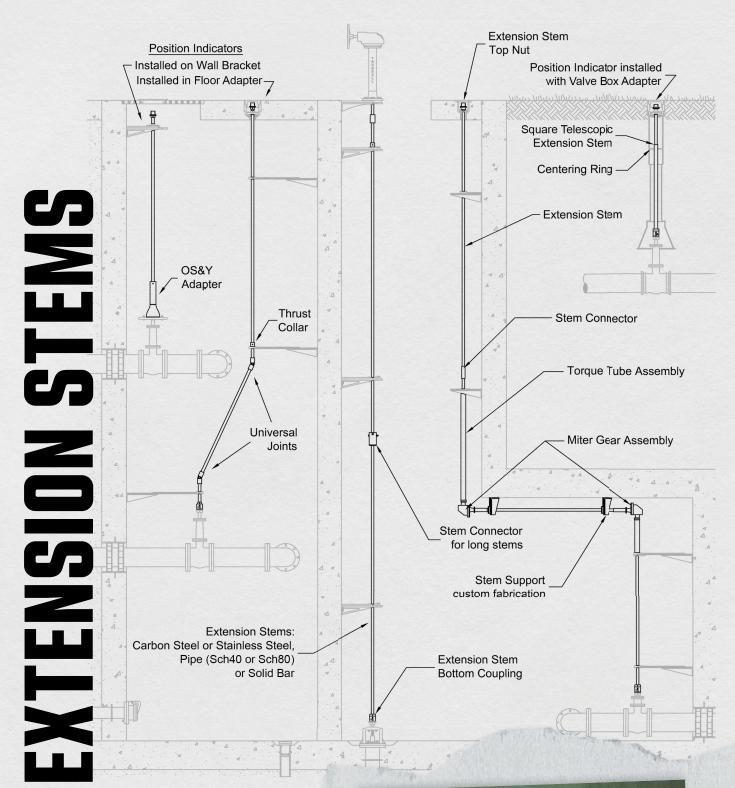
Drawn to Scale

Drawn: FCN 05/19/14 Revision:

FCN
04/07/15

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