

# Trumbull Manufacturing

## PRODUCT CATALOG WATERWORKS SPECIALTY PRODUCTS

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

A worker in a light blue shirt is using a double socket ratchet wrench to work on a pipe fitting inside a trench. The scene is viewed through a circular opening in a red, textured surface, possibly a manhole cover. The worker is focused on the task, and the wrench is clearly visible as it is applied to the fitting. The background shows the interior of the trench with some equipment and a bright light source.

DOUBLE SOCKET  
RATCHET WRENCH,  
PAGE A-1

CALL OUR SALES TEAM!  
**877.504.1507**

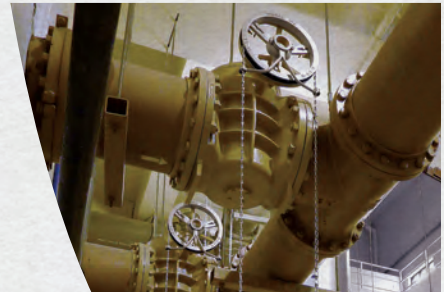


# SPECIALTY PRODUCTS FOR THE WATERWORKS AND VALVE INDUSTRIES

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

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

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



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## Trumbull Manufacturing





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## Double Socket Ratchet Wrenches / Wrench Sets

### COLOR-CODED GRIPS

are cushioned and ergonomically contoured for comfortable use

### HEAVY-DUTY RATCHET MECHANISM

is sandwiched between steel plates for strength and protection

### O.D. TAPE

included with set



### 3-Wrench Set

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

Item No      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.

**i** 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 No	Large Socket Fits Hex Size	Small Socket Fits Hex Size	EXAMPLES OF LARGE SOCKET APPLICATIONS	EXAMPLES OF SMALL SOCKET APPLICATIONS
BLUE	1-1/4"	1-1/16"	364-9982	3/4" Heavy	5/8" Heavy	4" thru 24" MJ Ftgs., 3/4" Hex Bolts with Heavy Hex	3" MJ Ftgs., Cast Couplings, Clamps, Tapping Sleeves
GREEN	1-1/8"	15/16"	364-9985	3/4" Standard	5/8" Standard	3/4" Flange Bolts with Standard Hex	5/8" Flange Bolts with Standard Hex, 14" thru 24" Hymax® Couplings
YELLOW	7/8"	3/4"	364-9983	9/16" Standard & 1/2" Heavy	1/2" Standard & 7/16" Heavy	6" thru 12" Hymax® & other Couplings with 1/2" Heavy Hex	1-1/2" thru 4" Hymax® Couplings, 1-1/2" thru 24" MaxiFit™



### PIVOTING HANDLE

## Double Socket Ratchet Wrenches



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

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



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



## Manhole Cover Hooks



MANHOLE HOOKS ENGAGE PICK HOLES.



MANHOLE HOOKS ALSO ENGAGE VENT HOLES.

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

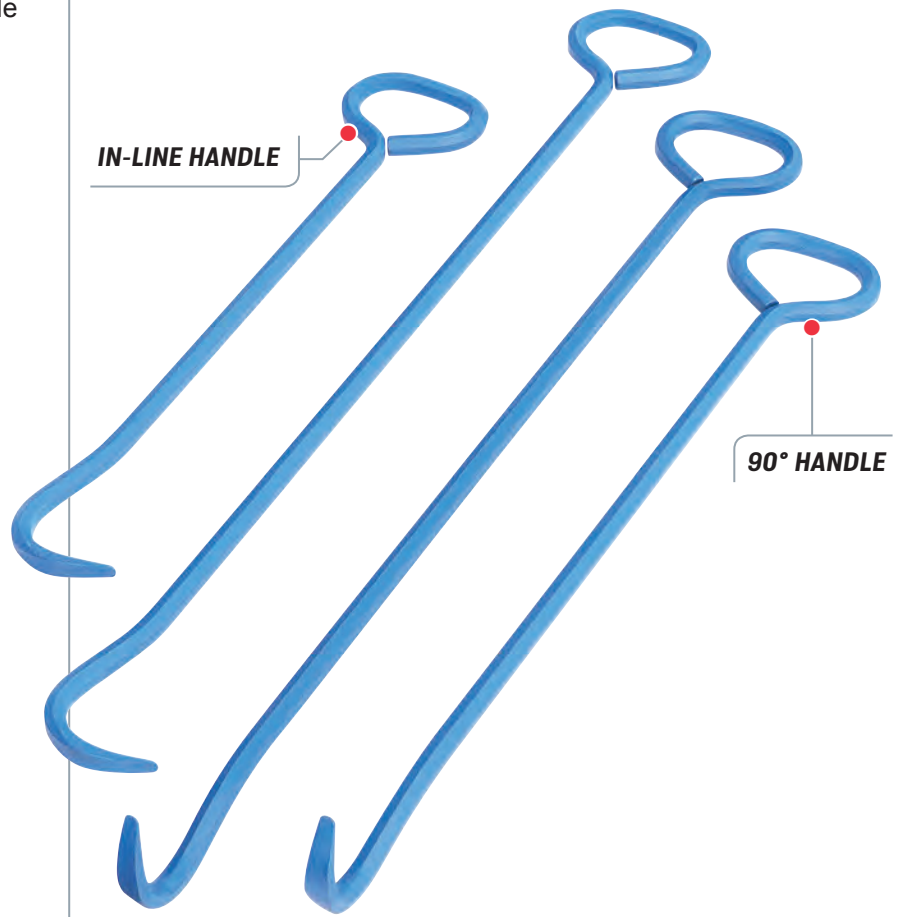
Hooks are painted in Safety Blue enamel paint for safety and durability.

### In-Line Handle

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

### 90° Handle

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







**INTERNAL CORE WORKS ON PIN-TYPE HOSE COUPLINGS OR HYDRANT ADAPTERS.**



**WORKS ON LUG-TYPE HOSE COUPLINGS OR HYDRANT ADAPTERS.**



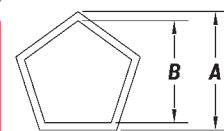
**GRIPS AND RETAINS PENTAGON OR SQUARE OPERATING NUTS.**

## Hydrant Operating Wrenches



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

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



### Pentagon Nuts

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

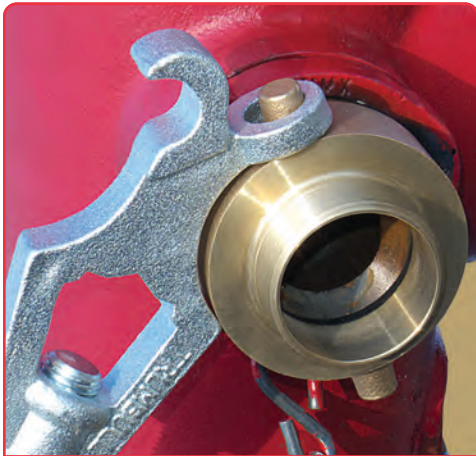


### Square Nuts

Item No	Size	Model Number	"A" at base	"B" at top	Weight
<b>377-5951</b>	1"	A12	1-1/8"	1"	2.60 lbs.
<b>377-5947</b>	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.



WORKS ON PIN-TYPE HOSE COUPLINGS OR HYDRANT ADAPTERS.



WORKS ON LUG-TYPE HOSE COUPLINGS OR HYDRANT ADAPTERS.



GRIPS AND RETAINS PENTAGON OR SQUARE OPERATING NUTS.

## Adjustable Hydrant Wrench

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.

### Adjustable Hydrant Wrench

Item No	Handle Length	Weight
<b>377-5960</b>	15"	4.25 lbs.

### 24" Handle Only

Item No	Handle Length	Weight
<b>100-380-00040</b>	24"	0.60 lbs.



**KNURLED GRIP**

**STANDARD 15" HANDLE**  
made of 7/8" carbon steel,  
24" handle available as  
separate purchase

**CAST STEEL HEAD**  
with heavy wall thickness

**TRUSTED BY FIRE DEPARTMENTS!**







WORKS ON 4" AND 5" STORZ CAPS.



WIDE BEARING SURFACE ON WEDGE NUT GRIPS & RETAINS OPERATING NUTS BETTER THAN CONVENTIONAL THREADED HANDLES.



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

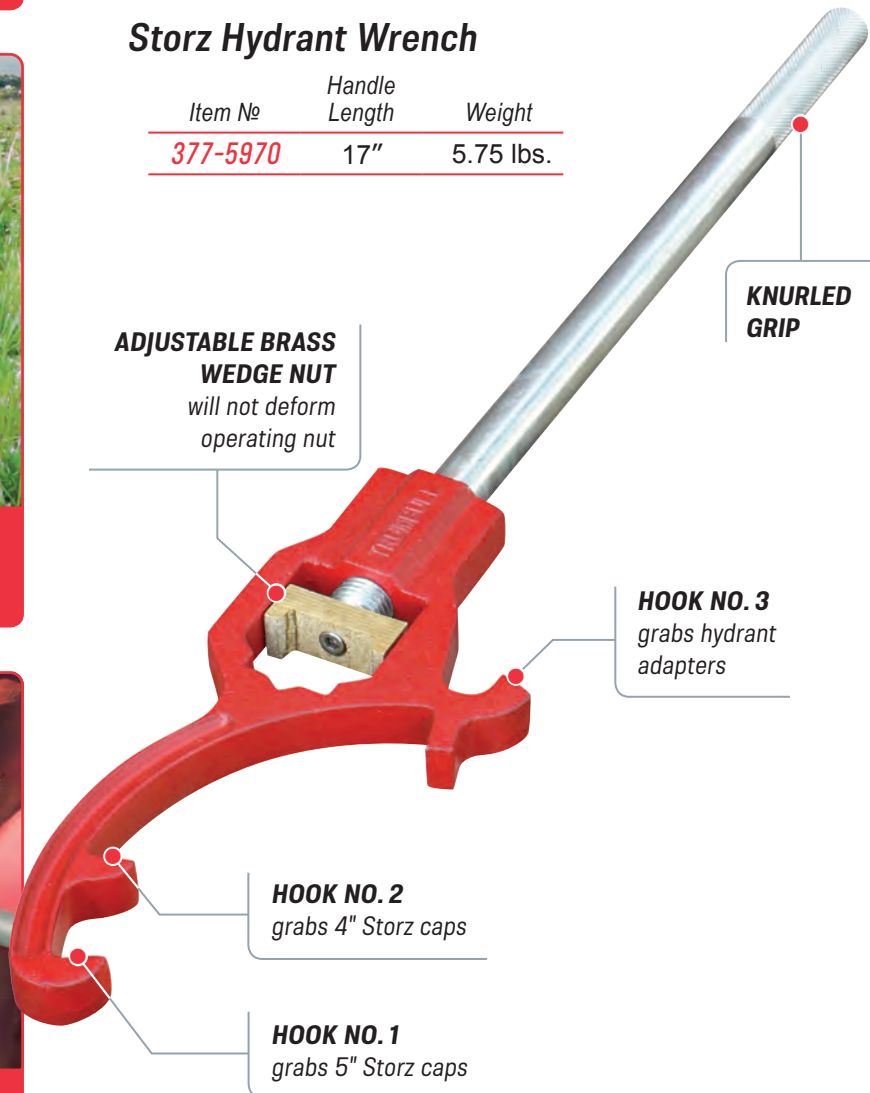
## STORZ Adjustable Hydrant Wrench

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

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

### Storz Hydrant Wrench

Item No	Handle Length	Weight
377-5970	17"	5.75 lbs.

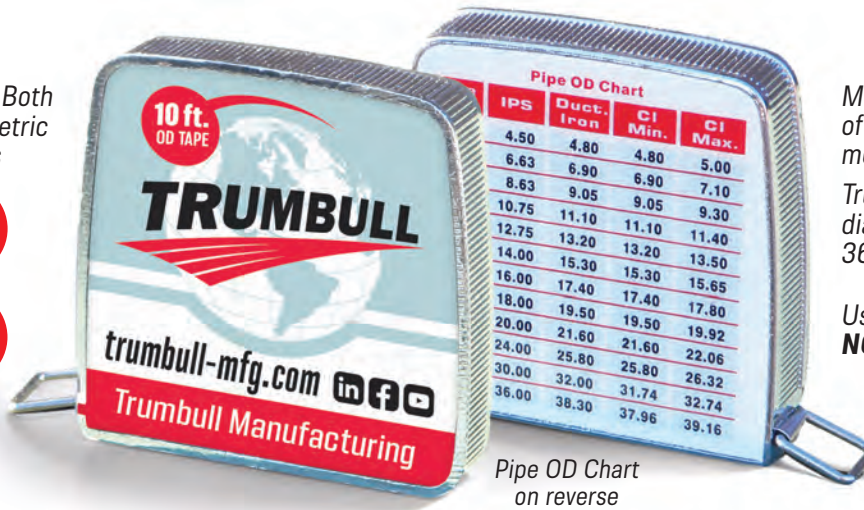


## Outside Diameter Tapes

Available in Both  
Inch and Metric  
Models

10 ft.  
OD TAPE

3m  
OD TAPE



Pipe OD Chart  
on reverse

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

Trumbull's tape will measure  
diameters up to and including  
36" ductile iron pipe.

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

### 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.

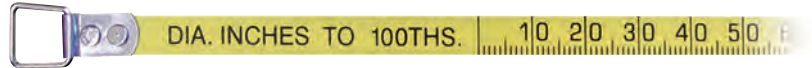
### LINEAR MARKINGS

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.



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



Inquire how we can put YOUR logo on the label.



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



## Handwheel for 2" Nut

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

Item No	Material	O.D.	Weight
<b>367-4962</b>	Cast Iron	14"	15.15 lbs.

Also Shown on  
Page G-4.



## 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 No	Weight
30"	<b>367-4230</b>	3.00 lbs.
36"	<b>367-4232</b>	3.50 lbs.



Buffalo Erie/Minneapolis

### Erie/Minneapolis Type Curb Box Rods

Furnished with brass cotter pin

Length	Item No	Weight
24"	<b>367-4084</b>	3.10 lbs.
30"	<b>367-4085</b>	3.20 lbs.
36"	<b>367-4087</b>	3.70 lbs.
42"	<b>367-4090</b>	4.20 lbs.
48"	<b>367-4092</b>	4.70 lbs.



## Curb Wrenches and Keys



The numbers shown here correspond with the numbers above each of the "Item No" columns.

Items No 3 through No 6 are shown on the following page.

### No. 1302 Curb Stop Wrenches

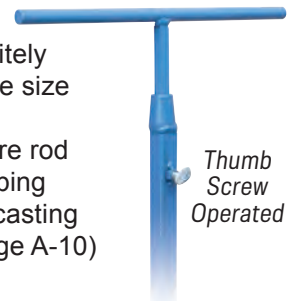
- Designed to shut off 3/4" through 2" curb stops
- Made of 5/8" round carbon steel rod
- Ductile iron bottom casting



Length	Item No	Weight
3 ft.	<b>367-4293</b>	4.00 lbs.
4 ft.	<b>367-4294</b>	6.00 lbs.
5 ft.	<b>367-4360</b>	7.00 lbs.
6 ft.	<b>367-5025</b>	8.00 lbs.
7 ft.	<b>367-4362</b>	9.00 lbs.
8 ft.	<b>367-4296</b>	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	Item No	Weight
4'6" through 8'	<b>367-4370</b>	4.00 lbs.
6' through 10'	<b>367-4371</b>	10.00 lbs.

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



## Curb Wrenches and Keys, Continued

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

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

**No. 1305**

**No. 1321**

Plain Tee handle

**POINT END**  
for digging dirt or ice away from lid

**CHISEL END**

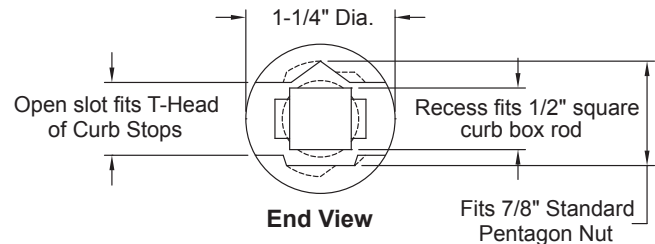
Length	Weight	No. 1305		No. 1321	
		3 Item No	Item No	4 Item No	Item No
1 ft.	3.00 lbs.	367-4295	367-4295	367-5295	367-5295
3 ft.	5.00 lbs.	367-4291	367-4291	367-5291	367-5291
4 ft.	6.00 lbs.	367-4292	367-4292	367-5290	367-5290
6 ft.	8.00 lbs.	367-4297	367-4297	367-5297	367-5297
8 ft.	10.00 lbs.	367-4302	367-4302	spec/ord.	spec/ord.

**i** NOT for use with 1" Erie Style Boxes.



#### THE COMBINATION SOCKET

is a multi-purpose tool. It can be used on a pentagon nut as well as a 1/2" square rod, and will fit directly on the t-head of a curb or meter stop through 2". When used on pentagon bolt of meter box covers, automatically attaches to lift and hold the lid. Non-slotted version is also available upon request.



### No. 1306 and No. 1322 Curb Box Keys For **ERIE & MINNEAPOLIS** Type Boxes

Made of 5/8" carbon steel.

**No. 1306**

**No. 1322**

**FORK END**  
of both keys fits in a curb box lid with 2 holes

**SOCKET END**  
of No. 1306 key fits the plug in a curb box lid with a pentagon nut.  
See close-up of Combination Socket on top of page.

**PICK END**  
is used to clear ice and dirt from the box lid

#### 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		No. 1322	
			5 Item No	Item No	6 Item No	Item No
2 ft.	5.00 lbs.	----	367-4277	367-4277	spec/ord.	spec/ord.
3 ft.	7.00 lbs.	----	367-4278	367-4278	367-5278	367-5278
4 ft.	9.00 lbs.	----	367-4264	367-4280	367-5280	367-5280
5 ft.	11.00 lbs.	----	367-4265	367-4276	367-5276	spec/ord.
6 ft.	13.00 lbs.	----	367-4266	367-4275	367-5275	spec/ord.
7 ft.	15.00 lbs.	----	367-4267	367-4274	367-5274	spec/ord.
8 ft.	17.00 lbs.	----	367-4268	367-4268	367-5268	spec/ord.

**i** For special lengths not shown here, please inquire.

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

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

### 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 No	Weight
4 ft.	<b>367-5124</b>	11.40 lbs.
5 ft.	<b>367-5125</b>	13.00 lbs.
6 ft.	<b>367-5126</b>	14.30 lbs.
7 ft.	<b>367-5127</b>	15.50 lbs.
8 ft.	<b>367-5128</b>	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 No	Length	Weight
<b>367-5129</b>	6 ft. through 10 ft.	38.50 lbs.



## Pentagon Hand Keys

Medium Carbon Steel Investment Casting – Plated Finish



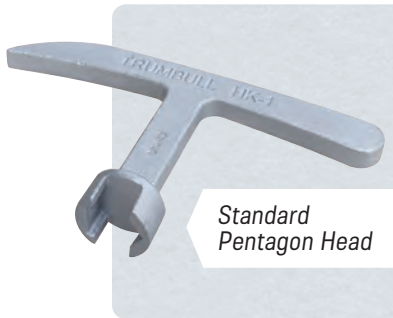
Standard  
Pentagon Head

### Model HK-0 Our Classic Original Model

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

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

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

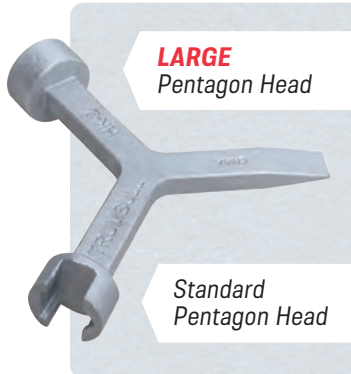
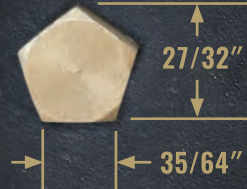


Standard  
Pentagon Head

### 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.

### STANDARD WATERWORKS PENTAGON HEAD



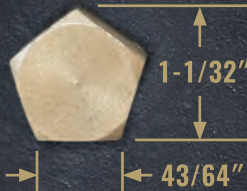
LARGE  
Pentagon Head

Standard  
Pentagon Head

### Model HK-2

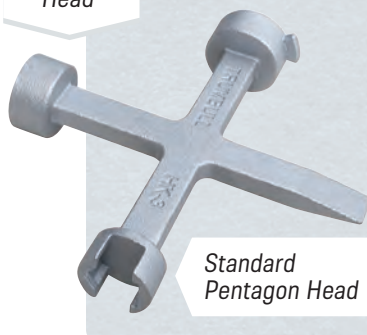
The HK-2 has two pentagon sockets, plus a tapered-end prying blade. Socket 1 fits standard pentagon heads, and has a slot to operate T-head of curb and meter stops. Socket 2 fits large pentagon heads. Both sockets have cavities to retain the pentagon head during removal, for ease in lifting the lid of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

### LARGE WATERWORKS PENTAGON HEAD



MUELLER  
RETAINING  
TYPE  
Pentagon  
Head

MUELLER  
EXTERNAL LUG  
TYPE  
Pentagon  
Head

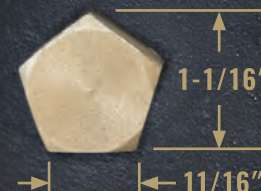


Standard  
Pentagon Head

### 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.

### MUELLER METER BOX COVER PENTAGON HEAD



## 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

Item No	Product Description	Weight
<b>367-9100</b>	Base Unit	20.65 lbs.

Illustration of Tee Handle fitting in Base Unit.

**TEE HANDLE**  
doubles as  
20" extension

**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

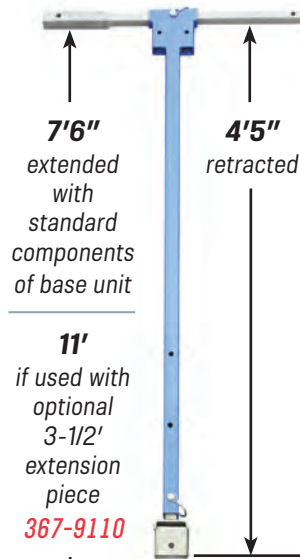


Illustration of **BASE UNIT**

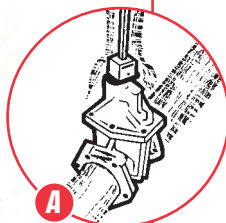
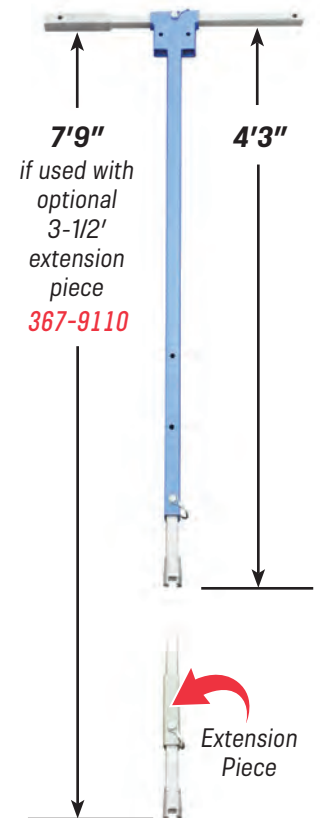
**SOCKET**  
for 2" AWWA Nut

Illustration of **3-1/2' EXTENSION**

### Optional Accessories

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

### KEY FOR CURB/METER STOPS With Multi-Purpose Adapter





## Valve and Curb Key Kit, Optional Accessories

### 2-HOLE LID ADAPTER & HANDWHEEL ADAPTER



**367-9102** - operates 2-hole lids of Erie and Minneapolis curb boxes (illustration D below)

**367-9104** - operates small handwheels (illustration E)

**367-9115** - 3/8" x 1-1/2" snap pin, included

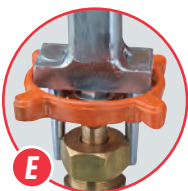
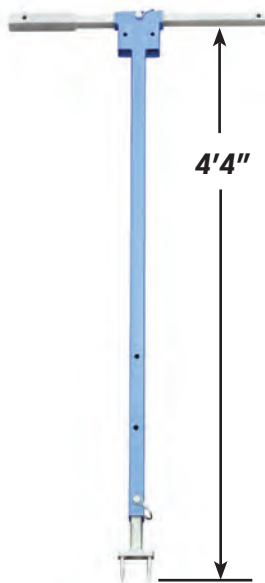
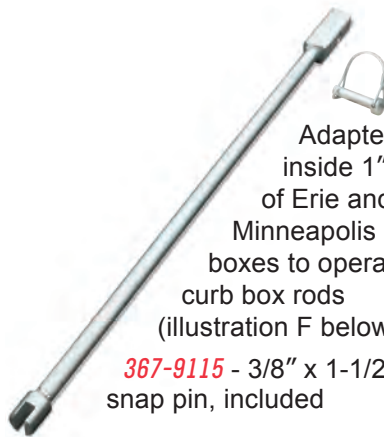


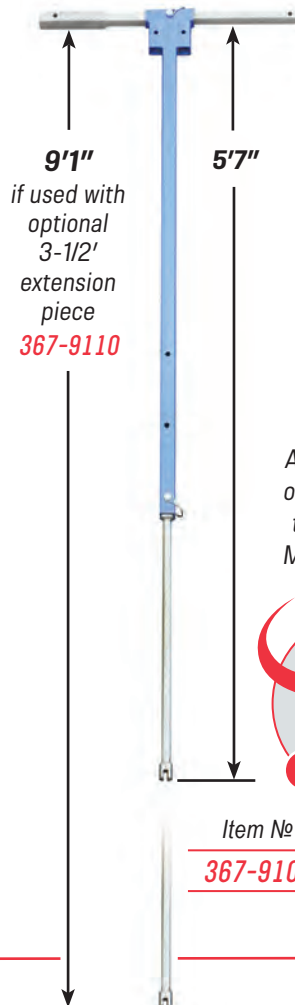
Illustration	Item No	Weight
D	<b>367-9102</b>	1.15 lbs.
E	<b>367-9104</b>	1.00 lbs.

### ERIE/MINNEAPOLIS ADAPTER



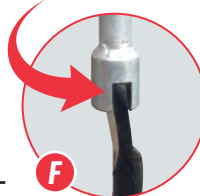
Adapter fits inside 1" pipe of Erie and Minneapolis curb boxes to operate curb box rods (illustration F below)

**367-9115** - 3/8" x 1-1/2" snap pin, included



**9'1"** if used with optional 3-1/2' extension piece **367-9110**

Adapter fits on flattened top of Erie Minneapolis rods



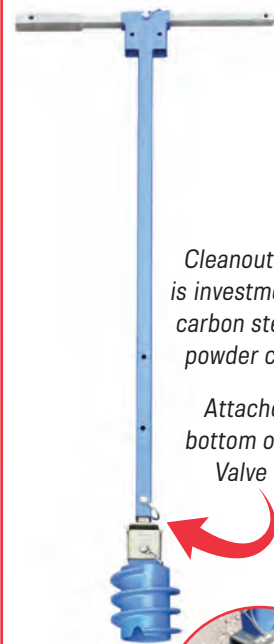
Item No	Weight
<b>367-9101</b>	2.25 lbs.

### CLEANOUT AUGER



Ideal for cleaning out mud and dirt in 5-1/4" valve boxes

**367-9116** - 3/8" x 2-1/2" snap pin, included



Cleanout Auger is investment cast carbon steel with powder coating

Attaches to bottom of Main Valve Key



Item No	Weight
<b>367-9103</b>	6.95 lbs.

## Soil Probe Rods

Used for Locating Buried Lines – Insulated and Uninsulated Types

**HEAVY-DUTY STEEL SHAFT**  
1/2" diameter

**INSULATED HANDLE**  
1-3/16" diameter  
x 9-1/2" long

### Insulated Type Soil Probe Rods

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

The insulation **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.

**UNINSULATED "PLUS" TYPE**  
Carbon Steel or Stainless Steel

**ECONOMY TYPE**  
Carbon Steel

Replaceable Stainless Tip

Replaceable Handle Grips

Epoxyed Tip

12" Welded Handle

Overall Length	Insulated Type		Uninsulated Types					
	Rubber Handle		Carbon Steel "Plus"		Stainless Steel "Plus"		Economy Type	
	Item No	Weight	Item No	Weight	Item No	Weight	Item No	Weight
3 ft.	----	----	<b>367-9082</b>	2.50 lbs.	<b>367-9086</b>	2.50 lbs.	----	----
4 ft.	<b>367-9080</b>	4.00 lbs.	<b>367-9083</b>	2.80 lbs.	<b>367-9087</b>	2.80 lbs.	<b>367-9081</b>	4.00 lbs.
5 ft.	<b>367-9090</b>	4.25 lbs.	<b>367-9084</b>	3.25 lbs.	<b>367-9088</b>	3.25 lbs.	<b>367-9091</b>	4.25 lbs.
6 ft.	----	----	<b>367-9085</b>	3.60 lbs.	<b>367-9089</b>	3.60 lbs.	----	----

### REPLACEMENT PARTS

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



## The KnuckleSAVER™ 3-in-1 Flaring 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.



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

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

## Shutoff Tool For Polyethylene Water Tubing



FOR USE ON 3/4" AND 1" POLYETHYLENE WATER TUBING ONLY.



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

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 No	Weight
368-9040	2.90 lbs.

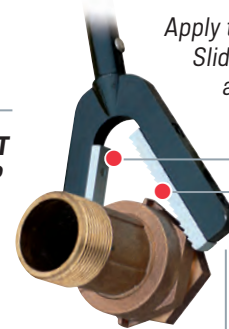
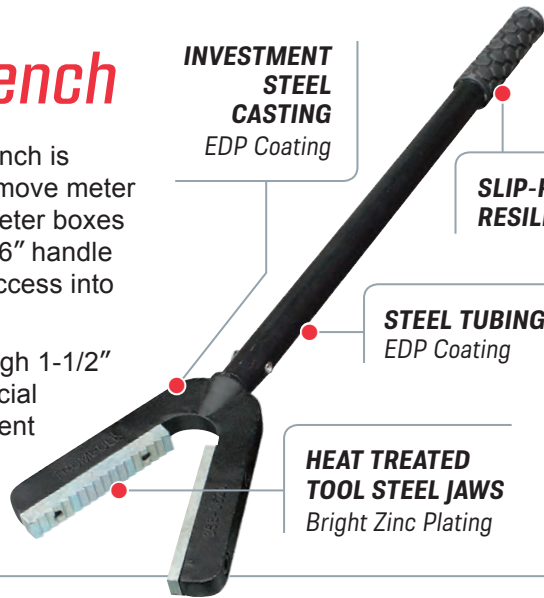


The Shutoff Tool **IS NOT** intended for use on gas tubing!

## 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.



Apply torque through gripping jaw. Slide wrench against smooth anvil jaw to re-position for quick action.

Anvil Jaw  
Gripping Jaw

## Replacement Jaw Set

Includes set of jaws and screws

Item No	Weight
<b>368-0625</b>	0.35 lbs.

## Meter Wrench

Item No	Weight
<b>368-0620</b>	2.50 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 jaws can be interchanged on tools of other popular manufacturers.

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

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

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

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

**TRUMBULL JAW DESIGN**  
prevents over-opening and disengagement

## Valve and Curb Box Cleaners

Length	Standard Jaws		Scoop Jaws	
	Item No	Weight	Item No	Weight
5 ft.	<b>367-9150</b>	10.50 lbs.	<b>367-9170</b>	10.60 lbs.
6 ft.	<b>367-9151</b>	12.10 lbs.	<b>367-9171</b>	12.20 lbs.
7 ft.	<b>367-9152</b>	13.70 lbs.	<b>367-9172</b>	13.80 lbs.
8 ft.	<b>367-9153</b>	15.30 lbs.	<b>367-9173</b>	15.40 lbs.

## Jaw Replacement Kits

Includes 2 jaws and 2 pins

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



## Distance Measuring Wheel

Includes Storage Bag

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

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

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

### Distance Measuring Wheels

Item No	Lettering	Color
<b>217-1235</b>	Feet	Green
<b>217-1236</b>	Meters	Red



#### MEASURING WHEEL SPECS

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

**PUSH LEVER**  
resets numbers  
to zero

**TRIGGER-OPERATED BRAKE**



**6-FIGURE COUNTER COUNTS FORWARD OR BACKWARD.**



**FOLDING HANDLE DESIGN . . . FITS NEATLY INSIDE STORAGE BAG.**

# TRUMBULL

**Trumbull Manufacturing**

3850 Hendricks Road, Youngstown, Ohio 44515

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

[www.trumbull-mfg.com](http://www.trumbull-mfg.com)

## Valve Boxes



# TRUMBULL



**Trumbull Manufacturing**

3850 Hendricks Road, Youngstown, Ohio 44515

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## Curb Boxes

## 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.

### **i** VALVE BOX

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



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

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

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

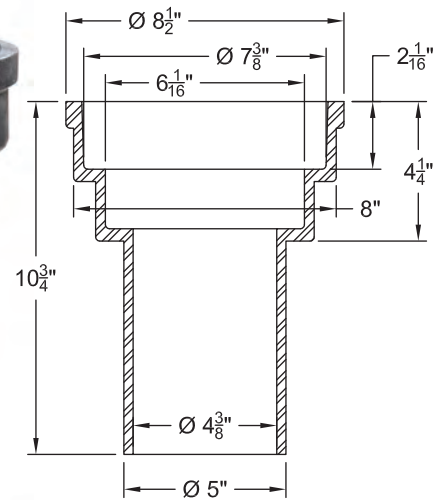
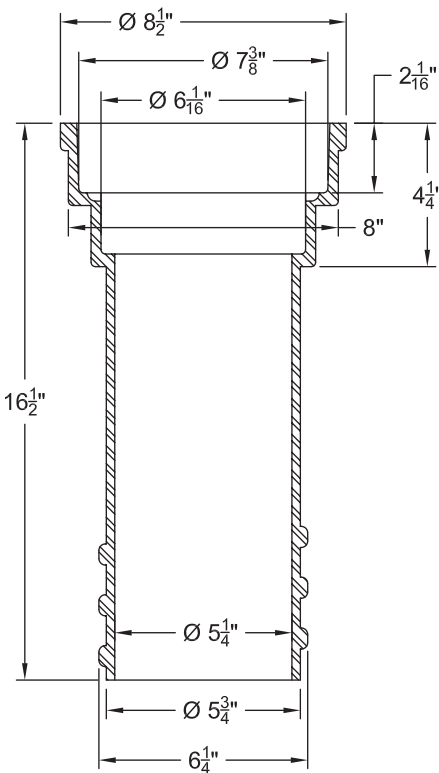
**i** Due to changes in the design of some manufacturer's valve box lids, primarily Tyler's, their redesigned lid will not fit properly in our 1" Riser. When it cannot be determined if the existing valve boxes being raised have the old or new style Tyler lid, we recommend purchasing Trumbull's Valve 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.





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

### Slide-Type "Rite-Hite" Adapter

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

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

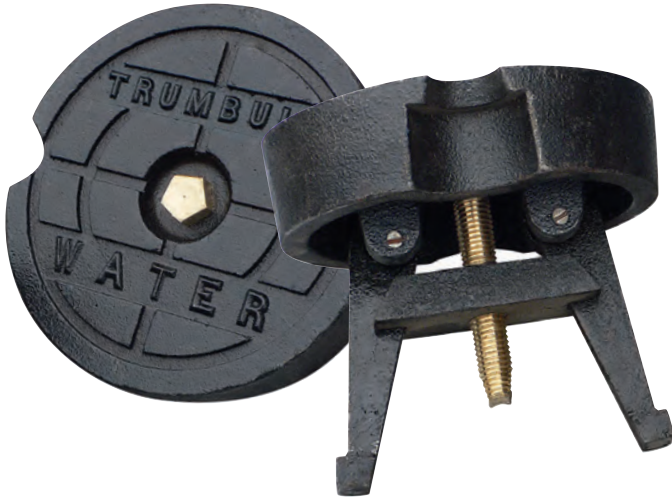


If the existing valve box is too low, place the "Rite-Hite" inside the existing box, pour stiff cement mortar around it and push down until the "Rite-Hite" is flush with the pavement surface.

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

## Valve Box Lids

Available in Locking Type and Standard Type Models

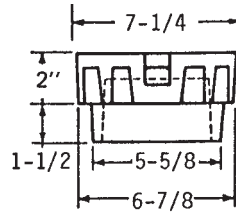


### Locking Valve Box Lid

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 No	Size	Lettering	Weight
<b>367-5045</b>	5-1/4"	WATER	12.00 lbs.



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



### Standard Valve Box Lids

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

Item No	Lettering	Weight
<b>367-5244</b>	WATER	13.00 lbs.
<b>367-5046</b>	SEWER	11.00 lbs.
<b>367-5048</b>	GAS	12.85 lbs.
<b>367-5049</b>	NON-POTABLE WATER	12.85 lbs.

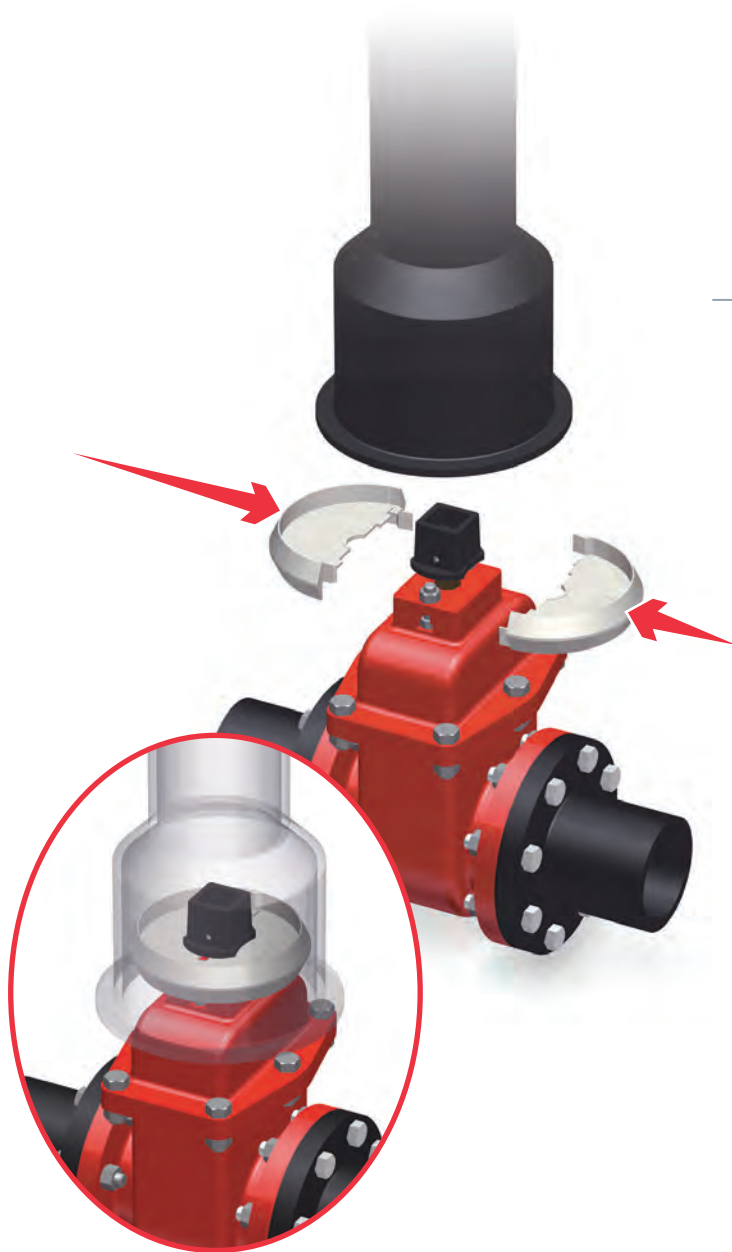
Special Lettering Available, Contact Us for More Details.





## Valve Box Alignment Device

- U.S. Patent No. 7575018 and 8430116.
- Eliminates shifting of valve box during backfill.
- Designed for use on all AWWA resilient wedge gate valves.
- Used with 5-1/4" 2-piece valve boxes.
- Avoids costly excavations when valve box shifts, preventing valve key from engaging the 2" square nut.



### Ordering Instructions

1. Quantity required.
2. Order model required, using the charts below.

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



### CI Valve Box or 8" PVC Pipe

Valve Manufacturer	2"	3"	4"	6"	8"	10"	12"
AFC	2	2	2	2	2	1	1
AVK	1	1	1	1	1	1	1
Clow	2	2	2	2	2	K1	K1
East Jordan	2	2	2	2	2	2	1
Kennedy	2	2	2	2	2	K1	K1
M&H	2	2	2	2	2	K1	K1
Mueller	2	2	2	2	2	1	1
J&S Valve	2	2	2	2	2	2	1
US Pipe	2	2	2	2	2	2	1



### 6" PVC Pipe

AFC	4	4	4	4	4	3	3
AVK	3	3	3	3	3	3	3
Clow	4	4	4	4	4	K3	K3
East Jordan	4	4	4	4	4	4	3
Kennedy	4	4	4	4	4	K3	K3
M&H	4	4	4	4	4	K3	K3
Mueller	4	4	4	4	4	3	3
J&S Valve	4	4	4	4	4	4	3
US Pipe	4	4	4	4	4	4	3

## Curb Box Repair Lids

Available in Inside Type and Outside Type Models



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

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

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

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



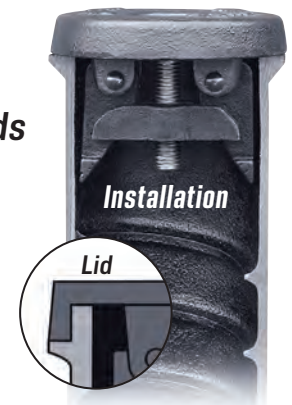
### Tamper-Resistant Screw Type Repair Lids

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

### Inside Repair Lids New Style (T-373)



### Outside Repair Lids Old Style (T-374 & T-375)



Item No	Model	Size	Screw Type	Weight
<b>367-4281</b>	T-373	2-1/2"	Brass Pentagon	2.45 lbs.
<b>367-4400</b>	T-373	2-1/2"	Tamper-Resistant*	2.45 lbs.

\* Requires Lock Key 367-4403 to operate.



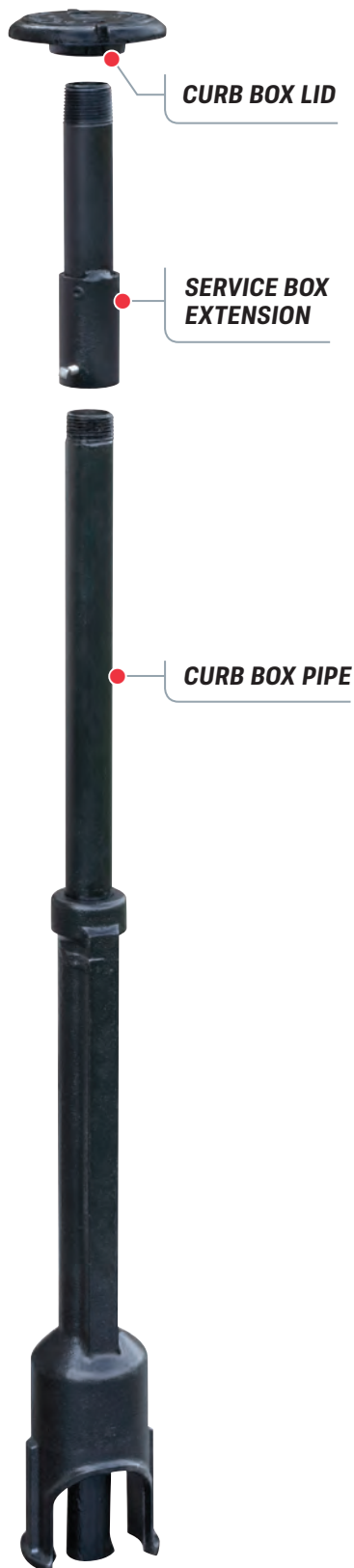
### Lock Key

Item No	Weight
<b>367-4403</b>	0.15 lbs.

Item No	Model	Size	Screw Type	Weight
<b>367-4282</b>	T-374	2-1/2"	Brass Pentagon	2.30 lbs.
<b>367-4401</b>	T-374	2-1/2"	Tamper-Resistant*	2.30 lbs.
<b>367-4283</b>	T-375	3"	Brass Pentagon	3.45 lbs.
<b>367-4402</b>	T-375	3"	Tamper-Resistant*	3.45 lbs.

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





## Service Box Extensions

For Erie/Minneapolis Pattern Curb Boxes

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

### Service Box Extensions for 1" Curb Boxes

Length	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"	367-0176	1.05 lbs.
6"	367-0177	1.45 lbs.
9"	367-0178	2.25 lbs.
12"	367-0179	3.10 lbs.
18"	367-0180	3.85 lbs.
24"	367-0181	4.35 lbs.



## Curb Box Lids

Available for 1-1/2" and 2" Curb Boxes

Includes pentagon plug and stainless steel insert.



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

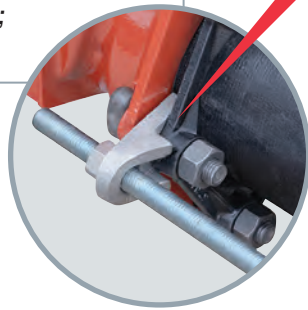
## Tie-Lugs

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".

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

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



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

## Tie-Bolt

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

T-Head Bolts are Shown on Page D-7.

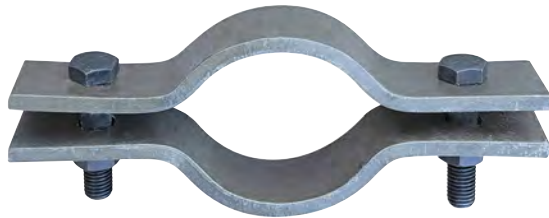




## Socket Clamps

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

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

### Stainless Steel Socket Clamps

Item No	Size*	Bolt Size	Stock Size	Pipe 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.

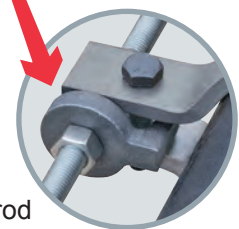
\* Sizes 3" through 12" are supplied with #585 cast washers which are shown on the right. Sizes 14" and larger are supplied with two fabricated carbon steel washers.

\*\* 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 No	Material	Bore Size	Weight
364-9000	CS	1"	0.80 lbs.
803-9000	SS	1"	0.80 lbs.

## Flange Lugs



Used to Prevent Separation of Plain-End Piping Components



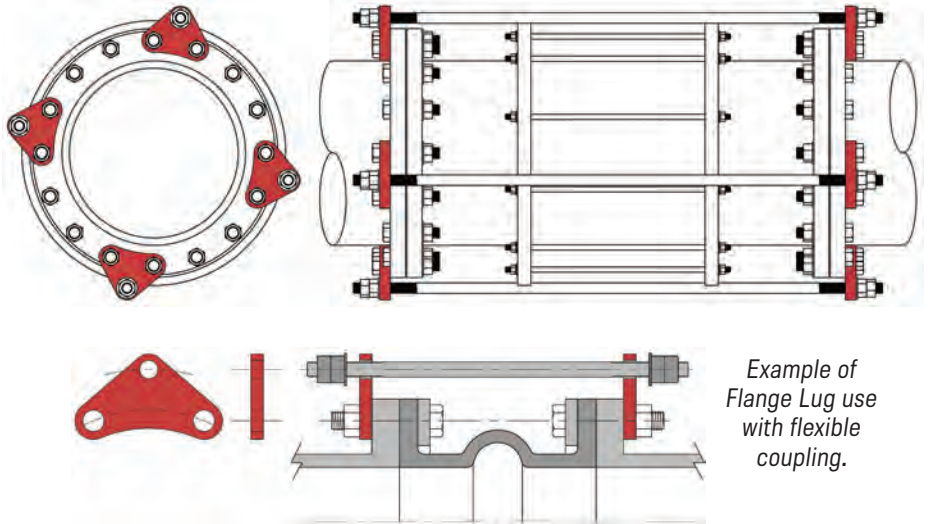
Also known in the field as “Thrust Plates”, “Harness Lugs” or “Gusset Plates”. They are installed on the back sides of ANSI Class 125 B16.1 and Class 150 B16.5 flanges to allow tie rods to span across an unrestrained piping component.

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

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

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

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



Example of Flange Lug use with flexible coupling.

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

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

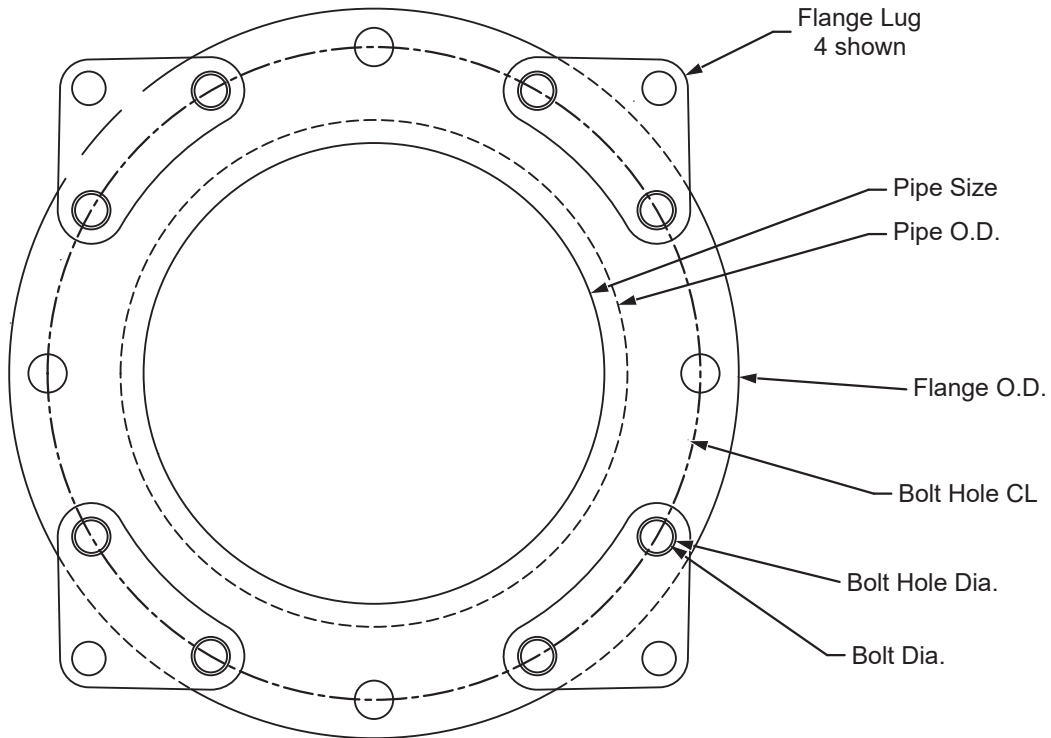
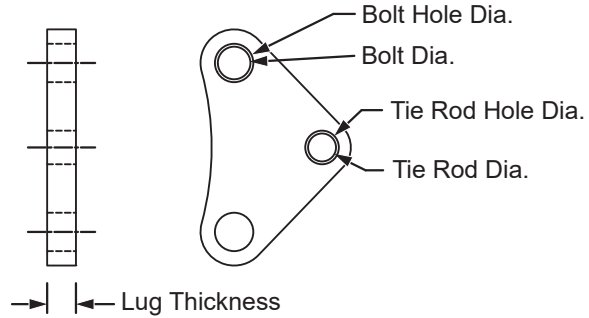


Pipe Size	Pipe O.D.	Flange O.D.	Bolt Holes			Bolt Dia.	Lug Thickness	Tie Rods		Weight pounds
			Hole CL	Qty.	Hole D.			Hole D.	Rod D.	
3"	3.96"	7.5"	6"	4	3/4"	5/8"	1/2"	3/4"	5/8"	1.25
4"	4.80"	9"	7.5"	8	3/4"	5/8"	1/2"	3/4"	5/8"	1.00
6"	6.90"	11"	9.5"	8	7/8"	3/4"	1/2"	3/4"	5/8"	1.26
8"	9.05"	13.5"	11.75"	8	7/8"	3/4"	1/2"	3/4"	5/8"	1.56
10"	11.10"	16"	14.25"	12	1"	7/8"	3/4"	7/8"	3/4"	2.35
12"	13.20"	19"	17"	12	1"	7/8"	3/4"	7/8"	3/4"	2.75
14"	15.30"	21"	18.75"	12	1-1/8"	1"	3/4"	7/8"	3/4"	3.45
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  
D 07/25/19

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

# TRUMBULL

## Trumbull Manufacturing

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[www.trumbull-mfg.com](http://www.trumbull-mfg.com)

## Polyethylene Encasement Tubing

8 Mil Linear Low Density "POLYWRAP" for Ductile Iron Pipe



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

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'

Pipe Size	Layflat Width	Weight lbs./ft.	CONTINUOUS				Roll Length	PERFORATED every 20 FT.			PERFORATED every 22 FT.				Roll Length	
			BLACK	BLUE Water	GREEN Sewer	LAVENDER Reclaimed Water		BLACK	BLUE Water	Roll Length	BLACK	BLUE Water	GREEN Sewer	PURPLE Reclaimed Water		
			Item No	Item No	Item No	Item No**		Item No	Item No	Item No	Item No	Item No	Item No	Item No		Item No**
3"-6"	16"	0.106	----	----	----	----	300 ft.	388-9942	----	300 ft.	388-9976	----	----	----	308 ft.	2
3"-8"	20"	0.132	388-9989	388-8705	388-8755	388-8805	300 ft.	388-9943	388-8343	300 ft.	388-9961	388-8361	388-8461	388-8020	308 ft.	3
10"	24"	0.159	----	----	----	----	300 ft.	388-9945	----	300 ft.	388-9951	----	----	----	308 ft.	4
10"-12"	27"	0.179	388-9993	388-8710	388-8760	388-8810	300 ft.	388-9952	spec/ord.*	300 ft.	388-9962	388-8362	spec/ord.*	388-8021	308 ft.	4
14"-16"	34"	0.225	388-9996	388-8715	388-8765	388-8815	300 ft.	388-9955	spec/ord.*	300 ft.	388-9966	388-8366	388-8466	388-8022	308 ft.	6
16"-18"	37"	0.237	spec/ord.*	spec/ord.*	----	----	300 ft.	----	----	300 ft.	388-9967	spec/ord.*	----	----	308 ft.	7
18"-20"	41"	0.271	388-9998	388-8717	388-8767	388-8817	300 ft.	388-9957	spec/ord.*	300 ft.	388-9969	spec/ord.*	spec/ord.*	388-8023	308 ft.	7
24"	54"	0.358	388-9999	388-8720	388-8770	388-8820	150 ft.	388-9958	spec/ord.*	160 ft.	388-9970	spec/ord.*	388-8470	388-8024	154 ft.	8
30"	67"	0.444	388-9985	388-8780	388-8772	388-8825	150 ft.	spec/ord.*	spec/ord.*	160 ft.	388-9972	spec/ord.*	388-8472	spec/ord.*	154 ft.	10
36"-42"	81"	0.536	388-9986	388-8723	----	388-8828	150 ft.	388-9960	spec/ord.*	160 ft.	388-9974	spec/ord.*	388-8474	388-8026	154 ft.	15
48"	95"	0.629	388-9980	----	----	----	150 ft.	----	----	160 ft.	388-9975	----	----	----	154 ft.	17
54"-60"	108"	0.715	388-9982	----	----	----	150 ft.	----	----	160 ft.	388-9977	----	----	----	154 ft.	20
64"	121"	0.801	388-9984	----	----	----	150 ft.	----	----	160 ft.	----	----	----	----	154 ft.	21

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

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

**"Don't forget the Polywrap Tape!"**

(Shown on page D-2.)



## V-Bio® Enhanced Polyethylene Encasement

"Don't forget the Polywrap Tape!"

**TRUMBULL MANUFACTURING  
IS A DIPRA APPOINTED  
MASTER DISTRIBUTOR!**



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

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

### Blue V-Bio® Enhanced PE Encasement

Pipe Size	Layflat Width	Perf'd Every	Item No	Roll Length
3" - 8"	20"	22 ft.	<b>625-150-00305</b>	484 ft.
10" - 12"	27"	22 ft.	<b>625-150-00310</b>	374 ft.
16"	34"	22 ft.	<b>625-150-00315</b>	308 ft.
18" - 20"	41"	22 ft.	<b>625-150-00320</b>	264 ft.
24"	54"	22 ft.	<b>625-150-00325</b>	198 ft.
30"	67"	22 ft.	<b>625-150-00330</b>	154 ft.
36" - 42"	81"	22 ft.	<b>625-150-00335</b>	132 ft.
48"	95"	22 ft.	<b>625-150-00340</b>	110 ft.
54" - 60"	108"	22 ft.	<b>625-150-00300</b>	110 ft.

### Green V-Bio® Enhanced PE Encasement

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

### Lavender V-Bio® Enhanced PE Encasement

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

For continuous or perforated every 20', please inquire.

# TRUMBULL

## Trumbull Manufacturing

3850 Hendricks Road, Youngstown, Ohio 44515

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

[www.trumbull-mfg.com](http://www.trumbull-mfg.com)

## Other Polywrap

### Clear Polywrap 12 Mil

Pipe Size	Layflat Width	Perf'd Every	Item No	Roll Length
3" - 8"	20"	20 ft.	<b>388-8605</b>	200 ft.
10" - 14"	30"	20 ft.	<b>388-8610</b>	200 ft.

### Sanitary Sewer Polywrap

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

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



"Don't Forget the Polywrap Tape!"

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

Item No	Roll Size	Thickness	Weight
<b>364-9975</b>	2" x 100'	10 mil	1.00 lbs.

**GENERAL PURPOSE PE TAPE:** blue in color.

Item No	Roll Size	Thickness	Weight
<b>364-9976</b>	2" x 108'	9 mil	1.00 lbs.

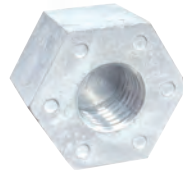
## Zinc Anode Caps

Sacrificial Zinc Anodes

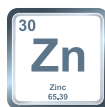


6 OZ.

2.5 OZ.



Reverse Side



Made from Special **HIGH GRADE ZINC**

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

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

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.

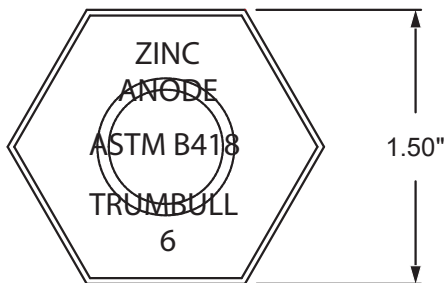


Material: High Grade Zinc  
 Conforms to chemical requirements of  
 ASTM B418-88, "Galvanic Zinc Anodes", and,  
 U.S. Navy Specification, Mil-18001 H

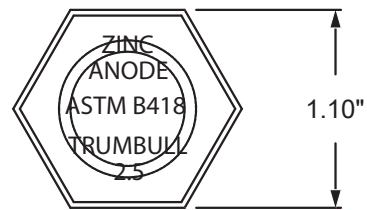
Galvanic Corrosion Chart	
Metal Type	Volts
Zinc (Mil Spec Anodes)	-1.1
Commercially pure aluminum	-0.8
Mild steel, clean	-0.5 to -0.8
Mild steel, rusted	-0.2 to -0.5
Cast iron	-0.5
Lead	-0.5
Mild steel, in concrete	-0.2
Copper, brass, bronze	-0.2
High silicon cast iron	-0.2

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

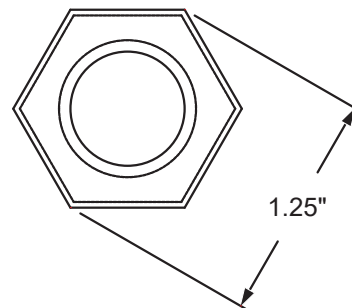
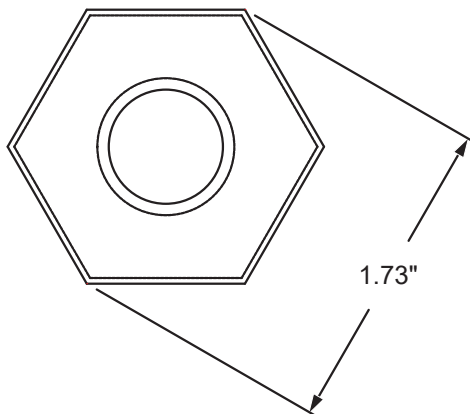
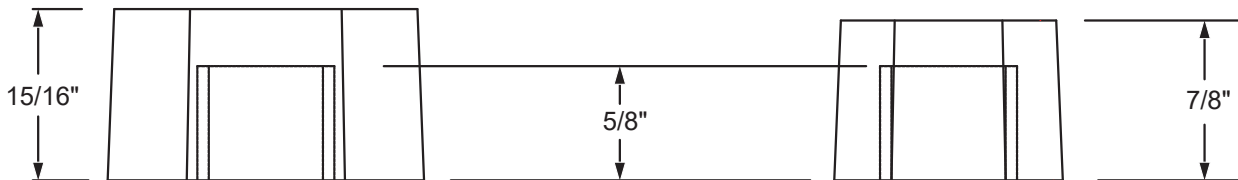
Large Anode Cap  
6 ounces



Small Anode Cap  
2-1/2 ounces



2° Taper, typical



**ZINC ANODE CAPS**  
 Drawn to Scale

Drawn:  
 FCN  
 06/28/94

Revision:  
 FCN  
 (J) 09/26/18

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



## 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

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

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



## Detectable Warning Tapes - Other Lengths

### Detectable Warning Tapes - Other Lengths

Color and Marking	3" x 300'	3" x 500'	6" x 100'	6" x 300'	6" x 500'
	Item №	Item №	Item №	Item №	Item №
<b>WATER LINE</b>	100-600-00320	----	----	100-600-00340	----
<b>SEWER LINE</b>	----	----	100-600-00330	100-600-00345	----
<b>CAUTION</b>	----	----	----	----	100-600-00350
<b>DANGER</b>	----	100-600-00325	----	----	----
<b>RESTRAINT JOINT WATER</b>	----	----	100-600-00335	----	----

## Non-Detectable Warning Tapes

Used for Identifying Buried Pipes when Digging



### Non-Detectable Warning Tapes - 1,000 ft Rolls

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

## Mechanical Joint Accessories

### T-Head Bolts and Nuts

Size	Corten	304SS	316SS	Blue
	Item No	Item No	Item No	Item No
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

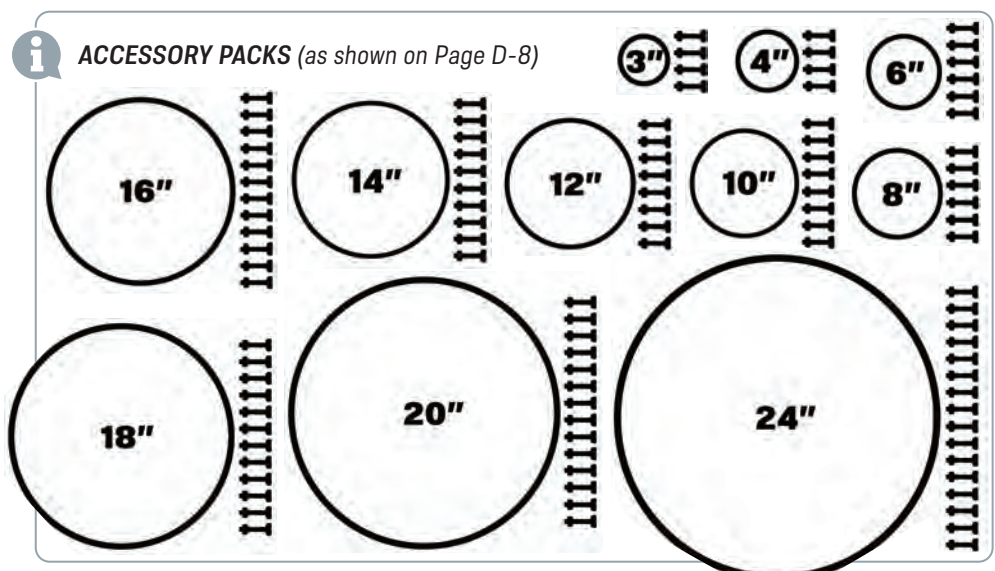
### Anti-Rotation T-Head Bolts and Nuts

SQUARE NECK

Size	Corten	304SS	316SS	Blue
	Item No	Item No	Item No	Item No
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 No
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





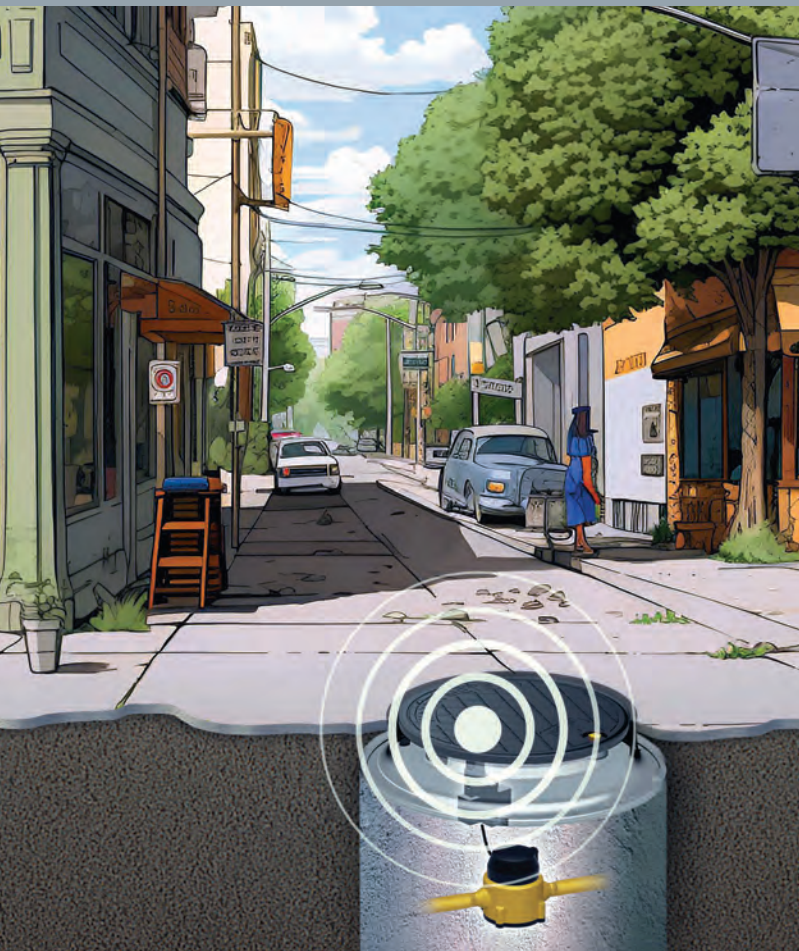
## Mechanical Joint Accessory Packs WITHOUT GLAND

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



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

Radio-Friendly.



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

Amazingly Strong. Surprisingly Light.™



Contact us at...  
**877.504.1507**  
[trumbull-mfg.com](http://trumbull-mfg.com)







# Trumbull Manufacturing

3850 Hendricks Road, Youngstown, Ohio 44515

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

[www.trumbull-mfg.com](http://www.trumbull-mfg.com)

## COMPOSITE and POLYMER Meter Box Lids

Allow Radio Signals to be Read in AMR and AMI Systems

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

**SLIP-RESISTANT SURFACE**  
ADA Compliant

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

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

**COMPOSITE**  
COMPRESSION MOLDED

**POLYMER**  
INJECTION MOLDED

**UV RESISTANT**

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

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

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

**PENTAGON BOLT**  
square shank

**DUCTILE WORM GEAR ASSEMBLY**

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

**ALSO AVAILABLE:**

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

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



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## POLYMER Meter Pit Frames

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

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

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



**TYPE-A FRAME**

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

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

**TYPE-C FRAME**



**CAN BE USED WITH MOST COMMON  
METER PITS USED TODAY.**

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

### BOTTOM VIEW



**i** Add a magnet  
for locating.

\* Excluding Old Castle (15")  
Consult Trumbull for load ratings,  
which are based on pit size.

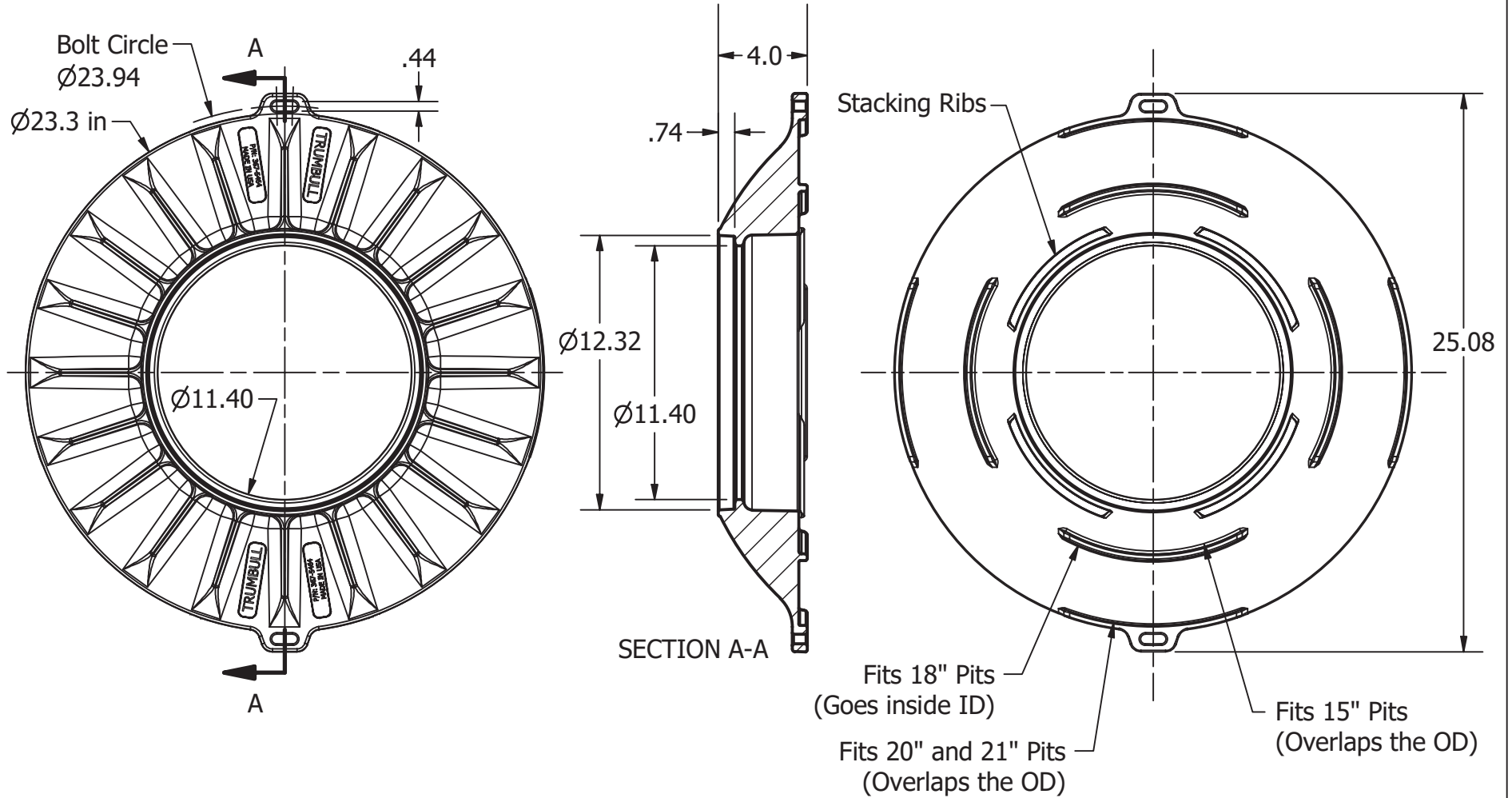
Fits  
minimum  
17.438" ID

Fits  
maximum  
22.50" OD



**Notes:**

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



**12.25" Polymer Frame**  
 (11.4" Clear Opening)  
 Drawn to Scale

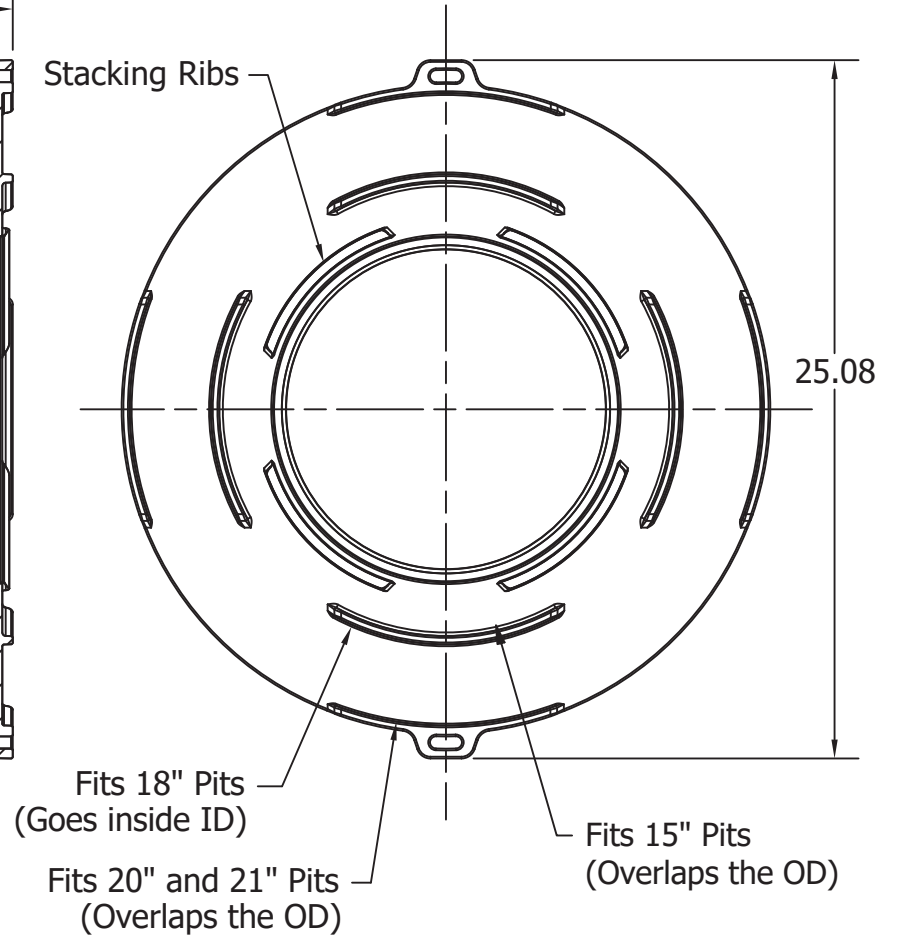
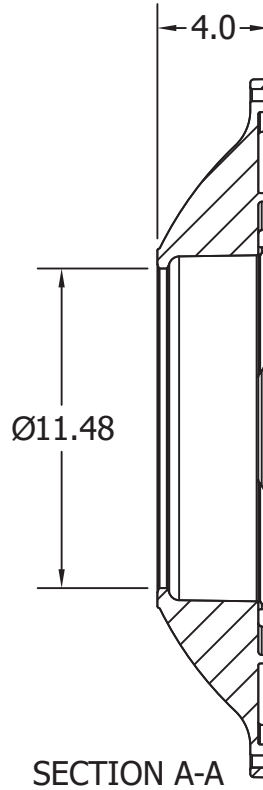
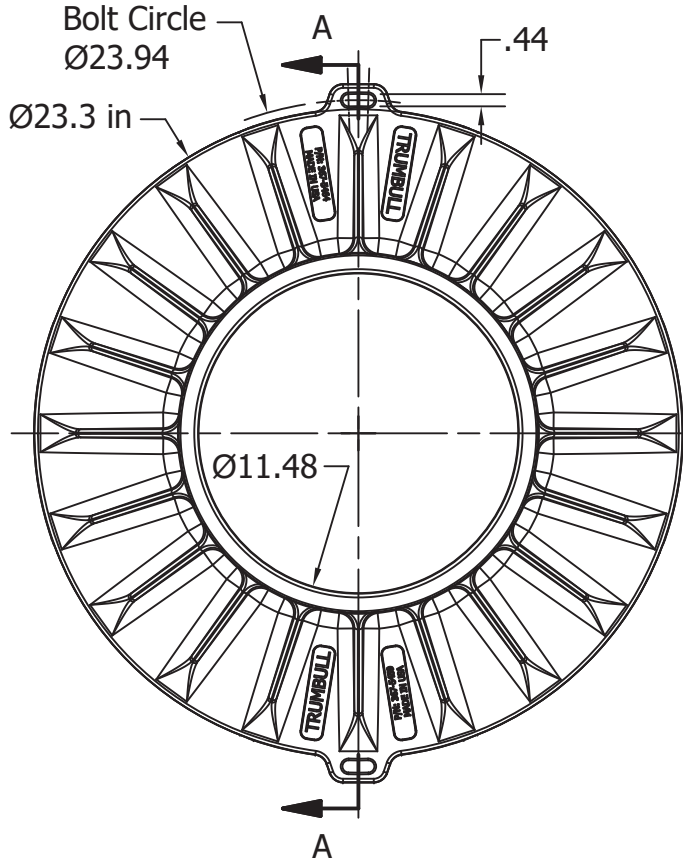
Drawn:  
 BJE  
 01/03/20

Revision:  
 BJE  
 11/16/21

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

**Notes:**

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



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

Drawn:  
NJC  
10/09/20

Revision:  
NJC  
11/19/21

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





## Trumbull Manufacturing

3850 Hendricks Road, Youngstown, Ohio 44515

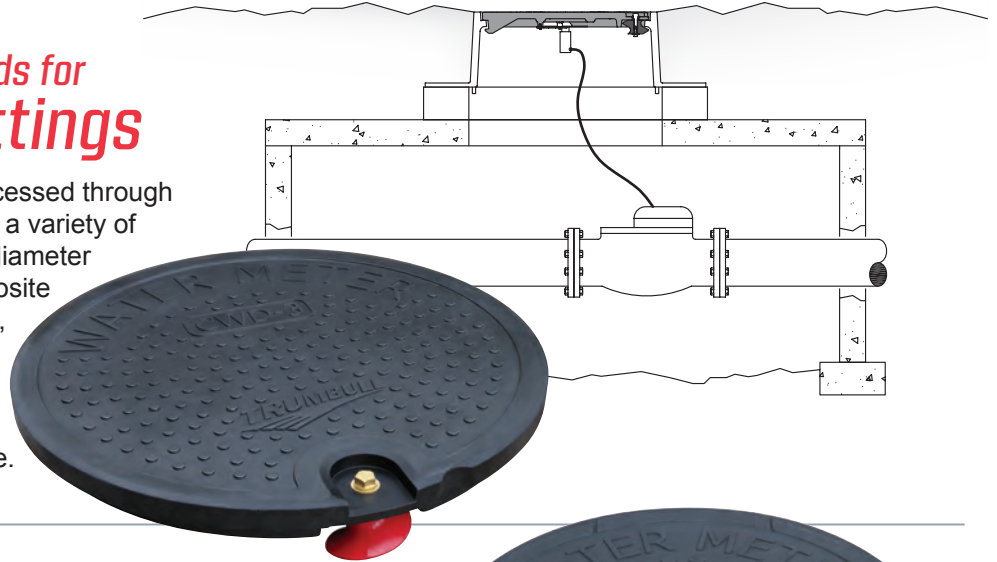
Phone: 330.270.7888 | Toll Free: 877.504.1507 | Fax: 330.392.0756

[www.trumbull-mfg.com](http://www.trumbull-mfg.com)

### COMPOSITE Manhole Lids for Large Meter Settings

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

Custom lettering and graphics available.

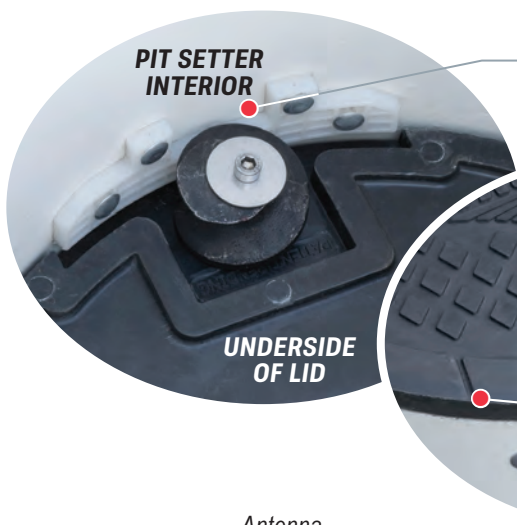


### COMPOSITE Lids for Coiled Pit Setters

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



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



PIT SETTER INTERIOR

UNDERSIDE OF LID

**RECESSES ON UNDERSIDE**  
allow lid to drop into lockable position

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

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

**US Patent No. 9,350,148**

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

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



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## COUNTERBORES FOR THROUGH-THE-LID ANTENNA MOUNTING



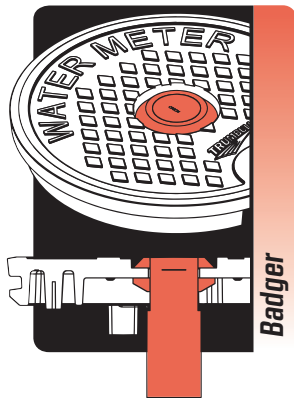
Drilling holes in existing cast iron lids may save money in the short run. However, most iron lids do not have the thickness for a counterbore. If lids are simply drilled without a counterbore, the result is a trip hazard. Drilling iron lids in the field frequently results in cracks in the lid.

### Solution:

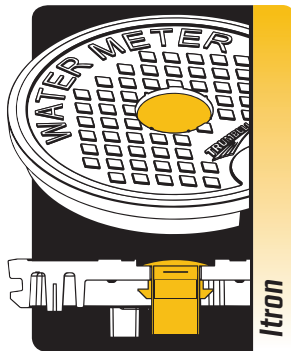
Our lids feature a molded **COUNTERBORE** allowing recessed installation of antenna to eliminate trip hazard or damage.



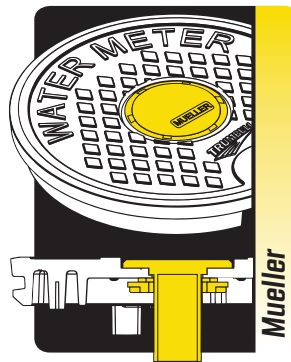
### COUNTERBORE OPTIONS



Badger



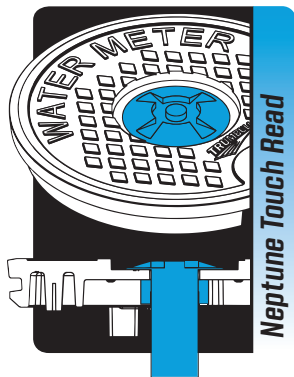
Itron



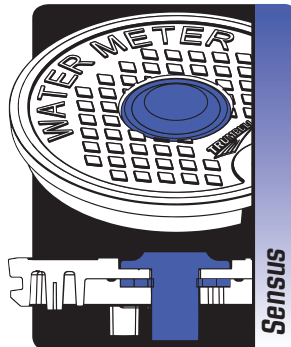
Mueller



Neptune Radio Read



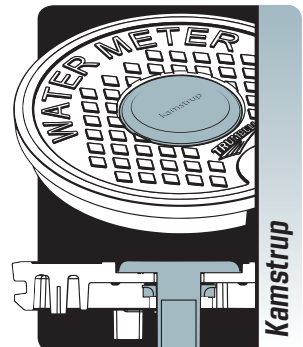
Neptune Touch Read



Sensus



Zenner



Kamstrup

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

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



**NEPTUNE COUNTERBORES**



**Easy Transition**  
 of Neptune Antennas

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



**BLUE COLOR LIDS**

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



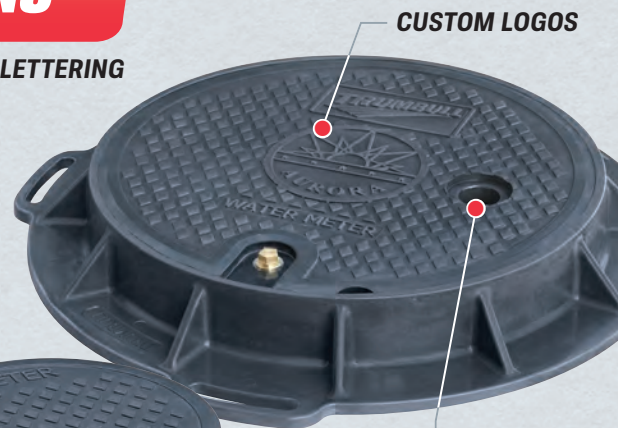
**CUSTOM LID OPTIONS**



CUSTOM LETTERING

SECURITY BOLTS  
 (see page 40)

CUSTOM  
 SHAPES



CUSTOM LOGOS

COUNTERBORES  
 (see page 7)

Composite frames are shown on pages 41 - 44.

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



**ANTENNA MOUNTING**

**Itron Riva  
 500W Post  
 Adapter**

US Patent No.  
 D842,085

**Badger  
 LTE Post  
 Adapter**

**Itron  
 100W  
 Post  
 Adapter**

**Single Slot  
 Retainer  
 Bracket\***

**Aclara posts  
 allow Aclara MTU  
 to be mounted directly  
 with two stainless  
 steel screws**

**Badger LTE  
 endpoint with  
 Trumbull Retainer  
 Bracket\* & Badger  
 through-the-lid  
 adapter**

**For a variety of  
 ENDPOINTS**

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





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### LID FASTENING STYLES

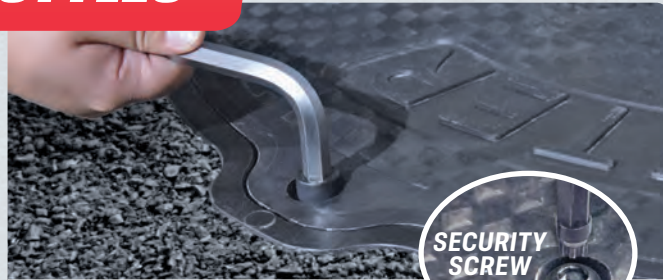
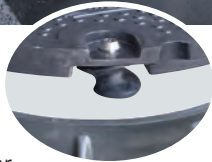


UNDERSIDE OF FRAME

UNDERSIDE OF LID

#### Worm Gear

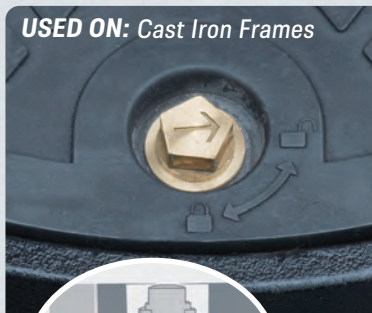
Worm gear locks to shelf on frame. Cast iron or polymer.



SECURITY SCREW

#### Bolt-Down Style

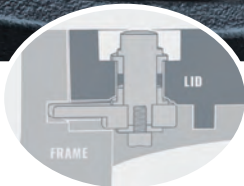
Our Frame and Cover Assemblies have threaded inserts in the frame to accept stainless screws (see page 31 & 33) or optional security screws (see page 40).



USED ON: Cast Iron Frames

OPEN

LOCKED



USED ON: Matching Composite Frames and Covers

OPEN

LOCKED

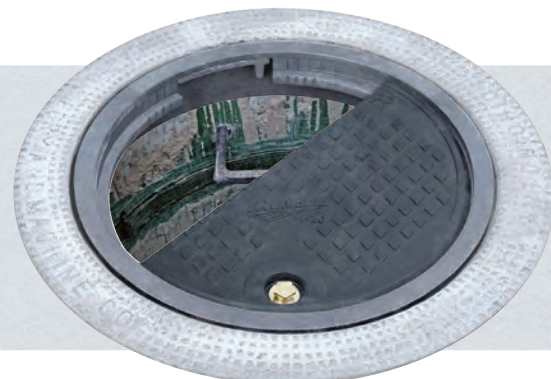
#### Quarter-Turn Double Paddle Lock Style

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

### REDUCING RINGS

#### Fabricated Reducing Rings

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



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





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# Composite Oval Remote Antenna Box

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

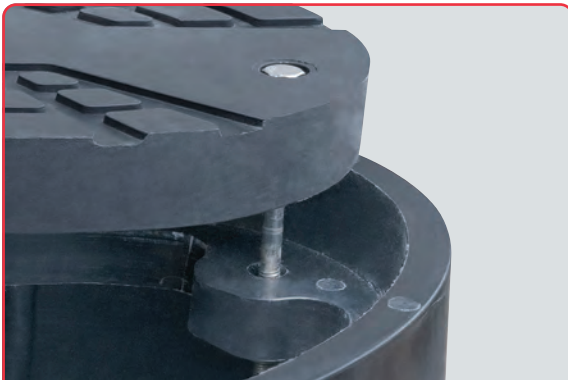


VAULT WITH REMOTE ANTENNA BOX.

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

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

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



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

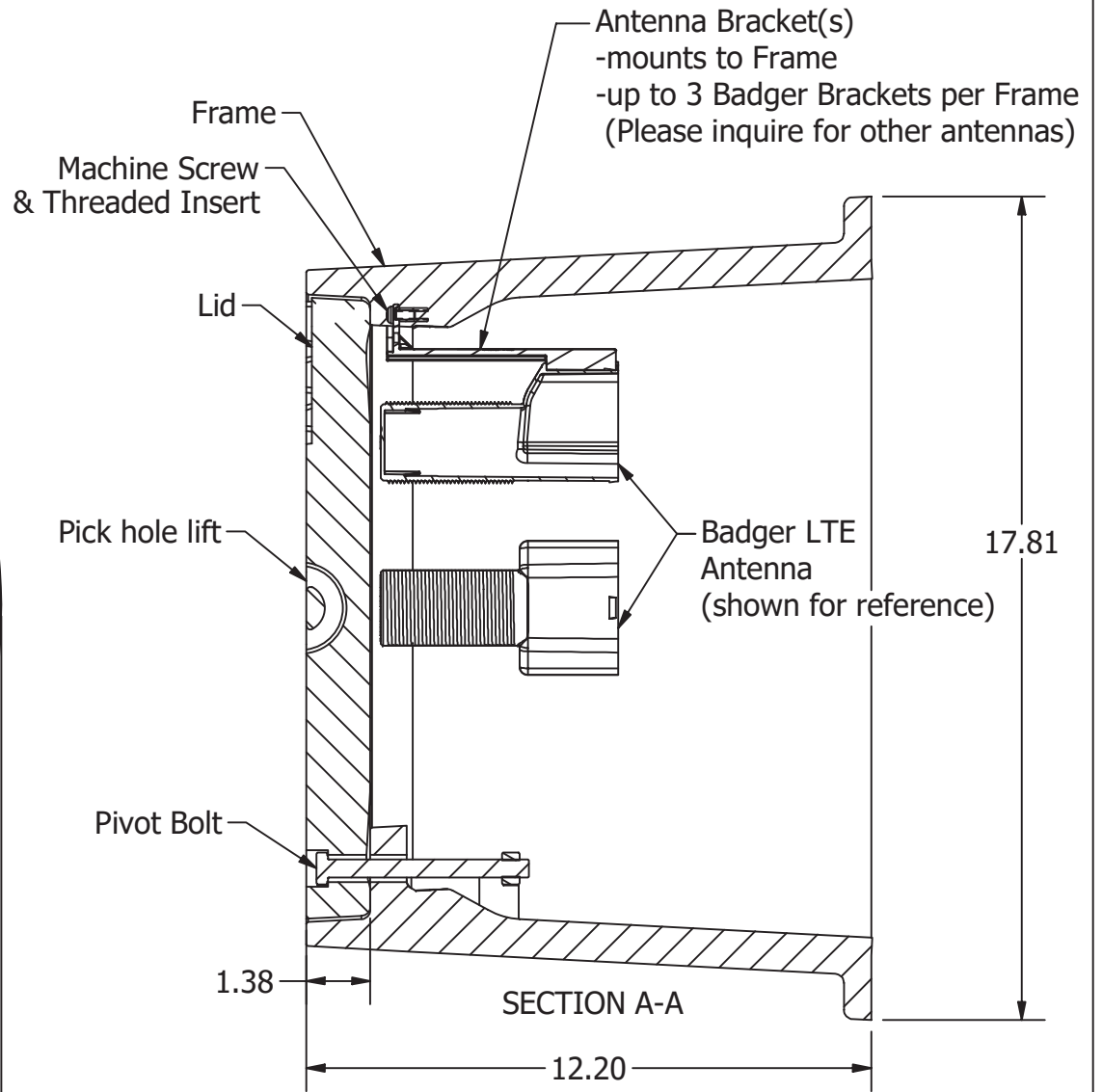
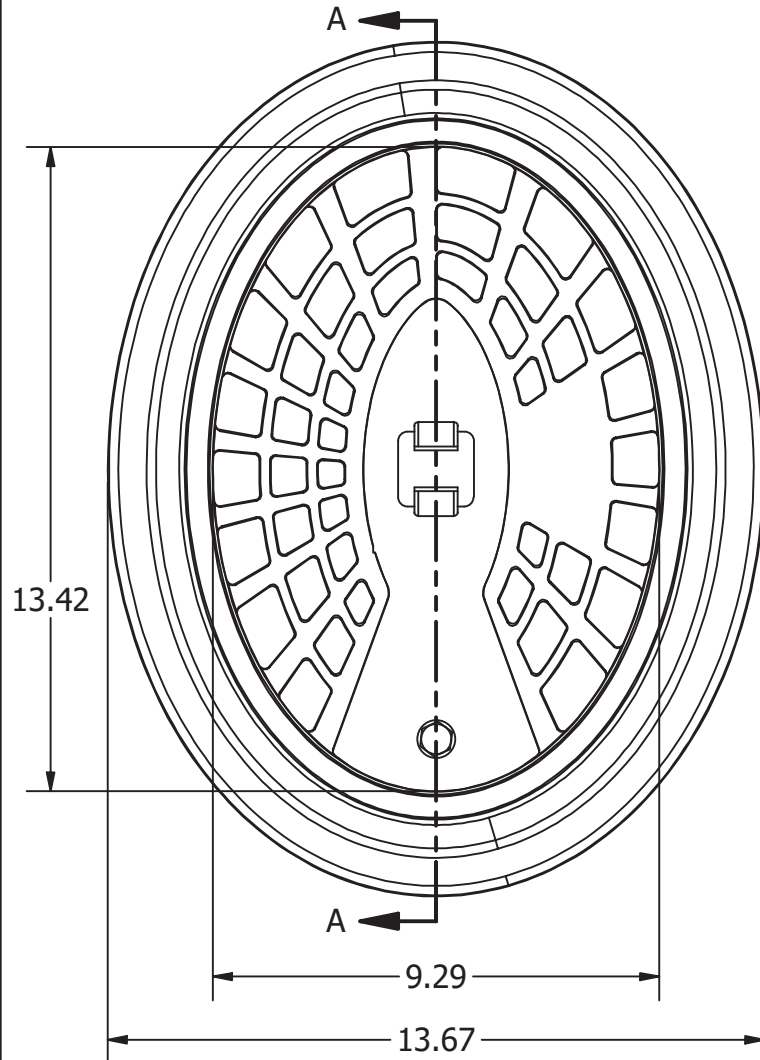
**ADAPTER RECESSES**  
allow up to 3 Badger adapters to be mounted below the lid



LID CLOSSES FLUSH WITH TOP EDGE OF BOX.

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.

Solid Lid part number: 367-8920  
 1 hole (Badger) Lid part number: 367-8923  
 2 holes (Badger) Lid part number: 367-8922  
 3 holes (Badger) Lid part number: 367-8921  
 Please inquire for other hole/antenna sizes



Load Rating: 40,000 lbs.

**Notes:**

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

**Oval Remote Antenna Box**

Drawn to Scale

Drawn:  
 BJE  
 01/07/20

Original Document

**Trumbull Manufacturing**

Youngstown, Ohio  
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## 10" x 6.5" Polymer Yokebox Lids

Allows Radio Signals to be Read in AMR and AMI Systems

**HAND KEY**  
purchased separately



**ANTENNA HOLE** for through-the-lid antennas  
**THROUGH HOLE** for other TTL adapters

**SLIDING LOCK:** shown in closed position shown in open position

Made to fit inside Ford and A Y McDonald Yokeboxes. Post on underside accommodates our Single Slot Retainer Bracket and Post Adapters. Counterbores also available for through-the-lid antenna mounting. Sliding lock mechanism provided in Nylon as standard, but also available in brass, please inquire. All other hardware is stainless steel.

### Yokebox Lids

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

### Yokebox Lids Accessories



#### Hand Key

Item No	Weight
<b>367-4334</b>	0.40 lbs.

#### Single Slot Retainer Bracket

Details shown on page 9

Item No	Weight
<b>367-5782</b>	0.05 lbs.

### THROUGH-THE-LID ANTENNAS/ADAPTERS

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

### SINGLE SLOT RETAINER BRACKET (FOR SOLID LIDS)

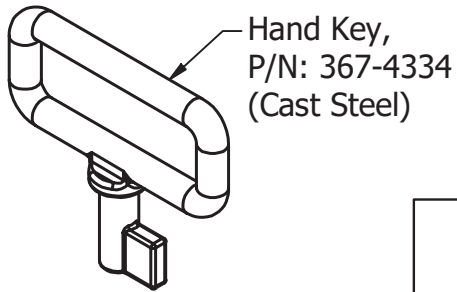
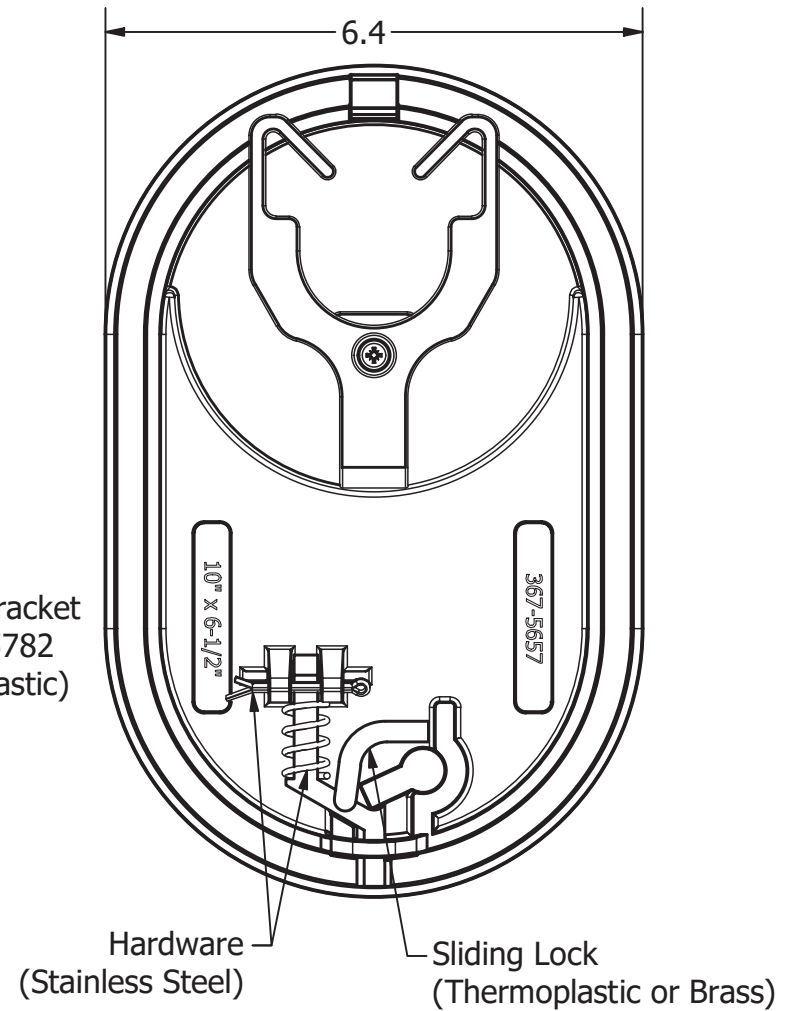
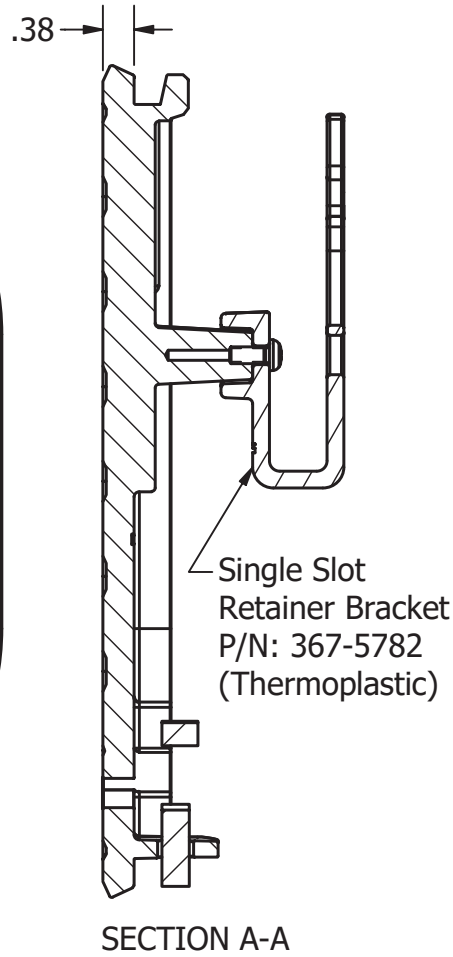
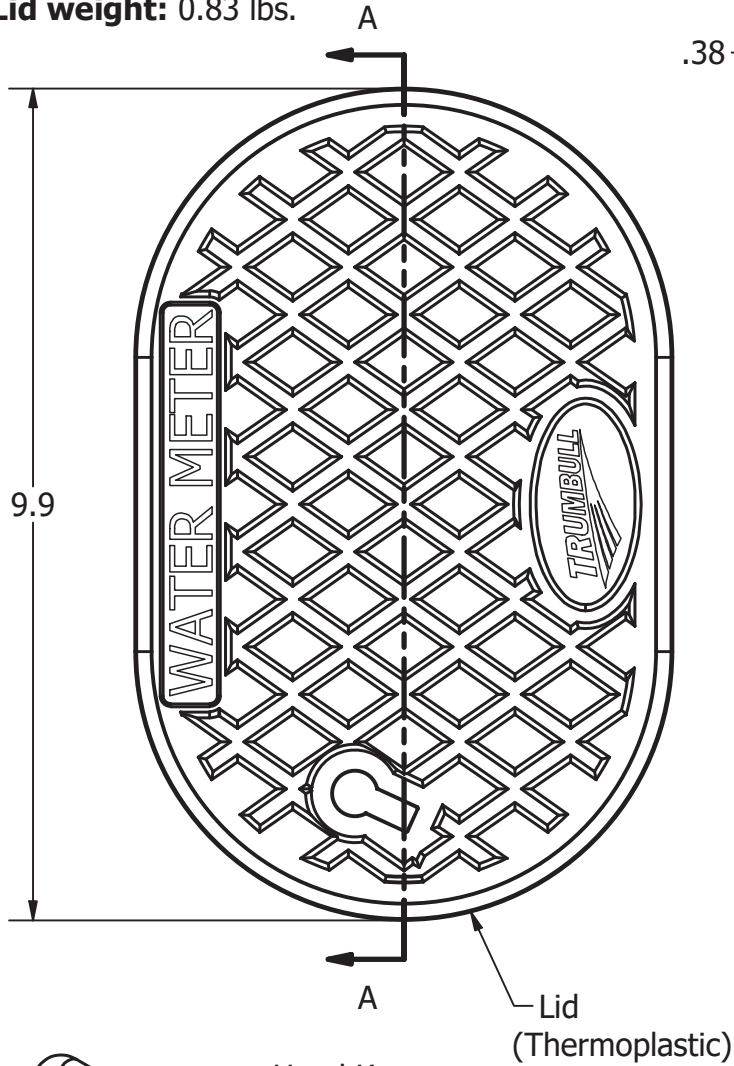
	5" UPPER YOKEBOX	8" UPPER YOKEBOX	10" UPPER YOKEBOX
BADGER	✗	✓	✓
ITRON RIVA 500W	✗	✓	✓
ITRON 100W	✗	✗	✓
MUELLER	✗	✗	✗
SENSUS	✗	✗	✓
NEPTUNE	✗	✓	✓
KAMSTRUP	✗	✓	✓

### POST ADAPTER (FOR SOLID LIDS)

	5" UPPER YOKEBOX	8" UPPER YOKEBOX	10" UPPER YOKEBOX
BADGER	✗	✓	✓
ITRON RIVA 500W	✗	✓	✓
ITRON 100W	✗	✗	✓

Lid weight: 0.83 lbs.

Lid part number: 367-5657



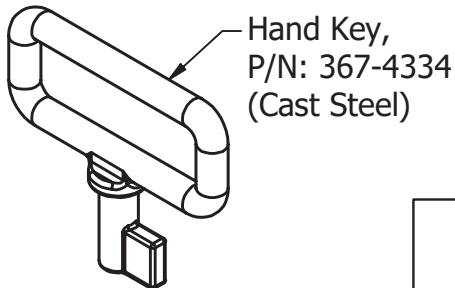
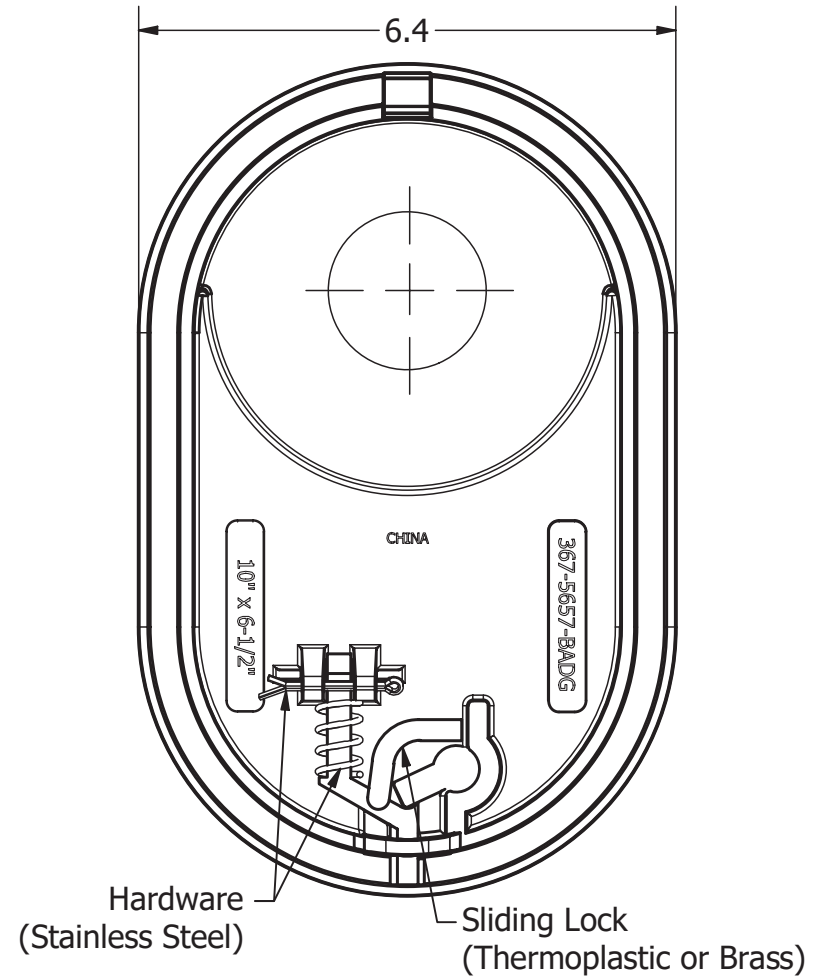
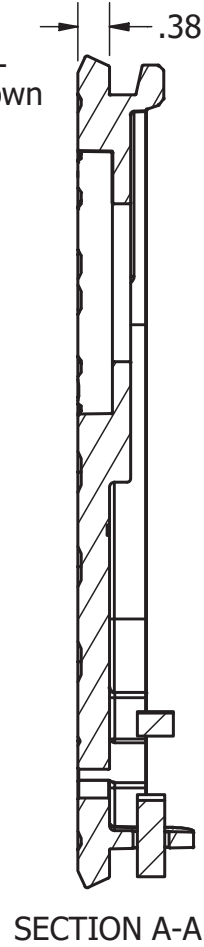
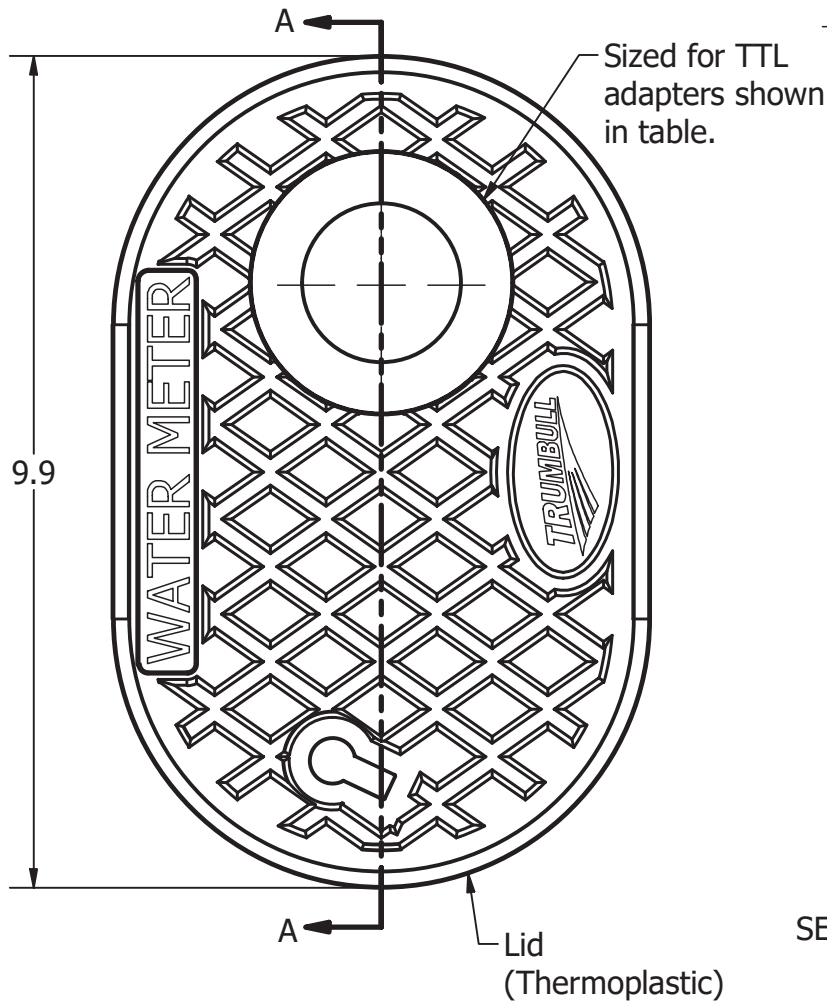
10" x 6.5" Yokebox Lid, Solid  
(Non-traffic)  
Drawn to Scale

Drawn:  
BJE  
08/06/21

Original Document

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





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

10" x 6.5" Yokebox Lid, 1 Hole  
 (Non-traffic)  
 Drawn to Scale

Drawn:  
 BJE  
 08/10/21

Original Document

**Trumbull Manufacturing**  
 Youngstown, Ohio  
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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

**i** For larger sizes not shown, please inquire



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

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

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







# Manhole and Meter Pit Lid FIELD SURVEY FORM

NOTE: All dimensions to be taken from frame

## Customer Information

Name \_\_\_\_\_  
 Company \_\_\_\_\_  
 Project Location \_\_\_\_\_  
 Email \_\_\_\_\_  
 Phone \_\_\_\_\_

## Frame Manufacturer Information

Frame Make & Model No. \_\_\_\_\_  
 Lid Make & Model No. \_\_\_\_\_  
 Lettering On Lid \_\_\_\_\_

## New Cover Details

### LETTERING

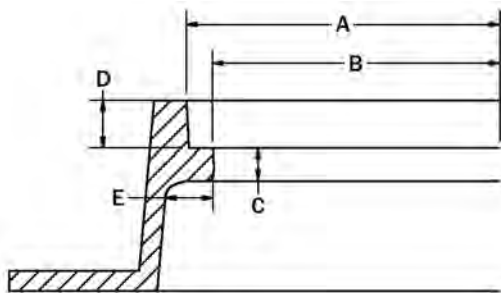
"SANITARY SEWER"  
 "WATER METER"  
 Other \_\_\_\_\_

### LOAD RATING REQUIRED

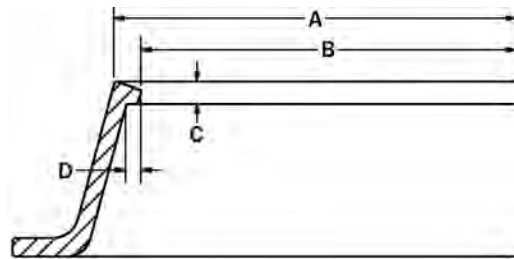
Heavy Duty AASHTO M306, H-20; 40,000 lbs.  
 Medium Duty; 20,000 lbs.  
 Light Duty; 5,000 lbs.

### AMI/AMR Antenna & Leak Detection Mounting

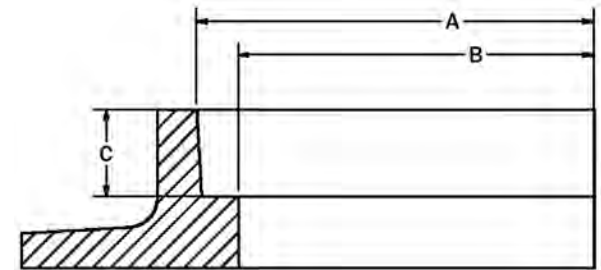
Bracket mounting on underside  
 Through-the-lid, flush with grade  
 Mfg & model of endpoint \_\_\_\_\_



**Inset Style**



**Overlapping Style**



**Straight Wall ID Style**

Lid Style	Address	A	B	C	D	E



Composite and Polymer Lids

**"WATER METER"**

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

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

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

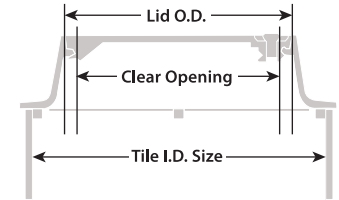
**WORM GEARS:** Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

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

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

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

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



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

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





Composite and Polymer Lids

## "WATER METER"

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

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

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

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

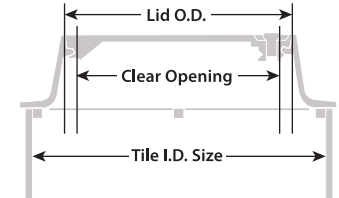
**LETTERING:** Lids normally furnished marked "WATER METER", special lettering available.

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

**BEARING WASHERS:** Polymer lids have UHMWPE bearing washers above and below lid.

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

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



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

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



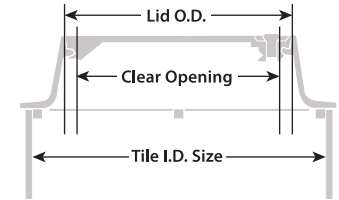
Composite and Polymer Lids

**"WATER METER"**

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

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

**PENTAGON BOLTS:** Water meter lids are normally furnished with standard (27/32") brass pentagon bolt, but are also available with large (1-1/32") brass pentagon bolt. Not furnished on drop-in style lids.  
**WORM GEARS:** Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.  
**LETTERING:** Lids normally furnished marked "WATER METER", special lettering available.  
**RECESSES:** All lids with antenna recesses have thru hole diameter of 1.88".  
**BEARING WASHERS:** Polymer lids have UHMWPE bearing washers above and below lid. Composite Lids include a brass bearing washer below the lid and brass flanged sleeve (protects hole from elongation) above the lid. Not furnished on drop-in style lids.  
**ADDITIONAL NOTES:** Explanations for asterisk (\*) and (\*) points shown on page 46.



LID DIMENSIONS, LOAD RATINGS, TYPES AND MATERIALS		FITS FRAME TYPES	SOLID LID No Antenna Recess	BADGER Antenna Recess Ø 3.13" x 0.41" dp	ITRON 60W, 100W, RIVA Antenna Recess Ø 2.84" x 0.26" dp	KAMSTRUP Antenna Recess Ø 5.06" x 0.50" dp	MUELLER Antenna Recess Ø 3.36" x 0.33" dp	NEPTUNE** (FIGURE 8) Antenna Recess Ø 4.63" x 0.43" dp	SENSUS OR ZENNER Antenna Recess Ø 4.11" x 0.41" dp
12-1/4" OD Clear Opening: 11-1/2" Rim Thickness: 0.7"	40,000 lbs. / Composite DUCTILE IRON WORM GEAR Solid Lids* or with 1 Antenna Recess	Ford A and C AY McDonald type A	367-5518 Available w/out Logo 367-5517 (40K) 9.54 lbs.	367-5591 9.00 lbs.	367-5519 9.01 lbs.	----	----	367-5593 8.70 lbs.	367-5592 8.71 lbs.
12-3/4" OD Clear Opening: 11-5/8" Rim Thickness: 3/8" "NEWPORT NEWS WATERWORKS"	Non-Traffic / Polymer NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	Newport News Meter Box No. 2 and Capital Foundry	4946-TMI Also available w/out NN Lettering (Non-Traffic) 2.20 lbs.	----	----	----	4945-TMI Also available w/out NN Lettering (Non-Traffic) 2.20 lbs.	----	----
12.438" OD Clear Opening: 11" Rim Thickness: 0.65"	Non-Traffic / Polymer DROP-IN STYLE Solid Lids* or with 1 Antenna Recess	American Foundry, and misc.	367-5719 3.30 lbs. 250 pcs min	367-5721 3.10 lbs. 250 pcs min	367-5722 3.10 lbs. 250 pcs min	----	367-5723 2.90 lbs. 250 pcs min	367-5724 2.90 lbs. 250 pcs min	367-5725 3.00 lbs. 250 pcs min
12.438" OD Clear Opening: 11" Rim Thickness: 0.65"	20,000 lbs. / Polymer DROP-IN STYLE Solid Lid* Only	MO American	367-5720 3.30 lbs. 250 pcs min	----	----	----	----	----	----
12-5/8" OD Clear Opening: 11-1/2" Rim Thickness: 9/16"	Non-Traffic / Polymer NYLON WORM GEAR Solid Lid* or Machined Recess	Ford, AY McD, Vestal and B&T Type C and Baltimore	367-5769 3.08 lbs. 500 pcs min	----	----	----	----	----	----
12-5/8" OD Clear Opening: 11-1/2" Rim Thickness: 9/16"	20,000 lbs. / Polymer NYLON WORM GEAR Solid Lid* or Machined Recess	Ford, AY McD, Vestal and B&T Type C and Baltimore	367-5767 3.08 lbs.	----	----	----	----	----	----

Antenna recesses can be machined in the lid, charges may apply.

Antenna recesses can be machined in the lid, charges may apply.  
Load ratings may vary depending on its size.

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



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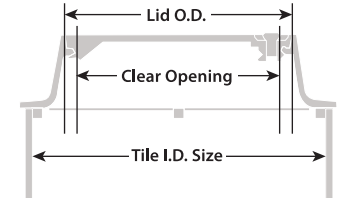
**WORM GEARS:** Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

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

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

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



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

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





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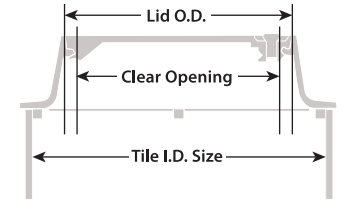
**WORM GEARS:** Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

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

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

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



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

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



Composite and Polymer Lids

**"WATER METER"**

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

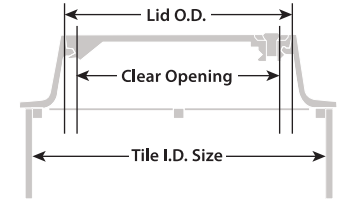
**WORM GEARS:** Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

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

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

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



LID DIMENSIONS, LOAD RATINGS, TYPES AND MATERIALS		FITS FRAME TYPES	SOLID LID No Antenna Recess	BADGER Antenna Recess Ø 3.13" x 0.41" dp	ITRON 60W, 100W, RIVA Antenna Recess Ø 2.84" x 0.26" dp	KAMSTRUP Antenna Recess Ø 5.06" x 0.50" dp	MUELLER Antenna Recess Ø 3.36" x 0.33" dp	NEPTUNE** (FIGURE 8) Antenna Recess Ø 4.63" x 0.43" dp	SENSUS OR ZENNER Antenna Recess Ø 4.11" x 0.41" dp
19.35" OD 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	367-5590-2ITRON 5.87 lbs. 200 pcs min	367-5590-2KAMS 5.39 lbs. 200 pcs min	367-5590-2MUEL 5.80 lbs. 200 pcs min	367-5590-2NEPT 5.54 lbs. 200 pcs min	367-5590-2SENS 5.66 lbs. 200 pcs min
19-3/4" OD Clear Opening: 18" Rim Thickness: 2-3/16"	40,000 lbs. / Composite DOUBLE PADDLE LOCK (DI) Solid Lids* Only	EJ 1525* Nenah R-1566* Baltimore	367-5688 33.00 lbs.	----	----	----	----	----	----
19-13/16" OD Clear Opening: 18-1/2" Rim Thickness: 1" "CWD-2"	40,000 lbs. / Composite DUCTILE IRON WORM GEAR Solid Lids* Only	EJ 2990 Nenah R-1892	367-5631 28.30 lbs.	----	----	----	----	----	----
21-3/16" OD Clear Opening: 20" Rim Thickness: 0.77"	Non-Traffic / Polymer NYLON WORM GEAR Solid Lids* or with 1 Antenna Recess	Ford and AY McDonald Monitor Covers and Pit Rings	367-5605 10.91 lbs.	367-5605-BADG 10.81 lbs.	367-5605-ITRON 10.77 lbs.	367-5605-KAMS 10.57 lbs.	367-5605-MUEL 10.79 lbs.	367-5605-NEPT 10.63 lbs.	367-5605-SENS 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.	----	----	----	----	----	----

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



Composite and Polymer Lids

**"WATER METER"**

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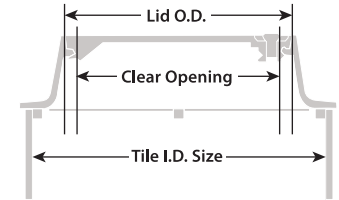
**WORM GEARS:** Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

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

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

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





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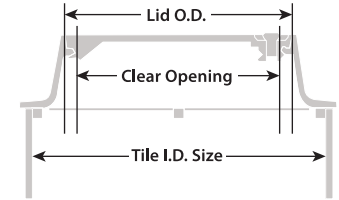
**WORM GEARS:** Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

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

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

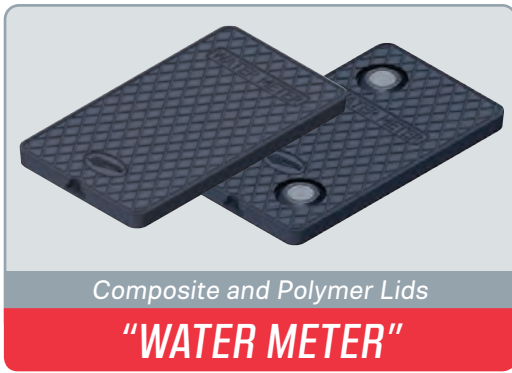
**BEARING WASHERS:** Polymer lids have UHMWPE bearing washers above and below lid. Composite Lids include a brass bearing washer below the lid and brass flanged sleeve (protects hole from elongation) above the lid. Not furnished on drop-in style lids.

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



LID DIMENSIONS, LOAD RATINGS, TYPES AND MATERIALS		FITS FRAME TYPES	SOLID LID No Antenna Recess	BADGER Antenna Recess Ø 3.13" x 0.41" dp	ITRON 60W, 100W, RIVA Antenna Recess Ø 2.84" x 0.26" dp	KAMSTRUP Antenna Recess Ø 5.06" x 0.50" dp	MUELLER Antenna Recess Ø 3.36" x 0.33" dp	NEPTUNE** (FIGURE 8) Antenna Recess Ø 4.63" x 0.43" dp	SENSUS OR ZENNER Antenna Recess Ø 4.11" x 0.41" dp
24" OD Clear Opening: 19" Rim Thickness: 0.56"	Non-Traffic / Polymer DROP-IN STYLE Solid Lids* or with 1 Antenna Recess	Flat Lid for 20" and 21" Plastic Pit	367-5597 8.57 lbs.	367-5597-BADG 8.22 lbs.	367-5597-ITRON 8.25 lbs.	367-5597-KAMS 8.00 lbs.	367-5597-MUEL 8.22 lbs.	367-5597-NEPT 8.09 lbs.	367-5597-SENS 8.15 lbs.
24" OD Clear Opening: 19" Rim Thickness: 0.56"	Non-Traffic / Polymer DROP-IN STYLE 2 Antenna Recesses	Flat Lid for 20" and 21" Plastic Pit	----	367-5597-2BADG 8.31 lbs.	367-5597-2ITRON 8.38 lbs.	367-5597-2KAMS 7.90 lbs.	367-5597-2MUEL 8.32 lbs.	367-5597-2NEPT 8.05 lbs.	367-5597-2SENS 8.17 lbs.
24-3/16" OD Clear Opening: 21" Rim Thickness: 3" "WSNY"	40,000 lbs. / Composite DUCTILE IRON WORM GEAR Solid Lids* Only T316SS Pentagon Bolt	NYC	5218-TMI 60.50 lbs.	----	----	----	----	----	----
25-1/4" OD Clear Opening: 22-3/4" Rim Thickness: 2"	40,000 lbs. / Composite DUCTILE IRON WORM GEAR Solid Lids* Only	EJ 1700	367-5685 63.50 lbs.	----	----	----	----	----	----
25-3/4" OD Clear Opening: 24" Rim Thickness: 2-1/2"	40,000 lbs. / Composite DOUBLE PADDLE LOCK (DI) Solid Lids* Only	EJ 1543/1545 * Neenah R-1565 * Baltimore	367-5698 64.00 lbs.	----	----	----	----	----	----
25-1/2" OD Clear Opening: 24-3/16" Rim Thickness: 1-1/4" "CWD"	40,000 lbs. / Composite DUCTILE IRON WORM GEAR *** Solid Lids* Only	EJ 1040, 1045, 1048 and 1705	367-5527 54.00 lbs.	----	----	----	----	----	----

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



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

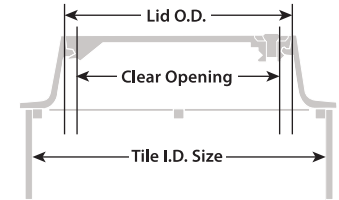
**WORM GEARS:** Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

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

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

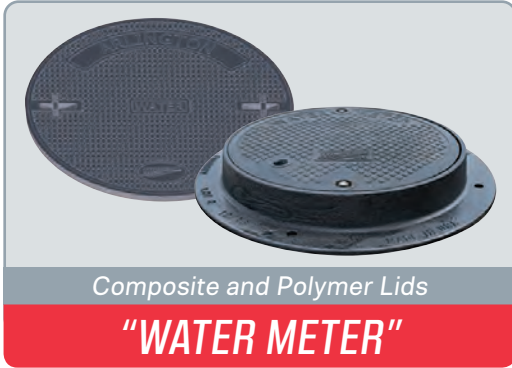
**BEARING WASHERS:** Polymer lids have UHMWPE bearing washers above and below lid. Composite Lids include a brass bearing washer below the lid and brass flanged sleeve (protects hole from elongation) above the lid. Not furnished on drop-in style lids.

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



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

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



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

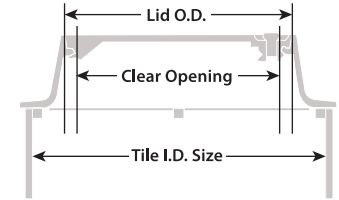
**WORM GEARS:** Non-traffic and 20,000 lbs. lids normally furnished with nylon worm gear, ductile iron also available at additional cost. 40,000 lbs. lids normally furnished with ductile worm gears. Not furnished on drop-in style lids.

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

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

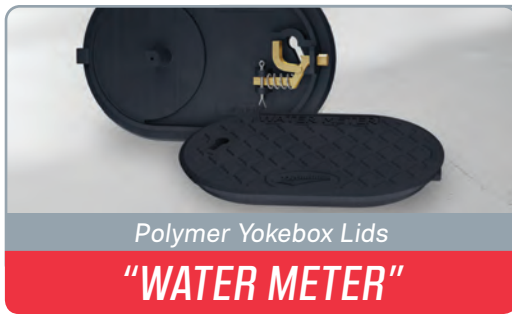
**BEARING WASHERS:** Polymer lids have UHMWPE bearing washers above and below lid. Composite Lids include a brass bearing washer below the lid and brass flanged sleeve (protects hole from elongation) above the lid. Not furnished on drop-in style lids.

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



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

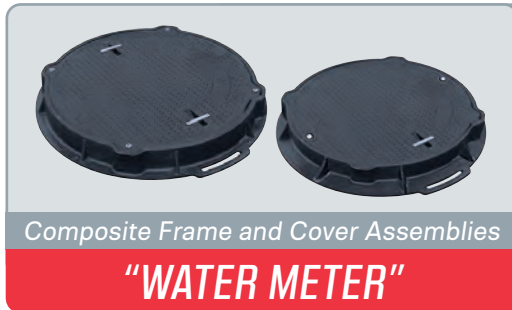
**Single Slot Retainer Bracket**  
**367-5782**

Polymer Yokebox Lids

**"WATER METER"**

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

LID DIMENSIONS, LOAD RATINGS, TYPES AND MATERIALS		FITS FRAME TYPES	SOLID LID No Antenna Recess	BADGER Antenna Recess Ø 3.13" x 0.41" dp	ITRON 60W, 100W, RIVA Antenna Recess Ø 2.84" x 0.26" dp	MUELLER Antenna Recess Ø 3.36" x 0.33" dp	SENSUS OR ZENNER Antenna Recess Ø 4.11" x 0.41" dp	FOR "OTHER" TTL ADAPTERS NOT SHOWN Ø 1.88" Through Hole
10" x 6-1/2" Clear Opening: 9.10" x 5.63" Rim Thickness: 0.38"	Non-Traffic / Polymer SLIDING LOCK Solid Lids* or with 1 Antenna Recess	Ford and AY McDonald Yokeboxes	<b>367-5657</b> 0.83 lbs.	<b>367-5657-BADG</b> 0.76 lbs. 500 pcs min	<b>367-5657-ITRON</b> 0.80 lbs. 500 pcs min	<b>367-5657-MUEL</b> 0.76 lbs. 500 pcs min	<b>367-5657-SENS</b> 0.66 lbs. 500 pcs min	<b>367-5657-TH</b> 0.82 lbs. 500 pcs min



**Pricing does not include retainer brackets or antenna adapters.**

Composite Frame and Cover Assemblies

**"WATER METER"**

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

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

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

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

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

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



## Trumbull Manufacturing

3850 Hendricks Road, Youngstown, Ohio 44515

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

#### **The M-306 Standard**

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

#### **Polymer and Composite Lids**

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

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



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

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

#### **Explanation of the Confusion**

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

#### **How to Avoid the Confusion**

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





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## Composite Manhole Lids

For Sanitary Sewer



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

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

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



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

(See page 29 for details on load testing)



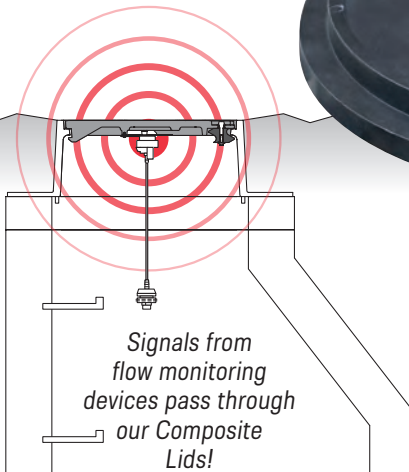
**THE LIGHT WEIGHT OF COMPOSITES  
REDUCES FINGER AND BACK INJURIES.**



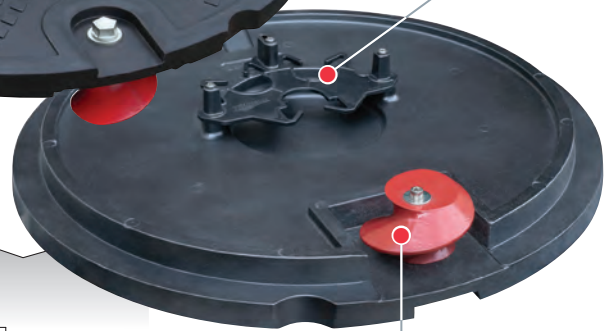
**CUSTOM  
MOUNTING**  
available for flow  
monitoring devices



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



Signals from  
flow monitoring  
devices pass through  
our Composite  
Lids!



### WORM GEAR

secures lid to frame and is operated with stainless steel pentagon bolt and hardware; other locking options available upon request

For compatible Trumbull Composite Frames, see pages 41 - 44.

For dimensions, load ratings and additional options, refer to the product information chart on pages 45 - 46.





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# Composite Manhole Frame and Cover Assembly

## 21-1/2" Clear Opening

### 23-3/4" Lid OD - EPDM Sealed

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



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

#### FOUR XYLAN COATED STAINLESS ALLEN HEAD SCREWS

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

#### FRAME SLOTS

allow easy handling and anchoring to manhole

#### STAINLESS STEEL PICK BAR

#### GROOVED DESIGN EPDM SEAL

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

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

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

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

**i** 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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# Composite Manhole Frame and Cover Assemblies

## With Full Clear Opening – Paddle Lock and Bolt Down Styles

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

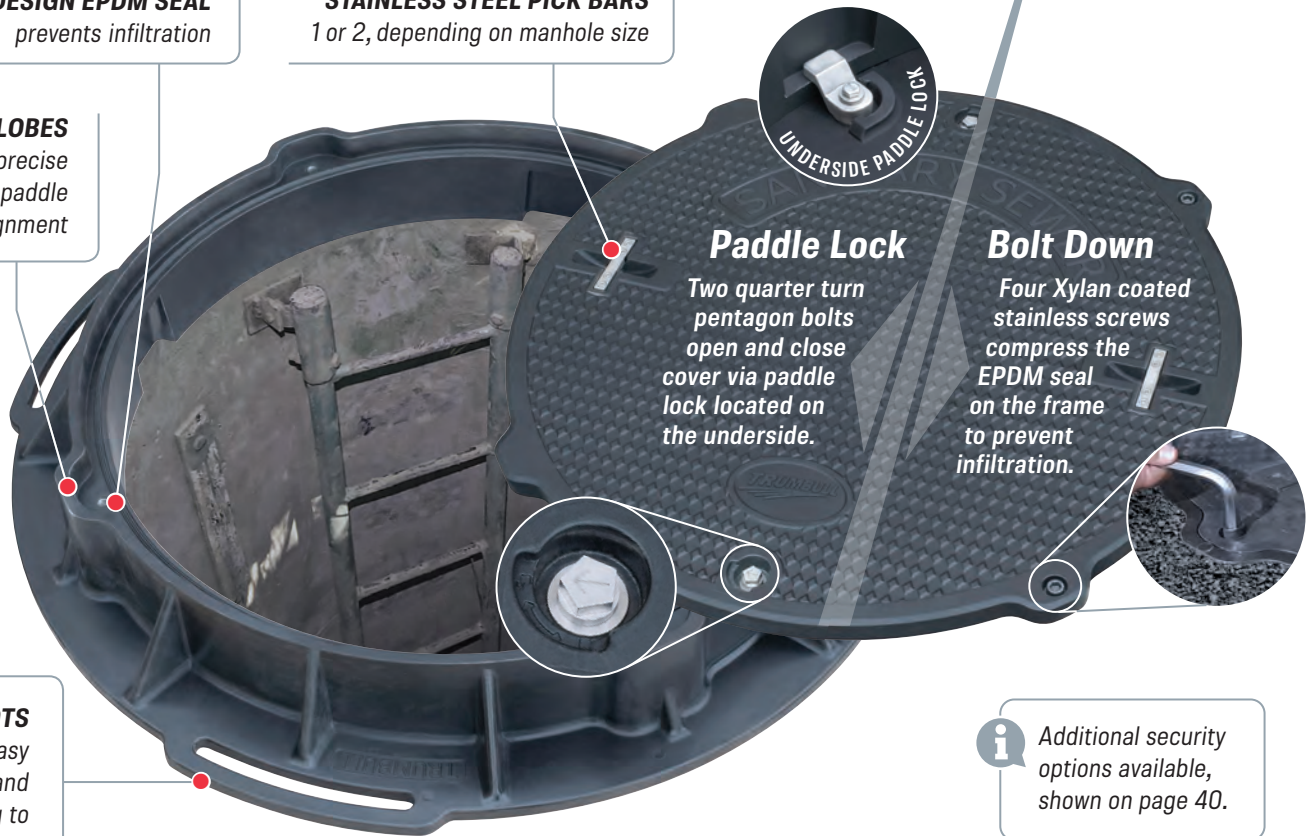
**2**  
COVER  
STYLES

**GROOVED DESIGN EPDM SEAL**  
prevents infiltration

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

**OUTWARD LOBES**  
allow for precise  
bolt and paddle  
lock alignment

**FRAME SLOTS**  
allow easy  
handling and  
anchoring to  
manhole



**i** Additional security options available, shown on page 40.

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

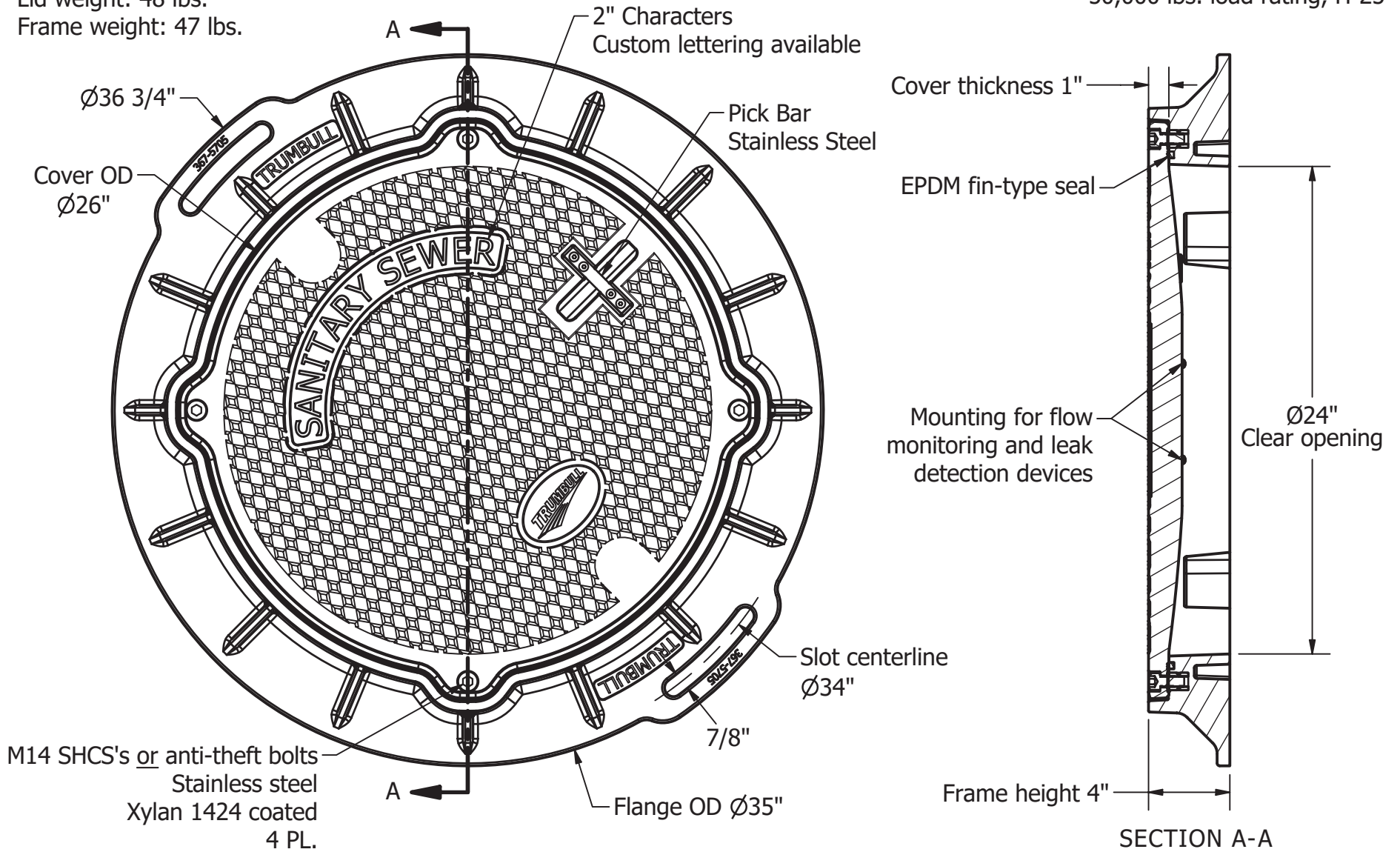
- Composite design can pass a 50,000 lb. proof load test per AASHTO M-306, H-25, yet weighs only one-third of comparable cast iron frame and lid, reducing back and finger injuries.
- Two lid fastening styles available.
- All hardware is stainless steel, along with the composite construction provides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

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



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

50,000 lbs. load rating, H-25



**Frame part number:**

367-5705

**Lid part number:**

367-5701 (Sanitary Sewer)  
 367-5702 (Water Meter)

(Dimensions are in inches)

**26" Manhole Lid & Frame**  
 (24" Frame Clear Opening, Bolt Down)  
 Drawn to Scale

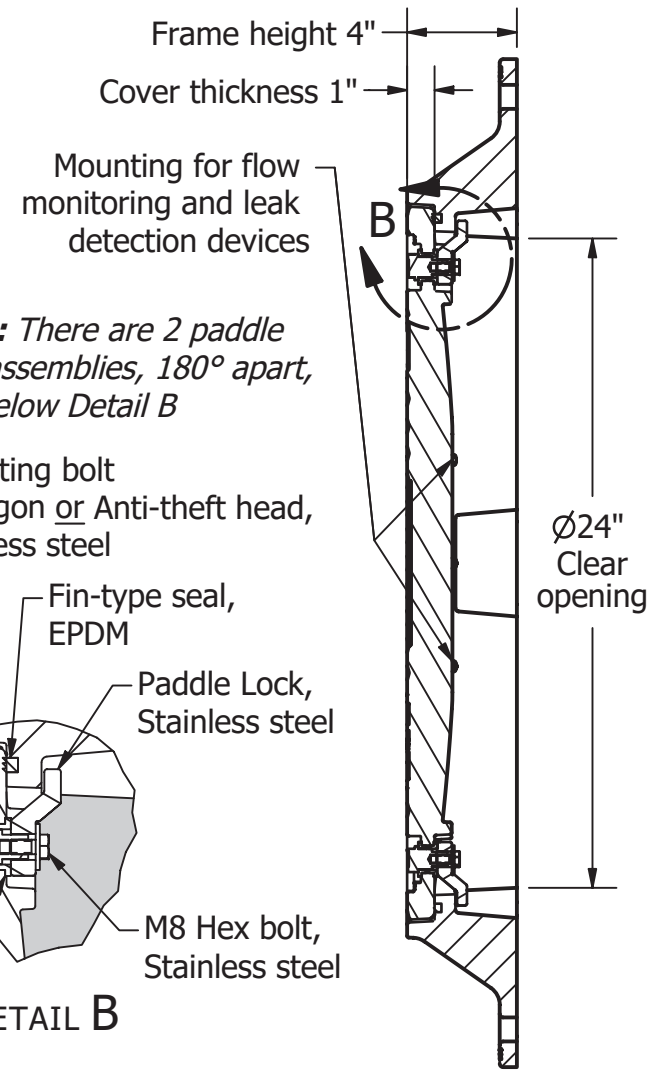
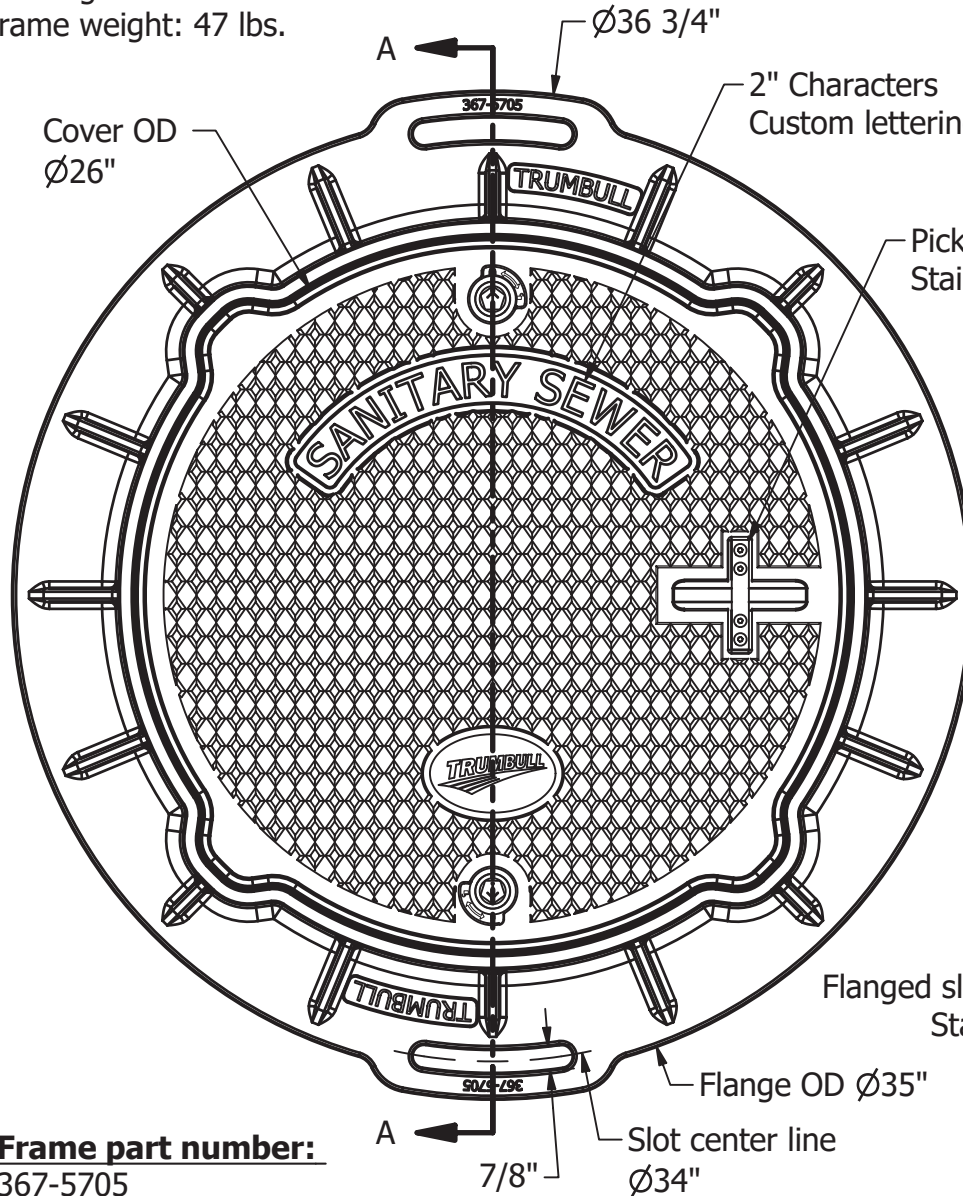
Drawn:  
 AAH  
 09/18/18

Original document

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

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

50,000 lbs. load rating, H-25



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

**Frame part number:**  
 367-5705

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

**26" Manhole Lid & Frame**  
 (24" Frame Clear Opening, Paddle Lock)  
 Drawn to Scale

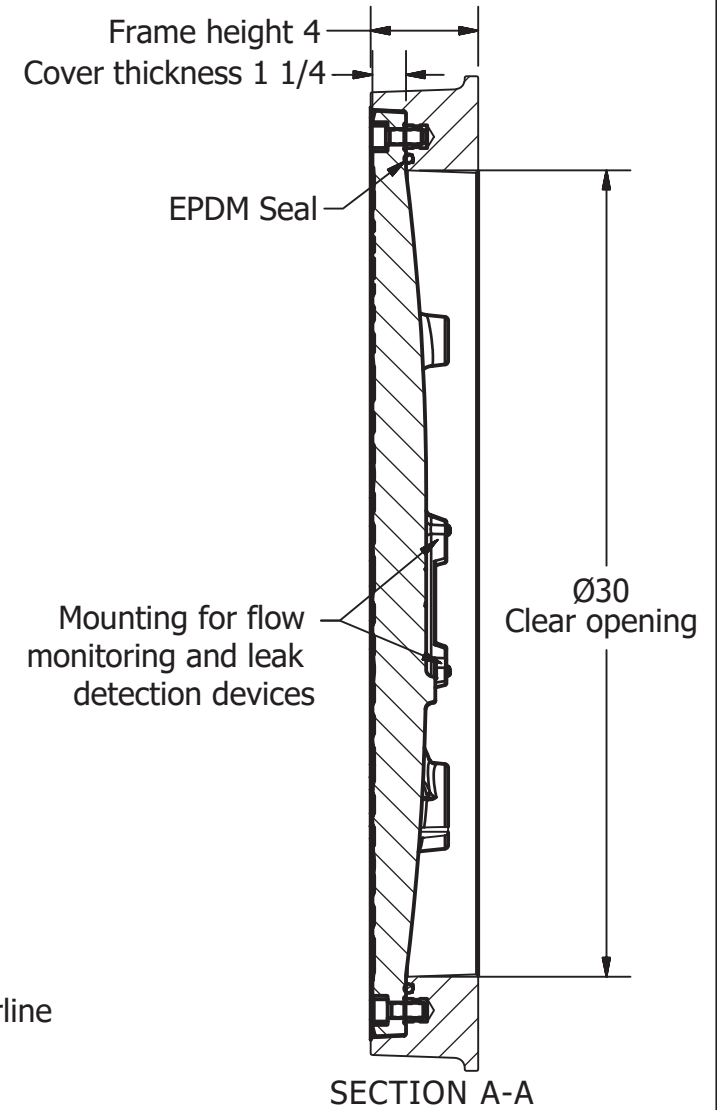
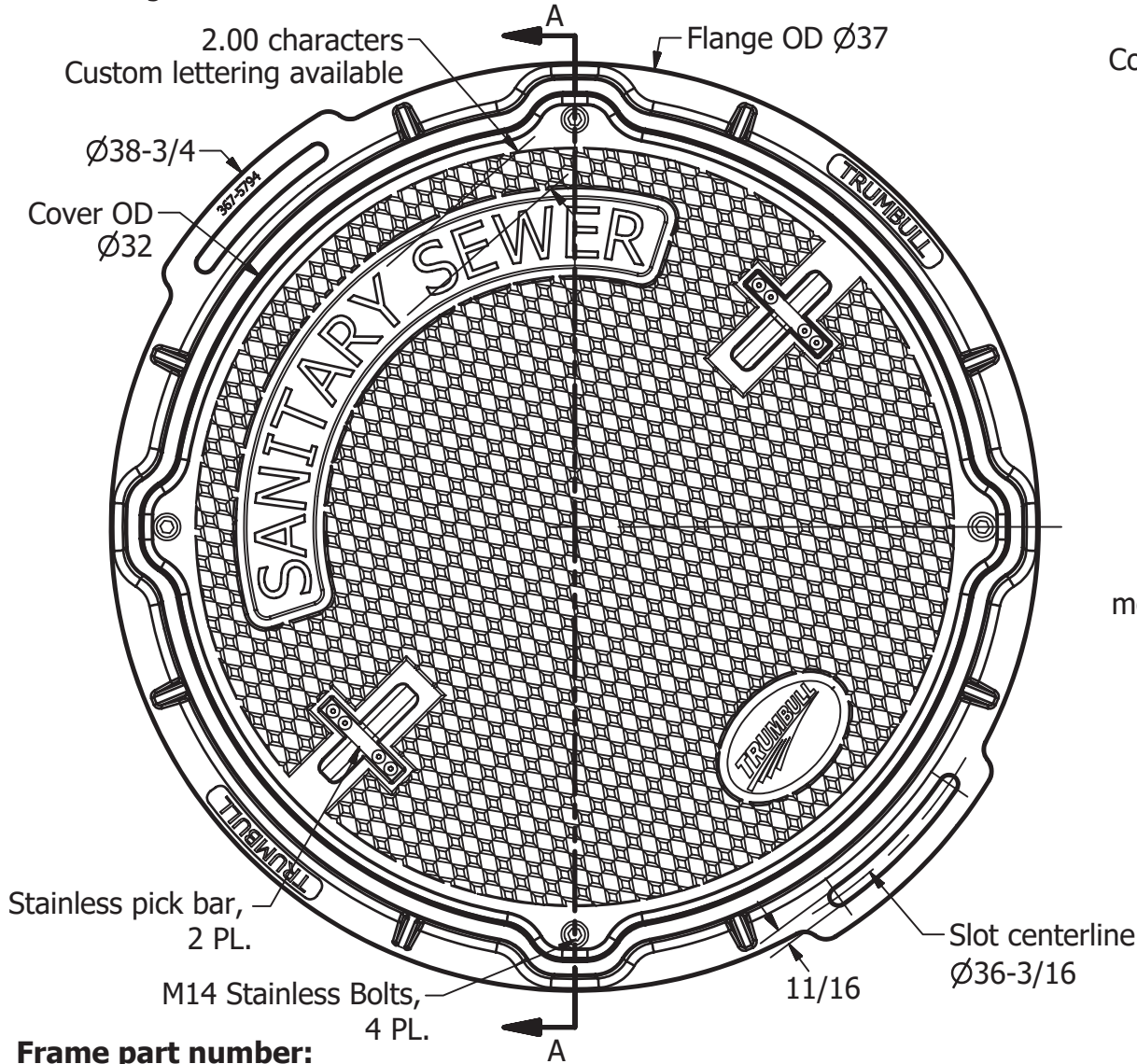
Drawn:  
 AAH  
 09/18/18

Original document

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

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

50,000 lbs. load rating, H-25



**Frame part number:**  
 367-5794

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

(Dimensions are in inches)

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

Drawn:  
 BJE  
 07/20/17

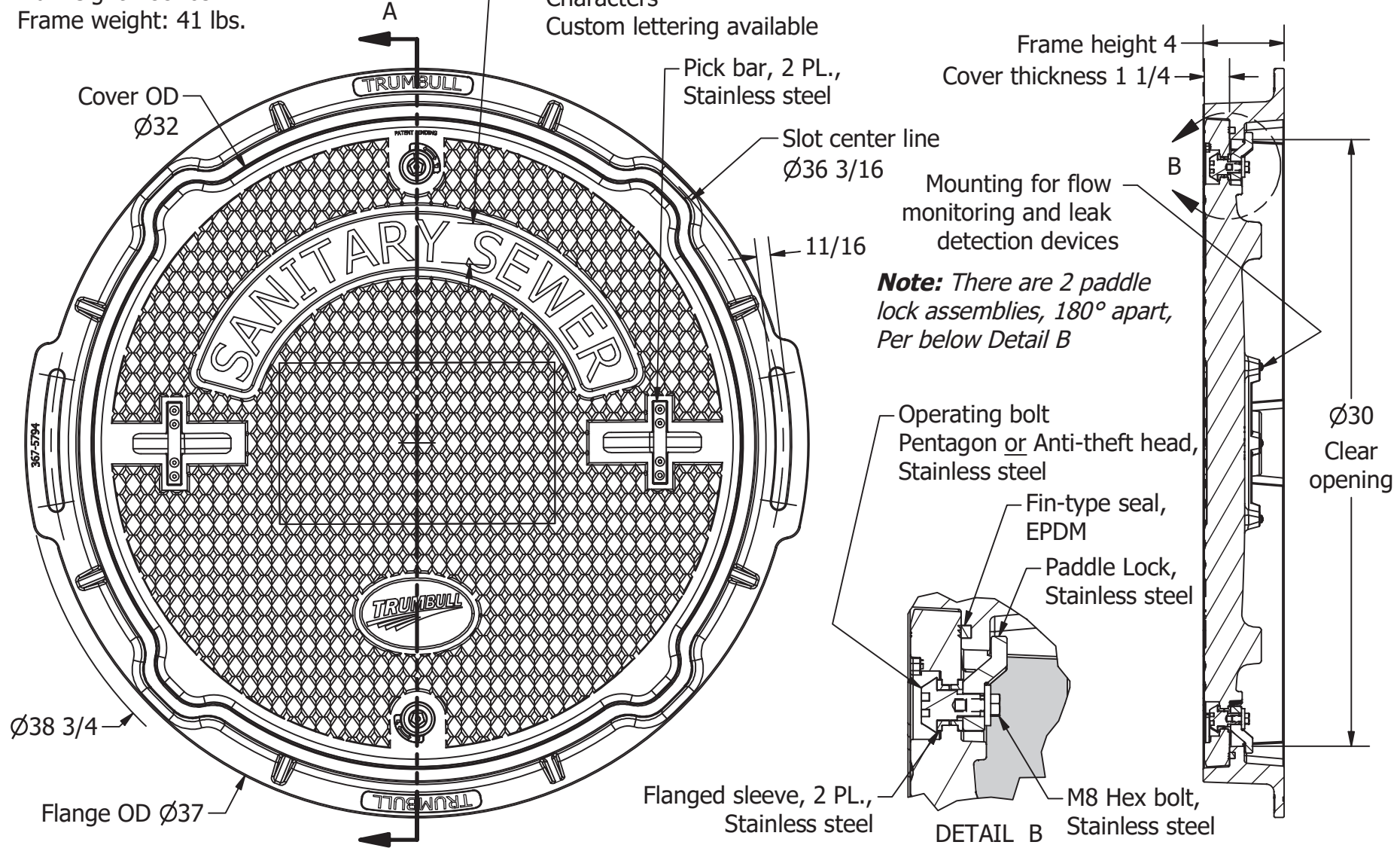
Revision:  
 BJE  
 (A) 05/13/19

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



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

50,000 lbs. load rating, H-25



**Frame part number:**  
 367-5794

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

(Dimensions are in inches)

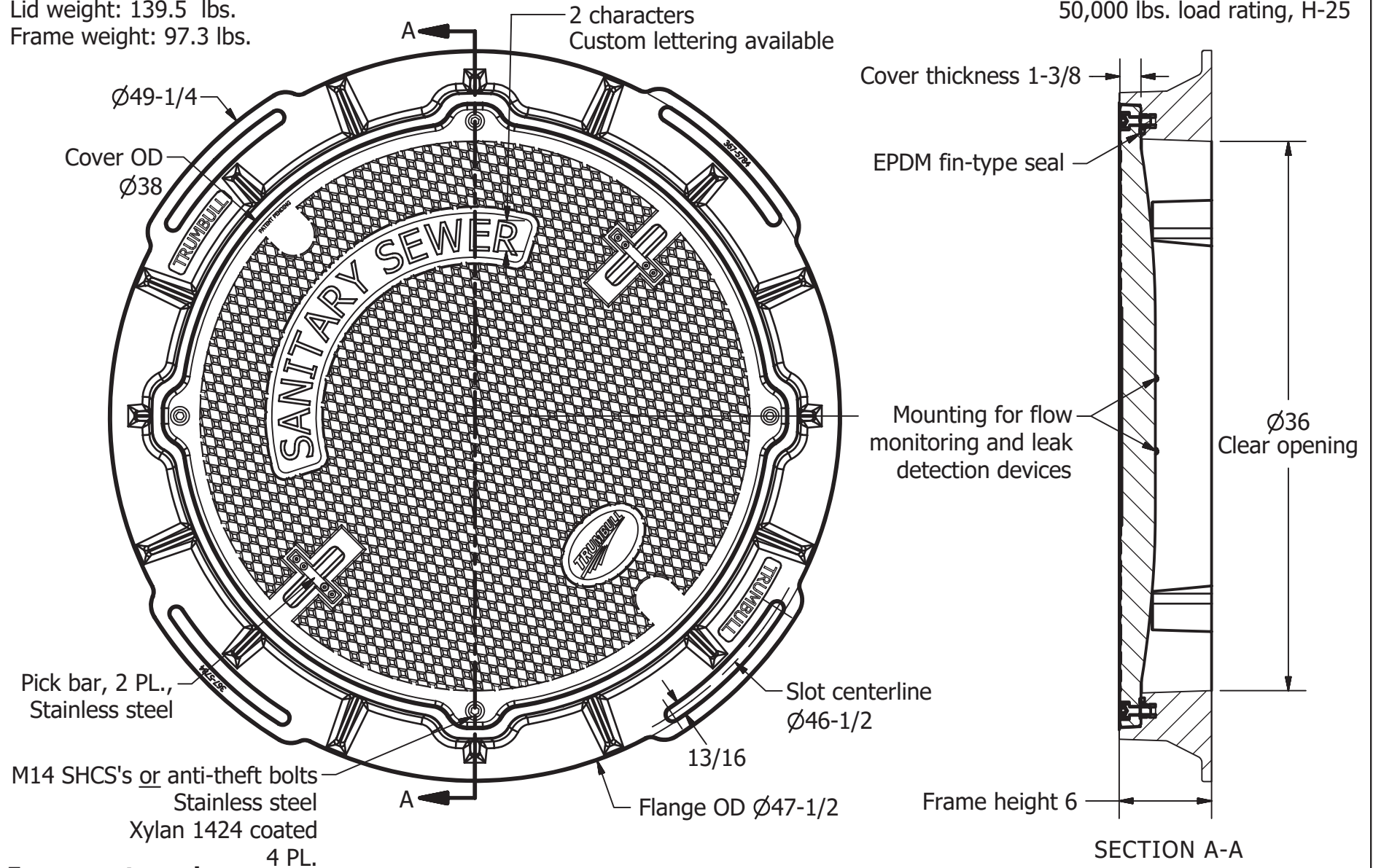
**32" Manhole Lid & Frame**  
 (30" Frame Clear Opening, Paddle Lock)  
 Drawn to Scale

Drawn:  
 BJE  
 02/24/20

Original document

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

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



**Frame part number:**

367-5784

**Lid part number:**

367-5795 (Sanitary Sewer)

367-5465 (Water Meter)

(Dimensions are in inches)

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

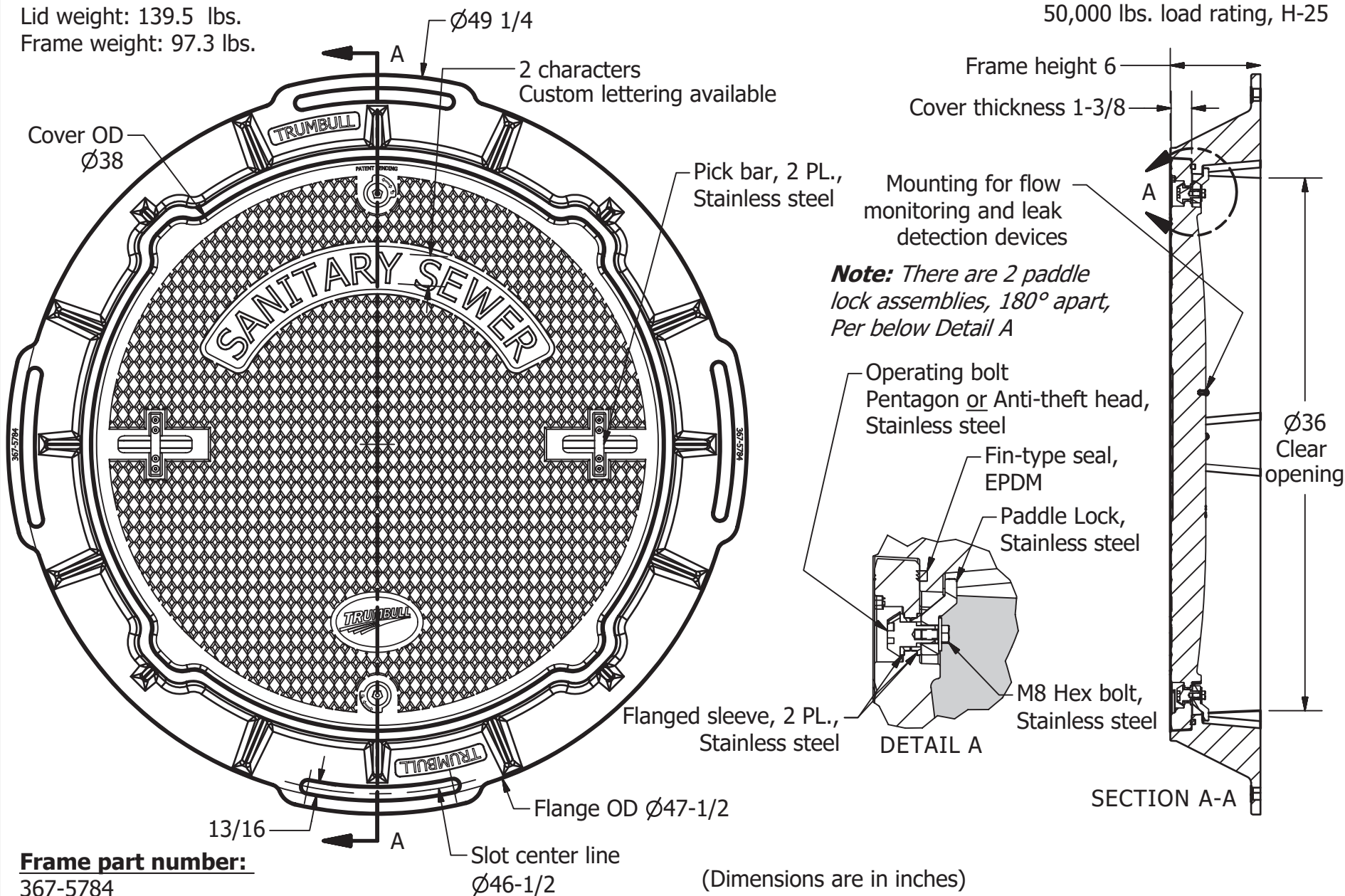
Drawn:  
 BJE  
 09/28/18

Revision:  
 BJE  
 (A) 05/13/19

**Trumbull Manufacturing**  
 Youngstown, Ohio  
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Lid weight: 139.5 lbs.  
 Frame weight: 97.3 lbs.

50,000 lbs. load rating, H-25



**Frame part number:**  
 367-5784

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

**38" Manhole Lid & Frame**  
 (36" Frame Clear Opening, Paddle Lock)  
 Drawn to Scale

(Dimensions are in inches)

Drawn:  
 BJE  
 09/28/17

Revision:  
 BJE  
 05/13/19

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[www.trumbull-mfg.com](http://www.trumbull-mfg.com)

## Additional Security for Meter and Manhole Lids

### Security Bolts...

Made from stainless steel



#### ...for Worm Gear Lids

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

#### ...for Paddle-Lock Frames and Covers

Item No	For Frames . . .	Weight
<b>167-0062*</b>	Paddle-Lock Covers	0.10 lbs.



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

\* 316 Stainless Steel  
 \*\* 17-4 Stainless Steel

### Security Screws...

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



#### ...for Bolt Down Frames and Covers

Item No	Frame	Weight
<b>167-0146</b>	M14-2.0 x 30MM Security Screw	0.10 lbs.
<b>167-0148</b>	M14-2.0 x 35MM Security Screw	0.10 lbs.



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

## RELATED PRODUCT

### Manhole Cover Hooks

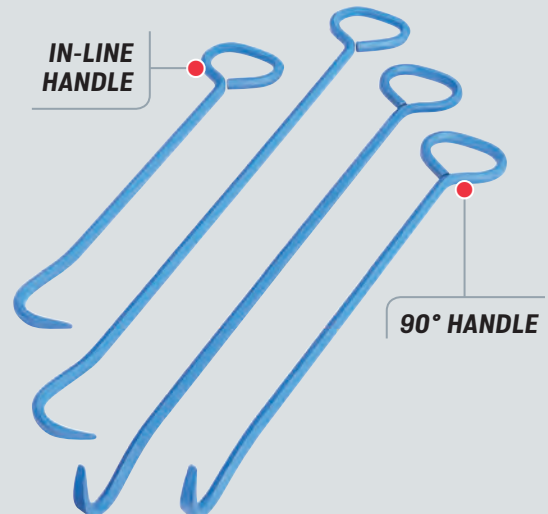
Trumbull Manhole Cover Hooks are made of 5/8" hexagonal steel. The 1/2" point engages the lid of the manhole cover. Painted in Safety Blue enamel paint for safety and durability. Product shown in more detail on Catalog page A-3.

#### In-Line Handle

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

#### 90° Handle

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





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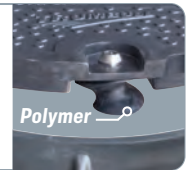
# Composite Manhole Frames and Covers

## Worm Gear Style – For Use with 25-1/2" x 1-1/4" Covers

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



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



### EPDM SEAL

prevents infiltration

### 4 WORM GEAR RECESSES

allow cover to be placed in any of 4 directions

### WIDE FLANGE DIAMETER

### FRAME SLOTS

allow easy handling and anchoring to manhole



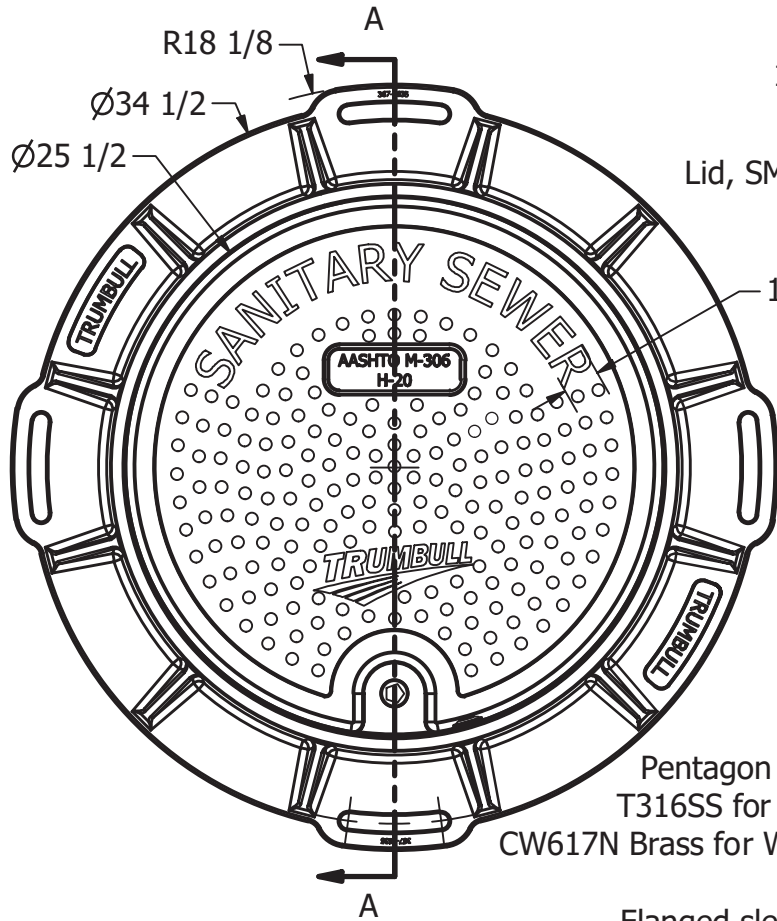
Ask your Trumbull Rep about cities and towns that have already installed our Frames and Covers!

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

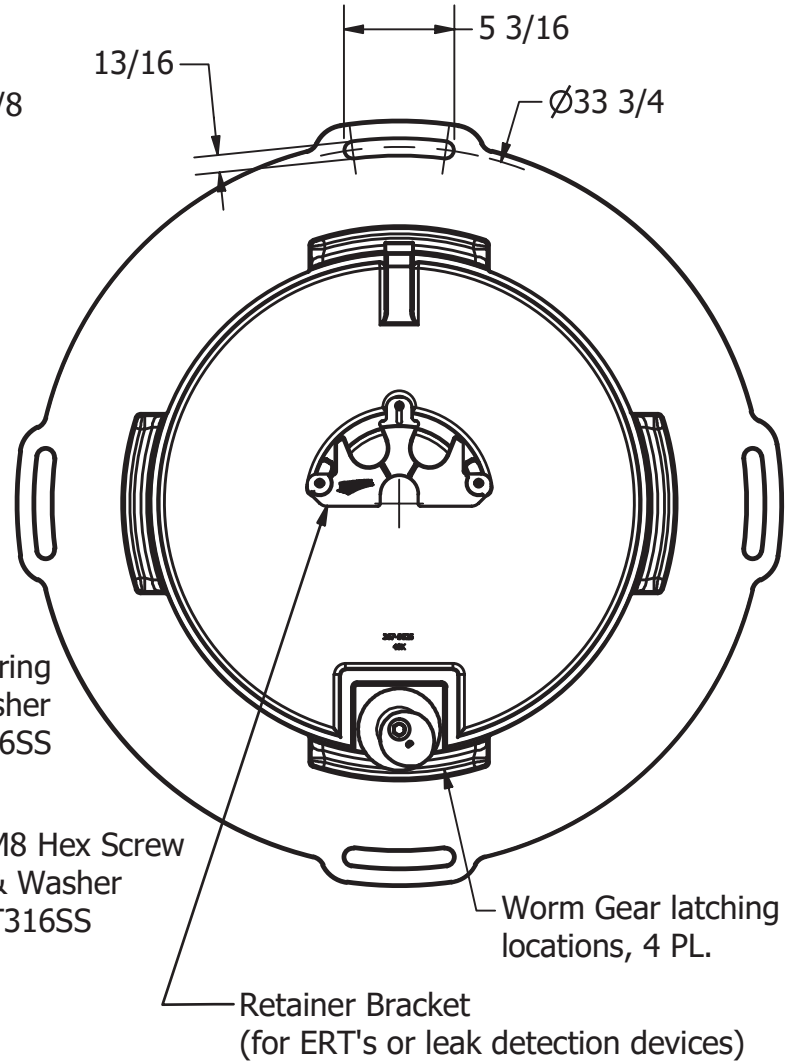
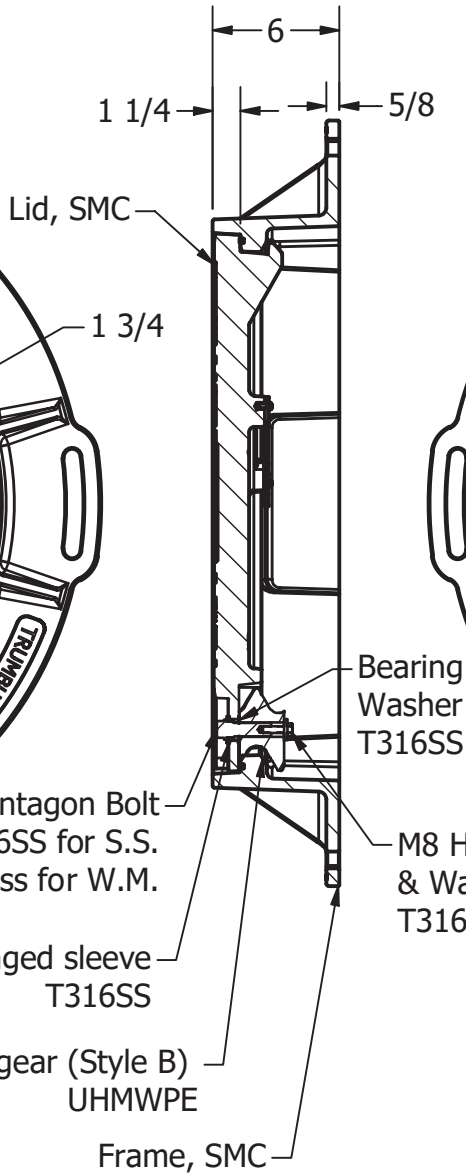
For dimensions, load ratings and additional options, refer to the product information chart on page 26 (WATER METER) and page 45 (SANITARY SEWER).

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

40,000 lbs. load rating, H-20



SECTION A-A



**Frame part number:**  
 367-5635

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

**25-1/2" x 1-1/4" Lid & Frame**  
 (23-7/8" Frame Clear Opening)  
 Drawn to Scale

Drawn:  
 BJE  
 12/05/19

Original Document

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





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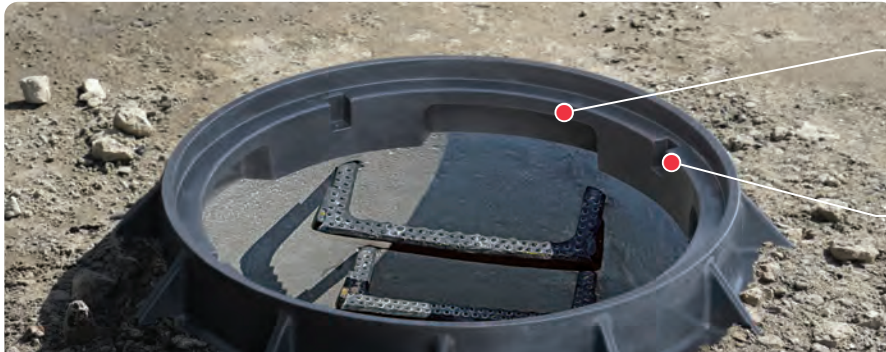
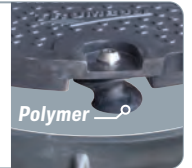
# Composite Manhole Frames and Covers

*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.



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



### 4 WORM GEAR LATCHES

allow cover to be placed in any of 4 directions

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



**FRAME SLOTS**



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

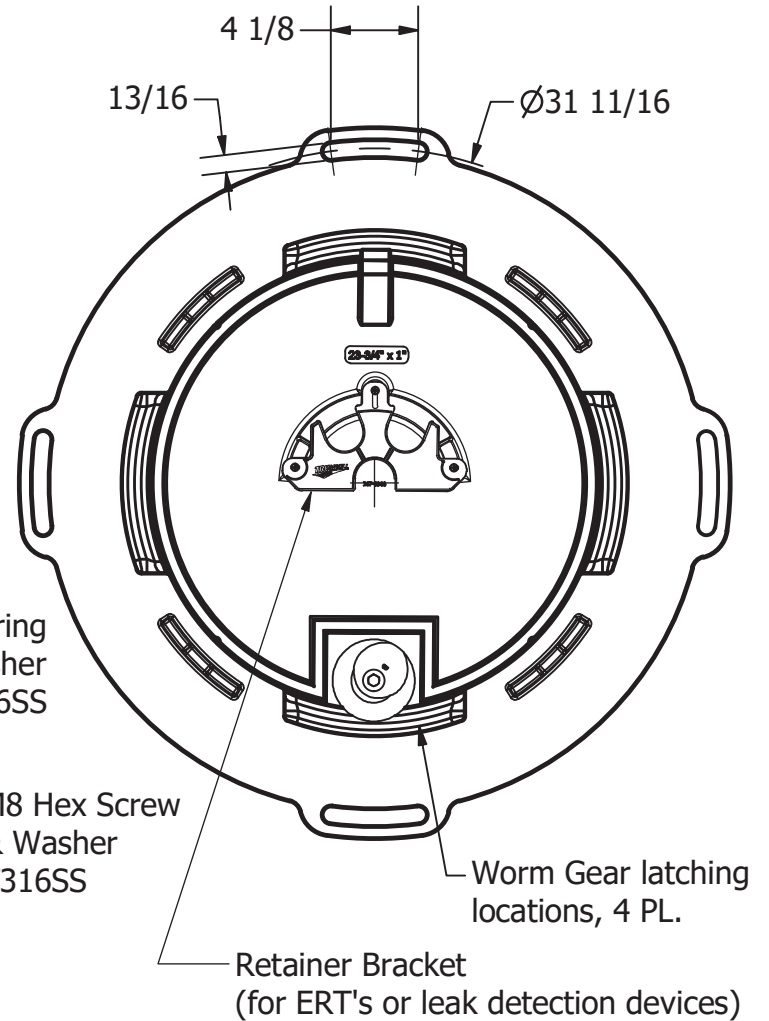
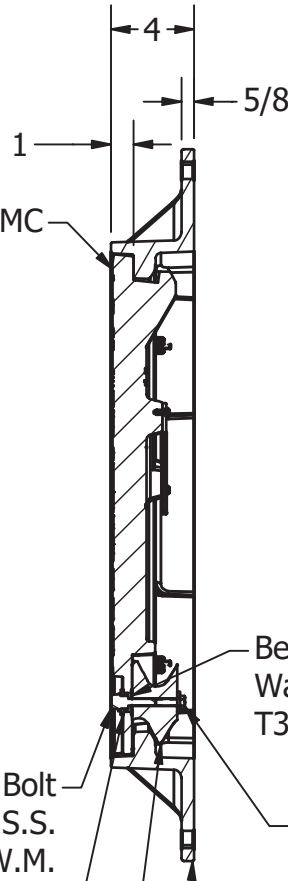
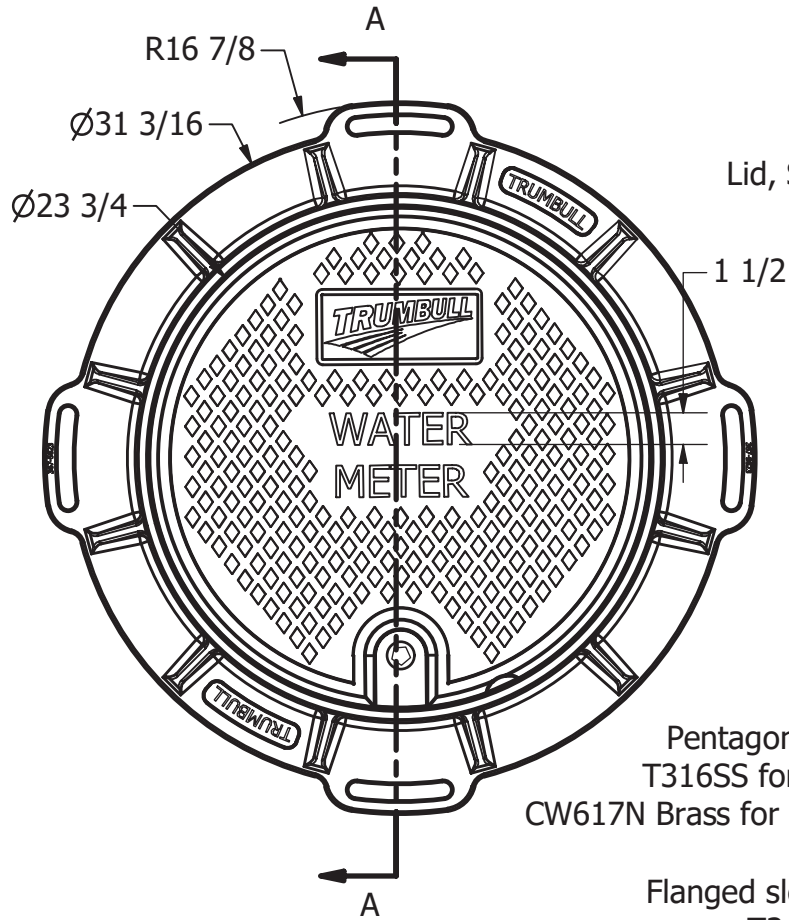
Flange OD	Dimensions of Lids that will Fit	Height	Locking Mechanism	Frame	Sanitary Sewer Lid	Water Meter Lid	Total Weight
				Item No	Item No	Item No	
31-3/16"	23-3/4" x 1"	4"	Worm Gear	<b>367-5623</b>	<b>367-5624</b>	<b>367-8910</b>	79.60 lbs.

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

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

40,000 lbs. load rating, H-20

SECTION A-A



Pentagon Bolt  
 T316SS for S.S.  
 CW617N Brass for W.M.

Flanged sleeve  
 T316SS

Worm gear (Style B)  
 UHMWPE

Frame, SMC

Bearing  
 Washer  
 T316SS

M8 Hex Screw  
 & Washer  
 T316SS

Worm Gear latching  
 locations, 4 PL.

Retainer Bracket  
 (for ERT's or leak detection devices)

**Frame part number:**  
 367-5623

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

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

Drawn:  
 BJE  
 12/09/19

Original Document

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



Composite Lids

**"SANITARY SEWER"**

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

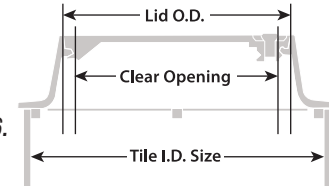
**WORM GEARS:** Lids furnished with ductile worm gears. Not furnished on drop-in style lids.

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

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

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

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



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

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

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

Continued on the right.





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

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

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

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

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

**"ADDITIONAL NOTES"**  
for Trumbull Meter and Manhole Lids

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

1. Trumbull Retainer Bracket, screwed to 3 posts, which will hold the following:

- **ITRON SHELF MOUNT ADAPTER**
- **ITRON THROUGH-THE-LID ADAPTER**, bracket can hold either one or two
- **BADGER**, antenna bracket can hold either one or two
- **NEPTUNE**, bracket can hold one R900 antenna
- **SENSUS**, bracket can hold one antenna
- **ZENNER**, bracket can hold one antenna
- **MUELLER**, bracket can hold one antenna



2. A Trumbull retainer bracket can be mounted to the underside of lid to hold a flow monitoring device or other equipment.

3. Post adapters, screwed to one post on the lid:

- **ITRON 100W ADAPTER**, item #367-5796 (snap-in design)
- **ITRON RIVA ADAPTER**, item #167-5000 (snap-in design)
- **BADGER LTE ADAPTER**, item #367-5000

\*\* Neptune (figure 8) holes accepts either Neptune Touch Read or R900 antennas.

\*\*\* X-Frame style lids will seat, but not hinge.

▪ Slots need to be cut or ground into existing frame in order for the paddle locks to lock in frame.

\*\*\* A ductile iron worm gear is required when cover is used with an iron frame, and UHMWPE worm gear when used with a composite frame.



## Trumbull Manufacturing

3850 Hendricks Road, Youngstown, Ohio 44515

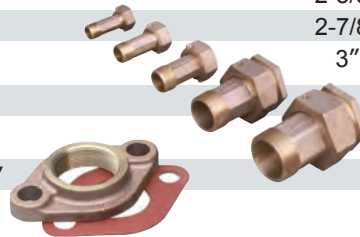
Phone: 330.270.7888 | Toll Free: 877.504.1507 | Fax: 330.392.0756

[www.trumbull-mfg.com](http://www.trumbull-mfg.com)

### Brass Meter Couplings and Meter Flanges

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

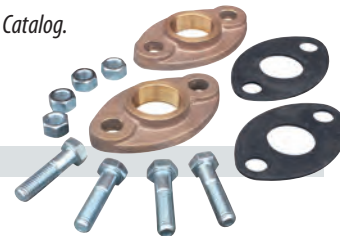
ITEM №	SIZE OF METER	LAYING LENGTH	WEIGHT
368-0590	Coupling, 1/2" (for 5/8" x 3/4" & 3/4" meters)	2-3/8"	0.44 lbs.
368-0591	Coupling, 1/2" (for 5/8" x 1/2" meters)	2-3/8"	0.25 lbs.
368-0646	Coupling, 1/2" (for 5/8" x 3/4" & 3/4" meters)	1-5/8"	0.40 lbs.
368-0593	Coupling, 3/4" (for 5/8" x 3/4" & 3/4"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



### Meter Flange Kits

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

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



### Meter Yokes, Expansion Connections and Gaskets

Shown in more detail on page E-55.

ITEM №	DESCRIPTION	WEIGHT
367-5470	Meter Yoke, for 5/8" meters	3.65 lbs.
367-5469	Meter Yoke, for 5/8" x 3/4" meters	4.20 lbs.
367-5471	Meter Yoke, for 3/4" meters	4.60 lbs.
367-5472	Meter Yoke, for 1" meters	7.30 lbs.
368-0630	Expansion Connection, for 5/8" meters	0.72 lbs.
368-0632	Expansion Connection, for 5/8" x 3/4" or 3/4" meters	0.93 lbs.
368-0635	Expansion Connection, for 1" meters	1.61 lbs.



### Meter Adapters



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

ITEM №	FORD №	ORIGINAL METER		NEW METER		QUANTITY REQUIRED	WEIGHT
		METER SIZE	LAYING LENGTH	METER SIZE	LAYING LENGTH*		
368-0642	A13	3/4"	9"	5/8"	7-1/2"	2	0.4 lbs.
368-0643	A14	1"	10-3/4"	5/8"	7-1/2"	2	0.4 lbs.
368-0639	A23	3/4"	9"	5/8" x 3/4"	7-1/2"	1	0.4 lbs.
368-0641	A24	1"	10-3/4"	5/8" x 3/4" & 3/4" **	7-1/2"	2	0.6 lbs.
368-0644	A34	1"	10-3/4"	3/4"	7-1/2"	2	0.4 lbs.
368-0640	A44	1"	10-3/4"	3/4" x 1"	9"	1	0.7 lbs.
379-1022	A47	2" flange	17"	1"	10-3/4"	2	3.2 lbs.

RELATED BRASS PRODUCTS

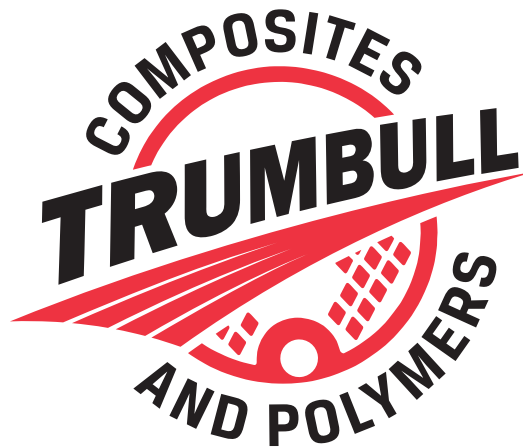
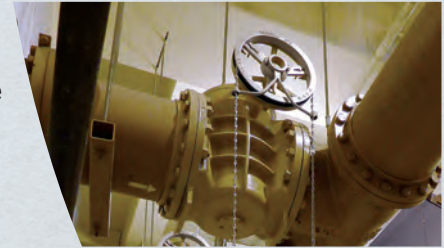


## **SPECIALTY PRODUCTS FOR THE WATERWORKS AND VALVE INDUSTRIES**

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

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

With our solid infrastructure, state-of-the-art manufacturing facilities, and exceptional 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.



### **Trumbull Manufacturing**

3850 Hendricks Road, Youngstown, Ohio 44515

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## Valve Position Indicators

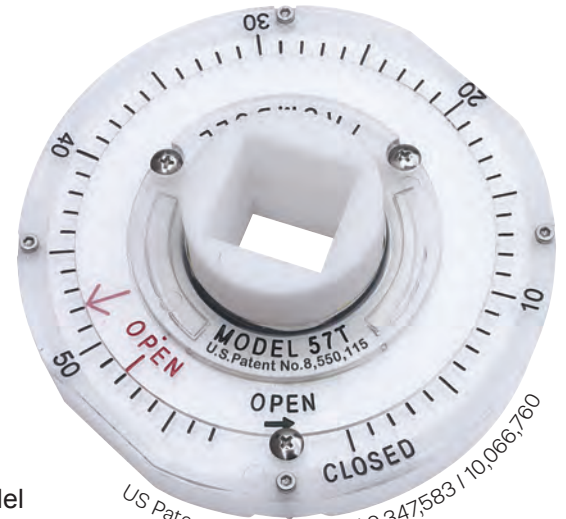
For Buried Service with 1-1/4" Square Extension Stems



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

**POSITION  
INDICATOR**

"No Field  
Drilling  
or Pinning  
Required!"  
with Square 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
- Constructed of heavy-duty, non-corrosive DuPont™ Delrin® polymer, providing high-impact resistance even in cold climates
- Double O-ring seals keep out water and dirt
- Third-party tested to over 1 million revolutions
- Provided with stainless steel hardware
- Also available for use above ground in the floor or with Wall Brackets (see pages F-9 to F-10)

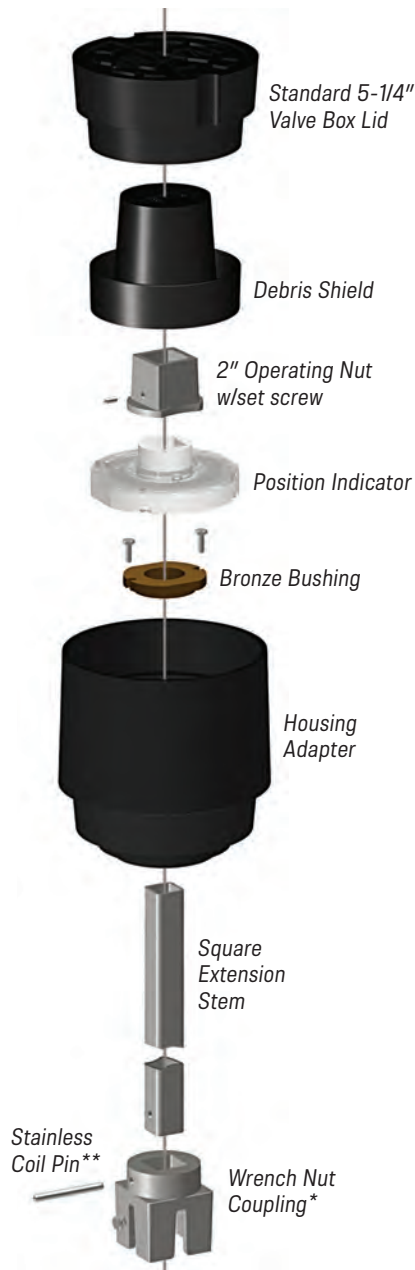
### Ordering Instructions

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

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

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

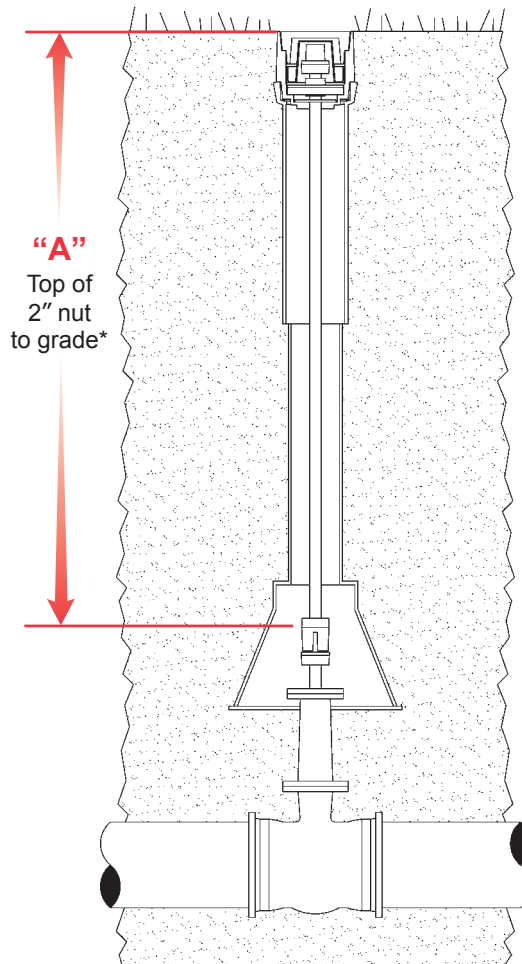
### Exploded View of Square Extension Stem for Buried Service



#### 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

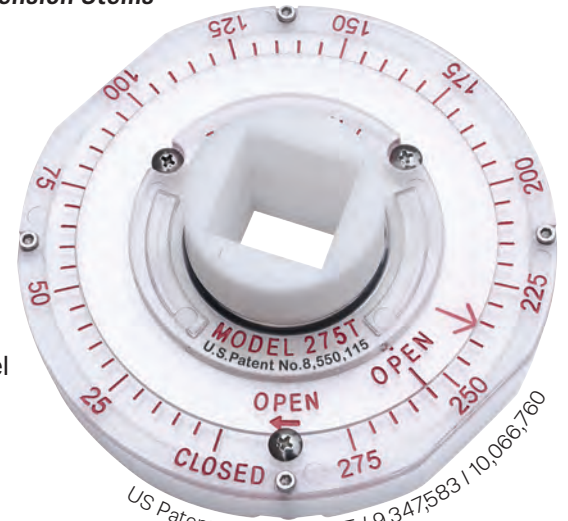
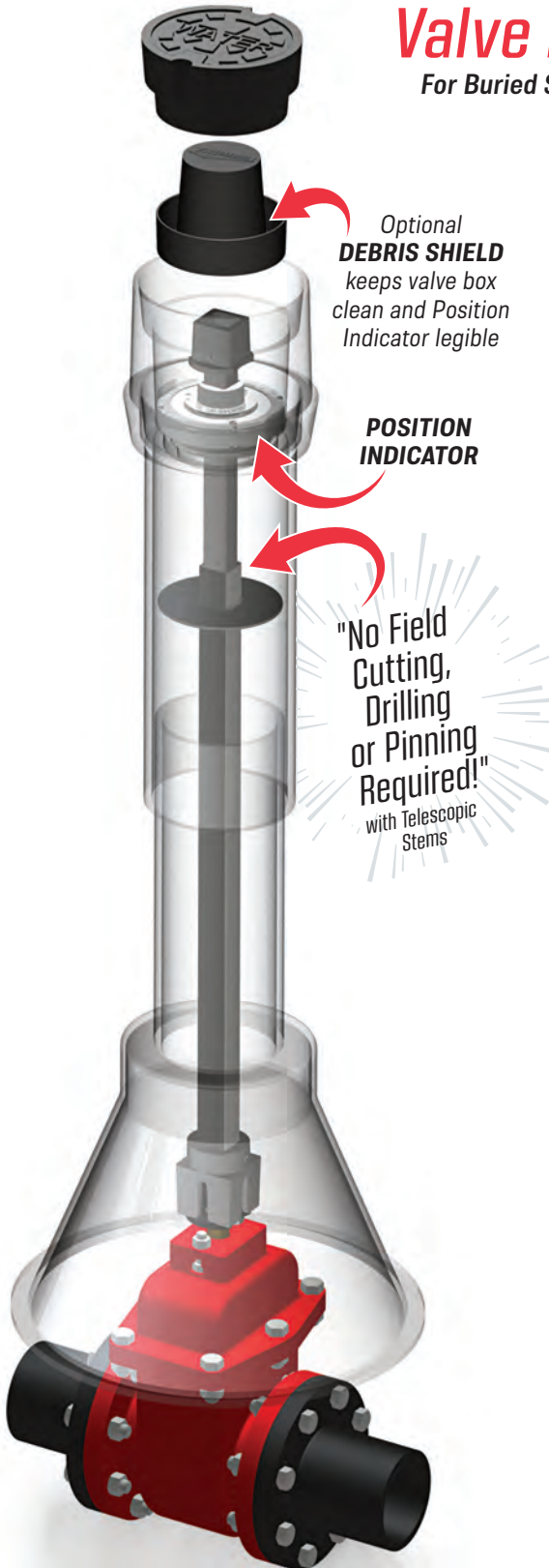
Extension Stems rated for a minimum of 300 ft-lb.  
For higher torque capacity, consult Trumbull.



Installation animations online:  
[www.youtube.com/trumbullmfg](http://www.youtube.com/trumbullmfg)

## Valve Position Indicators

For Buried Service with **Telescopic** 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
- Constructed of heavy-duty, non-corrosive DuPont™ Delrin® polymer, providing high-impact resistance even in cold climates
- Double O-ring seals keep out water and dirt
- Third-party tested to over 1 million revolutions
- Provided with stainless steel hardware
- Also available for use 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

### Ordering Instructions

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

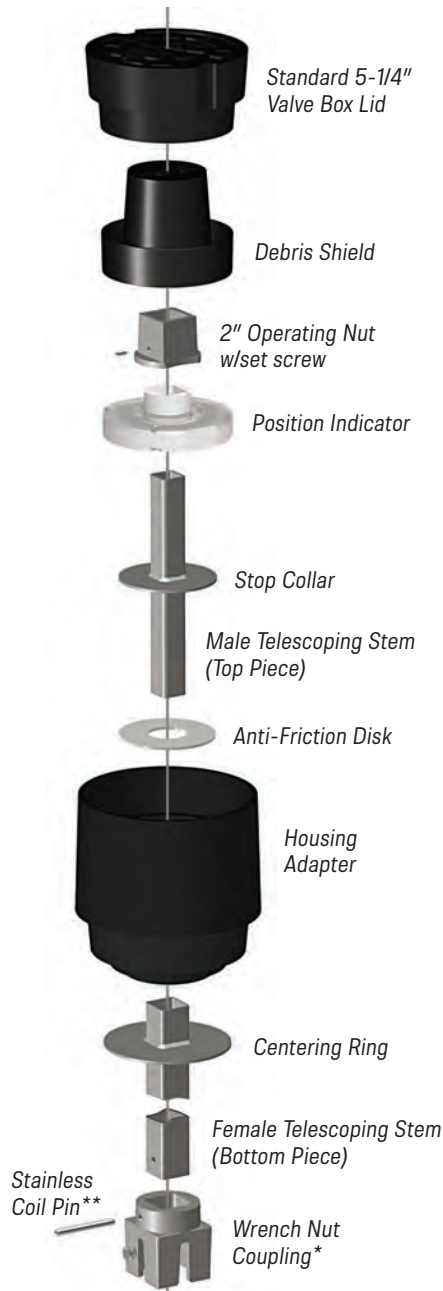
Model Number	Number of Turns	Open Left	Open Right
		Item No	Item No
57T	0 - 57	367-9394	367-9393
275T	0 - 275	367-9396	367-9395
870T	0 - 870	367-9400	367-9399

3. Extension Stem required (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



### Exploded View

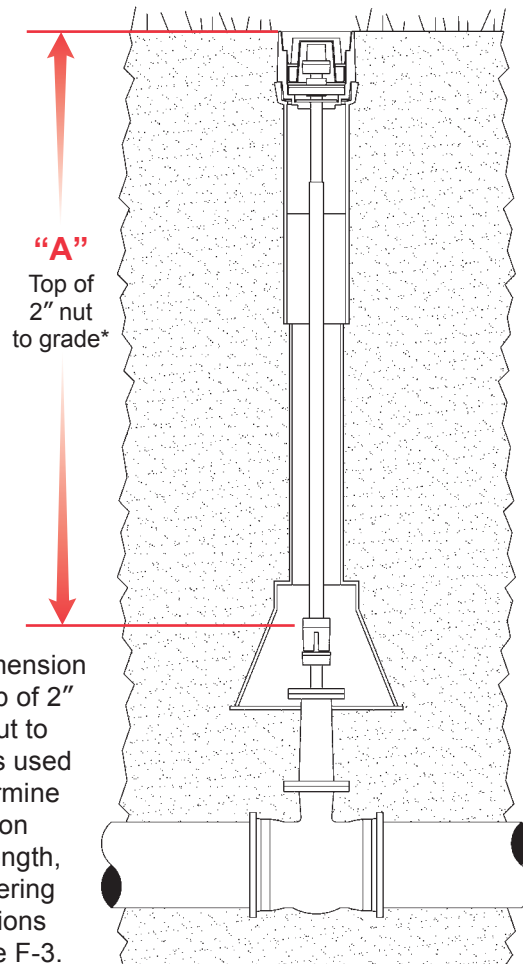
of Telescopic Extension Stem  
for Buried Service



### TELESCOPIC 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-3.

### Extension Stem Adjustment Ranges and Torque Ratings

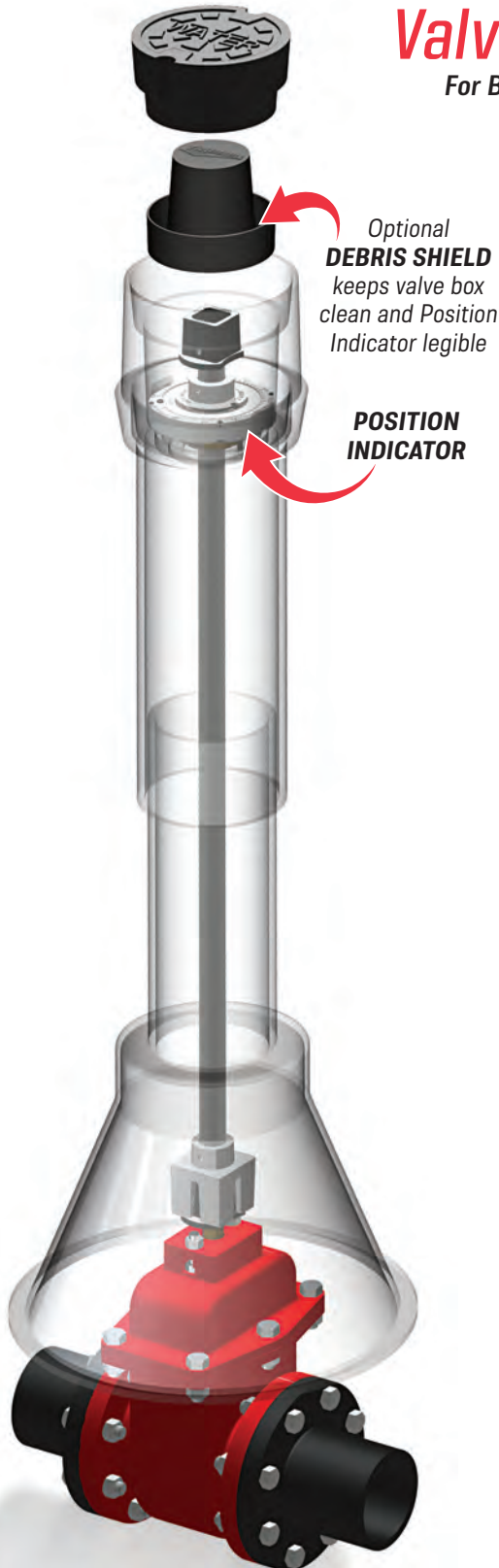
for Telescopic Extension Stems

Range of Dimension "A"		Square Telescopic Extension Stems		Torque In ft-lb
Minimum	Maximum	Length of 1-1/4" Top Part	Length of 1-1/2" Bottom Part	
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.

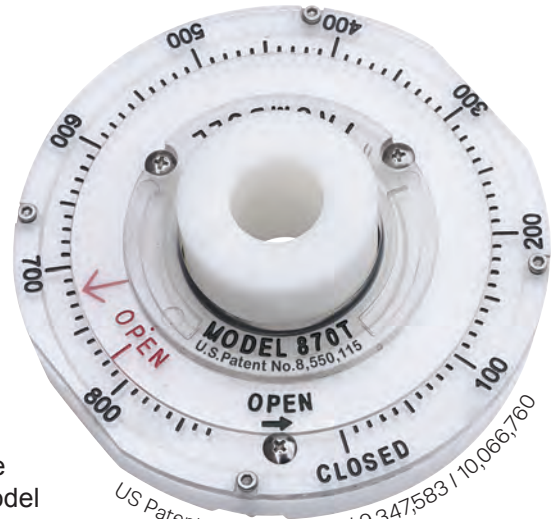
## Valve Position Indicators

For Buried Service with **Round** Extension Stems



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

**POSITION  
INDICATOR**



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

### Ordering Instructions

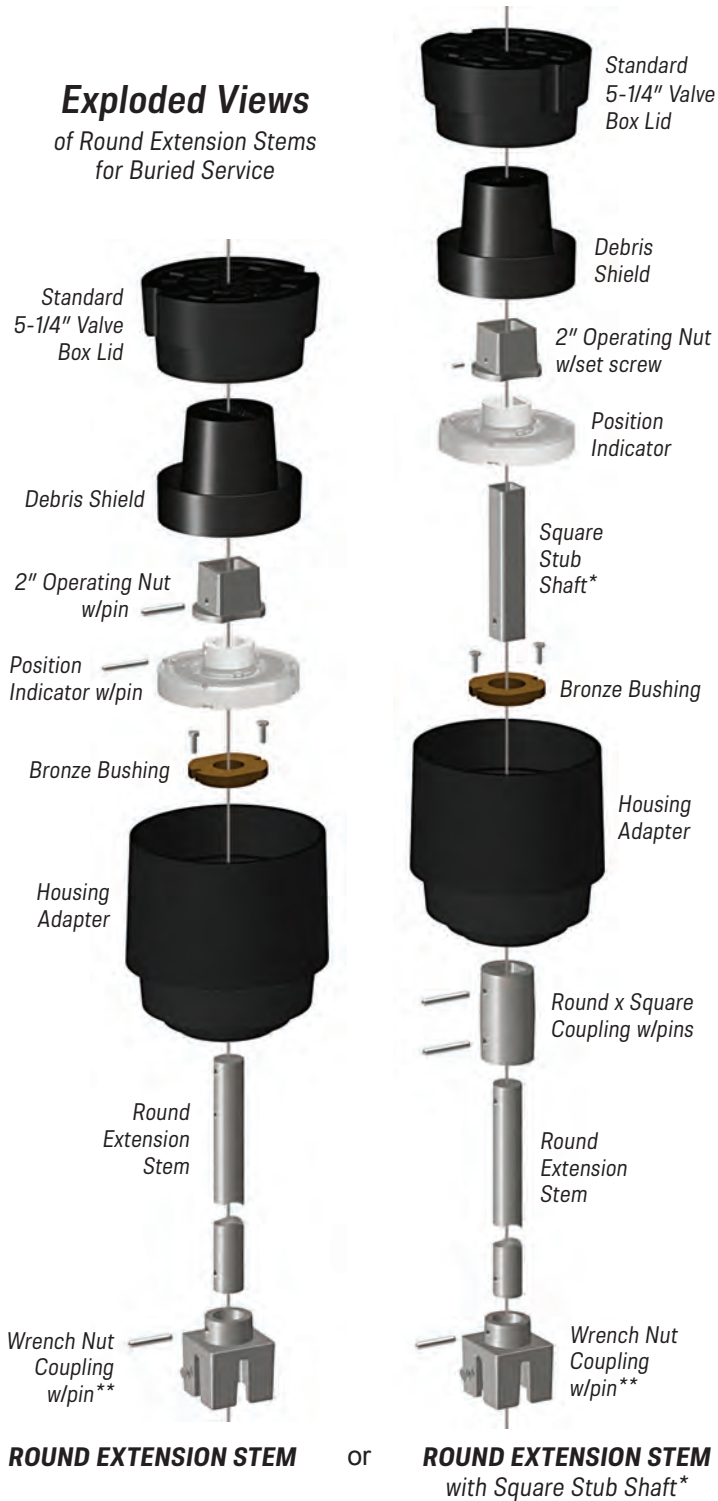
1. Specify direction of open (open left or open right)
2. Model required (available in 57, 275 or 870 turns)

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

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

### Exploded Views

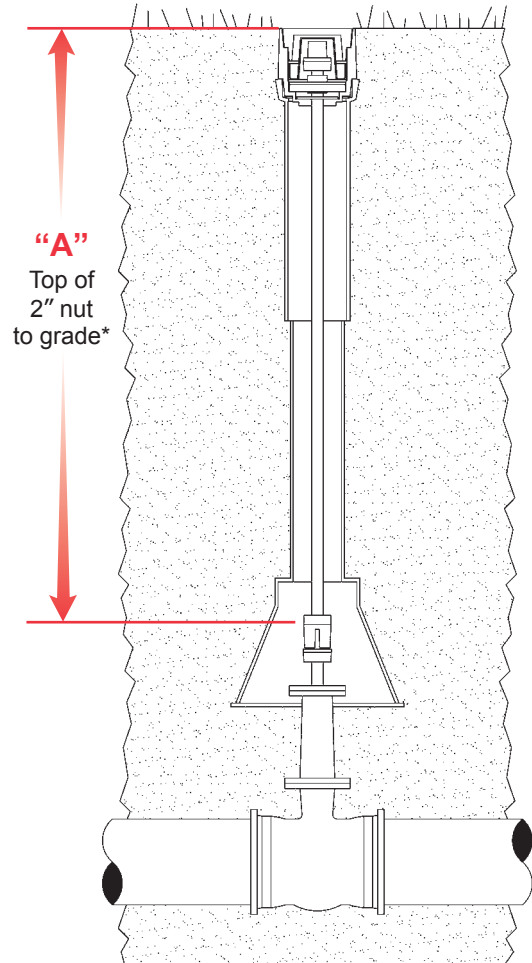
of Round Extension Stems  
for Buried Service



**ROUND EXTENSION STEM** or **ROUND EXTENSION STEM with Square Stub Shaft\***

\* 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.

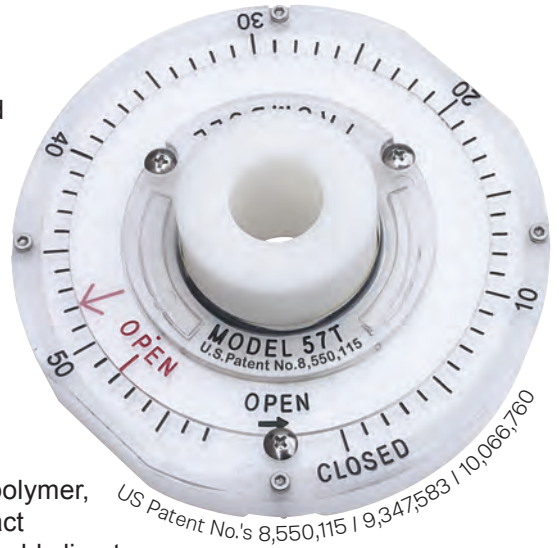
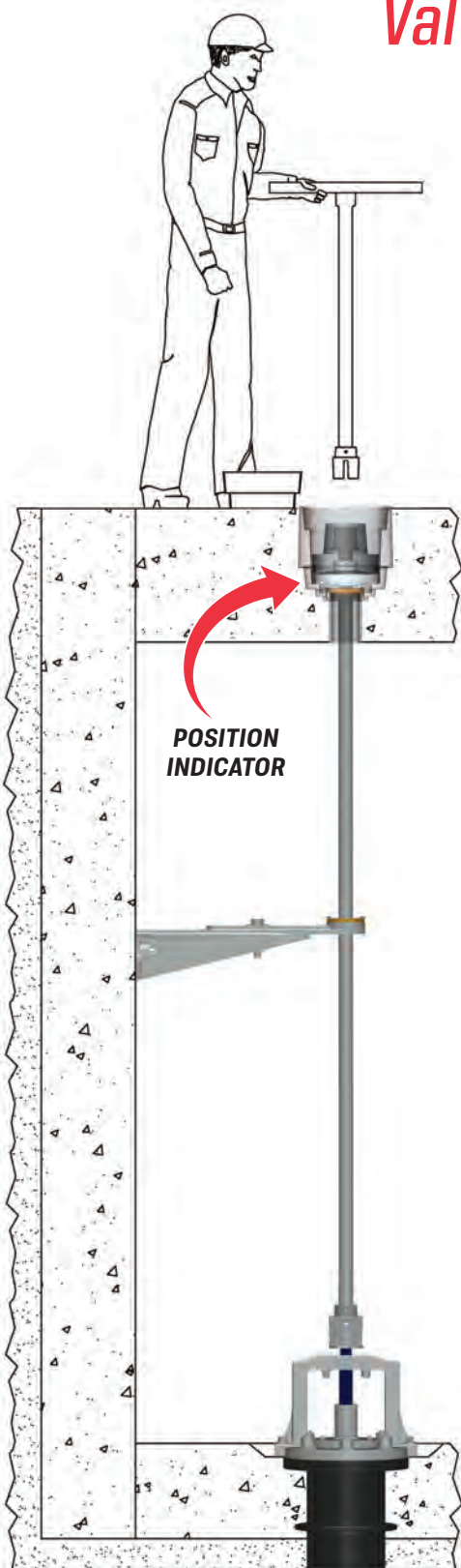


Installation animations online:  
[www.youtube.com/trumbullmfg](http://www.youtube.com/trumbullmfg)



## Valve Position Indicators

### Installation in Floor



- Eliminates broken valve stems caused by over-opening or over-closing
- Field-adjustable for any number of turns within the range of each model
- Constructed of heavy-duty, non-corrosive DuPont™ Delrin® polymer, providing high-impact resistance even in cold climates
- Double O-ring seals keep out water and dirt
- Third-party tested to over 1 million revolutions
- Provided with stainless steel hardware
- Also available 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)

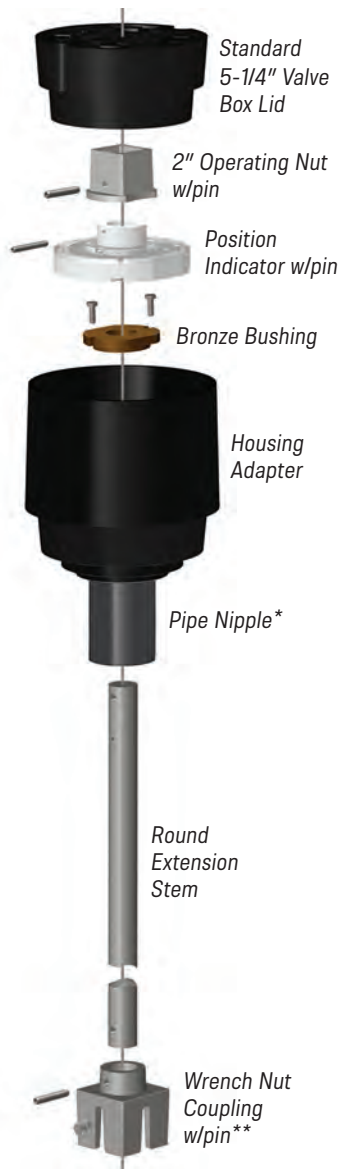
### Ordering Instructions

1. Specify direction of open (open left or open right)
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

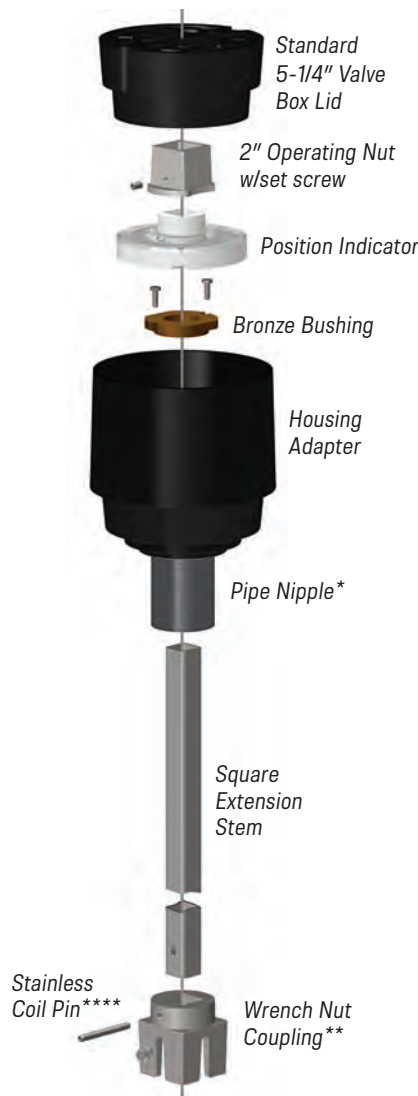
Model Number	Square Ext. Stem		Round Ext. Stem	
	Open Left Item No	Open Right Item No	Open Left Item No	Open Right Item No
57T	367-9394	367-9393	367-9404	367-9403
275T	367-9396	367-9395	367-9406	367-9405
870T	367-9400	367-9399	367-9410	367-9409

### Exploded Views

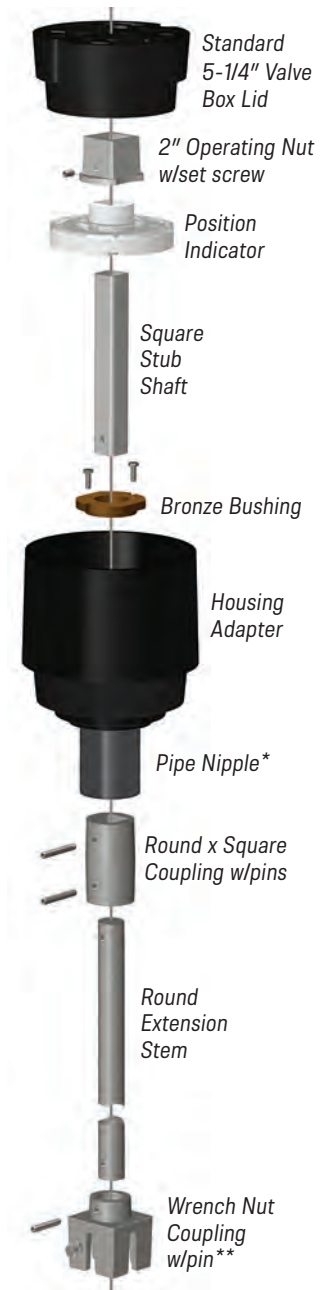
#### Extension Stem Installation in Floor



**ROUND EXTENSION STEM**



**SQUARE EXTENSION STEM\*\*\***



**ROUND EXTENSION STEM\*\*\*  
with Square Stub Shaft**

\* 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.

## Valve Position Indicators

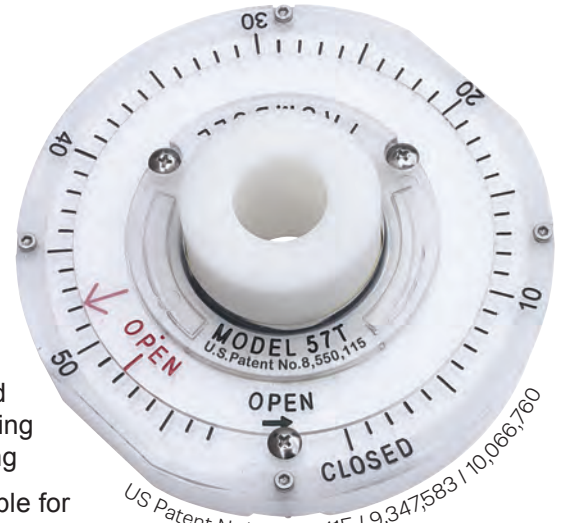
Installation with **Wall Bracket**



### WALL BRACKET

DUCTILE IRON  
Item No. **367-2450**

CAST 316 STAINLESS  
Item No. **367-2460**



- Eliminates broken valve stems caused by over-opening or over-closing
- Field-adjustable for any number of turns within the range of each model
- Constructed of heavy-duty, non-corrosive DuPont™ Delrin® polymer, providing high-impact resistance even in cold climates
- Double O-ring seals keep out water and dirt
- Third-party tested to over 1 million revolutions
- Provided with stainless steel hardware
- Also available for use in the floor (pages F-7 to F-8), and in Valve Boxes for buried service (pages F-1 to F-6)

### Ordering Instructions

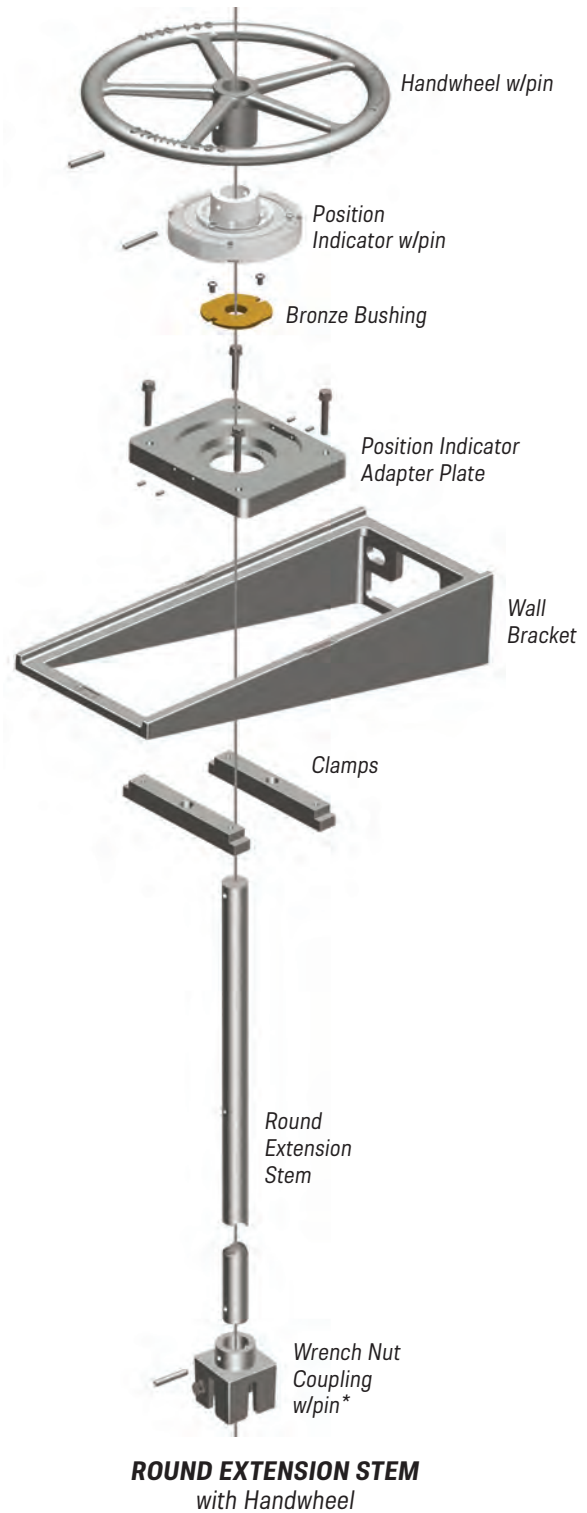
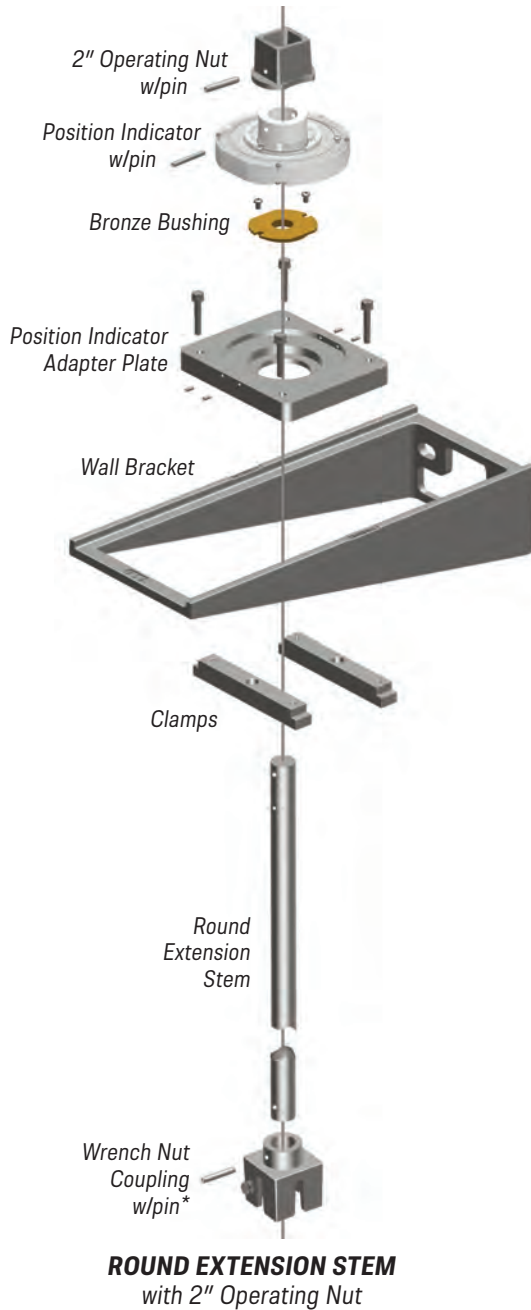
1. Specify direction of open (open left or open right)
2. Model required (available in 57, 275 or 870 turns)
3. Extension Stem required
  - a. Length required
  - b. Round (maximum OD of 1.75") see next page for details
  - c. Carbon steel or stainless steel

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

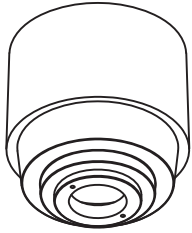


### Exploded Views

Round Extension Stems  
Installation with Wall Bracket



\* Wrench nut coupling normally furnished pinned to stem.



**Item Number:**  
 Domestic: 367-9417  
 Non-Domestic: 367-9416

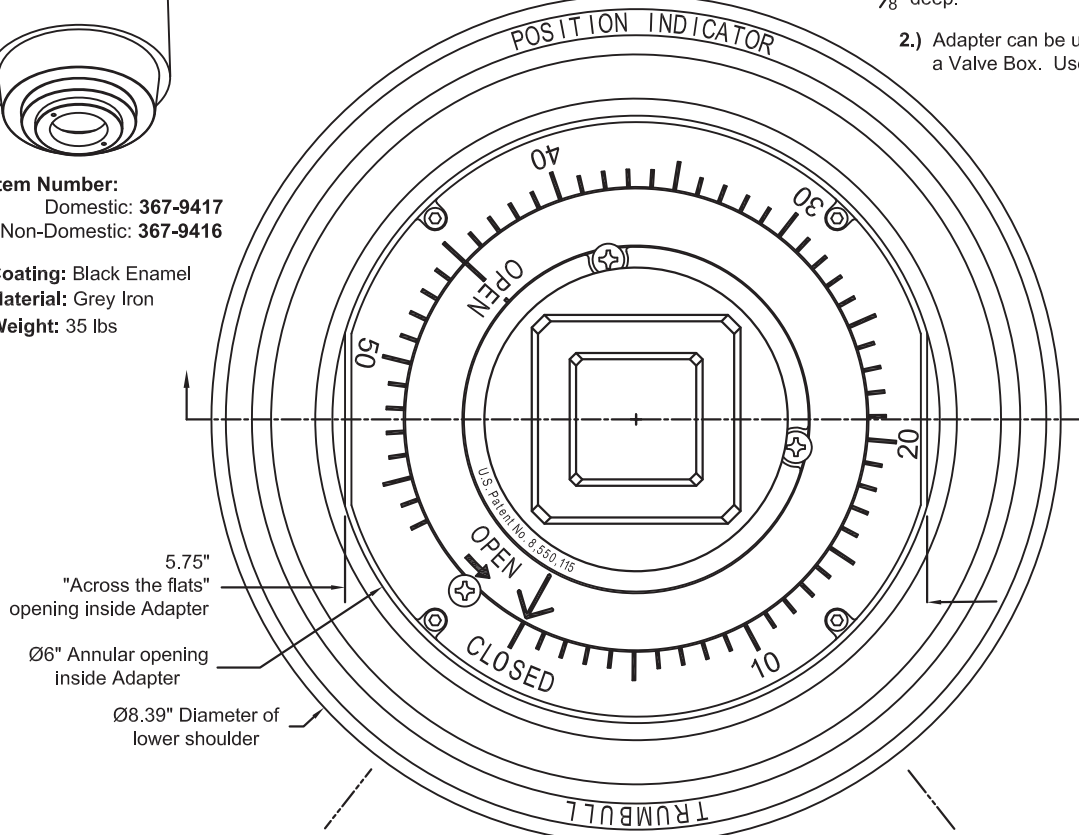
**Coating:** Black Enamel  
**Material:** Grey Iron  
**Weight:** 35 lbs

Typical top view  
**Position Indicator & Adapter**  
 (shown w/out Lid & Debris Shield)

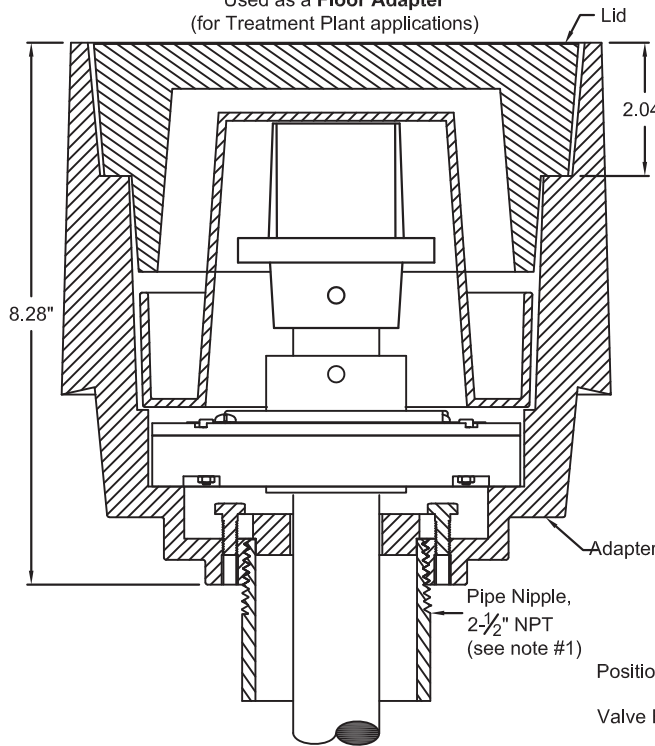
**Notes:**

- 1.) Use Pipe Nipple  $\frac{5}{8}$ " longer than the increase of floor slab required, as the threads on the underside of Adapter are  $\frac{5}{8}$ " deep.
- 2.) Adapter can be used with PVC C900 Pipe to form a Valve Box. Use Pipe sizes 6" or 8" DR 14.

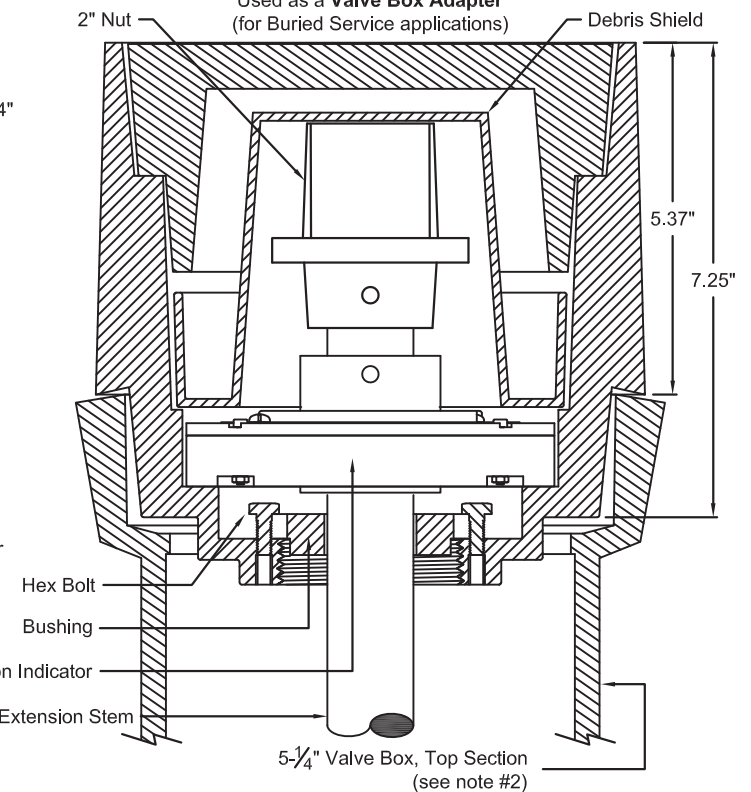
**US Patent No.'s**  
 8,550,115  
 9,347,583  
 10,066,760



Typical section view  
 Used as a **Floor Adapter**  
 (for Treatment Plant applications)



Typical section view  
 Used as a **Valve Box Adapter**  
 (for Buried Service applications)



**HOUSING ADAPTER FOR  
 POSITION INDICATOR**  
 Drawn to Scale

Drawn:  
 BJE  
 02/08/11

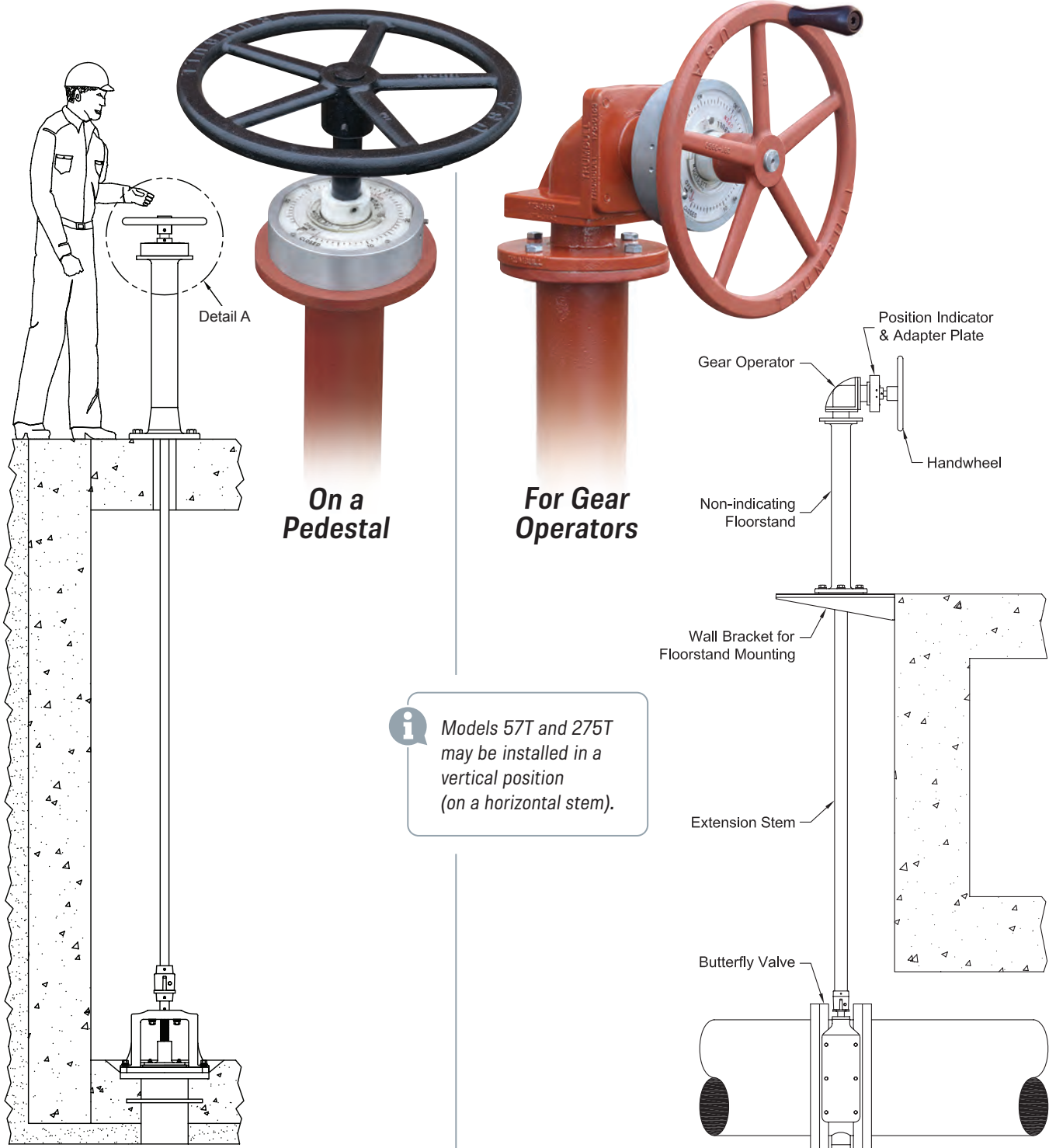
Revision:  
 BJE  
 © 09/10/18

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

## Valve Position Indicators

Installation with **Floorstands**

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

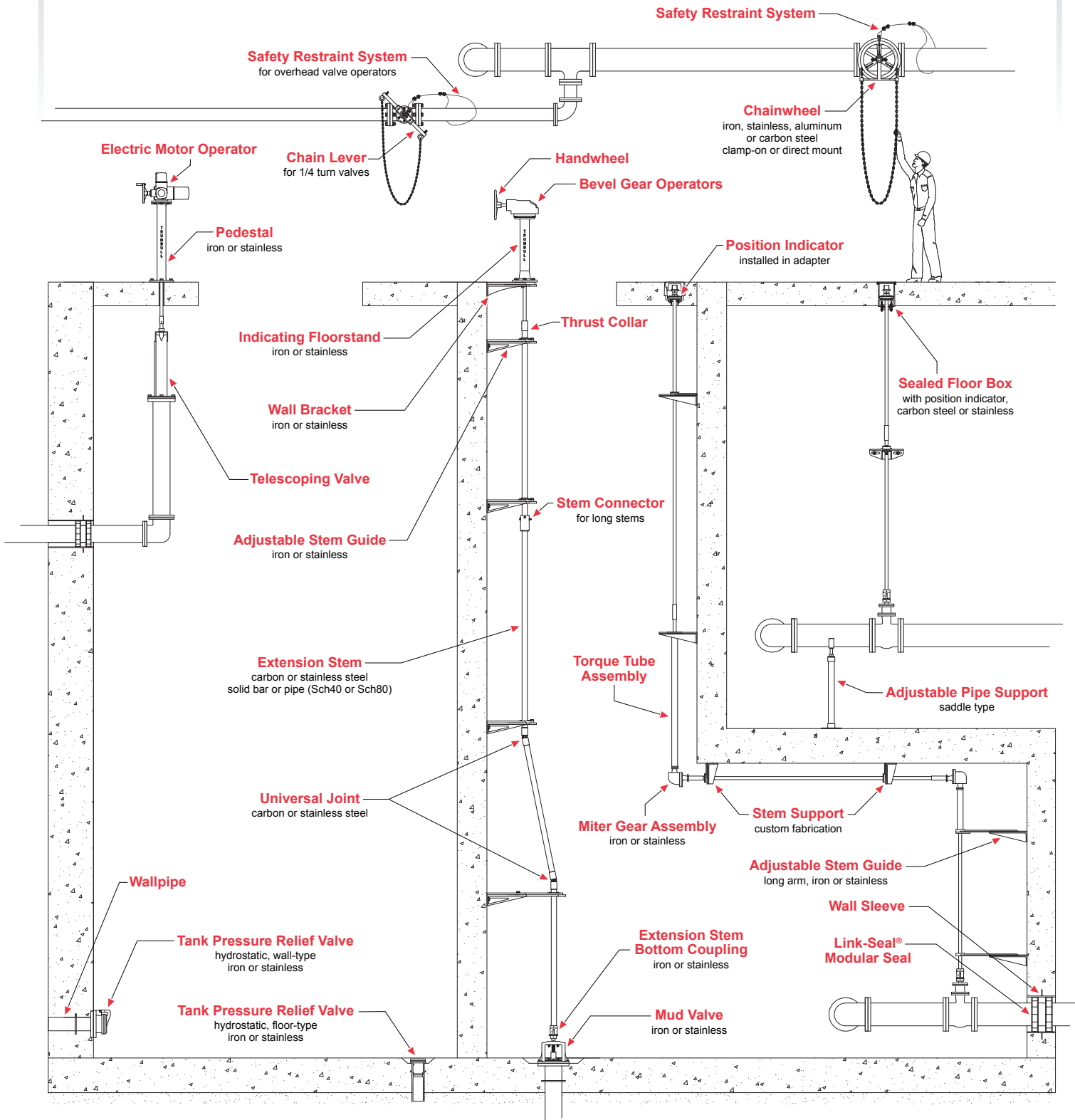


**i** Models 57T and 275T may be installed in a vertical position (on a horizontal stem).



### OVERVIEW

### Trumbull Treatment Plant Products





**Trumbull Manufacturing**  
3850 Hendricks Road, Youngstown, Ohio 44515

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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.

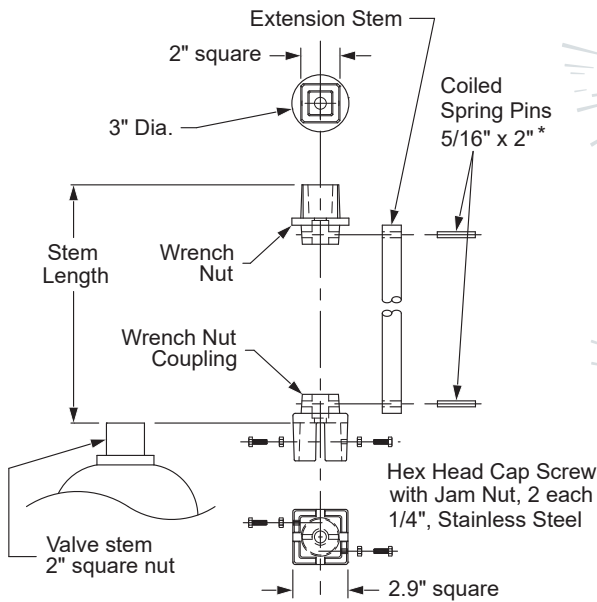
The extension stem is made up of an extension rod (or pipe), a 2” square top wrench nut (or handwheel), and a bottom wrench nut coupling. Wrench nut coupling fits over the 2” square nut of the valve stem being extended, held to the nut by two cap screws with jam nuts threaded in the bottom coupling.

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.

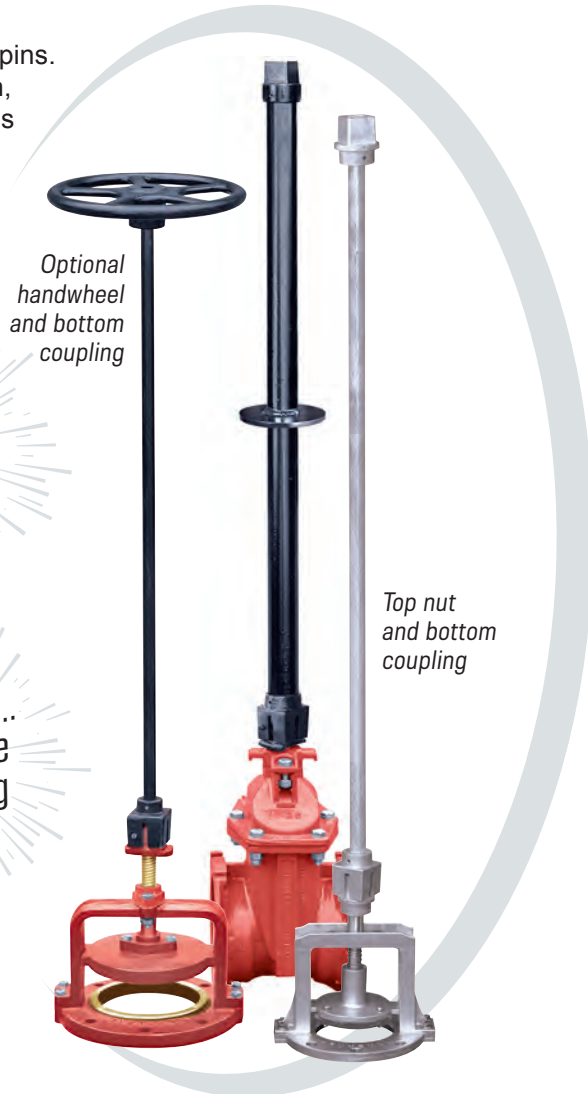
The top nuts and bottom couplings are available in either ductile iron, grade 65-45-12, or stainless steel, Type 316. The pinned connections permit the removal of the castings so the rod can slide through Trumbull Floor Boxes and Stem Guides. Extensions can easily be shortened by cutting the stem and re-drilling for the pin.

### EXTENSION STEM ASSEMBLY

Using a Wrench Nut and Wrench Nut Coupling



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



Optional  
handwheel  
and bottom  
coupling

Top nut  
and bottom  
coupling

"Stem  
Connectors  
Available!"

"Also  
Available...  
Adjustable  
Centering  
Rings!"

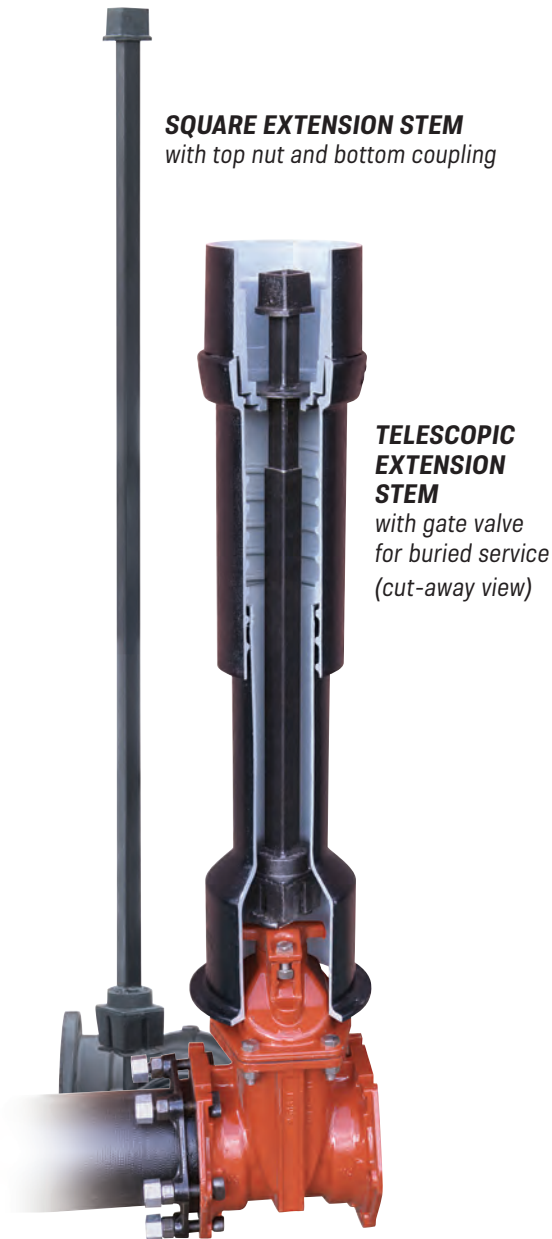


Extension Stems are normally furnished complete with top nut (or handwheel), rod, bottom coupling, two cap screws with jam nuts and pins. Top nuts and bottom couplings are also available for separate sale (see page G-4). Universal Joints, Thrust Collars and Miter Gears are also available. See page G-6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

## Square Valve Extension Stems

Telescopic and Non-Telescopic Types

Round Stems  
are shown on  
**PAGE G-2**



**SQUARE EXTENSION STEM**  
with top nut and bottom coupling

**TELESCOPIC  
EXTENSION  
STEM**  
with gate valve  
for buried service  
(cut-away view)



### 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.



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).



## Top Nuts and Bottom Couplings

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

DUCTILE IRON MODELS

Solid Rod	Max Torq* in ft-lb	Steel Pipe	Max Torq* in ft-lb	Bore Diameter	Top Nut	Bottom Coupling
					Item No	Item No
7/8"	340	1/2"	325	0.905"	367-4953	367-4963
1"	390	3/4"	410	1.155"	367-4954	367-4964
1-1/4"	480	----	----	1.265"	367-4905	367-4915
----	----	1"	510	1.330"	367-4901	367-4910
1-3/8"	530	----	----	1.390"	367-4955	367-4965
1-1/2"	580	1-1/4"	640	1.675"	367-4956	367-4966
1-3/4"	680	1-1/2"	740	1.929"	367-4957	367-4967
2"	775	----	----	2.047"	367-4958	367-4968
----	----	2"	920	**	367-4959	367-4969
1-1/4" square stems			***	----	367-4930	367-4938

STAINLESS STEEL

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" square 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.

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

### Cast Handwheels

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

### ORDERING INFORMATION

## Valve Extension Stems

#### COMPLETE ROUND EXTENSION STEMS

- Quantity
- Overall length — See “Stem Length” of drawing on page G-2.
- Order using the following chart:

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

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

#### EXTENSION STEM COMPONENTS ONLY

- 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.
- 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 SQUARE EXTENSION STEMS

- Quantity required
- Overall length
- Material type
  - carbon or stainless steel
  - 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.

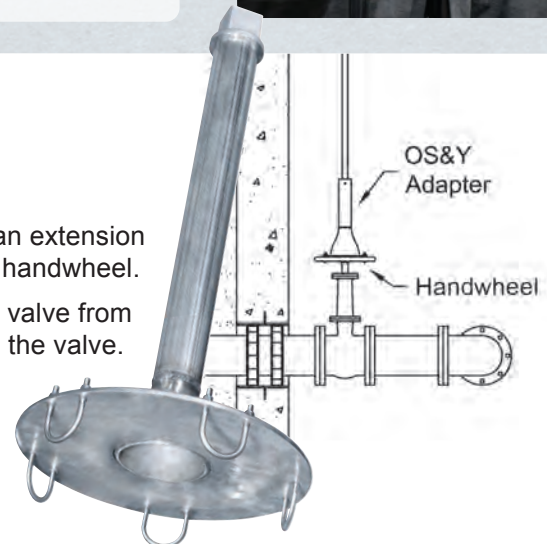


## OS&Y Adapters

“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.



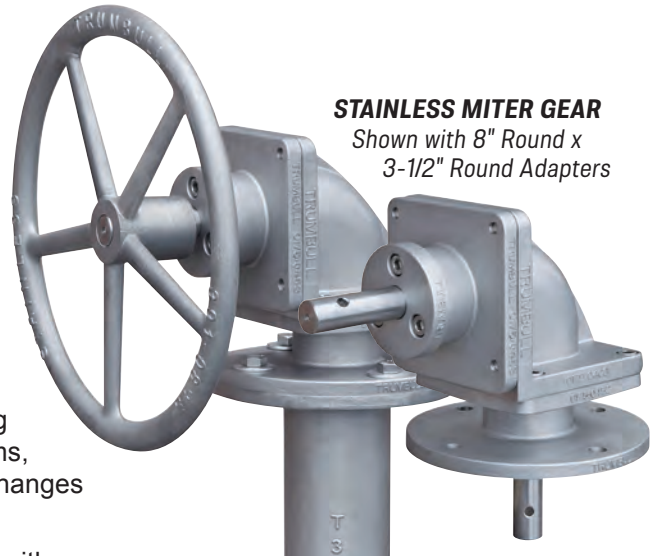
## Miter Gears

**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.

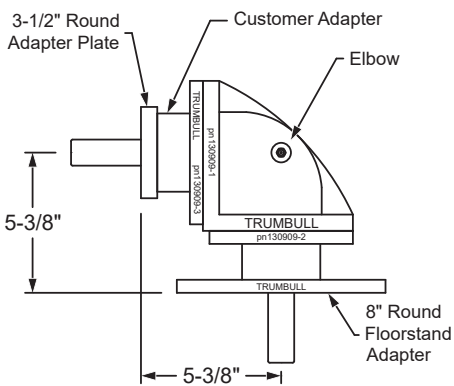


**STAINLESS MITER GEAR**  
Shown with 8" Round x 3-1/2" Round Adapters

**i** 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.

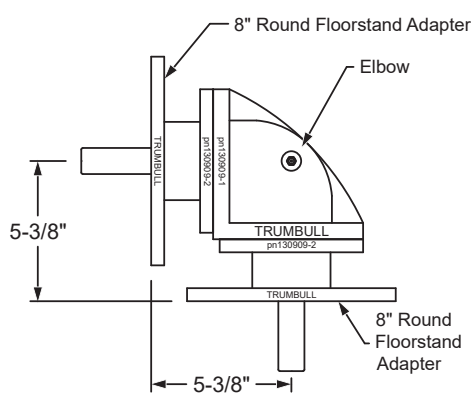
### MG1A

8" Round x 3-1/2" Round



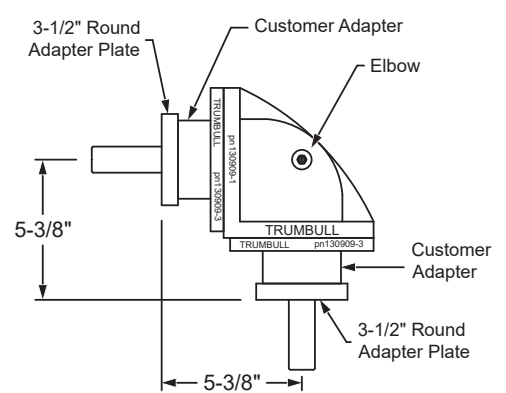
### MG1C

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	<b>MG1A</b>	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	<b>MG1C</b>	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	<b>MG3A</b>	32.00 lbs.	Both 3-1/2" Round ends for use with either extension stem assemblies, handwheel, or nut operators



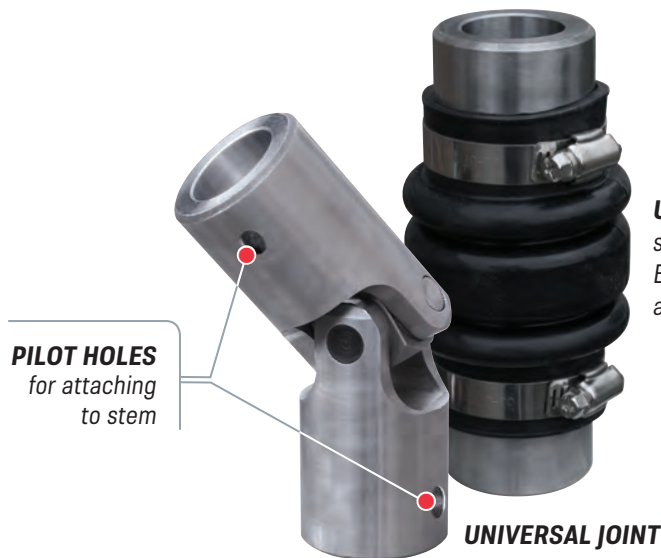
## Universal Joints

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.



**PILOT HOLES**  
for attaching  
to stem

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

**UNIVERSAL JOINT**

### Universal Joints\*

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

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

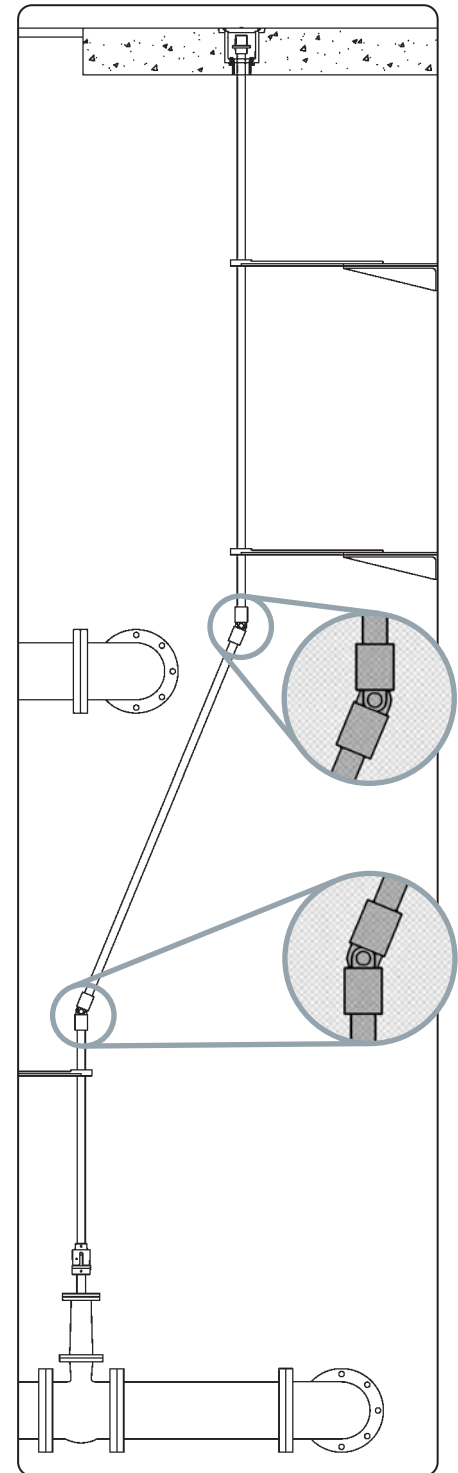
### Boot Assembly

Includes two clamps

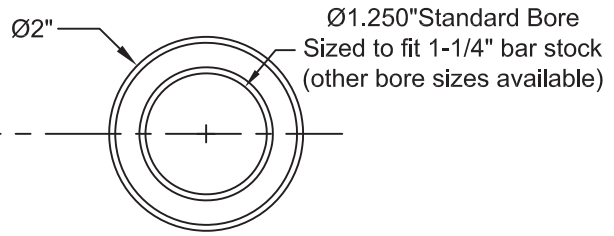
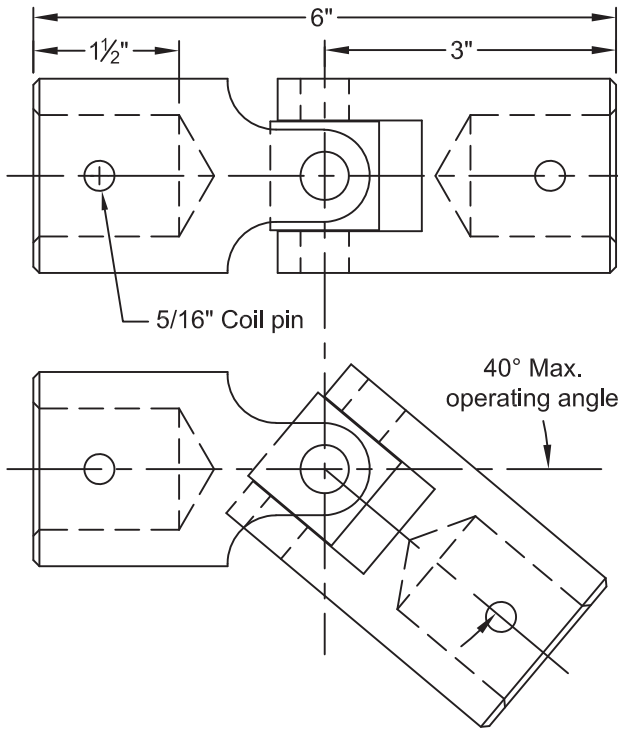
Item No	Weight
<b>367-8360</b>	0.20 lbs.

\* 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



**Notes:**

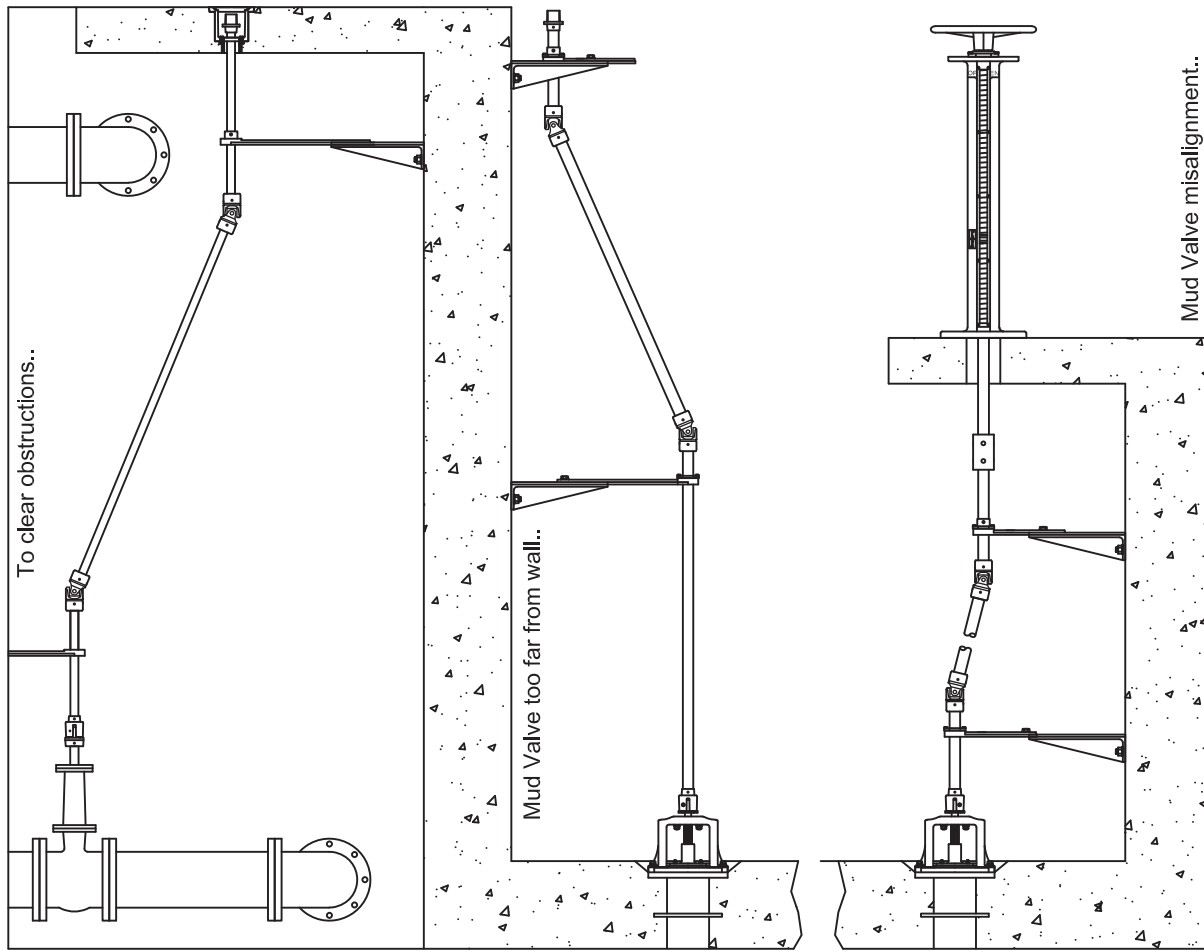
- 1.) Standard U-joint bore is sized to fit 1-1/4" bar stock.
- 2.) A EPDM Boot is recommended to protect the working knuckle of the joint, and can be packed with a water-proof lubricating grease for prolonged operating life. Grease by customer. The optional Boot includes a pair of stainless steel hose-type band clamps.
- 3.) The U-Joint is intended for manual operation. Contact Trumbull for use with electric actuators.

**Material:**

- Carbon Steel, C1045 (Item no. 367-8352)
- Stainless Steel, 304 (Item no. 367-8355)
- Stainless Steel, 316 (Item no. 367-8356)

**Load rating:**

U-Joint is capable of withstanding torsional loads up to 300 ft-lb. Consult engineering if a greater torsional load is required.



**UNIVERSAL JOINTS**  
**CARBON STEEL & STAINLESS STEEL**  
 Drawn to Scale

Drawn:  
 BJE  
 05/21/14

Revision:  
 BJE  
 (B) 05/13/19

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

## 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.

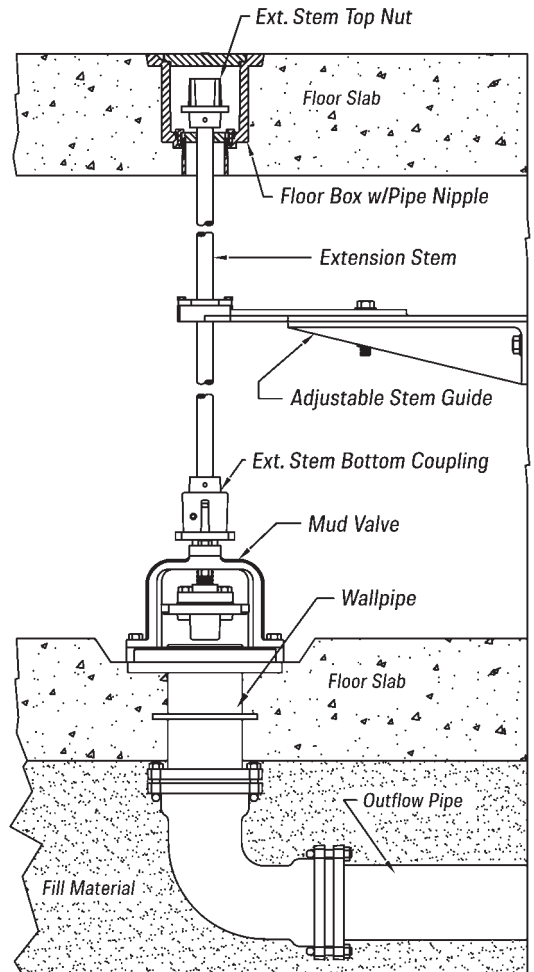
When a stem is required that is larger than the 2-1/2" pipe I.D., a 3" pipe nipple will be welded to the bottom of the Floor Box.

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.

Item No	Weight
<b>367-4620</b>	25.65 lbs.

NOT for use with Valve Position Indicators.

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



Typical Floor Box installation

Bushings are available in:

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

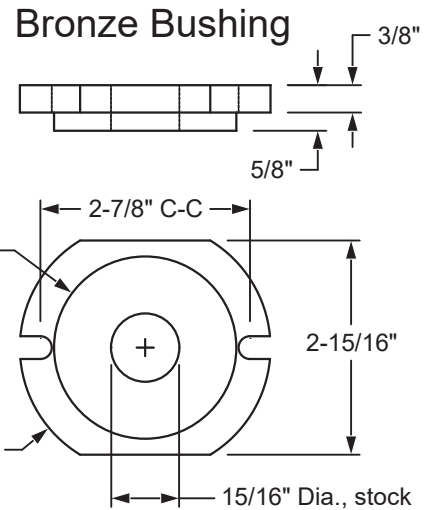
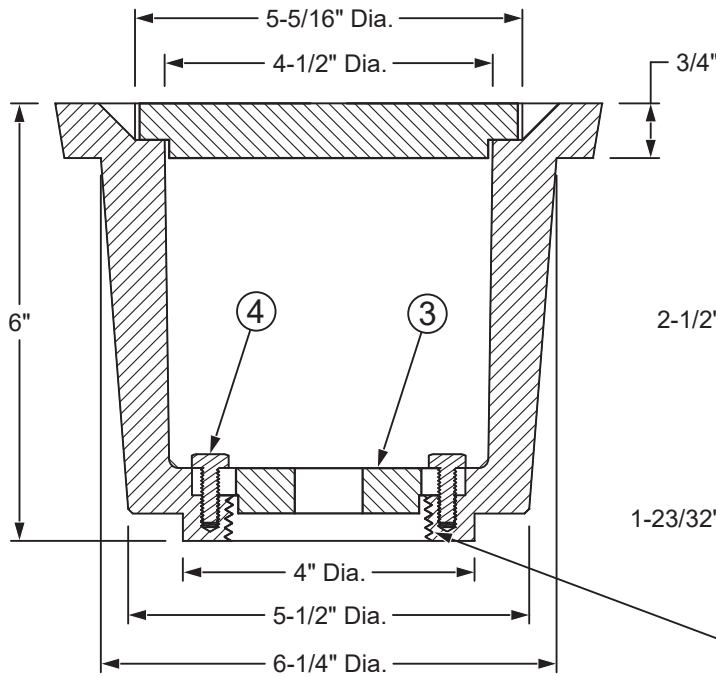
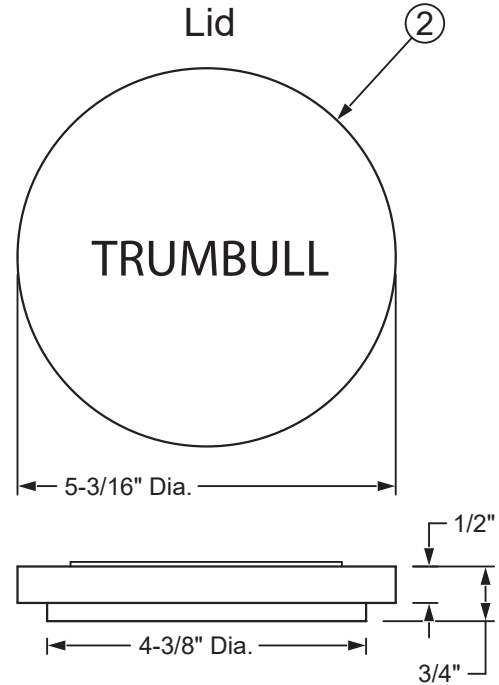
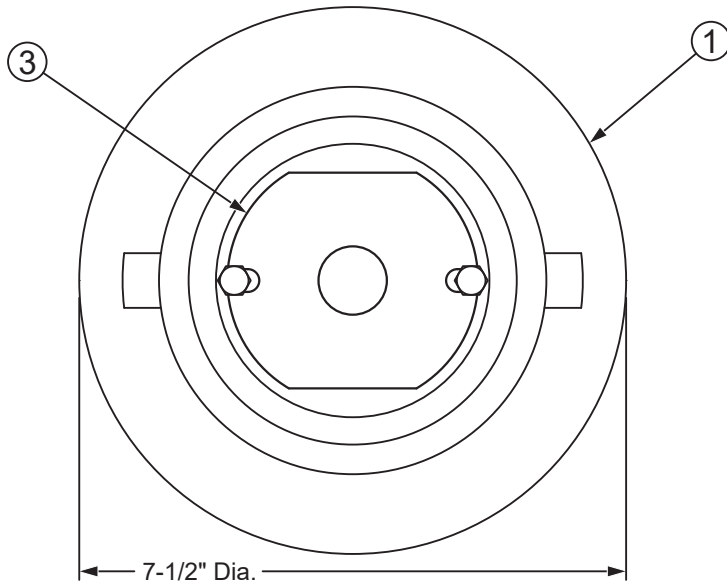
### Ordering Instructions

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

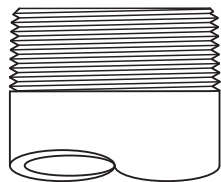
When Valve Position Indicator is installed in a floor, use the cast iron **HOUSING ADAPTER** illustrated on pages F-1 – F-8, or the **SEALED FLOOR BOXES** shown on pages G-13 – G-16.



Item	Component	Material
1	Body	Cast Iron, A126(B)
2	Lid	Cast Iron, A126(B)
3	Bushing	Low-Lead Brass
4	Screw, Hex Head	Stainless Steel, Type 316



The bottom of the Floor Box casting is tapped with a 2-1/2" NPT thread.




Use a pipe nipple 1/2" longer than the increase in floor slab thickness required, as the tapped thread is 1/2" deep.

Coated all over with black enamel rust preventative.

# CAST IRON FLOOR BOX

Drawn to Scale

Drawn:  
FCN  
04/04/94

Revision:  
FCN  
 04/07/15

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

## 6" Sealed Floor Boxes

Available in Cast Carbon Steel and Cast Stainless Steel



**SOCKET HEAD CAP SCREWS**  
furnished standard

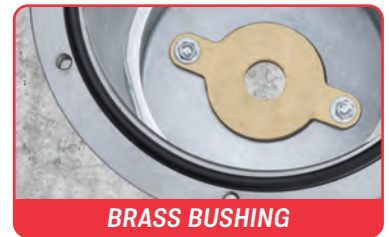
**BUNA-N O-RING**

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

**STAINLESS STEEL  
SEALED FLOOR BOX**  
shown with optional  
packing gland



**PACKING GLAND**



**BRASS BUSHING**



**RECESSED NAME PLATE**



**SECURITY SCREWS**



**PIPE NIPPLE (To Extend Length)**

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 Indicators.

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

**i** 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

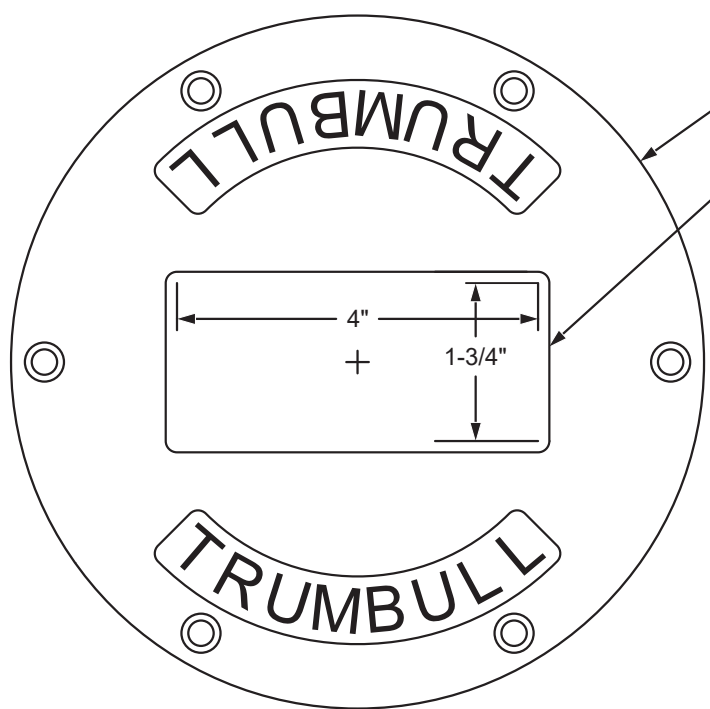
Material	Item No	Weight
Carbon Steel*	<b>367-4623</b>	24.20 lbs.
316 Stainless Steel	<b>367-4624</b>	23.50 lbs.

\* Carbon steel models are EDP coated.

### Optional Accessories

Available as special order

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



7-11/16", Lid diameter

Flat surface for custom nameplate or valve tag; consult Trumbull.

4"  
+  
1-3/4"

Lid, Lid Fasteners, and O-Ring Lid Seal are included.

Lid Fasteners

Lid

O-Ring Lid Seal

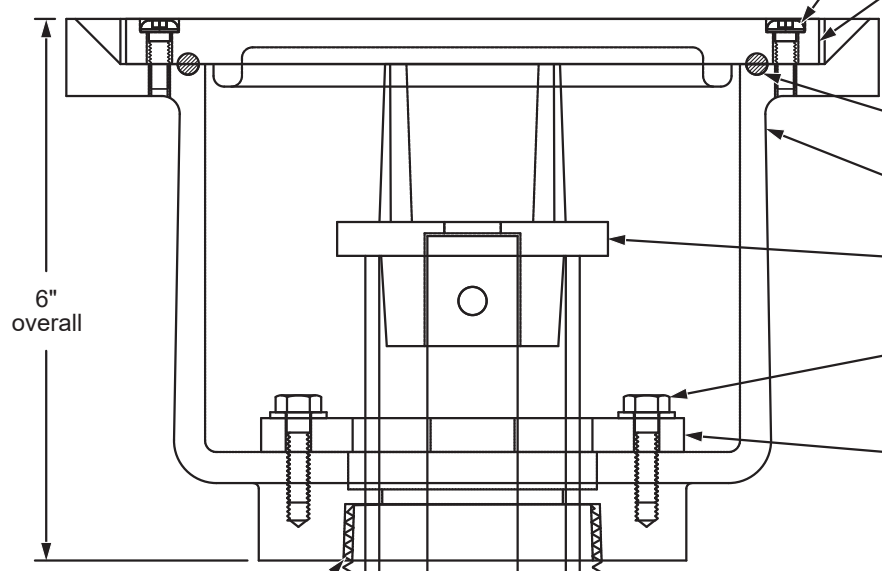
Floor Box Canister

2" Operating Nut, Optional

Fasteners, optional

Bushing, optional

Packing Glands are also available.



6"  
overall

Casting tapped for 2-1/2" NPT nipple. (not included)

2" Sch40 Pipe stem (Stems are optional.)

1" Solid Rod stem (Stems are optional.)

Notes:  
Available in cast stainless or cast carbon steel. Stainless steel components are Type 316. Carbon steel components are EDP coated. For Bushing, specify bore dia. desired. For Packing Gland, specify stem dia. and type of packing material required.

**SEALED FLOOR BOX**  
**CAST T316SS or CS - 6" OAH**  
Drawn to Scale

Drawn:  
FCN  
02/19/18

Revision:  
FCN  
**A** 02/19/18

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



## 11-1/8" Sealed Floor Boxes

Available in Cast Carbon Steel and Cast Stainless Steel

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



### 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

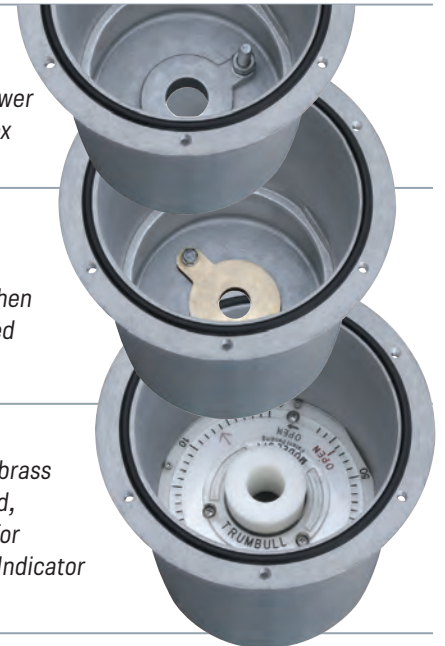
with stainless steel follower seals bottom of Floor Box

#### 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.



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.

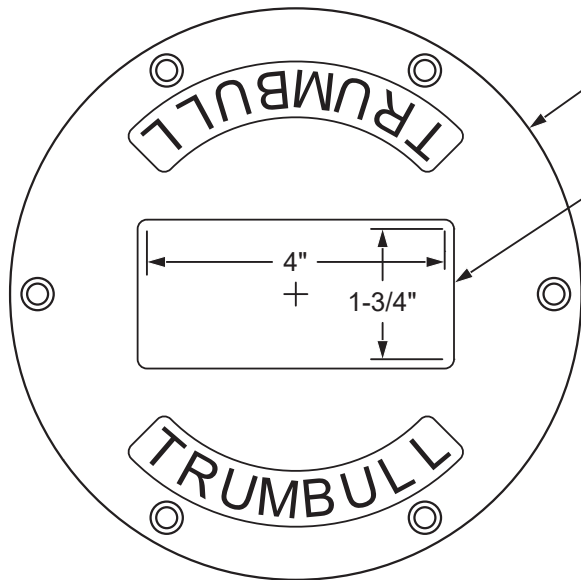
### Floor Boxes

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

\* Carbon steel models are EDP coated.

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

See Page G-13 for other custom options.



7-11/16", Lid diameter

Flat surface for custom logo;  
consult Sales Rep. for details.

4"  
+  
1-3/4"

Lid Fasteners

Lid

O-Ring Lid Seal

Floor Box Canister

2" Operating Nut, optional

Position Indicator, optional

Fasteners, optional

Bushing, optional

11-1/8"  
overall

**Notes:**

Canister, Lid, and fasteners are T316 stainless.  
Also available in cast carbon steel.  
Carbon steel model is EDP coated.  
Available plain, with Bushing, or Packing Gland.  
For Bushing, specify bore dia. desired.  
For Packing Gland, specify Stem Dia. and type  
of Packing Material required.  
Pipe nipple for extending length is not furnished.  
Lid O-Ring and fasteners are included.  
Position Indicator is a recommended option.

The bottom of the Floor Box casting  
is tapped with a 2-1/2" NPT thread.

Pipe Nipple  
optional

Valve Stem, optional

**SEALED FLOOR BOX**  
**CAST T316SS or CS - 11" OAH**  
Drawn to Scale

Drawn:  
FCN  
05/29/14

Revision:  
FCN  
**D** 04/25/15

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

## Extended Bonnets

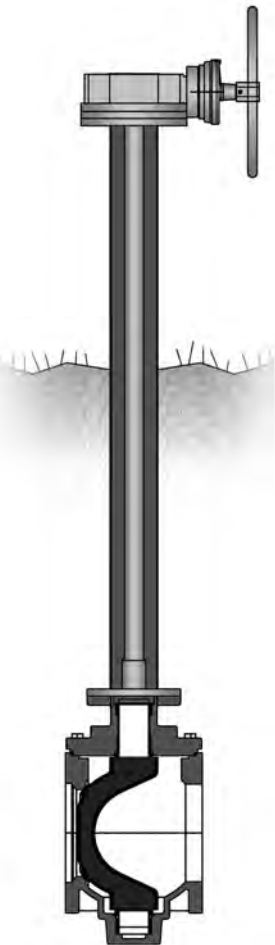
Extended Bonnets are typically provided on valves when there is a need to move the valve operator a set distance away from the valve body. Buried and submerged service installations are the most common Municipal applications.

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.

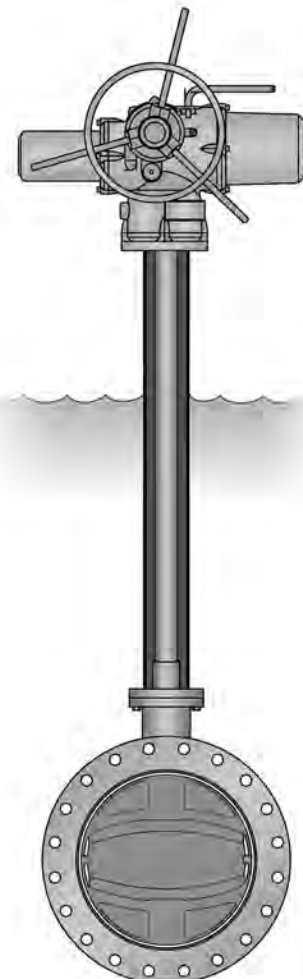
### **Buried Service**

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



### **Submerged Service**

*Extended Bonnets are for applications where the valve is installed submerged in a tank and operated from above the water level.*





MK-#	Description	Qty/Assem.
1	Upper Stem Adapter	1 Piece
2	Centering Washer (See Options)	1 Piece
3	Top Flange (See Options)	1 Piece
4	Pedestal	1 Piece
5	Extension Stem	1 Piece
6	Lower Stem Adapter	1 Piece
7	Bottom Flange (See Options)	1 Piece

### Extended Bonnet Data

Extension Stem:

Material:

Carbon Steel \_\_\_\_\_  
 304SS \_\_\_\_\_  
 316SS \_\_\_\_\_

Upper Stem Adapter:

Diameter \_\_\_\_\_  
 Key Size \_\_\_\_\_  
 Key Length \_\_\_\_\_  
 Stem Projection, Dim "A" \_\_\_\_\_

Lower Stem Adapter:

Bore Diameter \_\_\_\_\_  
 Key Size \_\_\_\_\_  
 Key Length \_\_\_\_\_  
 Stem Engagement, Dim "B" \_\_\_\_\_

Bonnet Extension:

Material:

Carbon Steel \_\_\_\_\_  
 304SS \_\_\_\_\_  
 316SS \_\_\_\_\_

Ext. Bonnet Length, Dim "C" \_\_\_\_\_

Upper Flange Pattern \_\_\_\_\_  
 Centering Counterbore Req'd \_\_\_\_\_  
 Lower Flange Pattern \_\_\_\_\_  
 Centering Shoulder Req'd \_\_\_\_\_

HDPE Centering Disc Req'd \_\_\_\_\_

Valve Information:

Valve Type \_\_\_\_\_  
 Valve Size \_\_\_\_\_  
 Max Operating Torque \_\_\_\_\_

Valve Operator Information:

Manual \_\_\_\_\_  
 Electric \_\_\_\_\_  
 Max Torque \_\_\_\_\_

Extended Bonnet Coating:

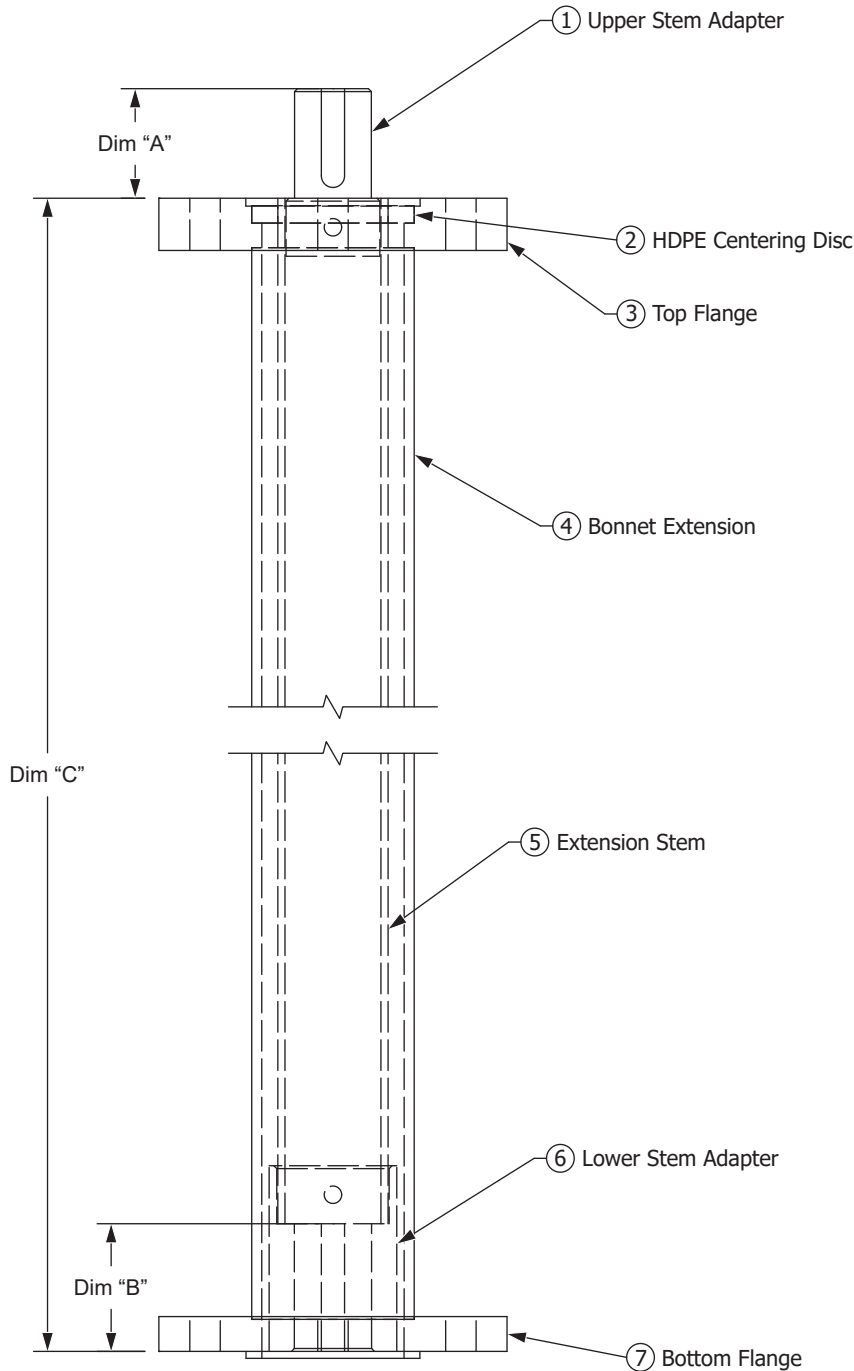
Red Oxide Primer (standard) \_\_\_\_\_  
 Other (Please Specify Below) \_\_\_\_\_

### Project Information

Project Name: \_\_\_\_\_  
 Project City: \_\_\_\_\_  
 Project State: \_\_\_\_\_  
 Qty. Req'd: \_\_\_\_\_

### Customer Information

Customer: \_\_\_\_\_  
 Contact Name: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_  
 Reference #: \_\_\_\_\_



**Extended Bonnet Assembly**  
 Drawn to Scale

Drawn:  
 NJC  
 01/27/20

Revision:  
 N/A

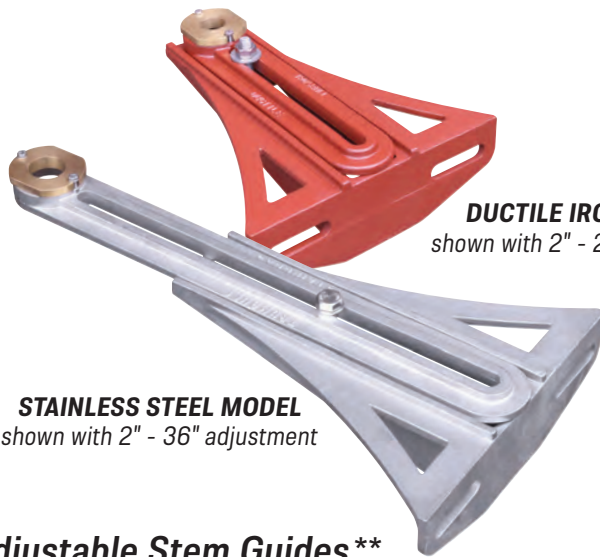
**Trumbull Manufacturing**  
 Youngstown, Ohio  
 www.trumbull-mfg.com

## 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 IRON MODEL**  
shown with 2" - 26" adjustment

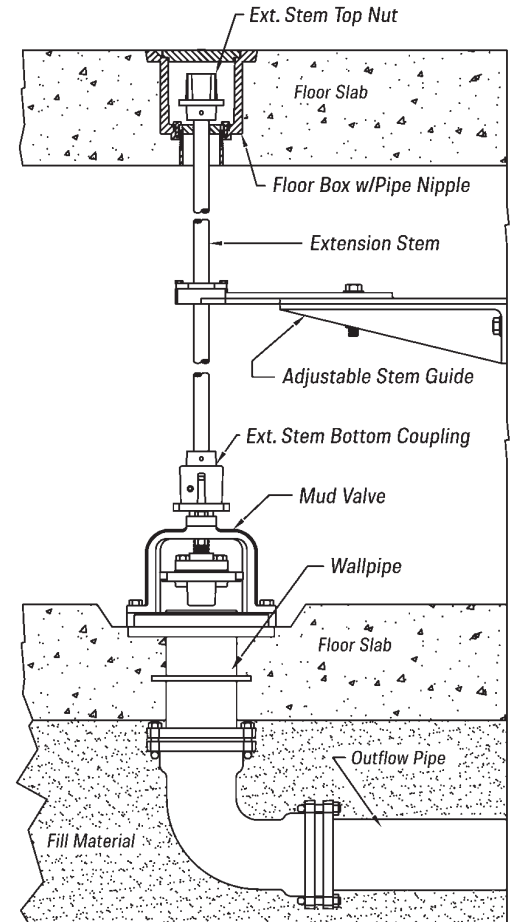
**STAINLESS STEEL MODEL**  
shown with 2" - 36" adjustment

### Adjustable Stem Guides\*\*

Adjustment Range	Ductile Iron		316 Stainless Steel	
	Domestic Item No	Non-Domestic Item No	Domestic Item No	Non-Domestic Item No
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.



Typical Stem Guide installation

**i** 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 accommodated, up to 2-3/8" O.D. See pages G-21 - G-24 for Stem Guides for larger diameter stems.

### Ordering Instructions

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

Bushings are available in:

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

Item No.	Size	Weight
----------	------	--------

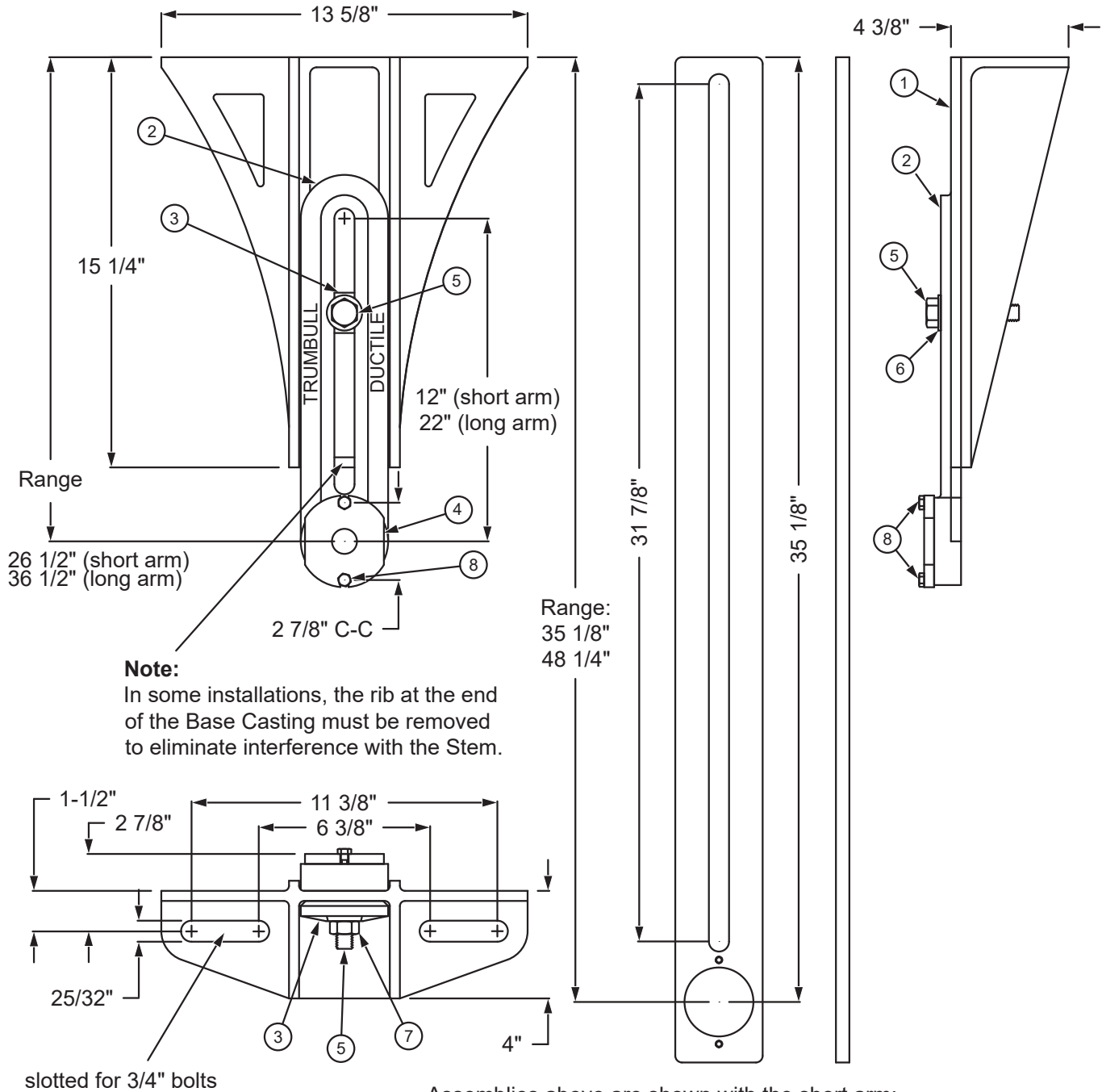
**Ductile Iron Guides (65-45-12)**

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.



**Note:**  
In some installations, the rib at the end of the Base Casting must be removed to eliminate interference with the Stem.

Assemblies above are shown with the short arm;  
use the separate arm shown above to make the 36" to 48" stem guide.

**ADJUSTABLE STEM GUIDES**  
Drawn to Scale

Drawn:  
FCN  
04/25/15

Revision:  
FCN  
**M** 07/24/19

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



## 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.

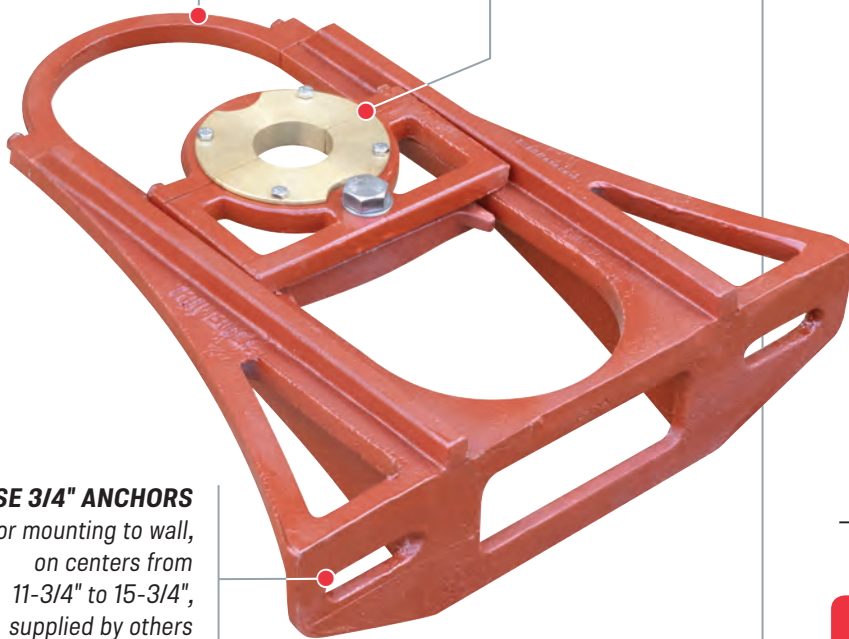
**i** Stem Guides are generally recommended at 6' to 8' intervals.

### END CAP DESIGN

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

### SPLIT BUSHINGS

simplify the installation of larger diameter extension stems



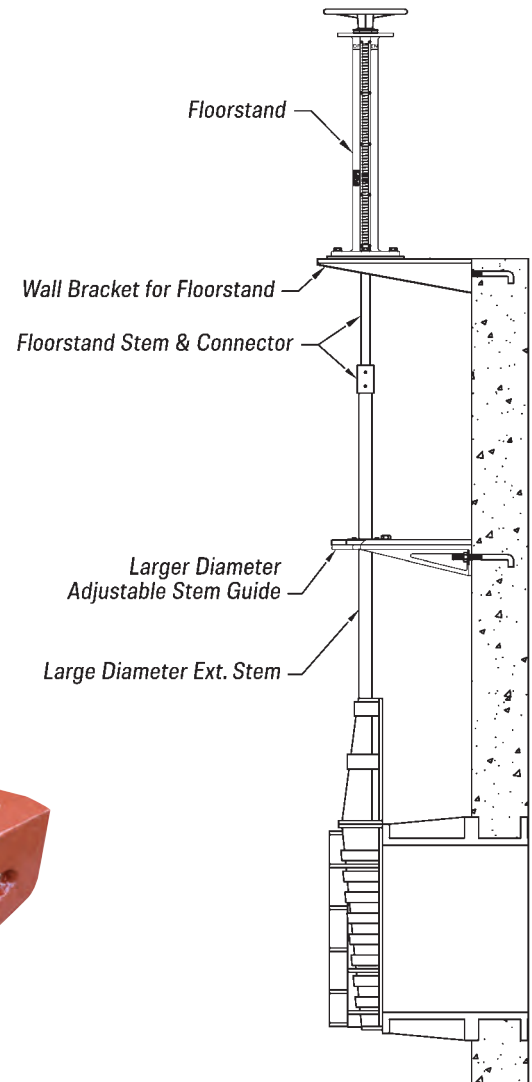
### USE 3/4" ANCHORS

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

Item No	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

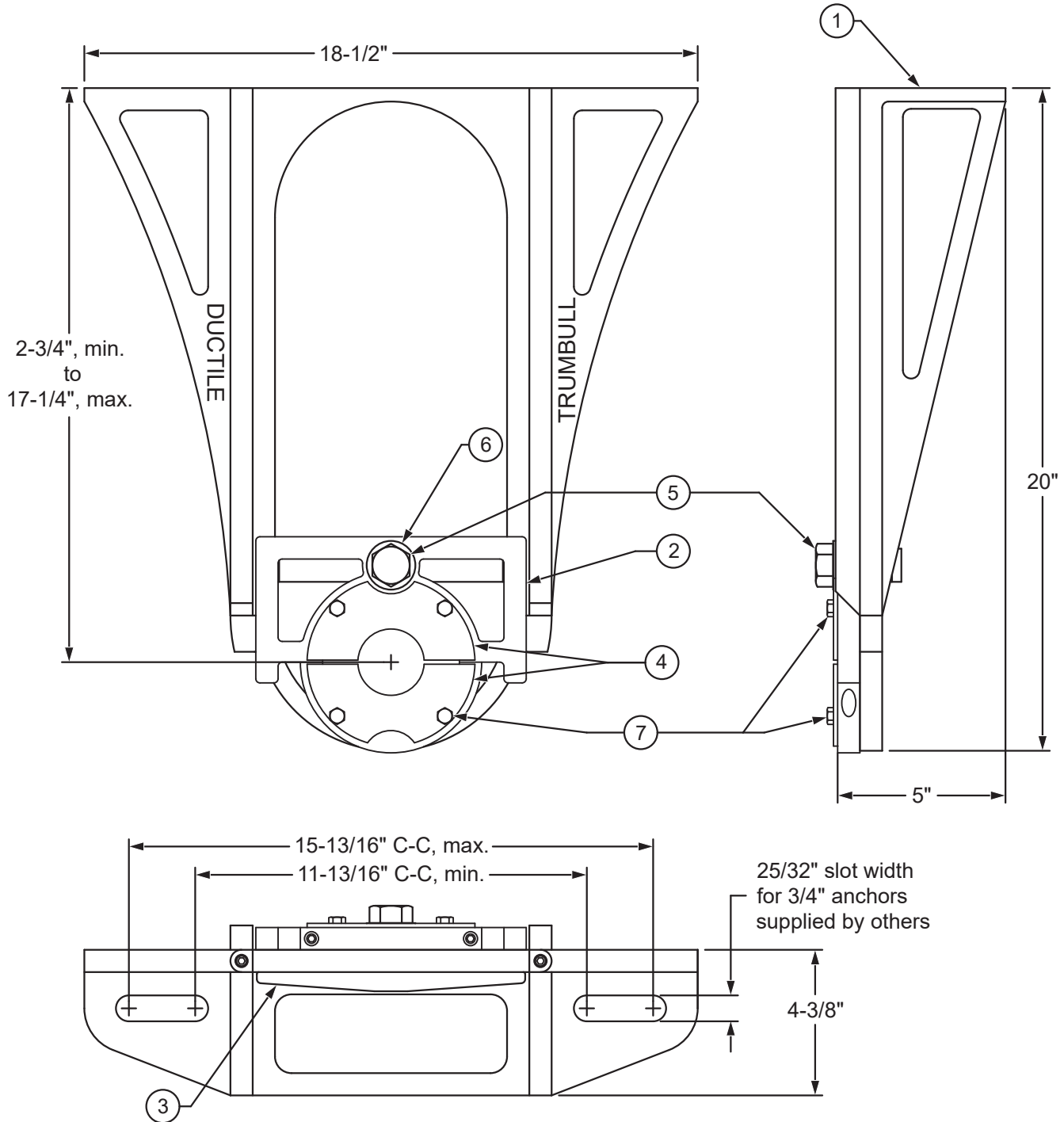
1. Quantity required
2. Trumbull item number
3. O.D. of stem being used, or desired bushing material & hole size

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.



## LARGE BORE STEM GUIDE

Drawn to Scale

Drawn:  
FCN  
08/23/99

Revision:  
FCN  
04/07/15

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

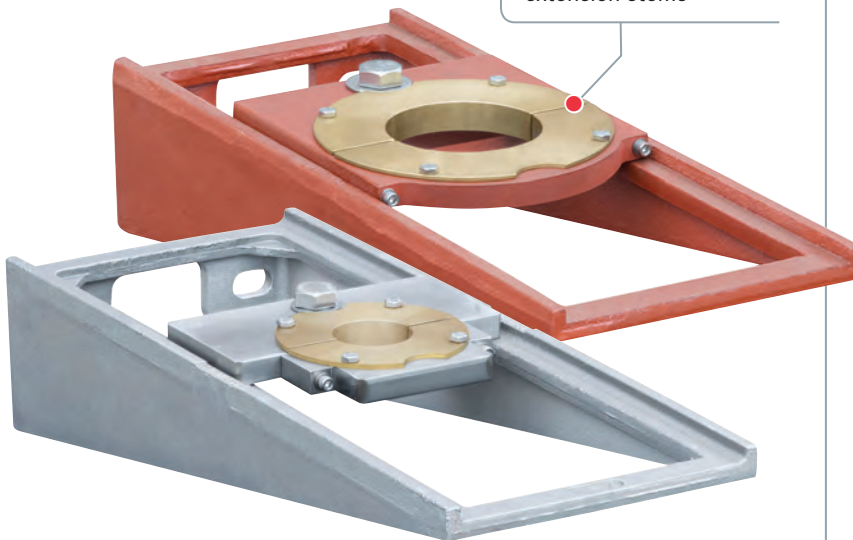
## Larger Diameter Adjustable Stem Guides

### 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.

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

**SPLIT BUSHINGS**  
simplify the installation  
of larger diameter  
extension stems



### Ductile Iron

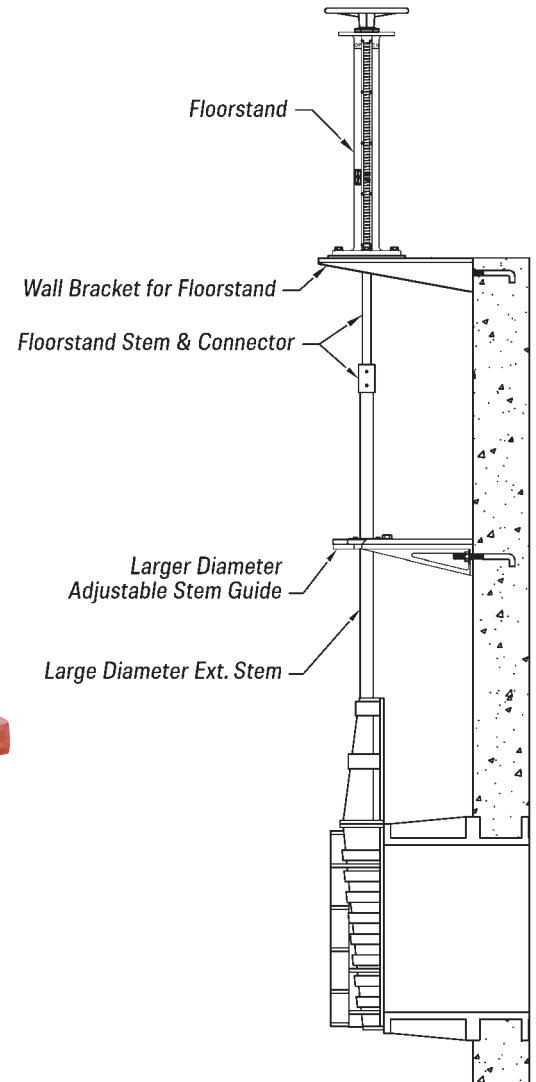
Item No	Adjustment Range	For Stem Diameters	Weight
367-2454	4" to 18" *	4" to 6-1/2"	38.65 lbs.

### 316 Stainless Steel

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

\* Adjustment range dependent on stem diameter

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



Typical installation

### Ordering Instructions

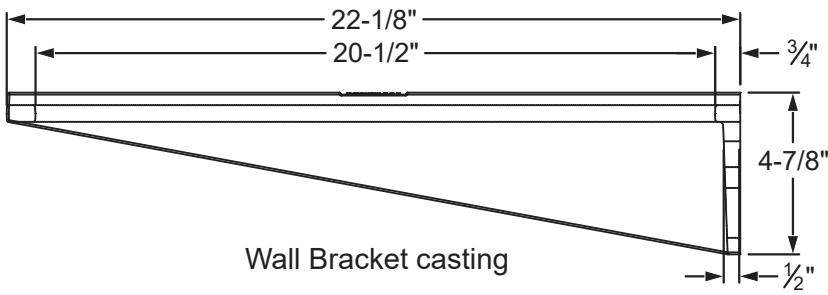
1. Quantity required
2. Trumbull item number
3. O.D. of stem being used, or desired bushing material & hole size

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

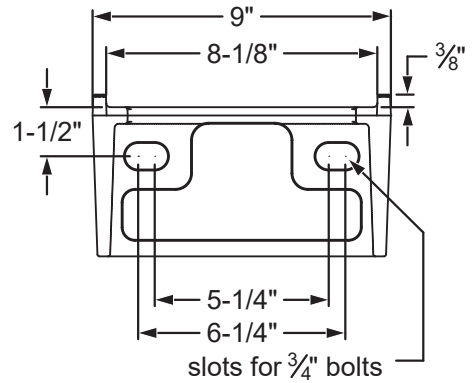
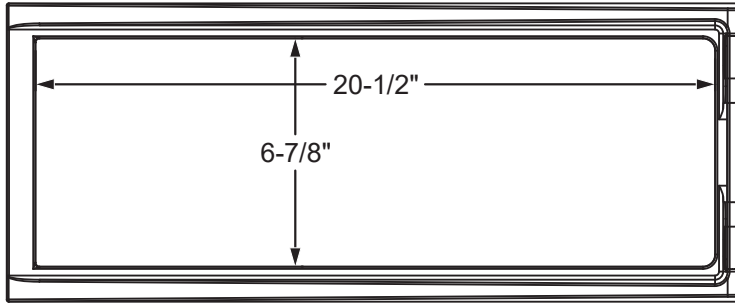
2-1/8" for item 367-2463

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





Wall Bracket casting



**Wall Bracket with  
Large Bore Stem Guide Kit**

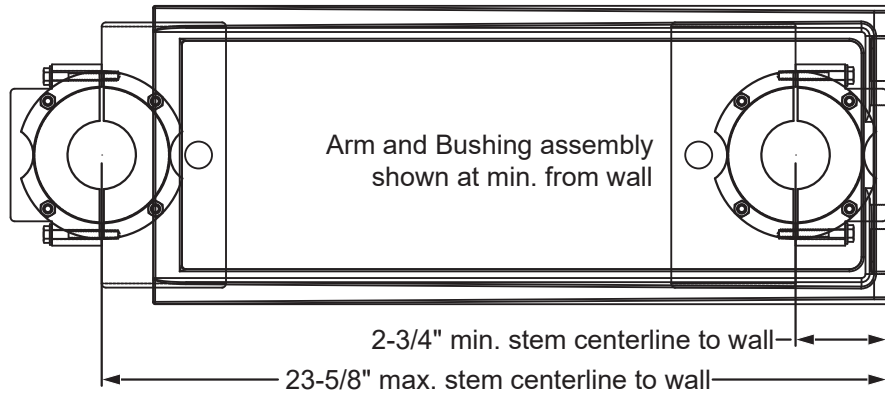
Wall Bracket SS, Stems 2" - 4" No. 367-2463

Wall Bracket SS, Stems 4" - 6-1/2" No. 367-2464

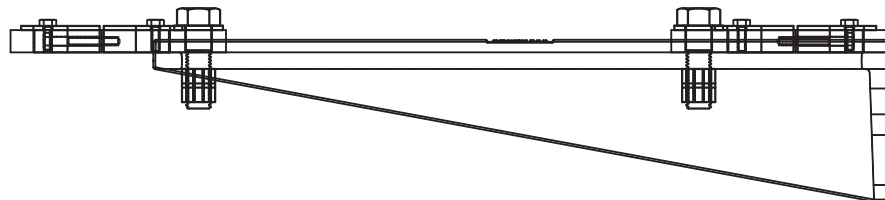
Mounting kit includes clamps and fasteners

Arm and Bushing assembly  
shown at max. from wall

Arm and Bushing assembly  
shown at min. from wall



Typical Arm and Bushing  
Assembly

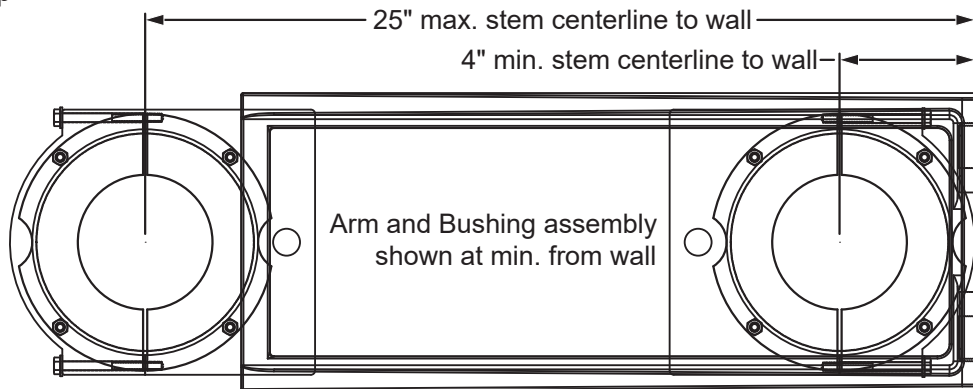


Typical  
Arm Clamp  
and Bolt



Arm and Bushing assembly  
shown at max. from wall

Arm and Bushing assembly  
shown at min. from wall



**LARGE BORE STEM GUIDE  
WALL BRACKET STYLE**

Drawn to Scale

Drawn:  
FCN  
07/26/19

Revision:  
FCN  
A 07/26/19

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

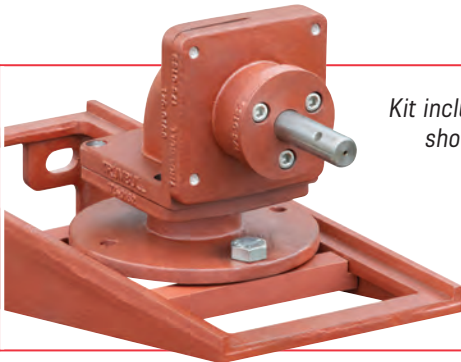
## Wall Brackets

Designed to Accommodate a Variety of Different Applications

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



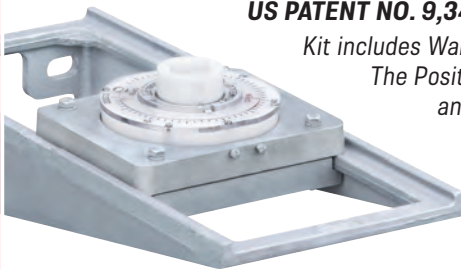
MITER GEAR APPLICATIONS



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

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

VALVE POSITION INDICATOR APPLICATIONS

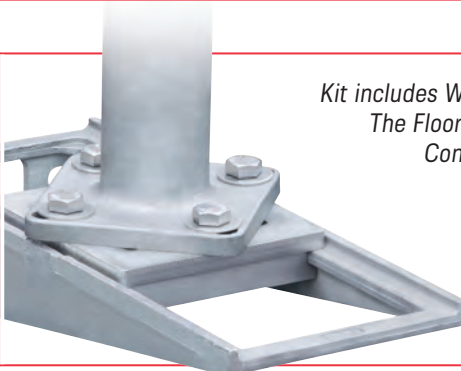


**US PATENT NO. 9,347,583** (See page F-9 for detailed illustration)

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

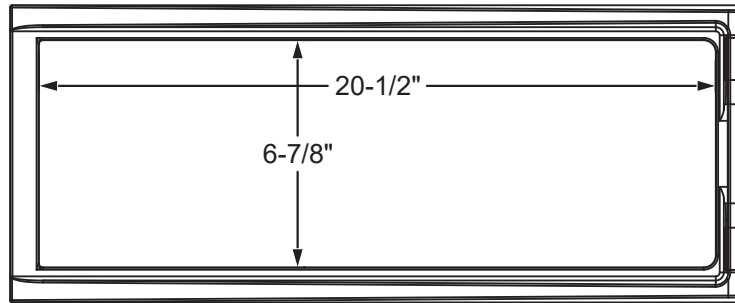
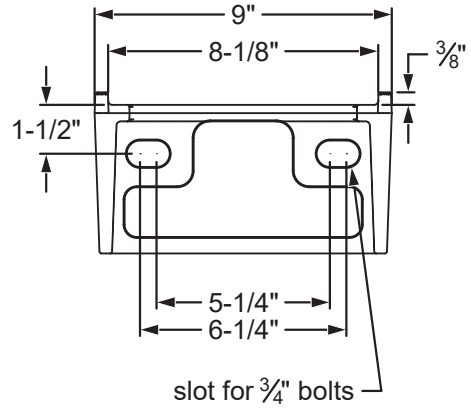
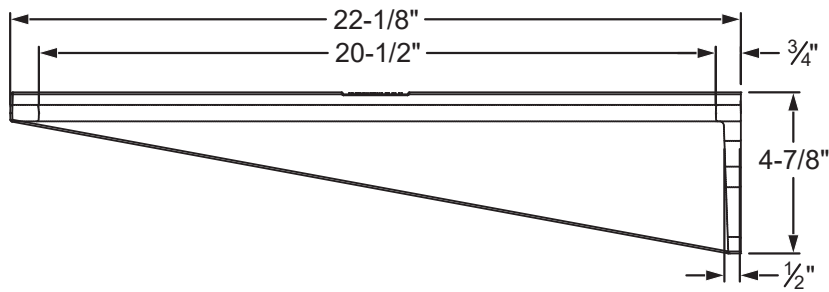
FLOORSTAND & PEDESTAL APPLICATIONS



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.

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

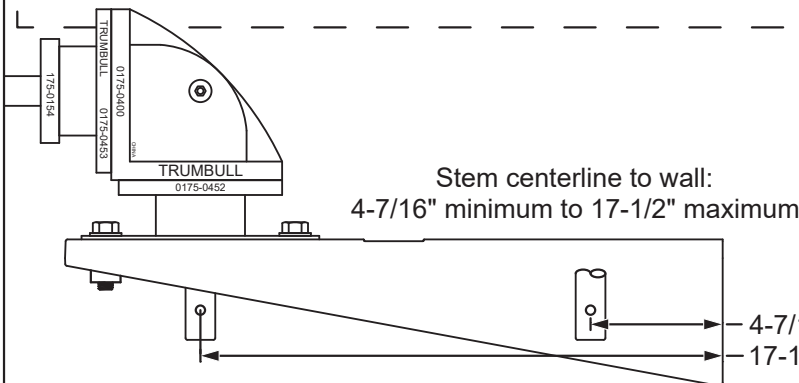
Wall Brackets are also used as a Larger Diameter Stem Guides, as shown on pages G-23 and G-24.



### Wall Bracket Casting

Base unit, order with kits shown on the bottom of page

Wall Bracket (Ductile Iron) - No. 367-2440  
Wall Bracket (Stainless) - No. 367-2426

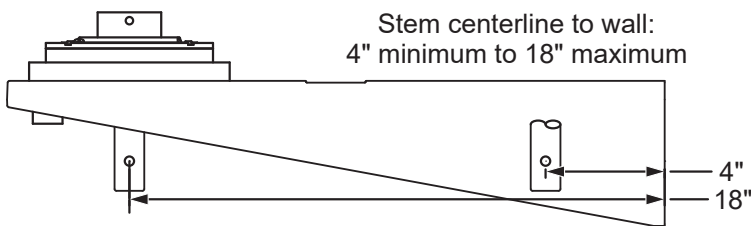


### Wall Bracket with Miter Gear and Kit

Miter Gear Assembly included

Miter Gear/mounting kit (DI) - No. 367-2452  
Miter Gear/mounting kit (SS) - No. 367-2462

Mounting kit includes clamps and fasteners

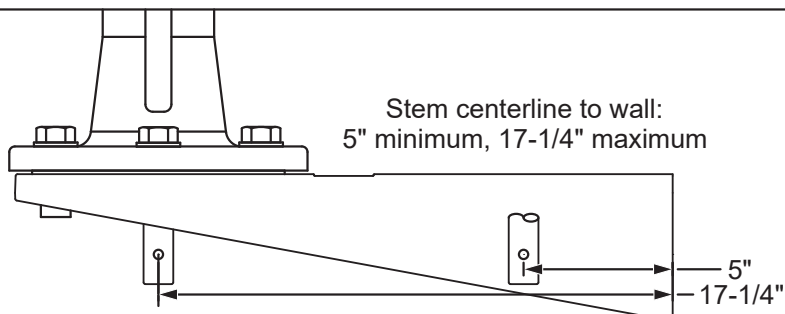


### Wall Bracket with Position Indicator Kit

Position Indicator must be ordered separately

PI mounting kit (DI) - No. 367-2450  
PI mounting kit (SS) - No. 367-2460

Mounting kit includes clamps and fasteners



### Wall Bracket w/Floorstand Kit

Floorstand must be ordered separately

Floorstand mounting kit (DI) - No. 367-2451  
Floorstand mounting kit (SS) - No. 367-2461

Mounting kit includes clamps and fasteners

## WALL BRACKET and KITS

Drawn to Scale

Drawn:  
FCN  
08/23/99

Revision:  
FCN  
04/07/15

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



## 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.

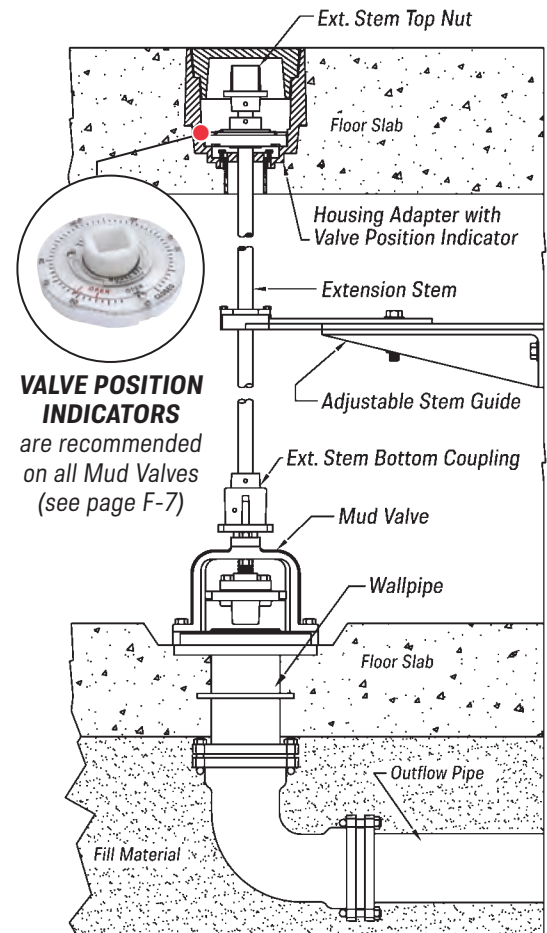
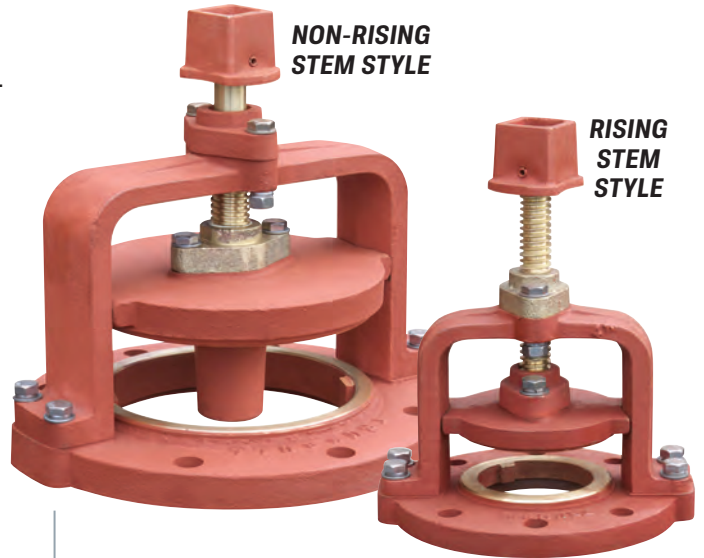
Nuts, bolts and gaskets for mounting to floor pipe are NOT furnished but can be ordered separately. Ductile iron components are coated with Tnemec N140-1211 epoxy, per NSF 61.

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

**i** 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.

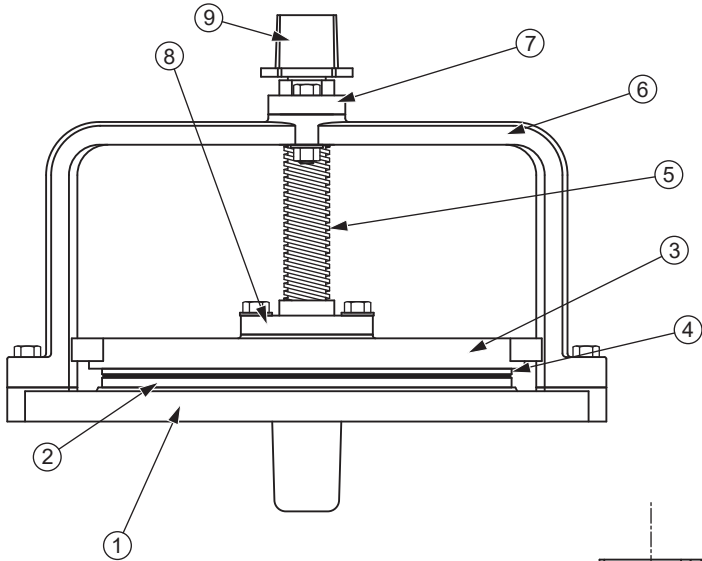
Size	Non-Rising Stem		Rising Stem	
	Item No	Weight	Item No	Weight
3"	<b>367-1414</b>	26.00 lbs.	<b>367-1421</b>	25.00 lbs.
4"	<b>367-1415</b>	31.00 lbs.	<b>367-1420</b>	30.00 lbs.
6"	<b>367-1416</b>	47.00 lbs.	<b>367-1423</b>	46.00 lbs.
8"	<b>367-1418</b>	76.00 lbs.	<b>367-1425</b>	73.00 lbs.
10"	<b>367-1428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

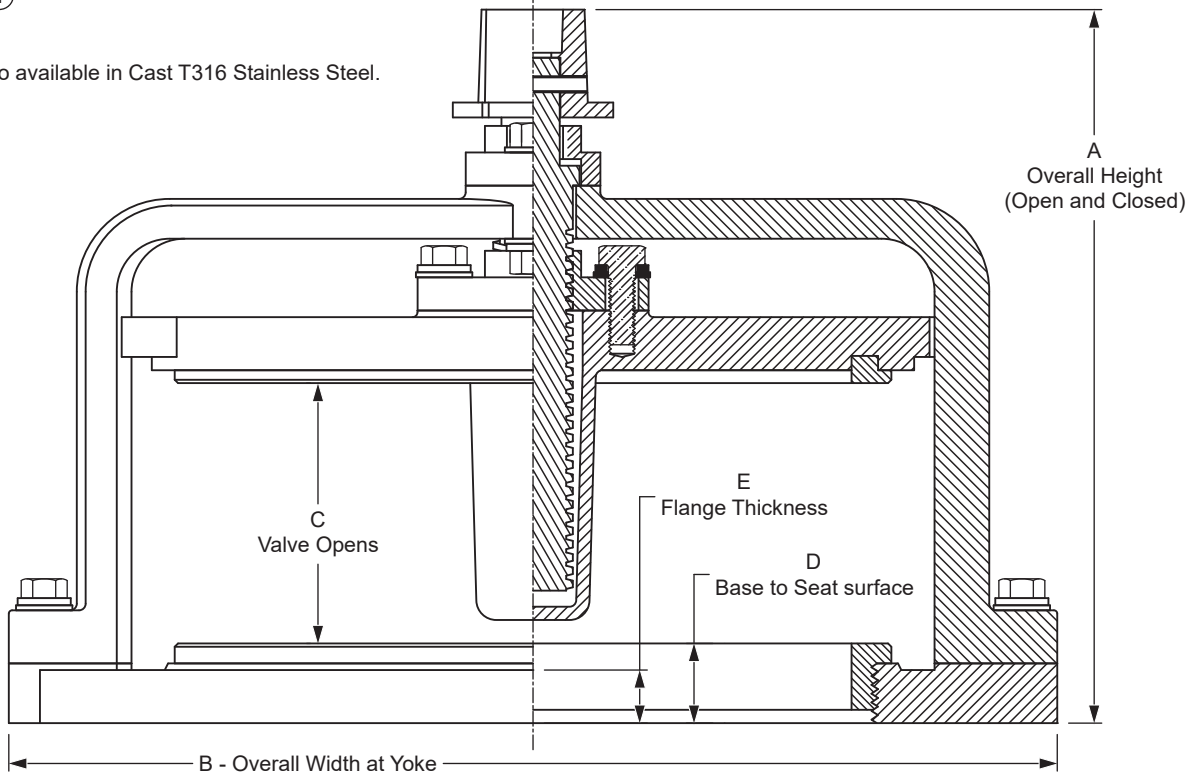
Standard 125 pound drilling template.

\* 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 140-1211) coating.

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

Also available in Cast T316 Stainless Steel.



## CAST IRON MUD VALVES NON-RISING STEM TYPE

Drawn to Scale

Drawn:  
FCN  
10/16/17

Revision:  
FCN  
**B** 02/13/20

**Trumbull Manufacturing**  
Youngstown, 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.

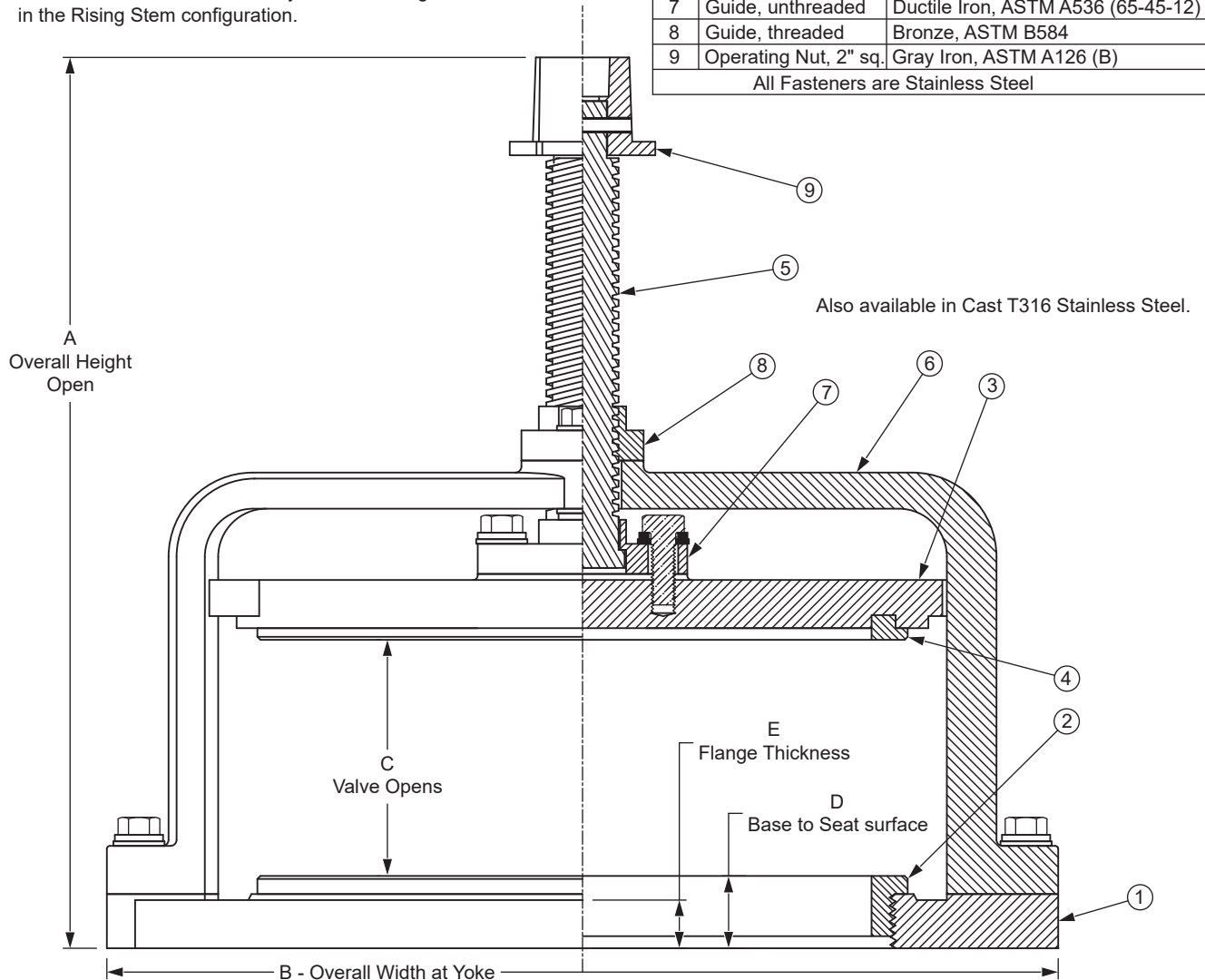
All cast iron surfaces, except machined surfaces, to be finished with NSF61 (TNEMEC 140-1211) coating.

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
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



## CAST IRON MUD VALVES RISING STEM TYPE

Drawn to Scale

Drawn:  
FCN  
10/16/17

Revision:  
FCN  
02/13/20

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



## 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, 3<sup>rd</sup> party torque tested to over 500 ft-lb
- Permanently bonded coating on stainless stem prevents galling, 3<sup>rd</sup> party tested to over 15,000 cycles
- Rising stem, non-rising stem and sliding stem styles available
- "All stainless" installation available with stainless Extension Stem, Stem Guide and Floorstand

Graphics from a 2012 Trumbull Manufacturing advertisement.

If **CORROSION** and **SERVICE LIFE** of Mud Valves is a concern, use ...

**CAST STAINLESS STEEL MUD VALVES**

Permanently Bonded Coating on Stainless Steel Stem

One-Piece Heavy-Duty Stem

Heavy-Duty Cast Design

Mechanically Retained Resilient Seat

Typical Installation

Trumbull's Stainless Steel **MUD VALVES**

One-piece, heavy-duty 316 SS stem with integral collar and stem guide. However, this along with the 316 SS threaded gate creates a potential galling issue. Our solution is a stem design that uses a proprietary coating to prevent these galling issues.

Specially applied coating is high temp cured to ensure adhesion. Coating has been cycle tested to 15,000 cycles with no damage and minimal wear.

Trumbull Manufacturing™

Graphic from a post on our LinkedIn page, check out our page today!

## Cast 316 Stainless Steel Mud Valves

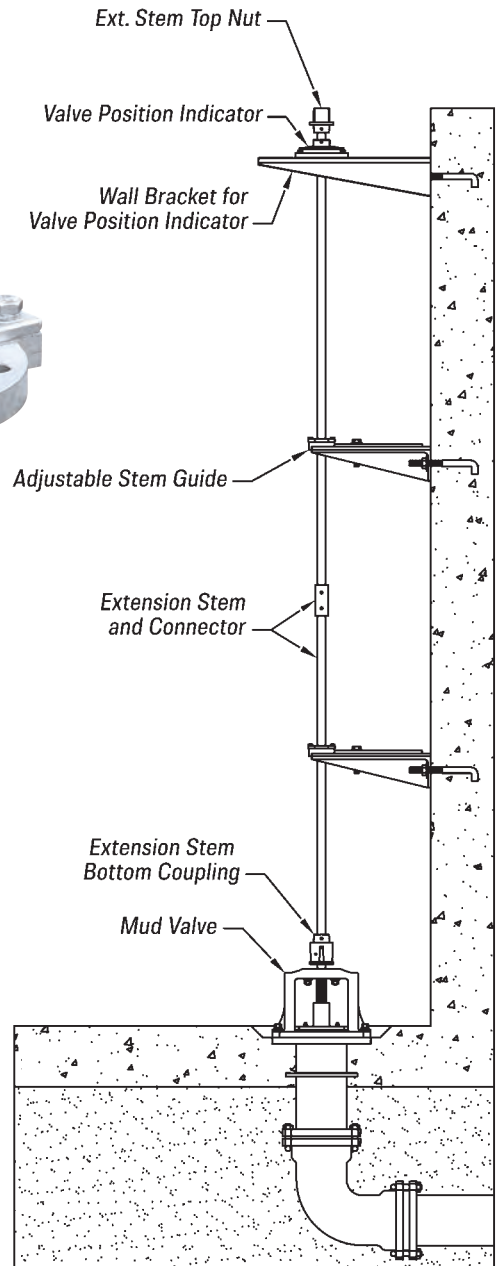
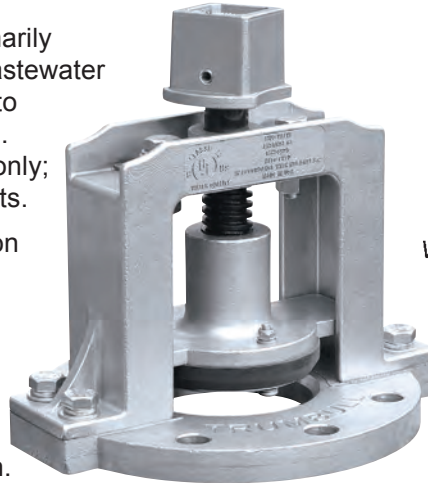
Heavy-Duty Design – Certified to NSF-61 and NSF-372 in USA and Canada

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.



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

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

\* Consult Trumbull for availability.

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

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



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").

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

All items, except for the Seal and the sealing washers are Type 316 Stainless Steel.

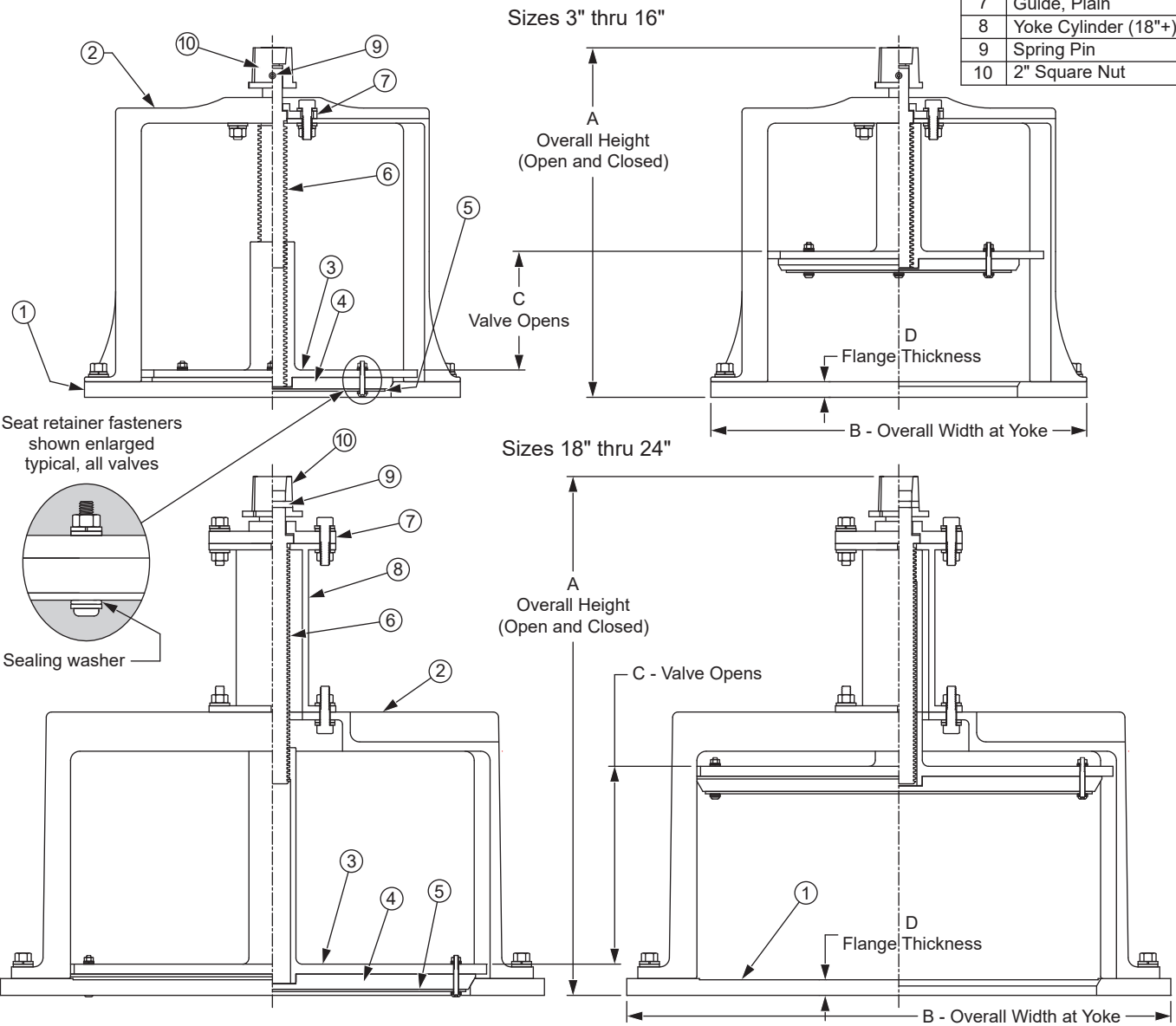
Seal and sealing washers are SBR.

All Fasteners are Stainless Steel, Type 316, ASTM A193, Grade B

Stem is coated and greased to prevent galling.

Basin depth in floor for complete draining, 1" minimum.

Part	Description
1	Base Flange (Body)
2	Yoke
3	Gate
4	Seat
5	Seat Retainer
6	Stem
7	Guide, Plain
8	Yoke Cylinder (18"+)
9	Spring Pin
10	2" Square Nut



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

Drawn:  
FCN  
07/24/07

Revision:  
FCN  
② 02/07/20

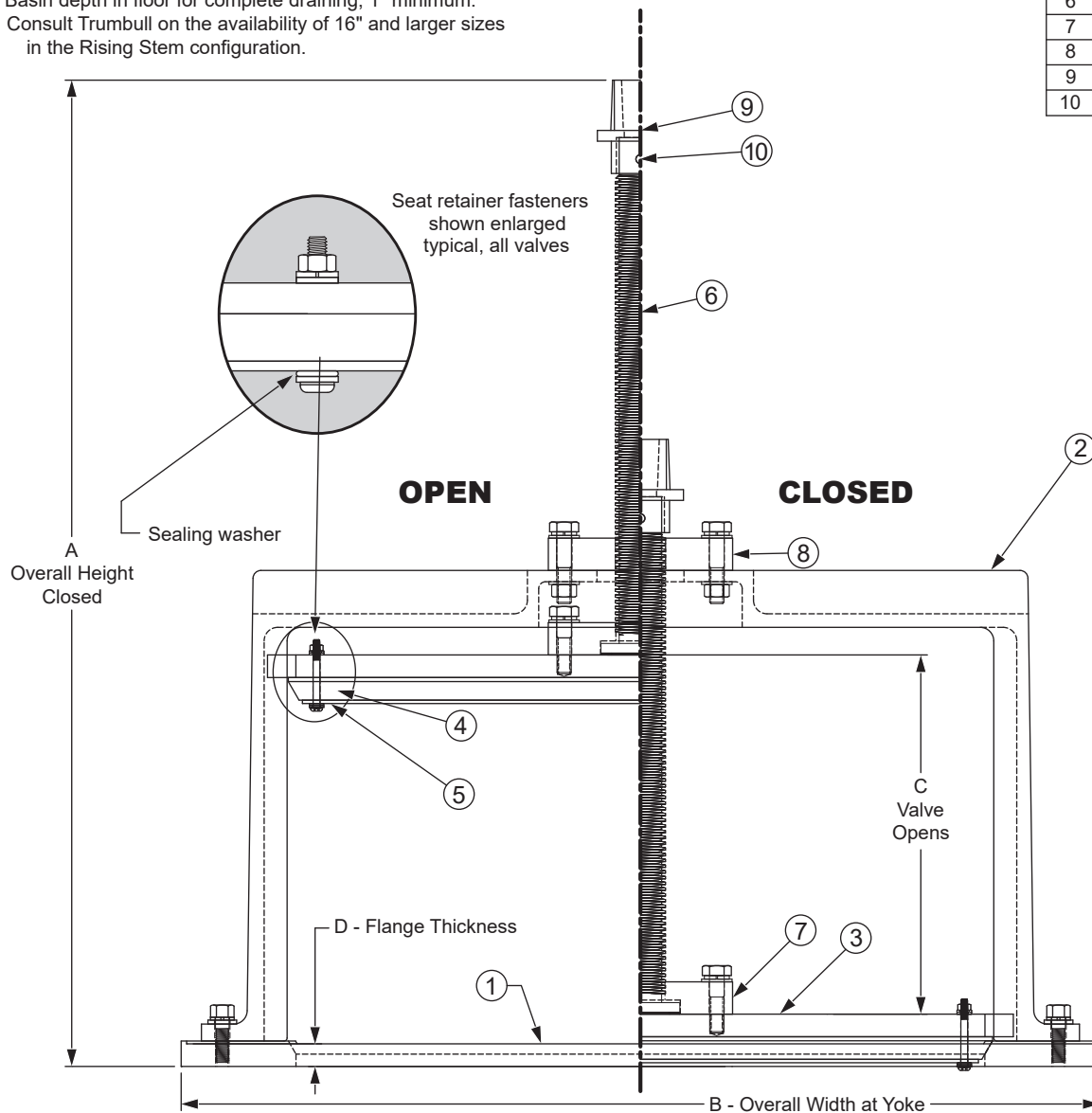
**Trumbull Manufacturing**  
Youngstown, Ohio  
www.trumbull-mfg.com



Valve Size (Bore Dia.)	3	4	6	8	10	12	14	16	18	20	24
A - Overall height, closed	9	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

Standard 125 pound drilling template, with two holes covered by the Yoke.  
 Flange mounting gasket and fasteners are not included, and must be ordered separately.  
 All items, except for the Seal and the sealing washers are Type 316 Stainless Steel.  
 Seal and sealing washers are SBR.  
 All Fasteners are Stainless Steel, Type 316, ASTM A193, Grade B  
 Stem is coated and greased to prevent galling.  
 Basin depth in floor for complete draining, 1" minimum.  
 Consult Trumbull on the availability of 16" and larger sizes  
 in the Rising Stem configuration.

Part	Description
1	Base Flange (Body)
2	Yoke
3	Gate
4	Seat
5	Seat Retainer
6	Stem
7	Guide, Unthreaded
8	Guide, Threaded
9	2" Square Nut
10	Coil Type Spring Pin



**CAST T316SS MUD VALVES**  
**RISING STEM TYPE**  
 Drawn to Scale

Drawn:  
 FCN  
 10/16/17

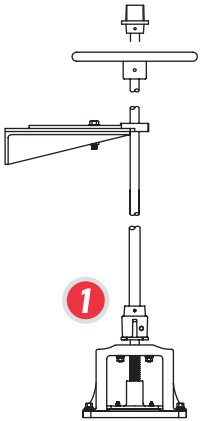
Revision:  
 NJC  
 03/19/20

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

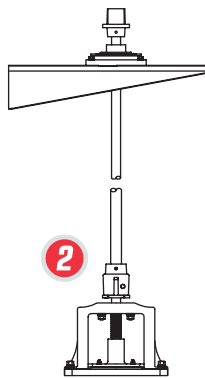
## Optional Mud Valve Installations

Standard options shown on right

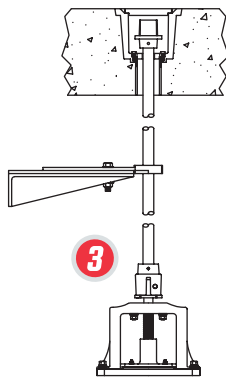
Mud Valve: Cast iron or cast 316 stainless steel  
 Stem Guide: Ductile iron or cast 316 stainless steel  
 Floorstand: Ductile iron (30" or 36") or cast 316 SS (36")  
 Pedestal: Ductile iron or cast 316 SS  
 Extension Stem: Carbon steel or stainless steel  
 Wall Bracket: Ductile iron or cast 316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



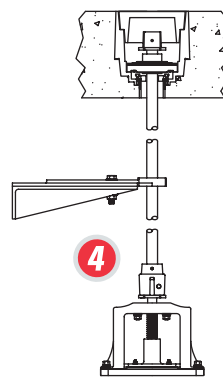
**1**  
Stem Guide  
with Handwheel or  
2" square nut



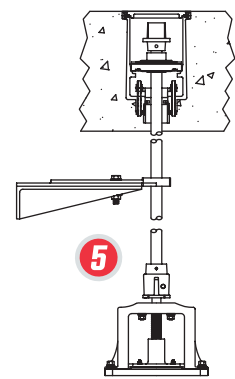
**2**  
Wall Bracket with  
Position Indicator



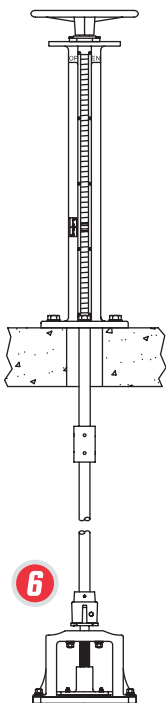
**3**  
Floor Box w/out  
Position Indicator



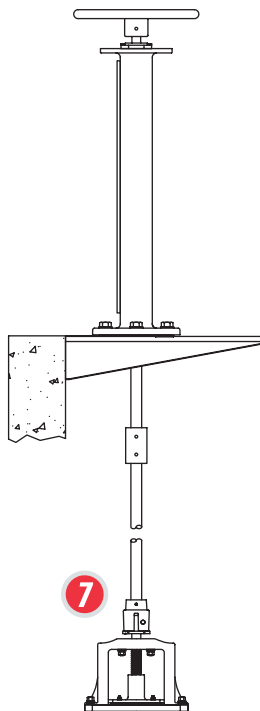
**4**  
Floor Box with  
Position Indicator



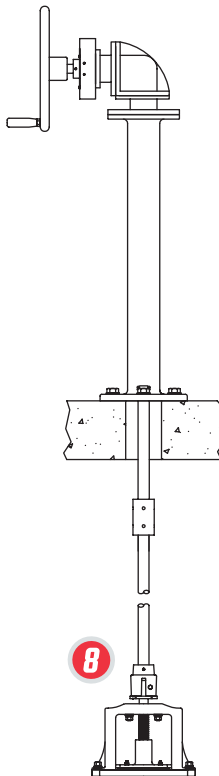
**5**  
Cast Sealed  
Floor Box with  
Position Indicator



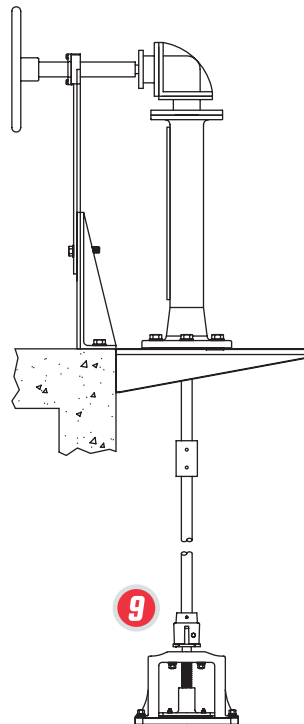
**6**  
Indicating  
Floorstand



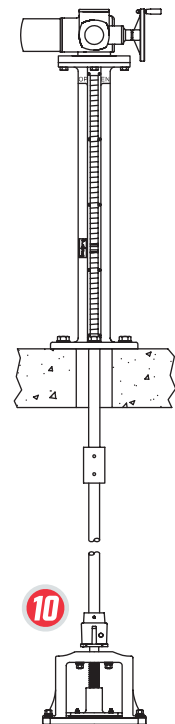
**7**  
Indicating Floorstand  
with Wall Bracket\*



**8**  
Pedestal with Miter Gear,  
Crank Handwheel &  
Position Indicator  
(57T or 275T only)



**9**  
Indicating Floorstand with  
Wall Bracket, Miter Gear &  
Horizontal Extension Stem\*



**10**  
Indicating Floorstand  
with Actuator

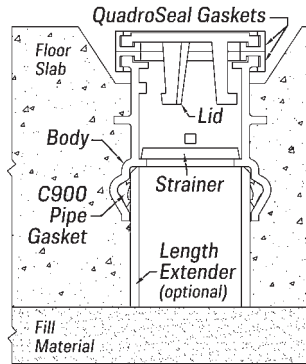
\* Indicating slot faces operator and is not visible in installations 7 and 9.

## Floor-Type Hydrostatic Tank Pressure Relief Valves

QuadroSeal™ 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 \*

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

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

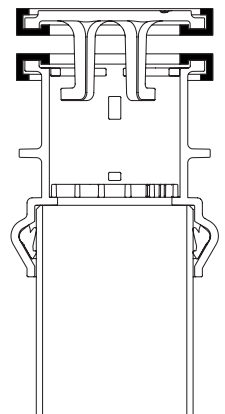
\*\* Furnished with NSF-61, 2 part epoxy coating.

**i** 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.

## QUADROSEAL gaskets

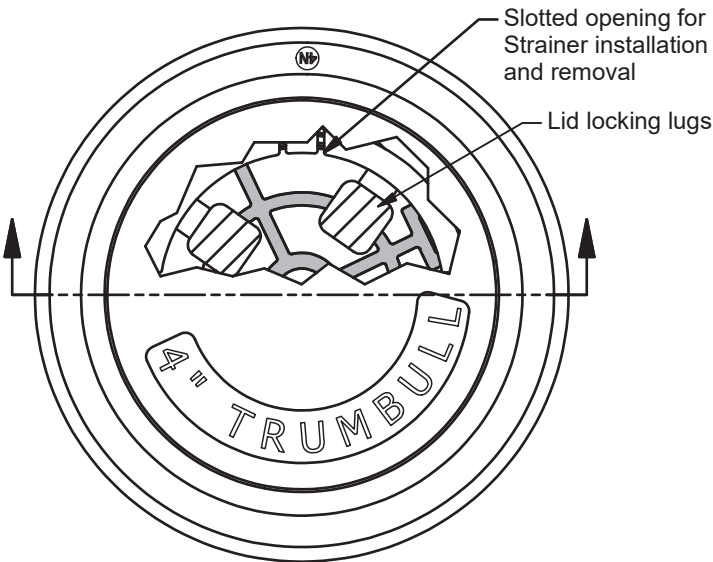
Unique square design of QuadroSeal™ Gasket surrounds casting on four sides to prevent separation.

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



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

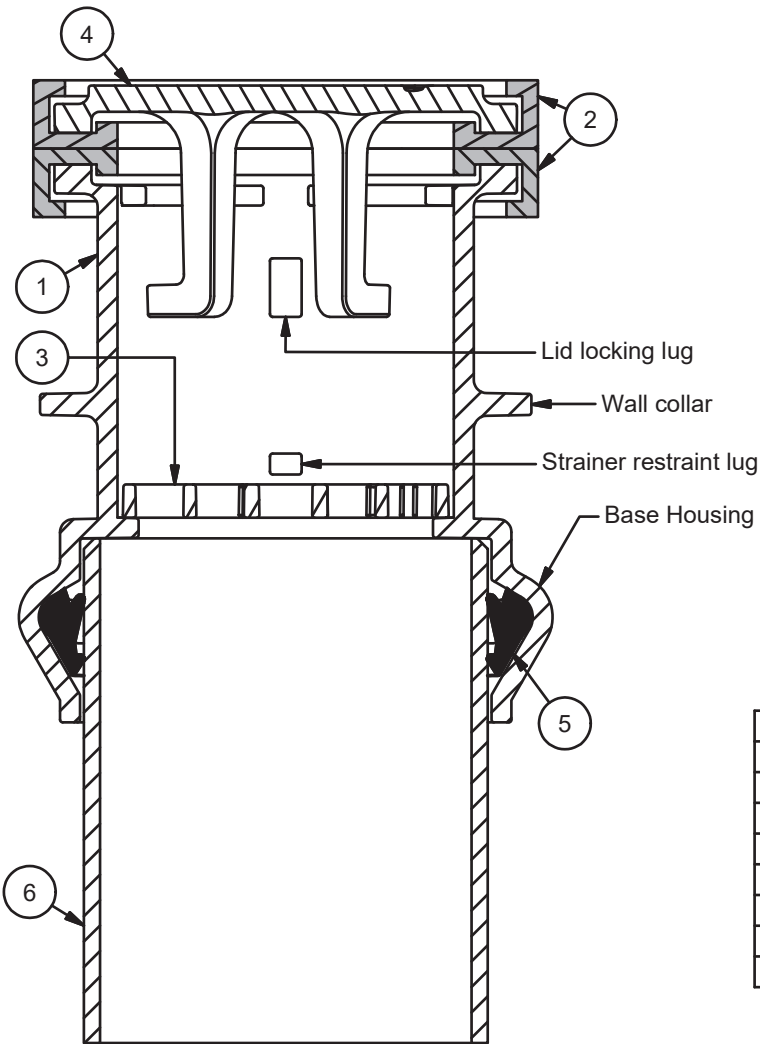
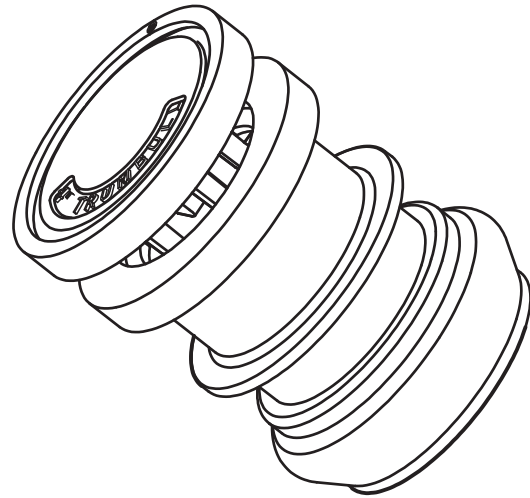




ITEM	DESCRIPTION	MATERIAL
1	Valve Body	Stainless Steel (T316) or Ductile Iron (65-45-12)
2	QuadroSeal Seat	Neoprene (40 durometer)
3	Strainer	Stainless Steel (T316) or Ductile Iron (65-45-12)
4	Lid	Stainless Steel (T316) or Ductile Iron (65-45-12)
5	Rieber Gasket	SBR
6	Length Extender	C900 PVC Pipe

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

## Wall-Type Hydrostatic Tank Pressure Relief Valves

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

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

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

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



### Wall-Type Pressure Relief Valves \*

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

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

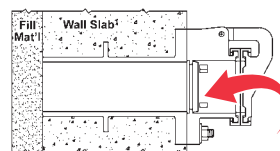
Floor-Type Pressure Relief Valves are shown on pages G-35 & G-36.

### QUADROSEAL gaskets

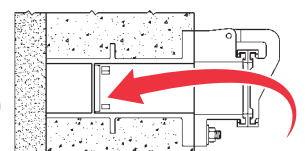
Unique square design of QuadroSeal™ Gasket surrounds casting on 4 sides to prevent separation.

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

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



Strainer in Trumbull valve is easily accessed for maintenance



Strainer installation of other designs

### Pressure Relief Valve, Wall Type

Flange drilling per ANSI 125#

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

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

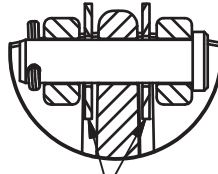
Size	Material	Part Number	Weight
4"	DI	367-1550	14.25 lb
4"	SS	367-1560	14.65 lb
6"	DI	367-1570	21.45 lb
6"	SS	367-1564	22.05 lb

**Note:**

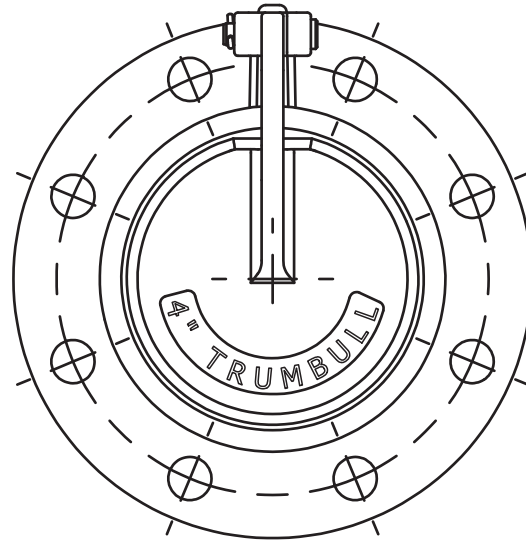
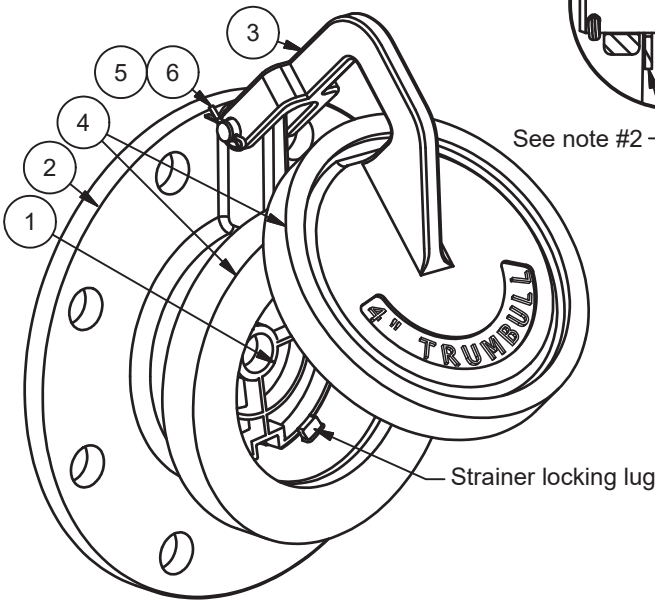
1.) Ductile Iron components are coated with Tnemec N140-1211 epoxy (complies with NSF 61).

2.) Ductile Iron valves have Isolating washers made of UHMWPE installed on the Clevis pin between the lid and body, preventing metal to metal contact.

Clevis Pin Detail



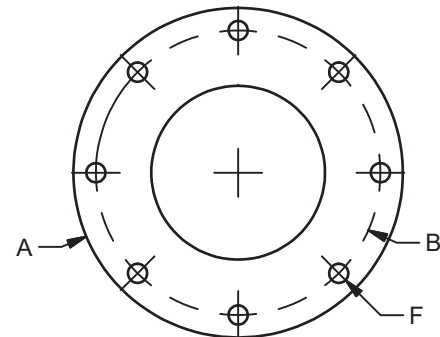
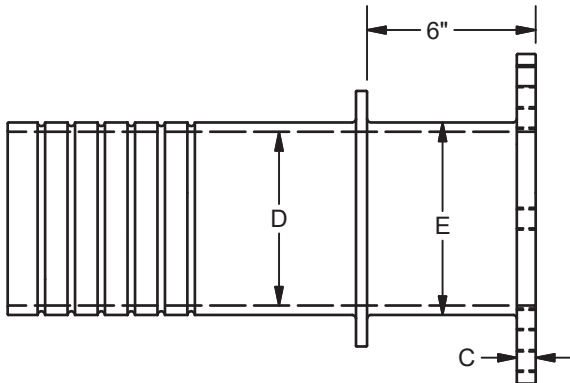
See note #2



Size	Trumbull #	A	B	C	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

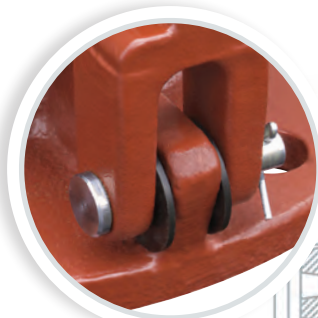
Revision:  
BJE  
**(B)** 05/13/19

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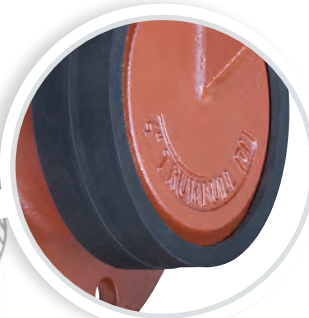
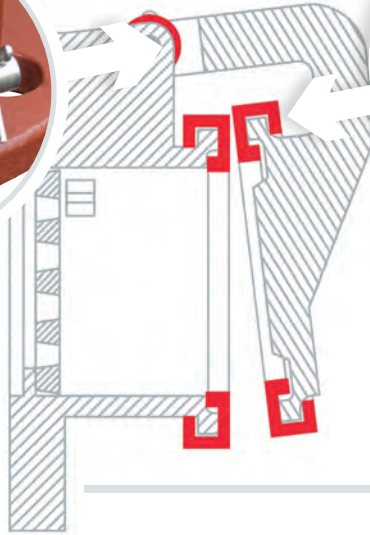


### NO METAL-TO-METAL CONTACT

### Pressure Relief Valves



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



#### Quadroseal Gaskets

Unique square design of Trumbull QuadroSeal Gasket surrounds casting on four sides to prevent separation. QuadroSeal design also prevents metal-to-metal contact that can cause seating surfaces of iron valves to corrode into a "frozen shut" position.

#### Example of Alternate Design as Shown in Service



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

Valve after being pried open.

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

#### Metal-To-Metal Contact

#### Trumbull Mfg. Design



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

It's because of our **QUADROSEAL** gaskets

## 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.

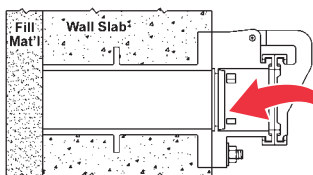
Its job is to keep rock or gravel from the tank exterior from interfering with the seating surface. You need to remove and clean it periodically, otherwise the valve can get plugged up and the groundwater won't be able to find its way through the valve into the tank. If that happens, the pressure relief 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!

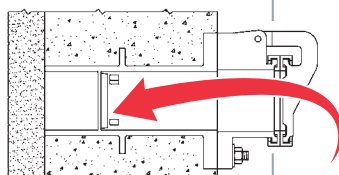


*Easy access to strainer helps prevent blockage of flow that could lead to structural tank damage. Wallpipes are frequently provided by ductile pipe suppliers and don't have strainers.*

*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*

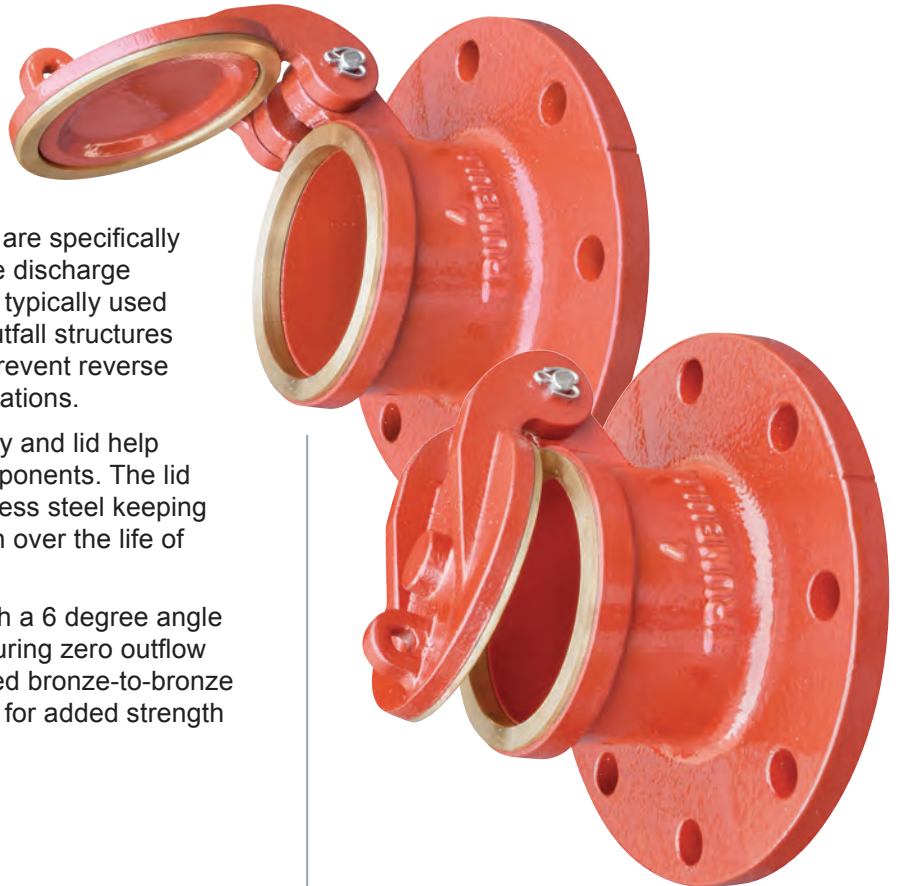
## Flap Valves

Used to Facilitate Outflow Through a Pipe

Trumbull Flap Valves (or Flap Gates) are specifically designed to eliminate backflow in free discharge applications in pipes. Flap valves are typically used in drainage applications from plant outfall structures to rivers or other bodies of water to prevent reverse flow during flooding and high tide situations.

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

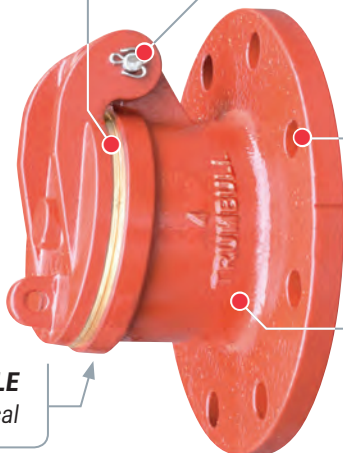
for added strength and durability

### STAINLESS STEEL HINGE PIN AND COTTER PINS

### ANSI 125# STD FLANGE DRILLING

### FUSION BONDED EPOXY COATING

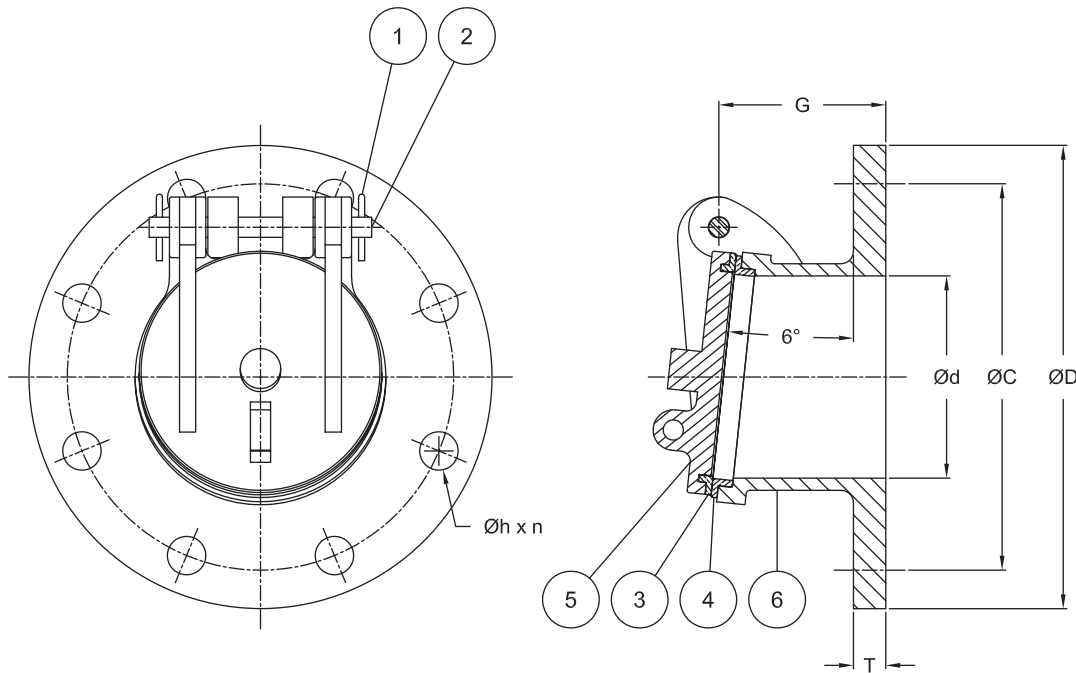
6° ANGLE from vertical



## Flap Valves

Size	Item No	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 Trumbull for availability.
20"	700-610-00085*	
24"	700-610-00090*	





NO.	PARTS	MATERIAL	QTY
1	Cotter Pin	Stainless Steel ASTM A276 Type 304	2
2	Hinge Pin	Stainless Steel ASTM A276 Type 304	1
3	Lid Seat Ring	Bronze ASTM B62 C83600	1
4	Body Seat Ring	Bronze ASTM B62 C83600	1
5	Lid	Gray Iron ASTM A126 Class B	1
6	Body	Gray Iron ASTM A126 Class B	1

- Notes: 1.) Flange drilled to ANSI B 16.1 Class 125  
 2.) Dimensions in inches  
 3.) Iron components are coated with Fusion Bonded Epoxy, Red

SIZE Ød	ØD	ØC	Øh	n	T	G
4	9	7½	¾	8	⅝	¾
6	11	9½	⅞	8	1⅛	¾
8	13½	11¼	⅞	8	¾	4
10	16	14¼	1	12	1⅜	4½
12	19	17	1	12	⅞	4½
14	21	18¾	1⅛	12	1⅜	4⅝
16	23½	21¼	1⅛	16	1¼	4½
18	25	22¾	1¼	16	1⅛	7½
20	27½	25	1¼	20	1⅛	6
24	32	29½	1⅜	20	1⅜	6⅞

### 4"-24" Flap Valves

Drawn to Scale

Drawn:  
BJE  
05/31/24

Revision:  
--

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## Telescoping Valves

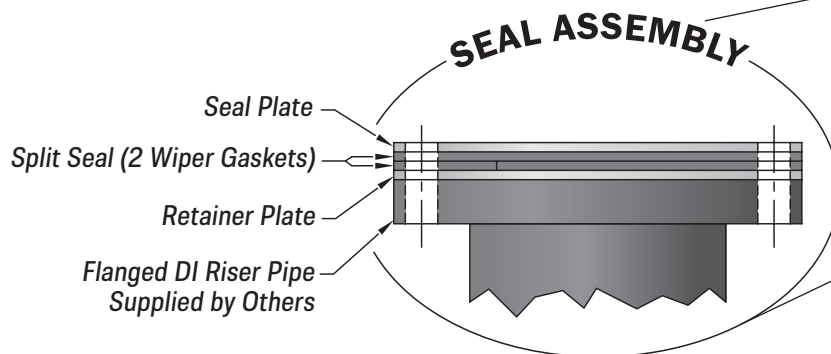
Trumbull Telescoping Valves are designed to regulate the level of fluids in containment structures such as holding chambers, tanks, ponds & lagoons. An example of an application might be to regulate the effluent level in a settling basin. Also known as “Sludge Draw-off Valves” or “Decanting Valves”,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

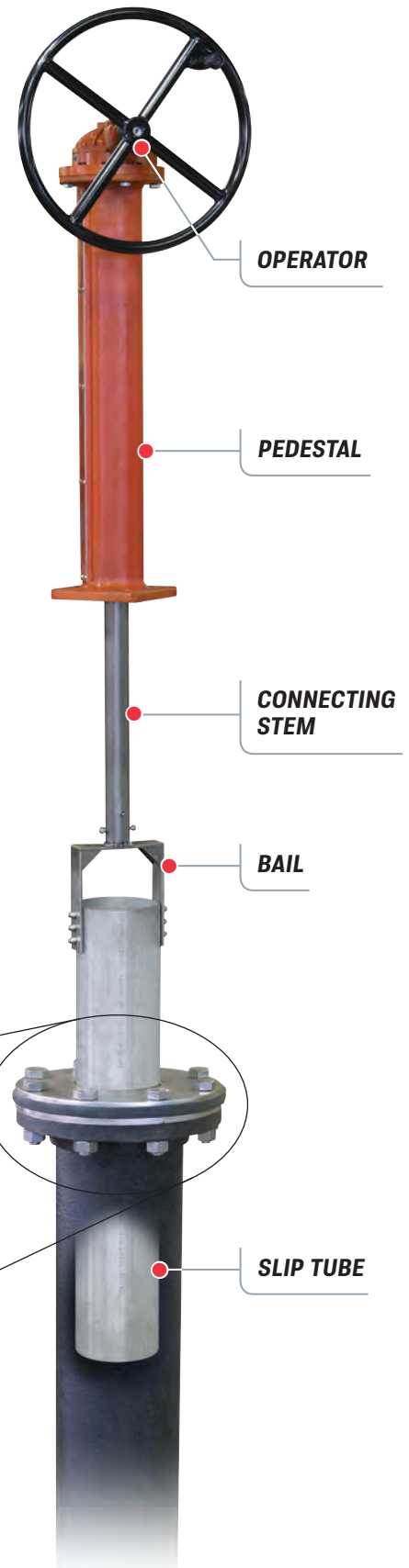
Trumbull’s seal assembly consists of a stainless steel retainer plate, a seal plate and two (2) Buna-N wiper gaskets. The assembly is designed so that the wiper gaskets can easily be replaced in the field without disassembling the Telescoping Valve. Additional seal elastomers available upon request.

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.

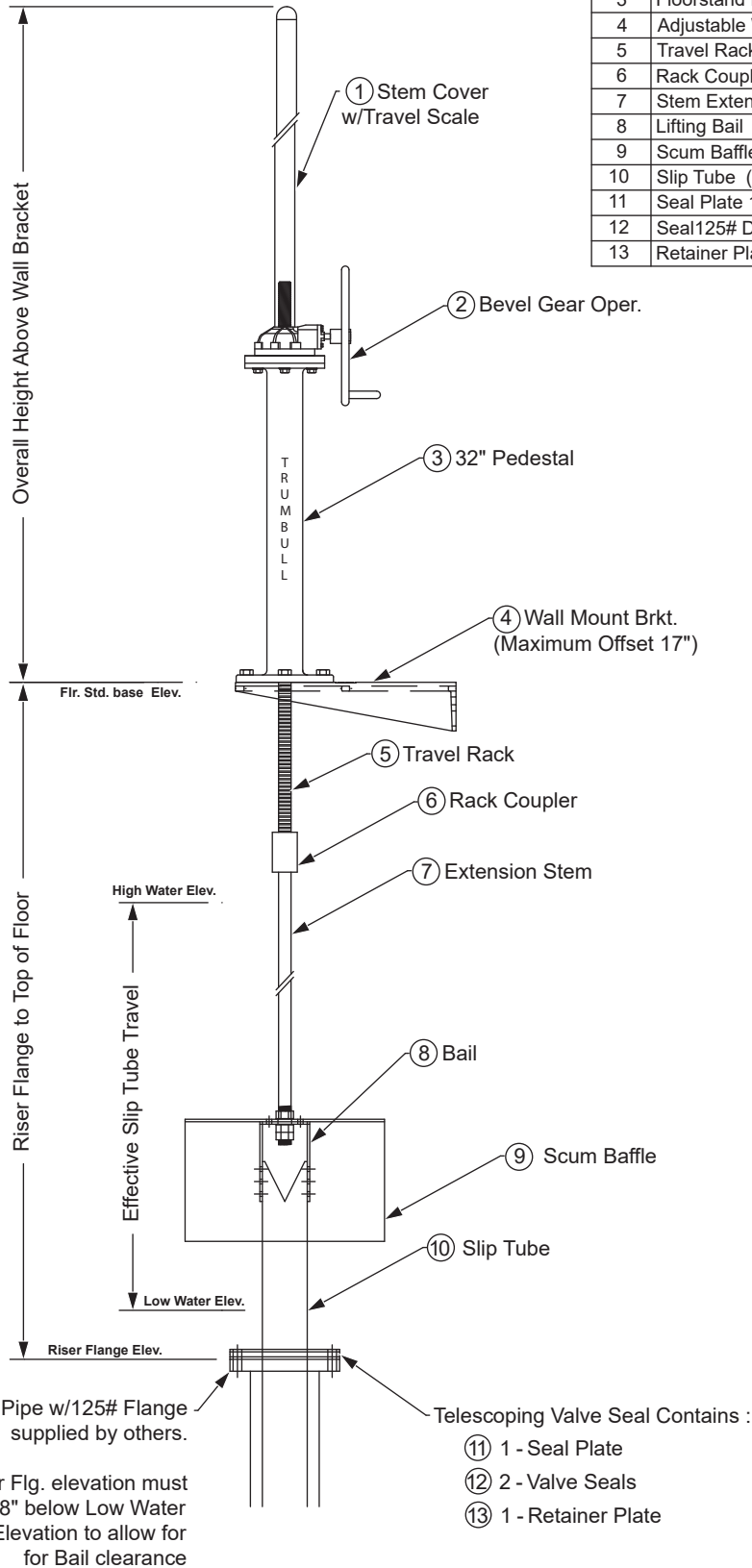
Lifting bails are fabricated from 304 stainless steel material, and are mounted to the slip tubes with stainless steel fasteners. Threaded operating stems and extension stems are made from 304 stainless steel material unless otherwise specified.



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



MK-#	Description	Qty/Assem.	Std. Mat'l
1	Clear Stem Cover	Varies	PVC
2	Operator, Bevel Gear (See Options)	1 Piece	Carbon Stl.
3	Floorstand Non-Indicating 32"	1 Piece	Ductile Iron
4	Adjustable Wall Mount Brkt 17-1/8" Max	1 Piece	Ductile Iron
5	Travel Rack 3/4" Dia	Varies	303 SS
6	Rack Coupling Round	1 Piece	304 SS
7	Stem Extension Solid Rod	Varies	304 SS
8	Lifting Bail	1 Piece	304 SS
9	Scum Baffle (See Options)	1 Piece	304 SS
10	Slip Tube (See Options)	Varies	304 SS
11	Seal Plate 125# Drilling, 3/8" Thk	1 Piece	304 SS
12	Seal 125# Drilling, 1/4" Thk, Dove Tailed	2 Pieces	Buna-N
13	Retainer Plate 125# Drilling, 1/4" Thk	1 Piece	304 SS



**Telescoping Valve Options**

Operators:

Handwheel Rising Stem \_\_\_\_\_

Handwheel Non-Rising Stem \_\_\_\_\_

Bevel Gear Rising Stem \_\_\_\_\_

Bevel Gear Non-Rising Stem \_\_\_\_\_

Electric Motor Actuator \_\_\_\_\_

Scum Baffle:

20" Dia. x 12" Tall x .062" Thk \_\_\_\_\_

Other Sizes- Dia. - \_\_\_\_\_

Height - \_\_\_\_\_

Thickness - \_\_\_\_\_

Slip Tube Options:

Material:

304SS \_\_\_\_\_

316SS \_\_\_\_\_

PVC S40 \_\_\_\_\_

Tube Top Configurations:

Plain End \_\_\_\_\_

"V" Notch \_\_\_\_\_

12" Dia. Funnel \_\_\_\_\_

Other (Describe Below) \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Wall Mount Bracket Material:

Ductile Iron \_\_\_\_\_

Stainless Steel \_\_\_\_\_

Not Required \_\_\_\_\_

**Customer Provided Dimensions**

Valve Size : \_\_\_\_\_

Elevations:

Floor Stand Base Elevation \_\_\_\_\_

High Water Elevation \_\_\_\_\_

Low Water Elevation \_\_\_\_\_

Riser Flange Elevation \_\_\_\_\_

**Customer Provided Project Info.**

Project Name: \_\_\_\_\_

Project City: \_\_\_\_\_

Project State: \_\_\_\_\_

Qty. Req'd: \_\_\_\_\_

**Customer Information**

Customer: \_\_\_\_\_

Branch: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Reference #: \_\_\_\_\_

Note: Wall Brkt. anchors & Flg Bolts Supplied by others.  
 Note: Slip Tube & Bail fasteners, supplied by Trumbull will be 304ss

**Telescoping Valve**  
 Drawn to Scale

Drawn: FCN  
 11/20/13

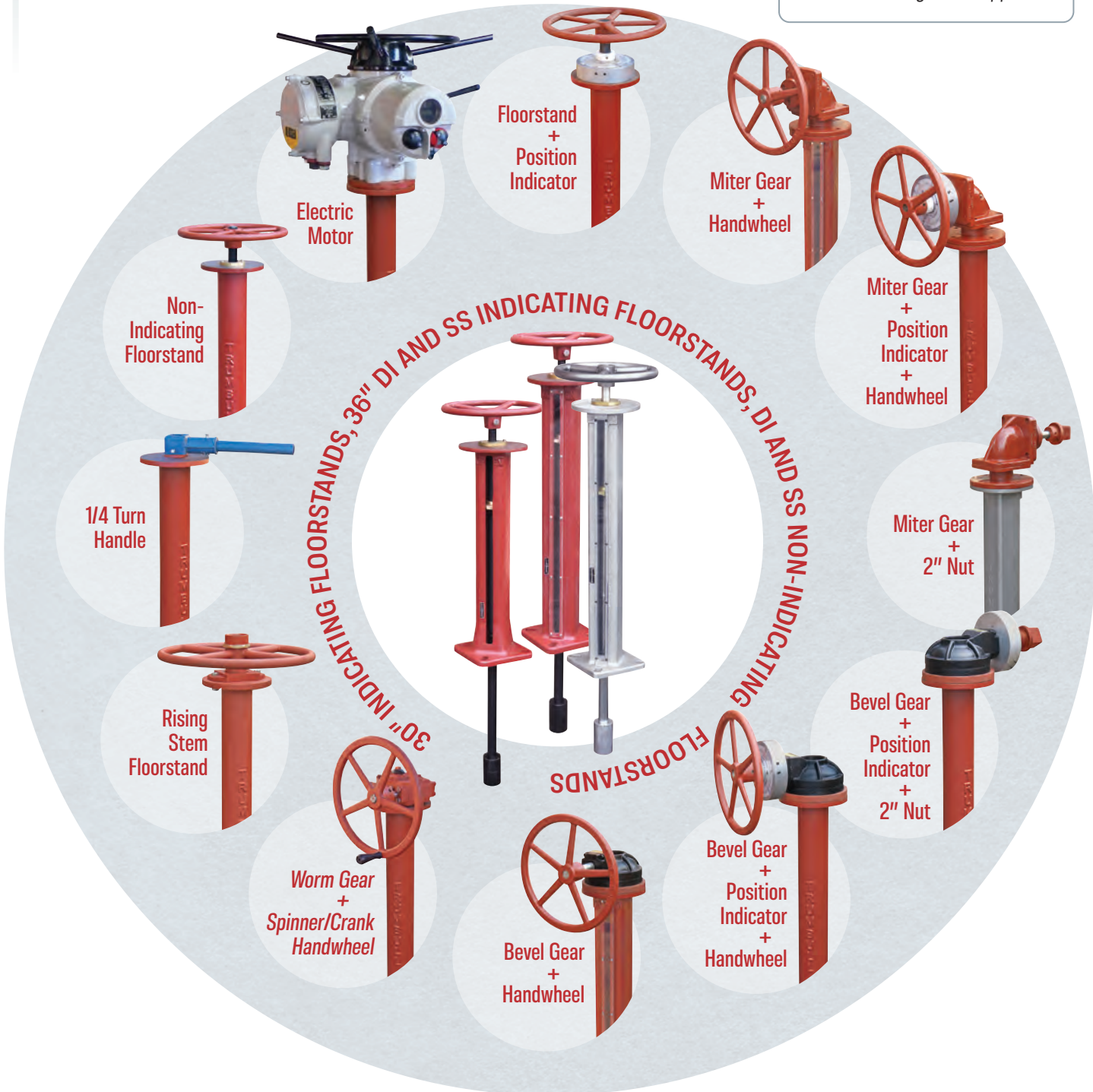
Revision: NJC  
 (B) 01/20/20

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### FLOORSTAND OPTIONS

**i** All Floorstand and Pedestal options can be supplied with a needle bearing stem support.

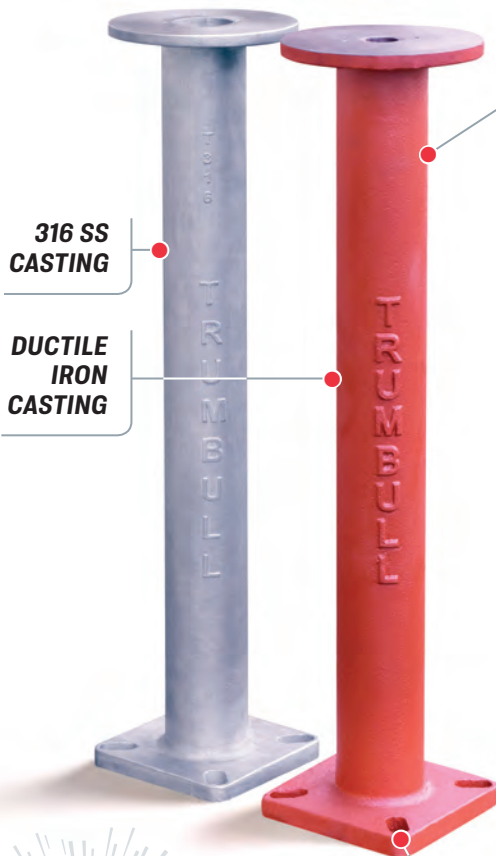


## 32" Pedestals

Ductile Iron and 316 Stainless Steel

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

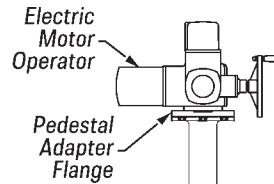
Pedestals can be adapted for various custom requirements such as mounting of electric motor operators, manual gear operators, or customer-supplied components. Also available in fabricated stainless steel or carbon steel for various applications.



316 SS CASTING

DUCTILE IRON CASTING

2-PART EPOXY COATING  
Tnemec N140-1211



Electric Motor Operator  
Pedestal Adapter Flange  
Pedestal  
Wall Bracket for Pedestal

Telescoping Valve

**SLOTTED BOLT HOLES** provide adjustability to avoid interference with rebar

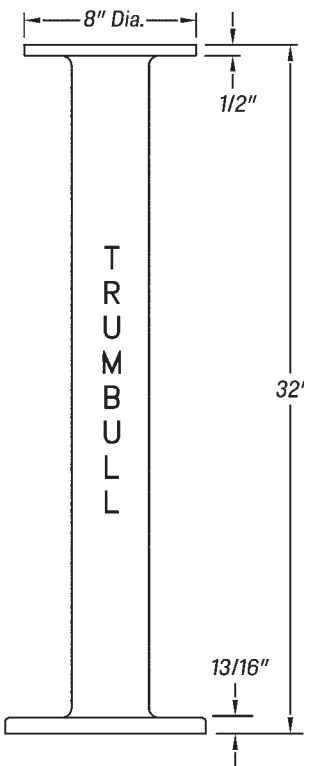
"FA Adapter Plates Available!"

### 32" Pedestals

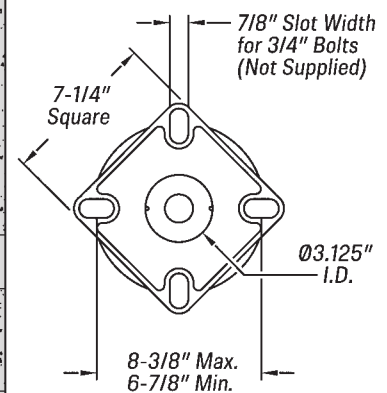
Model	Item No	Weight
Ductile Iron	367-2417	43.45 lbs.
316 Stainless Steel	367-2427	42.10 lbs.

MULTI-PURPOSE...  
*Many Possibilities!*

#### PEDESTAL DIMENSIONS



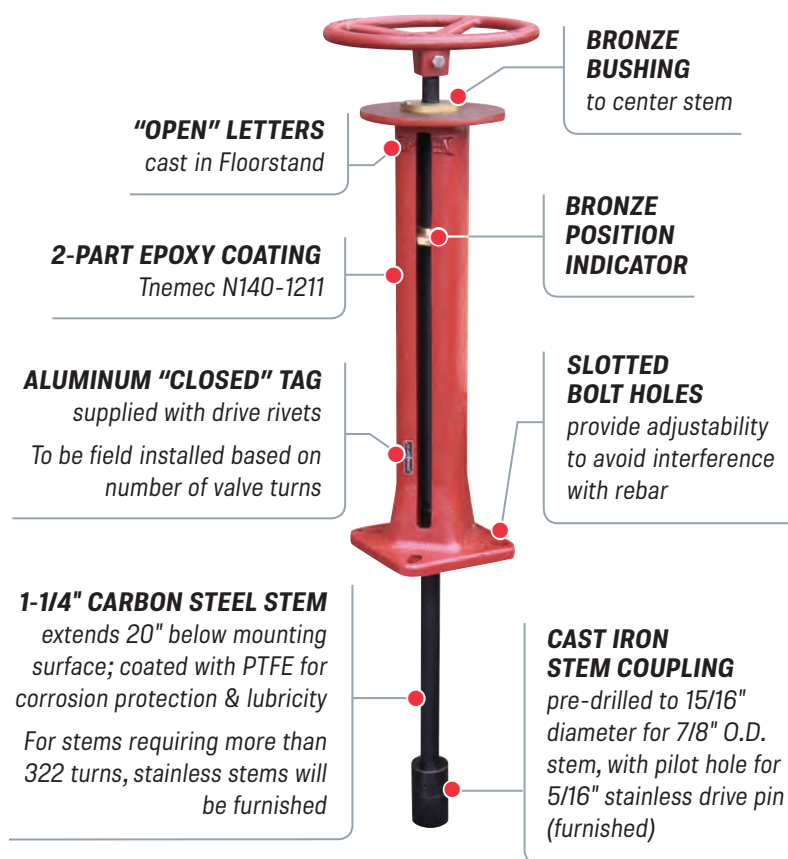
#### PEDESTAL BASE DIMENSIONS



Typical installation

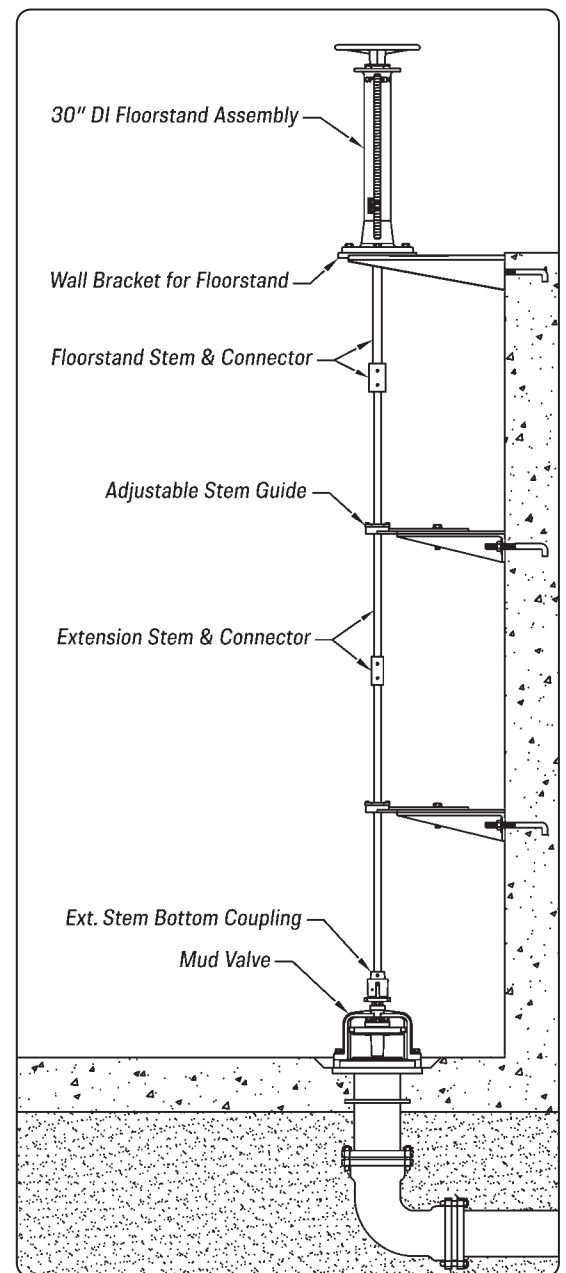
## 30" Ductile Iron Indicating Floorstand

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.



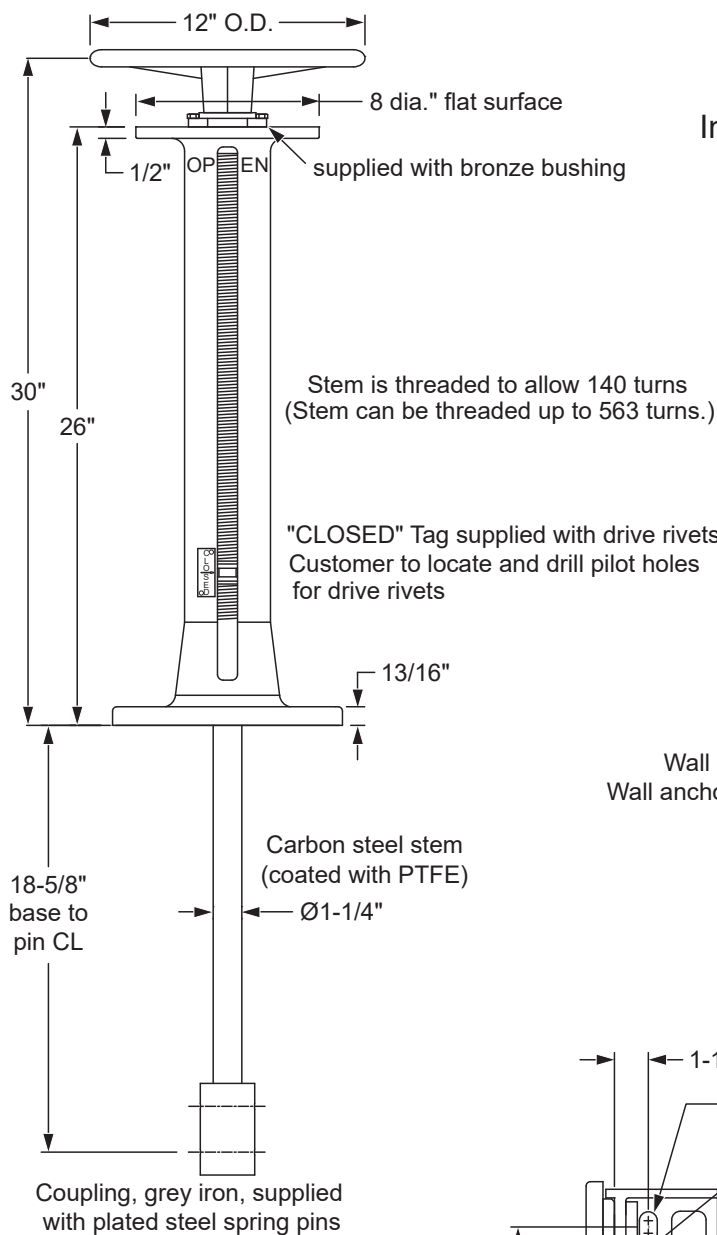
### Ordering Instructions

1. 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**

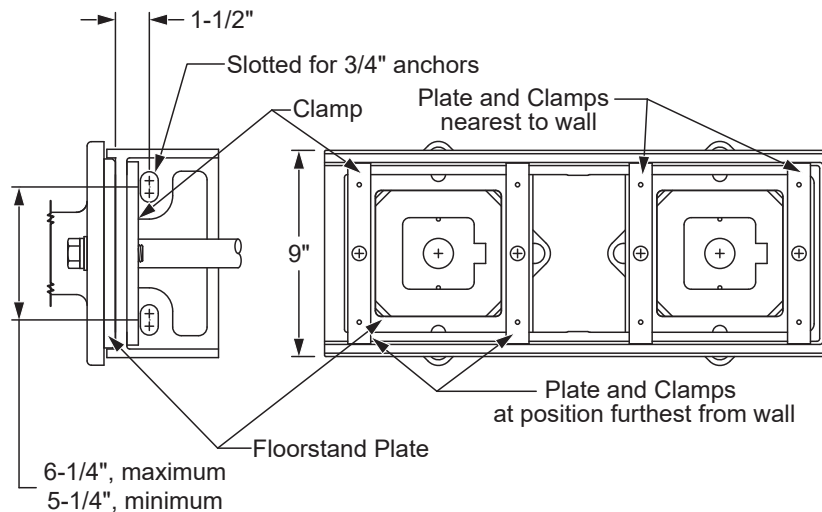
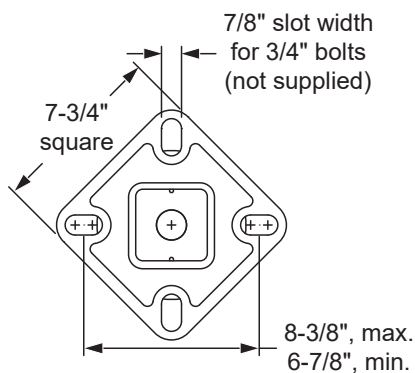
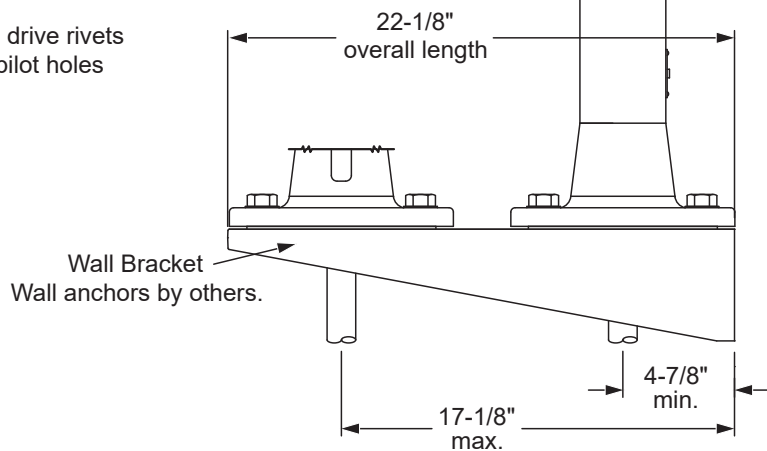


Typical Floorstand installation





### Installation of Floorstand on Wall Bracket



The Floorstand and Handwheel are ductile iron and coated with red primer.  
The Wall Bracket is ductile iron; coating is Tnemec 140-1211, NSF61 compliant.

**Indicating Floorstand**  
**30" Ductile Iron**  
Drawn to Scale

Drawn:  
FCN  
05/20/08

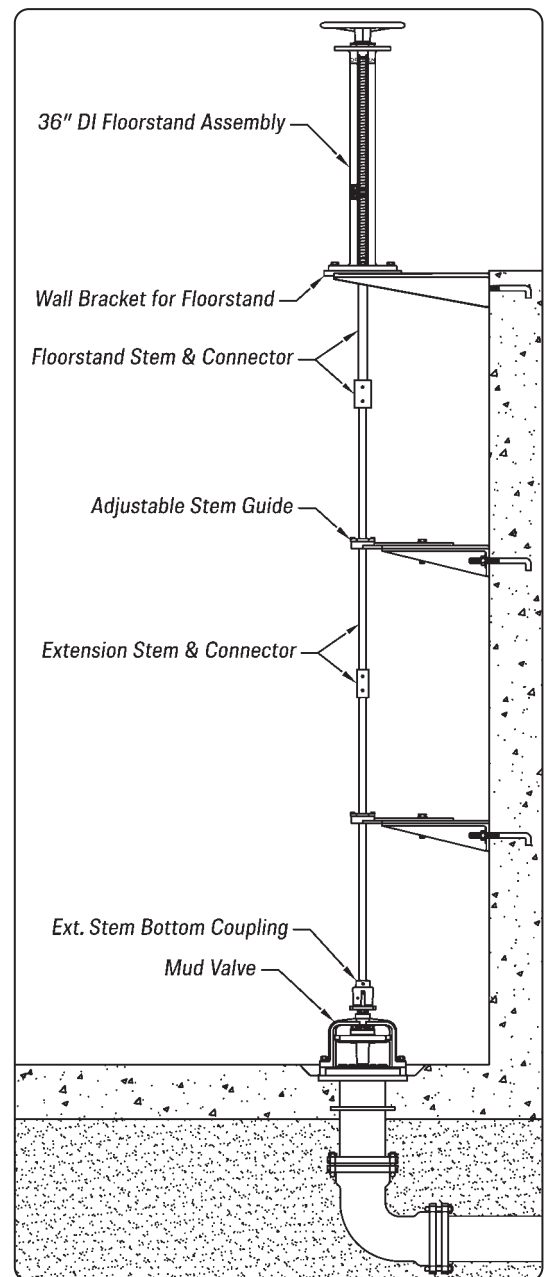
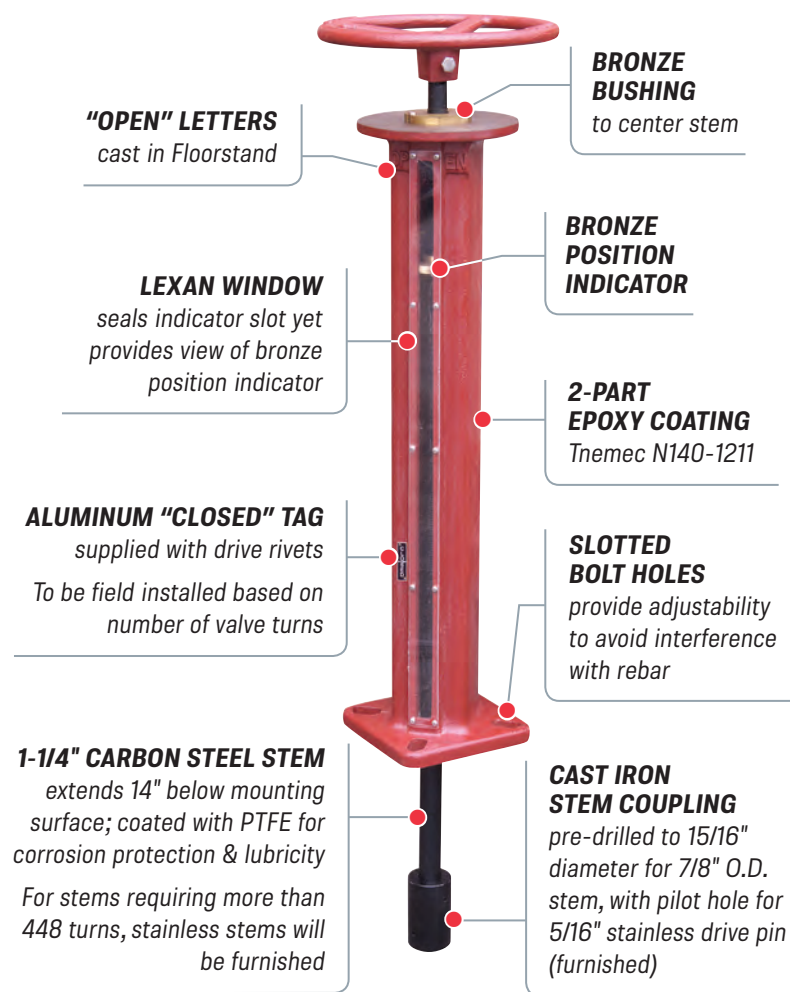
Revision:  
FCN  
01/03/11

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Youngstown, Ohio  
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## 36" Ductile Iron Indicating Floorstand

Includes a Sealed Indicator Slot

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

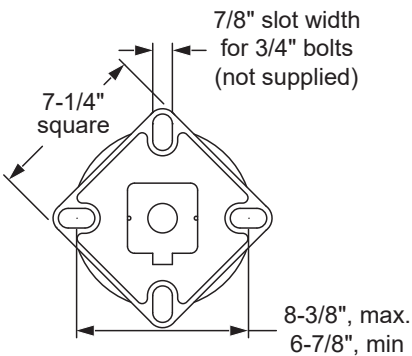
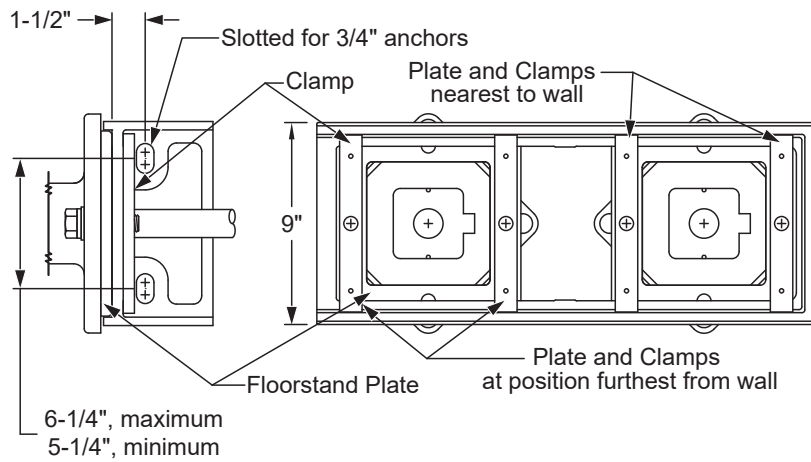
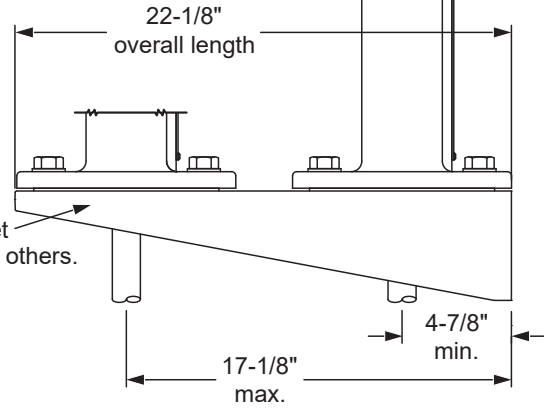
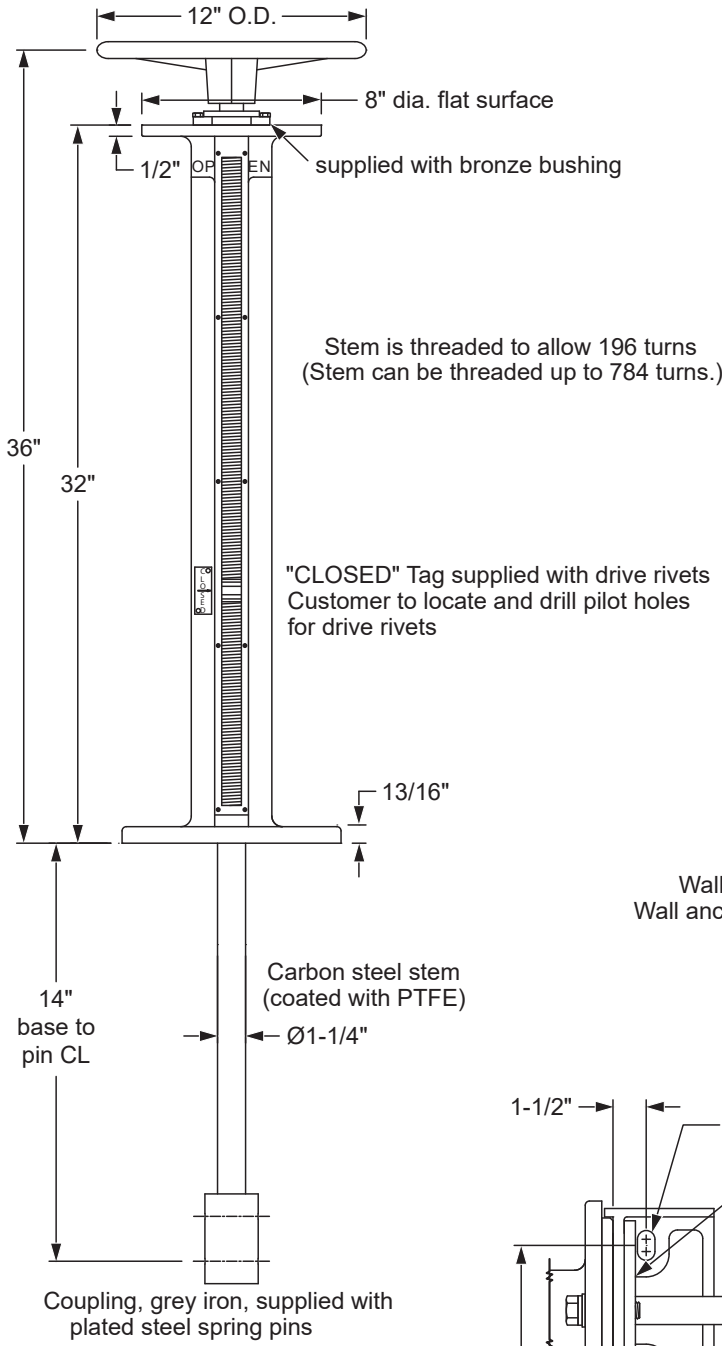


Typical Floorstand installation

### Ordering Instructions

1. 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**

### Installation of Floorstand on Wall Bracket



The Floorstand and Handwheel are ductile iron and coated with red primer. The Wall Bracket is ductile iron; coating is TNEMEC 140-1211, NSF61 compliant. Also available in Cast T316 Stainless Steel.

**Indicating Floorstand**  
**36" Ductile Iron**  
Drawn to Scale

Drawn:  
FCN  
05/20/08

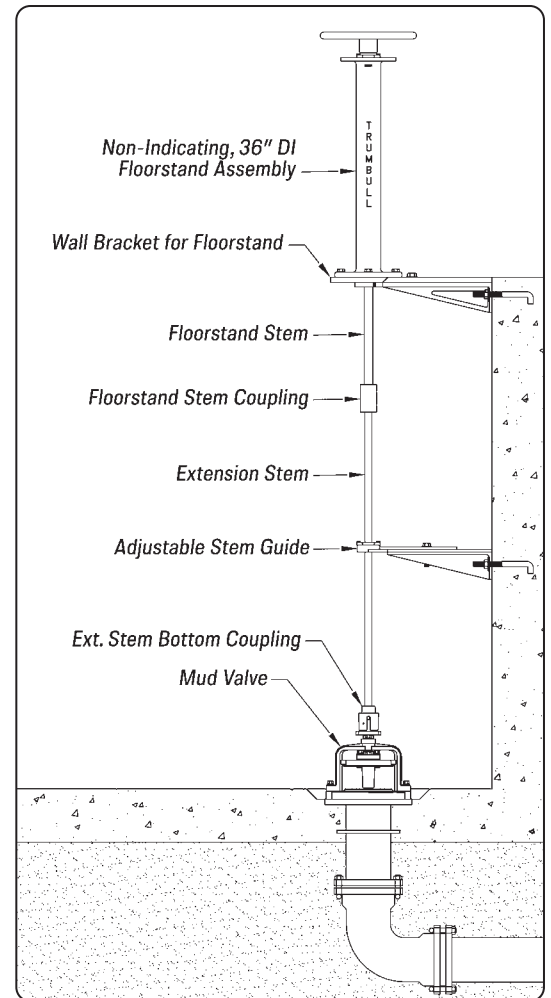
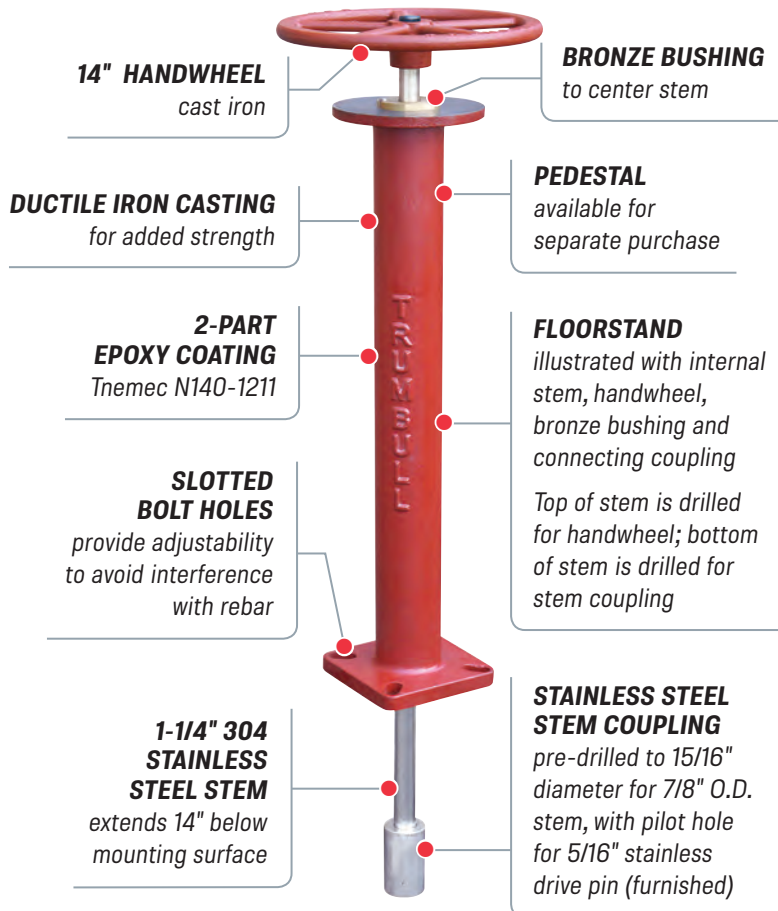
Revision:  
FCN  
G 11/11/12

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Youngstown, Ohio  
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**

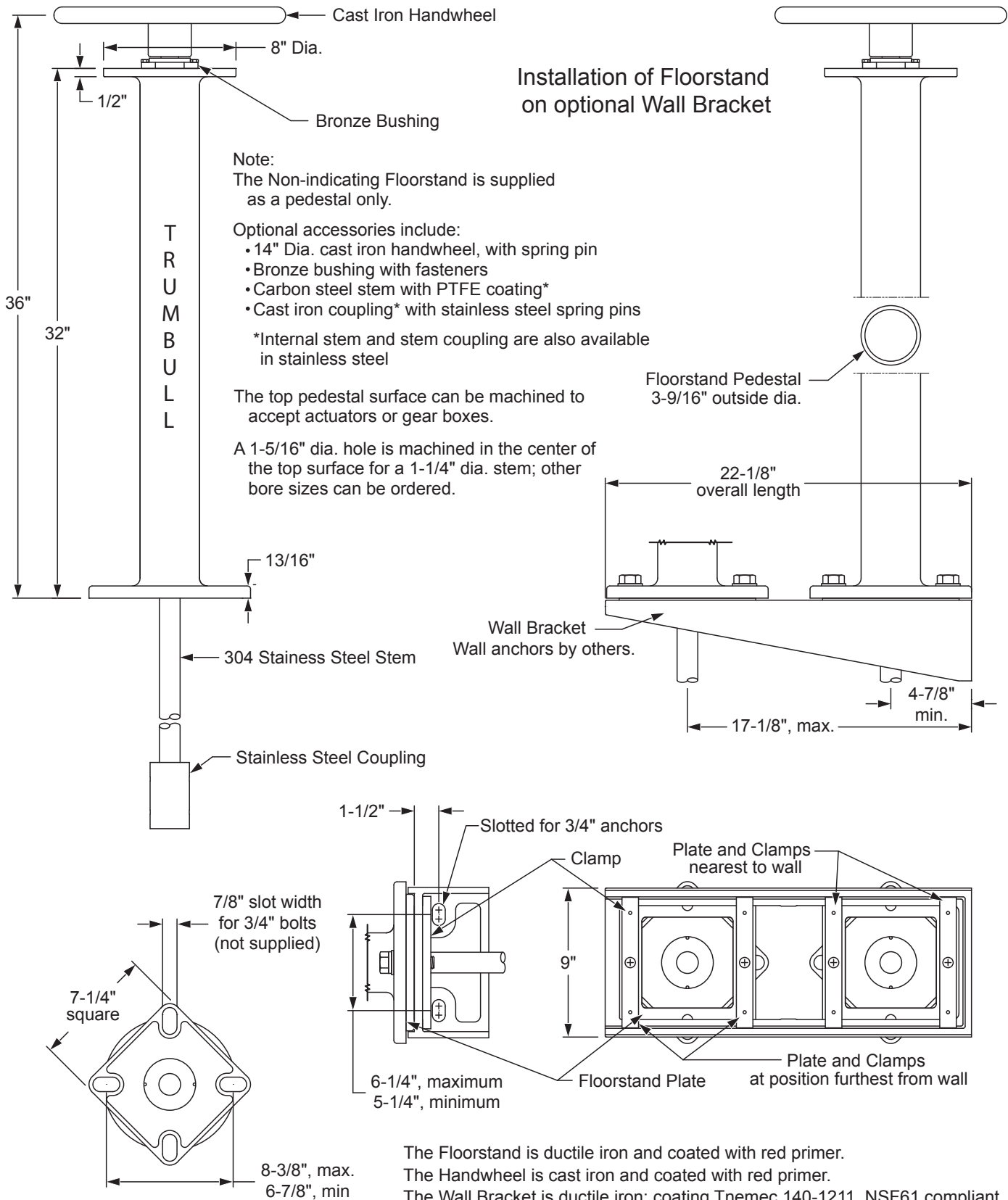


Non-indicating Floorstands can be adapted for various custom requirements such as:

- 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.

## Installation of Floorstand on optional Wall Bracket



The Floorstand is ductile iron and coated with red primer.  
 The Handwheel is cast iron and coated with red primer.  
 The Wall Bracket is ductile iron; coating Tnemec 140-1211, NSF61 compliant.  
 The Wall Bracket is also available in Type 316 stainless steel.

**Non-Indicating Floorstand**  
**36" Ductile Iron**  
 Drawn to Scale

Drawn:  
 FCN  
 07/30/12

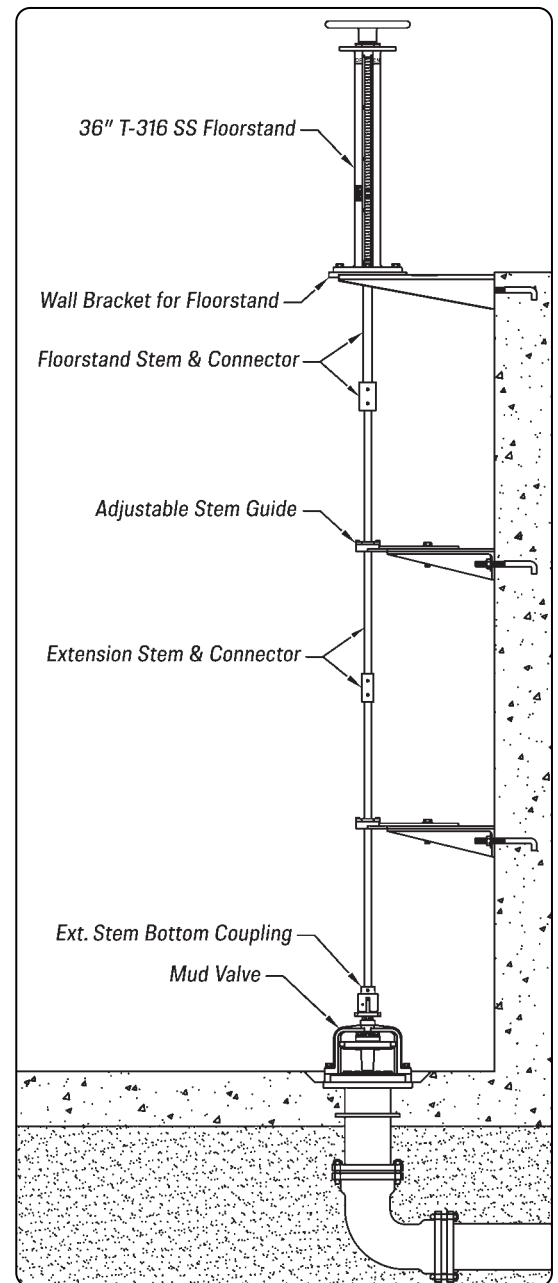
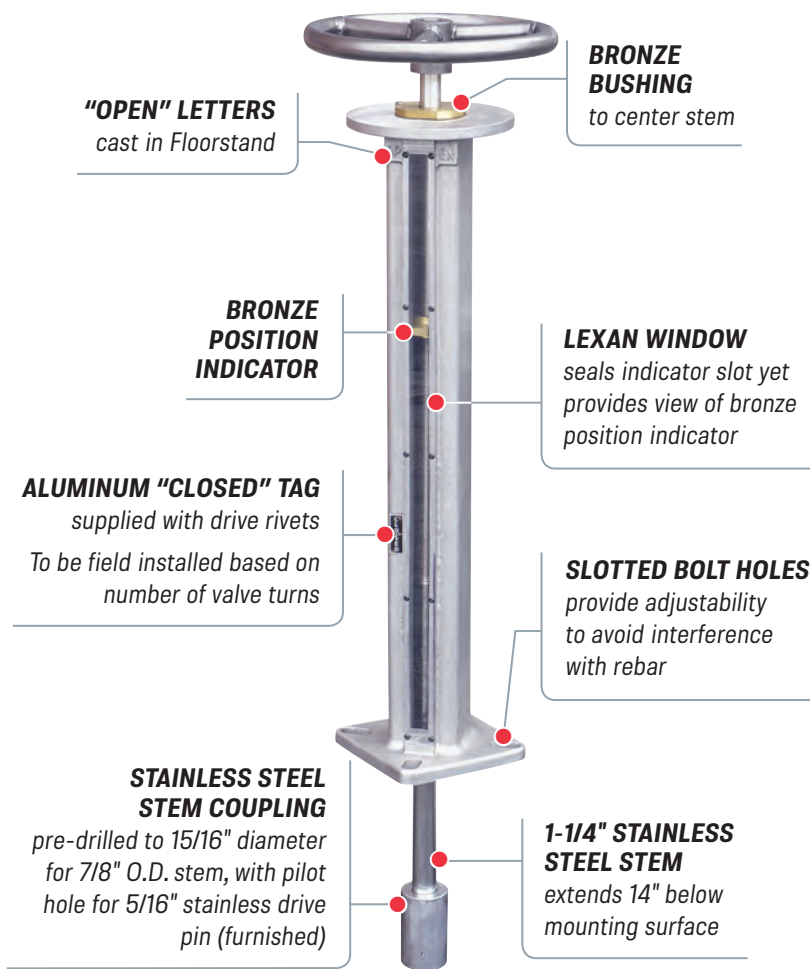
Revision:  
 FCN  
 08/15/12

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 Youngstown, Ohio  
 www.trumbull-mfg.com

## 36" Stainless Steel Indicating Floorstand

Includes a Sealed Indicator Slot

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

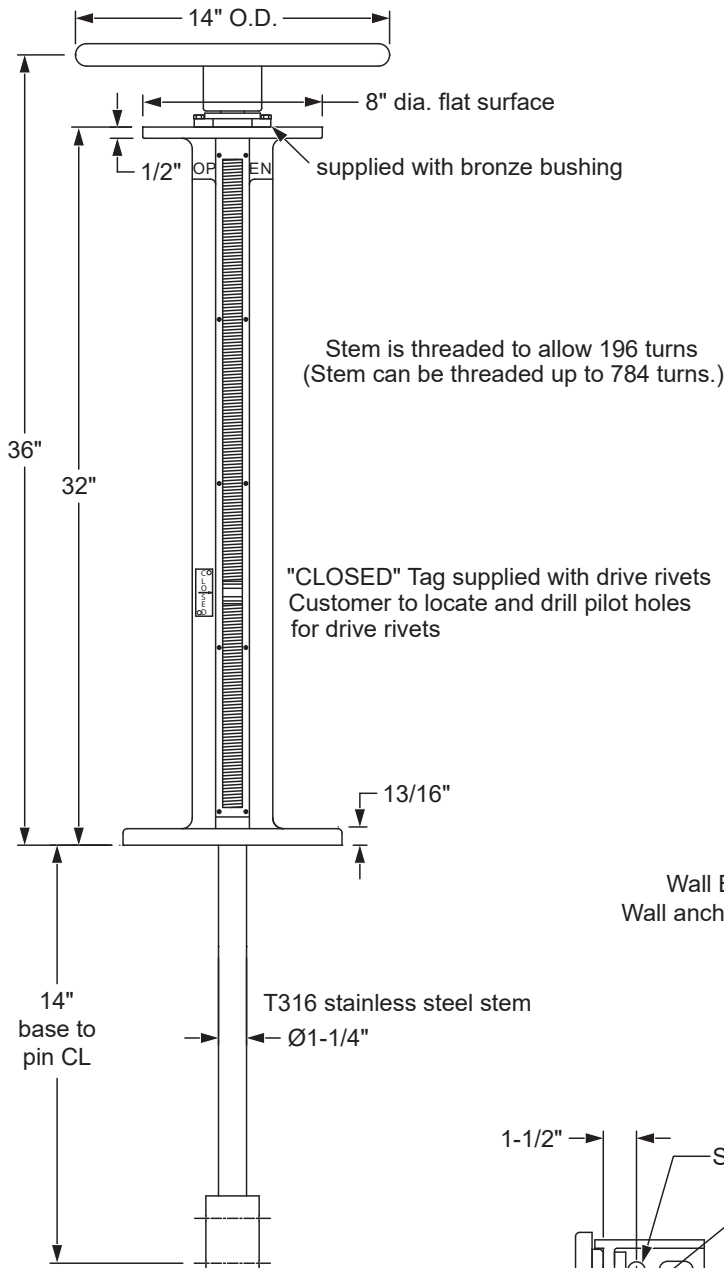


Typical Floorstand installation

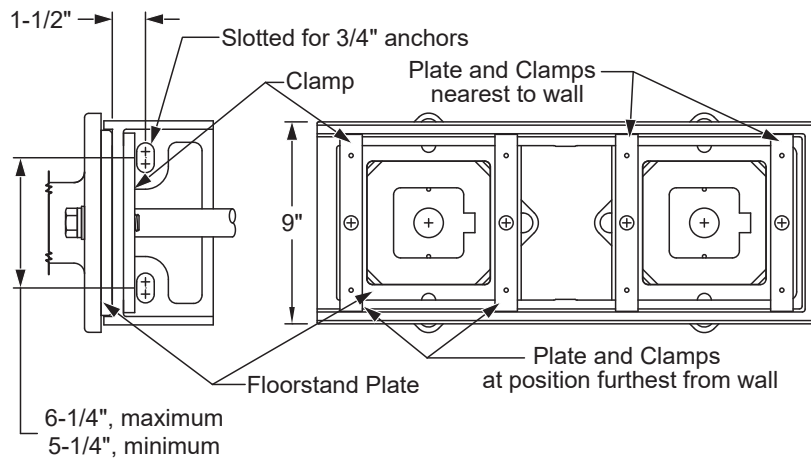
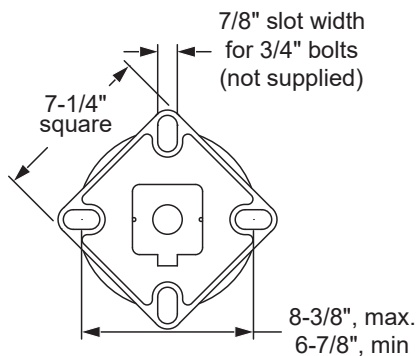
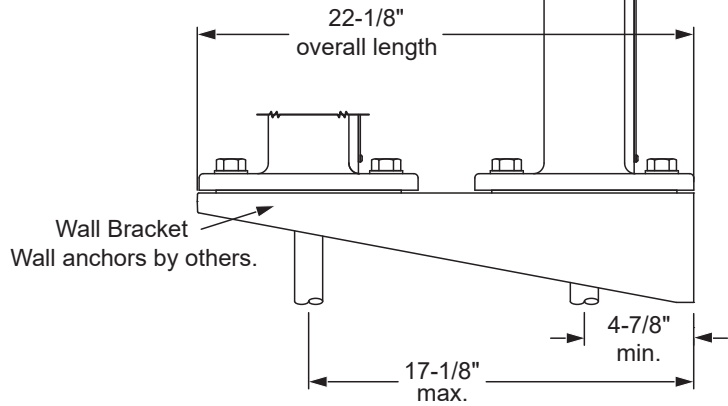
### Ordering Instructions

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**





### Installation of Floorstand on Wall Bracket



The Floorstand, Handwheel and Wall Bracket are T316 Stainless Steel castings.

## Indicating Floorstand 36" Stainless Steel

Drawn to Scale

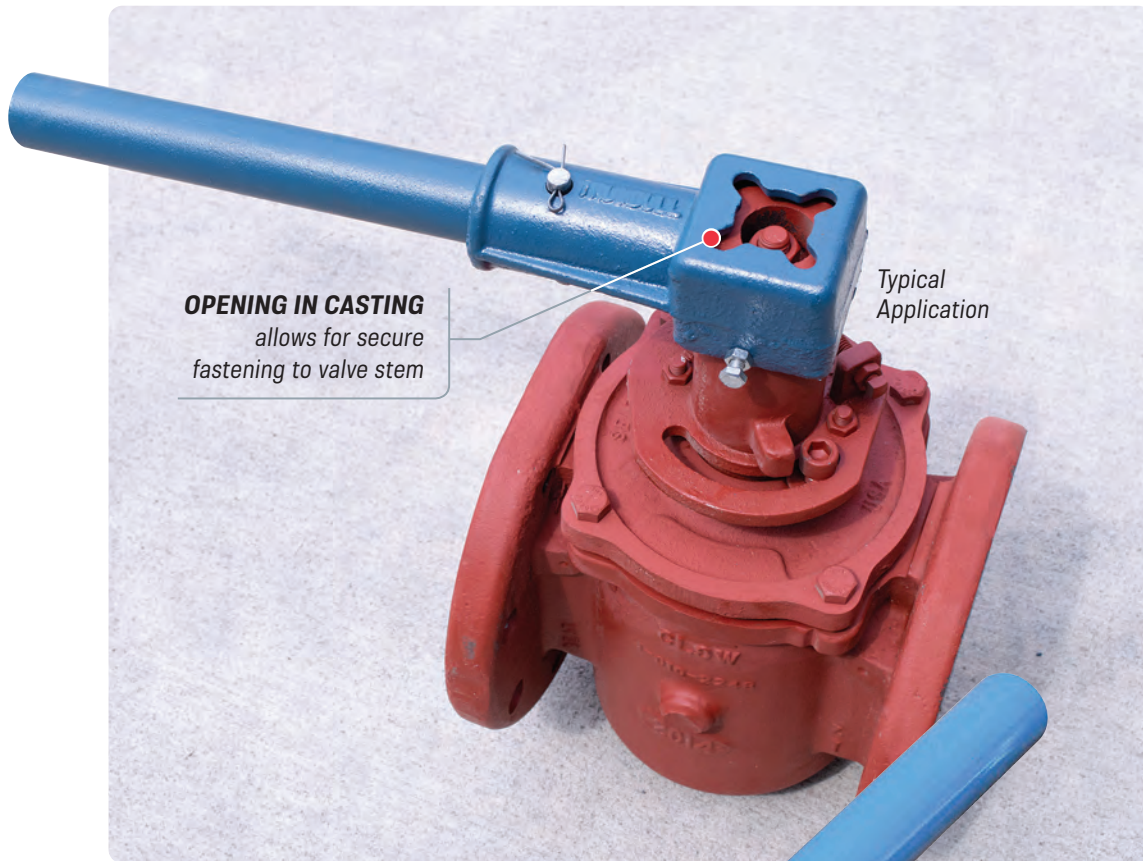
Drawn:  
FCN  
05/20/08

Revision:  
FCN  
11/11/12

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

## Hand Lever

For Use with Quarter-Turn, Above Ground Valves



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

Typical  
Application

**PLATED CLEVIS PIN  
AND COTTER KEY**  
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

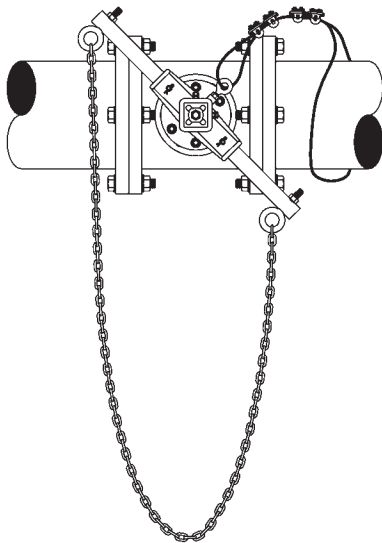
**CAP SCREW AND JAM NUT**  
secure wrench to valve operating nut

### Hand Lever

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

## Chain Lever

Used for Manual Operation of Quarter-Turn Valves Installed Overhead



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

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

**PLATED EYEBOLTS, HARDWARE AND CONNECTOR LINKS**  
furnished standard

**HEAVY DUTY DUCTILE IRON HEAD CASTING**  
stronger, yet lighter than 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)

**i** 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 No	Overall Length	Weight
<b>367-9988</b>	24"	8.50 lbs.

### Chain Lever Accessories

For machine chain, order specific length required.

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



## Ductile Iron Chainwheels

Used to Operate Overhead Valves from the Floor

**SPROCKET-TYPE**  
using single loop  
cut chain

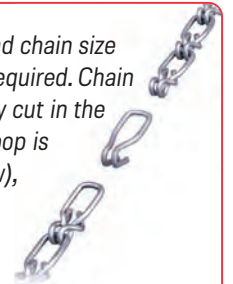
Ductile Iron Chainwheels allow operation of valves, actuators, or gear boxes in high, hard-to-reach locations by means of a slight pull on the chain. Universal design allows Chainwheel to be clamped to handwheel, or pinned directly to the stem. Ductile Iron Chainwheels are furnished with zinc-plated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



CHAINWHEEL OPERATION ILLUSTRATED.

### Ordering Instructions

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



### Connecting Links

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

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

**i** 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.



## Aluminum Chainwheels

Used to Operate Overhead Valves from the Floor

**SPROCKET-TYPE**  
using single loop  
cut chain



Made from  
**LIGHT-WEIGHT  
ALUMINUM**



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.

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

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

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



### Connecting Links

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

## 316 Stainless Steel Chainwheels

Used to Operate Overhead Valves from the Floor

**POCKET-TYPE**  
using welded link  
machine chain

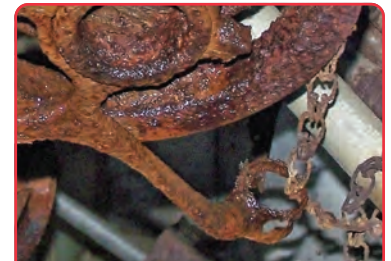


USED TO OPERATE OVERHEAD VALVES FROM THE FLOOR.

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

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

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



CORRODED CI CHAINWHEEL SHOWS ADVANTAGE OF STAINLESS STEEL.

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

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

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

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

### Trumbull Calibrated Machine Chain

Order length of chain required and connecting link.



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

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



## 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.



Finished with e-coating.

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



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

**i** 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.



### 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 5/0		
ATTACHMENT SET SIZE	Disk #0 367-2005	Disk #1 367-2006	"A" 367-1810		"B" 367-1811	"C" 367-1812			"D" 367-1813	
"D" (OVERALL DEPTH)	1-7/8"	2-3/8"	2-1/2"	2-1/2"	2-9/16"	2-9/16"	2-9/16"	2-5/8"	2-5/8"	3-5/16"
"H" (OVERALL HEIGHT)	5"	6-7/8"	8-3/4"	10-3/4"	12-5/8"	16"	19"	23"	27"	30"
"W" (OVERALL WIDTH)	4-1/4"	5-7/16"	8-1/4"	9-1/2"	11-5/16"	15-7/16"	18-7/16"	22-5/8"	26-1/2"	29-7/8"
STAR ADAPTER SIZE	Small		Medium			Large & X-Large see <b>NOTE</b> below				
MIN/MAX BORE DIA.	3/8" to 7/8"		1/2" to 1-3/8"			1/2" to 1-3/8" (Large); 1/2" to 2-1/8" (X-Large)				

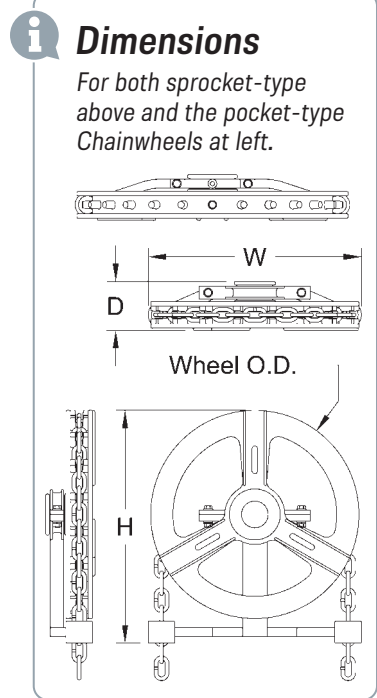
Note: Chainwheel spokes must be drilled for the Star Adapter on the TR-4.0, TR-4.5 and TR-5.0.

### 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"				



## 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!



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

### TRS Series Connecting Links

for pocket-type Chainwheels



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

### Single-Loop Chain

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

### Welded Link Machine Chain

calibrated specifically for our pocket-type Chainwheels

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



### CLAMPING HARDWARE



Attachment Sets

CLAMP BASE

CLAMP ARM

BAND



Clamping Disc 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.

Pocket Handwheel O.D. Ranges

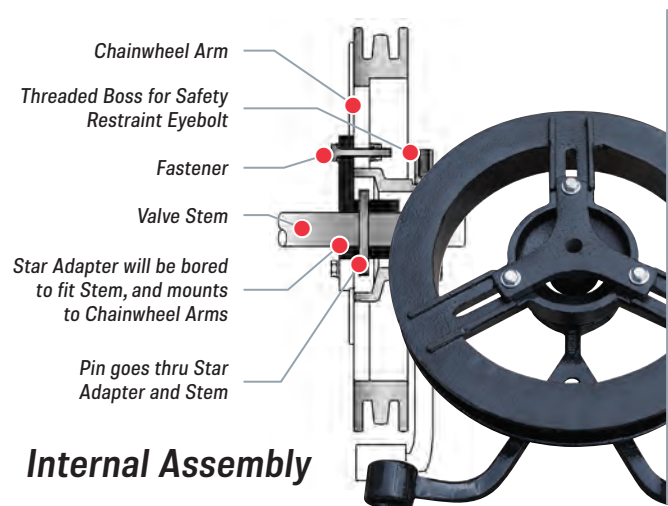
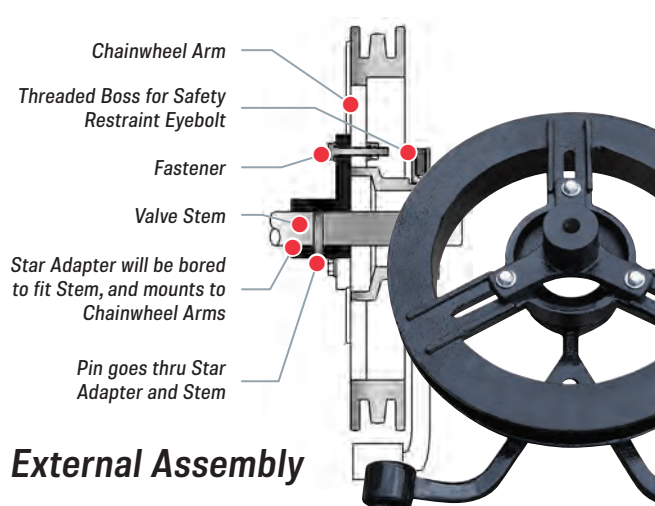
Size	"A" Attachment Set		"B" Attachment Set		"C" Attachment Set	
	Min. O.D.	Max. O.D.	Min. O.D.	Max. O.D.	Min. O.D.	Max. O.D.
TRS/CS-8	6"	8"	7-1/2"	10-1/2"	12-1/2"	15-1/2"
TRS/CS-12	7"	11"	8-1/2"	13-1/2"	13-1/4"	18-1/2"
TRS/CS-15	8"	15"	9-1/2"	17-1/2"	14-1/8"	23"
TRS/CS-22	11"	22-1/2"	13"	25"	17-1/2"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

### "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	Size 0.0	Size 1.0	Size 1.5	Size 2.0	Size 2.5	Size 3.0	Size 3.5	Size 4.0	Size 4.5	Size 5.0
<b>DI STAR ADAPTER</b>	<b>S</b>	<b>S</b>	<b>M</b>	<b>M</b>	<b>M</b>	<b>L &amp; XL</b>	<b>L &amp; XL</b>	<b>L &amp; XL</b>	<b>L &amp; XL</b>	<b>L &amp; XL</b>
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	Size 12	Size 15	Size 22	Size 29
<b>SS STAR ADAPTER</b>	<b>S</b>	<b>S</b>	<b>L</b>	<b>L</b>	<b>L</b>	<b>L</b>	<b>L</b>
TRUMBULL ITEM NO.	167-3060			167-3062			
BORE SIZE, STANDARD	3/8"			3/4"			
HUB O.D.	1-1/16"			1-9/16"			
OPTIONAL BORE, MAX.	7/8"			1-3/8"			
HUB HEIGHT	1/2"			1-1/2"			



## TR-Series Connecting Links

Used to Connect Chain for Use with Sprocket Chainwheels

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

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

Chain Size	Galvanized		316 Stainless Steel	
	Item №	Weight	Item №	Weight
1/0	<b>367-1994</b>	0.02 lbs.	<b>367-1997</b>	0.02 lbs.
4/0	<b>367-1995</b>	0.03 lbs.	<b>367-1998</b>	0.03 lbs.
5/0	<b>367-1996</b>	0.05 lbs.	----	----

INSTALLATION IS EASY,  
JUST FOLLOW THESE FIVE STEPS ...



**1**  
Cut chain to desired length.  
Cut and remove excess link pieces.



**2**  
Install connecting link  
by inserting looped end of chain  
into the open end of connecting link.



**3**  
Slide the chain to the back side  
of connecting link as shown.



**4**  
Lay opposite end of chain  
onto the connecting link.



**5**  
Firmly grip connecting link  
with pliers and/or adjustable  
pliers and crimp the open end  
of connecting link over to  
complete connection.



## "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.



**CHAIN FROM OVERHEAD  
CHAINWHEEL SHOWN IN PATHWAY.**



**"CHAIN-UP" DEVICE STORES  
THE CHAIN ABOVE PATHWAY.**



**WATER DRAINS**  
prevent water from  
building up inside

Item No	Overall Length	Weight
<b>367-1890</b>	11-3/4"	0.55 lbs.

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

## Secondary Safety Restraint

Safety Device System used with Trumbull Chainwheels

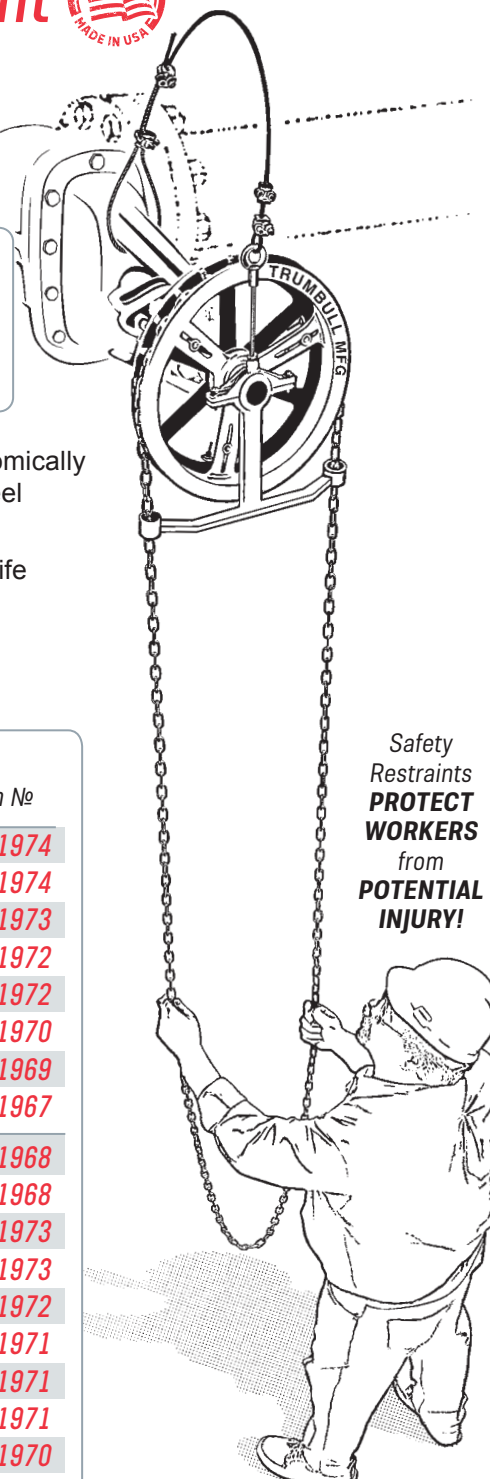


### **ALERT! PREVENT SERIOUS INJURIES: KEEP YOUR CHAINWHEEL SECURE!**

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.



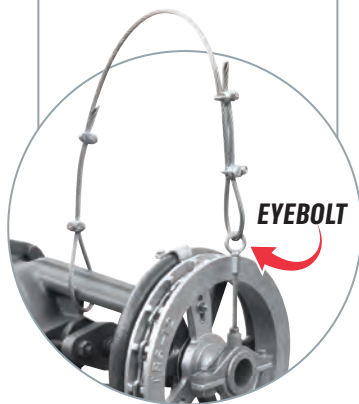
Safety Restraints  
**PROTECT WORKERS**  
from  
**POTENTIAL INJURY!**

### 1 ORDER KIT

Item No

**367-1975**

Kit is furnished with 5 feet of safety cable and 4 cable clamps. Eyebolts must be ordered separately, see chart on right...



### 2 SELECT EYEBOLT

	Chainwheel Model No	Eyebolt Length	Item No
STAINLESS STEEL	TR-4	---	1" <b>367-1974</b>
	TR-6	TRCS-6	1" <b>367-1974</b>
	TR-8	TRCS-8	3" <b>367-1973</b>
	TR-12	TRCS-12	6" <b>367-1972</b>
	TR-15	TRCS-15	6" <b>367-1972</b>
	TR-22	TRCS-22	13" <b>367-1970</b>
CARBON STEEL	TR-29B	TRCS-29B	16" <b>367-1969</b>
	TR-29C	TRCS-29C	18" <b>367-1967</b>
	TR-0.0	TRA-0.0	2" <b>367-1968</b>
DUCTILE IRON	TR-1.0	TRA-1.0	2" <b>367-1968</b>
	TR-1.5	TRA-1.5	3" <b>367-1973</b>
	TR-2.0	TRA-2.0	3" <b>367-1973</b>
	TR-2.5	TRA-2.5	6" <b>367-1972</b>
	TR-3.0	TRA-3.0	9" <b>367-1971</b>
	TR-3.5	TRA-3.5	9" <b>367-1971</b>
	TR-4.0	---	9" <b>367-1971</b>
	TR-4.5	---	13" <b>367-1970</b>
	TR-5.0	---	18" <b>367-1967</b>

## INSTRUCTIONS

### Installation of Safety Restraints

As easy as... **1** **2** **3** **4**

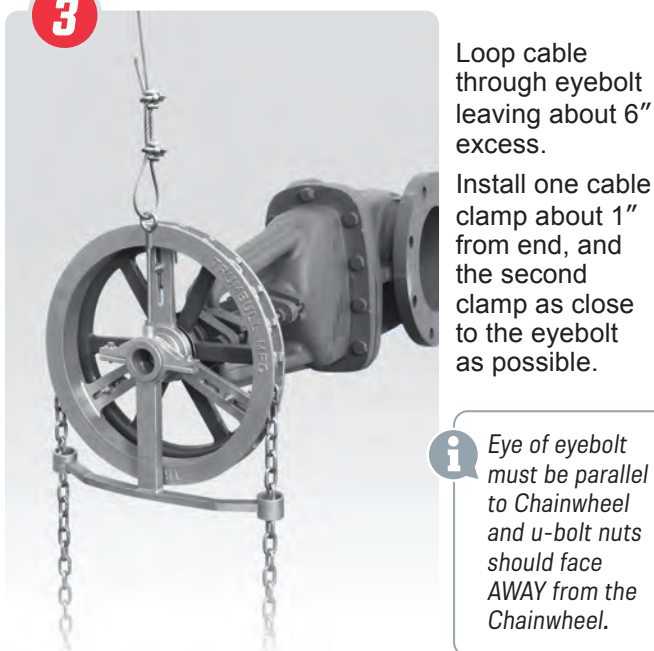
**1**



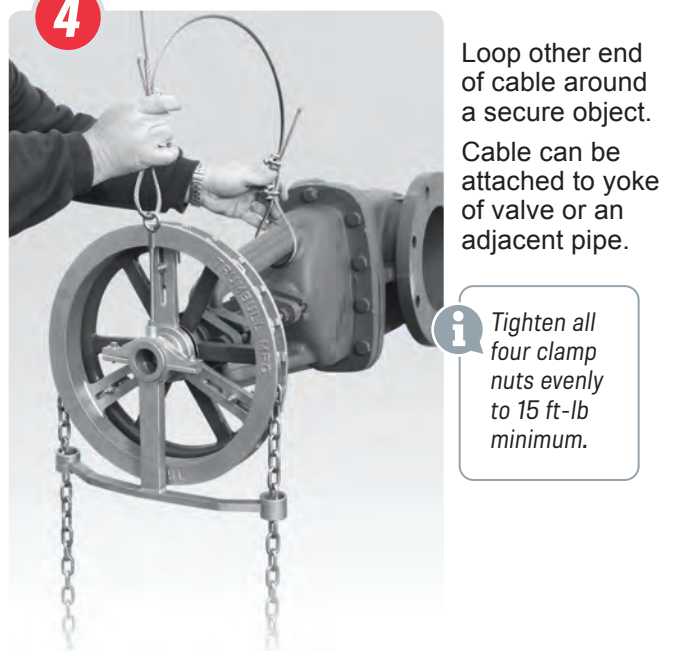
**2**



**3**



**4**



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

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



## Saddle Style Adjustable Pipe Supports



Available in Galvanized Carbon Steel and ASTM 304 Stainless Steel



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

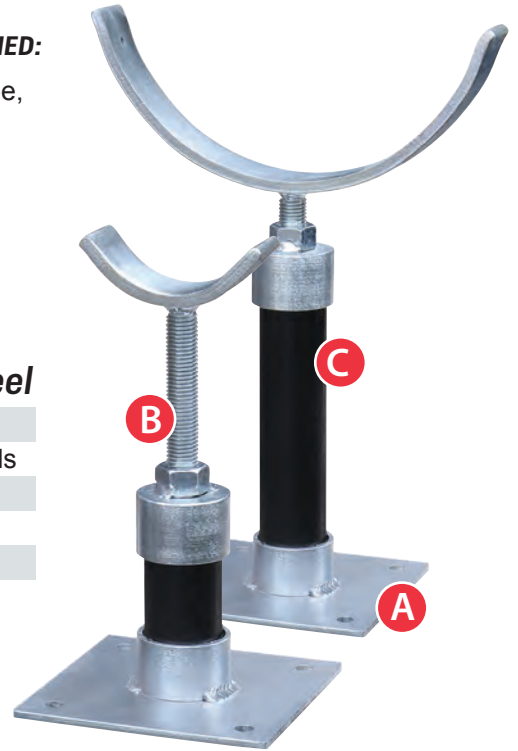


### ASSEMBLY INCLUDES:

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

### CUSTOMER SUPPLIED:

- C** Extension Pipe, at the length required\*



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

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

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

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

Pipe Size	Carbon Steel Item No	304 Stainless Item No	Saddle Size	Threaded Rod	Base Plate	Extension Pipe Size*	Min. Height from Floor
3"	364-5850	364-5830	1-1/2" x 3/8"				
4"	364-5851	364-5831					
6"	364-5852	364-5832	2" x 1/2"	1"-8 NC x 6"	1/4" x 8" x 8"	2" Sch 40	7"
8"	364-5853	364-5833					
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	10"
16"	364-5857	364-5837					
18"	364-5858	364-5838	4" x 3/4"	2"-4 NC x 6"	1/2" x 8" x 8"	4" Sch 40	
20"	364-5859	364-5839					
24"	364-5860	364-5840					

## Flange Style Adjustable Pipe Supports



Available in Galvanized Carbon Steel and ASTM 304 Stainless Steel



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



### ASSEMBLY INCLUDES:

- A** Large base; 4" x 6" or 8" x 8"
- B** Flange Assembly & Height-Adjustment Cap, which allows for up to 3" of final height adjustment

### CUSTOMER SUPPLIED:

- C** Extension Pipe, at the length required\*



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

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

- Optional 316 stainless steel supports available.
- 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.

Class 125 Flange Size	Carbon Steel Item No	304 Stainless Item No	Flange Plate Dimensions	Threaded Rod	Base Plate	Extension Pipe Size*	Min. Height from Floor
3"	364-5870	364-5890	6" x 3-1/4" x 1/4"	1"-8 NC x 6"	1/4" x 4" x 6"	2" Sch 40	7"
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"				
8"	364-5873	364-5893	6-1/2" x 2-1/2" x 1/4"				
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"	1-1/2"-6 NC x 6"	1/2" x 8" x 8"	3" Sch 40	10"
14"	364-5876	364-5896	7-1/2" x 3-1/2" x 3/8"				
16"	364-5877	364-5897					
18"	364-5878	364-5898					
20"	364-5879	364-5899					
24"	364-5880	364-5900		2"-4 NC x 6"		4" Sch 40	

## 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!

# Garlock

SEALING TECHNOLOGIES®



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

**i** 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.

### **i** HOW LINK-SEAL® MODULAR SEALS WORK ...



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



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



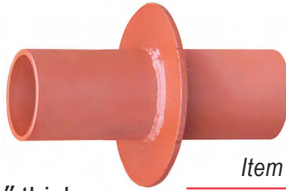
**3** Slide the assembly into the space between the pipe and wall opening.



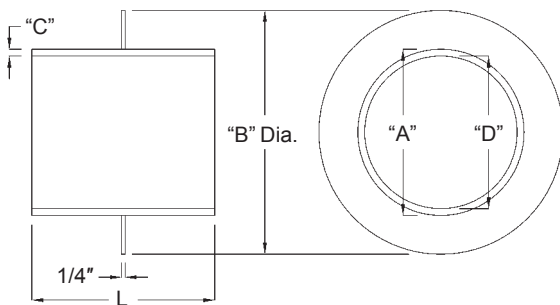
**4** When the bolts are tightened, Link-Seal Modular Seals® expand to create a gas and water tight seal.



## 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.



Item No	"A" Diameter	"B" Diameter	"C" Wall Thickness	"D" 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"



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.

## 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.



CENTURY-LINE™ ILLUSTRATED.

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

## 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.

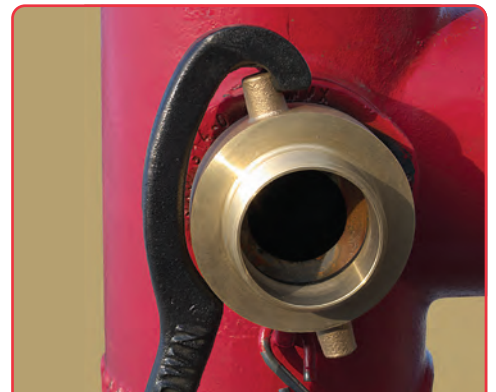


### NST x MIP Hydrant Adapters

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

### NST x Garden Hose Hydrant Adapter

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



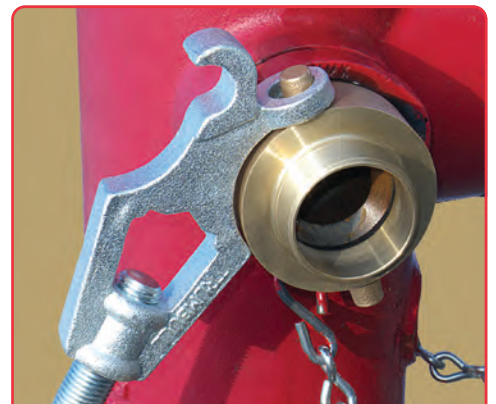
HYDRANT OPERATING WRENCHES ARE SHOWN ON PAGE A-4.

### FIP x Garden Hose Adapter

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



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



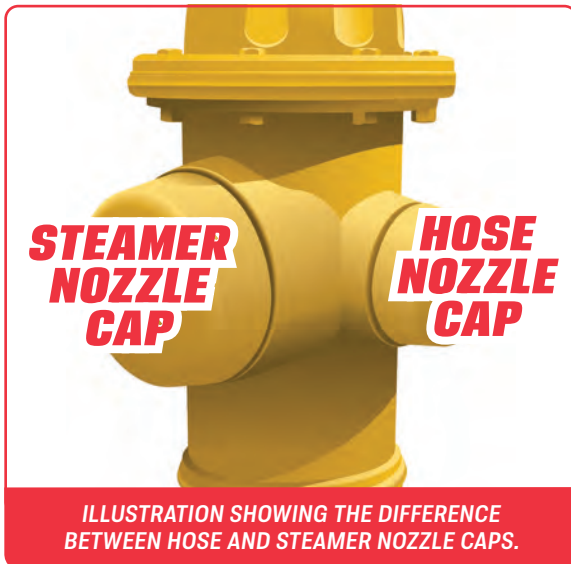
ADJUSTABLE HYDRANT WRENCHES ARE SHOWN ON PAGE A-5.

## 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 No	Product Description	Weight
<b>392-0917</b>	2-1/2" Hose Nozzle Cap	3.75 lbs.
<b>392-0914</b>	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 No	Weight
<b>392-0860</b>	0.20 lbs.

**i** Nozzle Cap purchased separately.

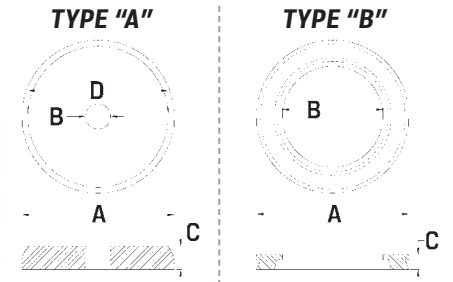
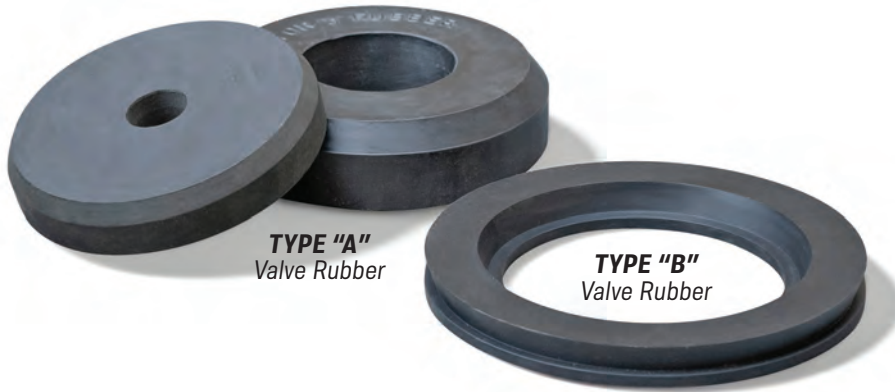


### Gaskets for Hydrant Nozzle Caps

Item No	Size	O.D.	I.D.
<b>392-0923</b>	2-1/2"	3-1/4"	1-1/2"
<b>392-0920</b>	4-1/2"	5-3/4"	3-1/4"



## Hydrant Valve Rubbers



Hydrant Manufacturer	Model	Valve Opening	Item No	Type				
					"A"	"B"	"C"	"D"
Ludlow	L 75 & L 90	4"	392-0200	<b>"B"</b>	5-3/8"	3-1/4"	5/8"	----
	L 75 & L 90	4-1/2"	392-0201		5-3/4"	3-7/8"	5/8"	----
	L 75 & L 90	5"	392-0100		6-1/2"	4-1/8"	5/8"	----
Rensselaer	L 90A & L 90B	4"	393-0255		4-3/8"	2-3/8"	1"	3-7/8"
	L 90A & L 90B	5"	393-0260		5-5/8"	2-5/8"	1-1/4"	5-3/8"
Mueller* (Non-Reversible)	A421 (Centurion)	4-1/2"	377-5692		5"	1"	1-1/8"	4-1/4"
	Improved	4-1/4"	377-5694		4-7/8"	1"	1"	4-1/4"
	Improved	4-1/2"	377-5700		5"	1"	1-1/8"	4-1/2"
U.S. Pipe*	Smith* H200	4-1/2"	377-5702	<b>"A"</b>	5"	2-1/4"	3/4"	4-3/4"
American Darling*	B50B, 40-50-41	4"	377-4792		4-1/2"	2-1/16"	1"	4-1/8"
	B50B, 50-50-41	5"	377-5492		5-3/4"	2-1/16"	1-3/16"	5-3/16"
	B62B, 54-62-41	5-1/4"	377-6092		5-5/8"	1"	1"	5-3/16"
Kennedy*	K10, K11, K81, 1080, 1280	4-1/2"	378-0204		5"	15/16"	7/8"	4-5/8"
	K10, K11, K81	5-1/4"	378-0208		5-11/16"	1-3/32"	7/8"	5-1/4"

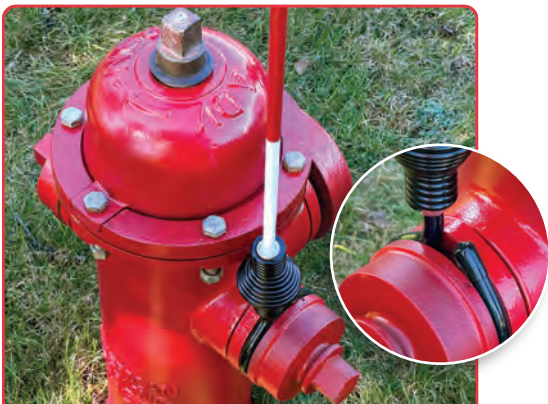
\* Hydrant names are registered trademarks of American Darling/American Flow Control, McWane, Mueller or U.S. Pipe; Trumbull Manufacturing is not affiliated with these companies.



HYDRANT MARKERS HELP FIND HYDRANTS WHEN THEY ARE NEEDED MOST.



TOP MOUNT MARKERS ATTACH TO THE HYDRANT VIA THE HYDRANT CAP BOLTS.



SIDE MOUNT MARKERS ATTACH TO THE HYDRANT HOSE NOZZLE.

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



Top Mount Side Mount

# **TRUMBULL**



## **Trumbull Manufacturing**

3850 Hendricks Road, Youngstown, Ohio 44515

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

[www.trumbull-mfg.com](http://www.trumbull-mfg.com)



# **TRUMBULL**



## **Trumbull Manufacturing**

3850 Hendricks Road, Youngstown, Ohio 44515

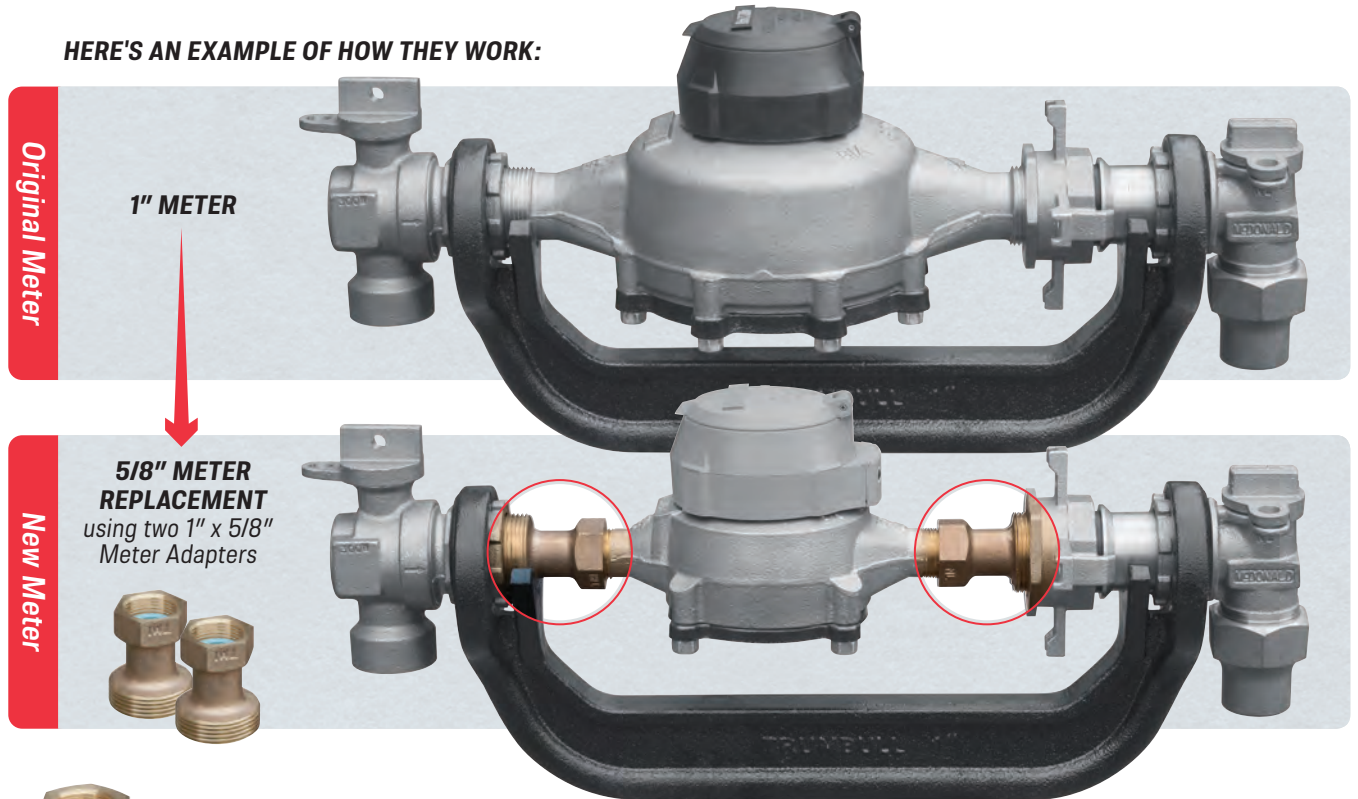
Phone: 330.270.7888 | Toll Free: 877.504.1507 | Fax: 330.392.0756

[www.trumbull-mfg.com](http://www.trumbull-mfg.com)

## 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.

HERE'S AN EXAMPLE OF HOW THEY WORK:



Original Meter

1" METER

New Meter

5/8" METER REPLACEMENT using two 1" x 5/8" Meter Adapters



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

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

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

## 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



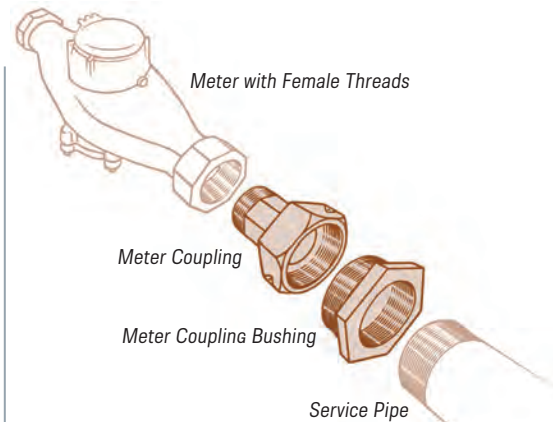
### Meter Couplings

- 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

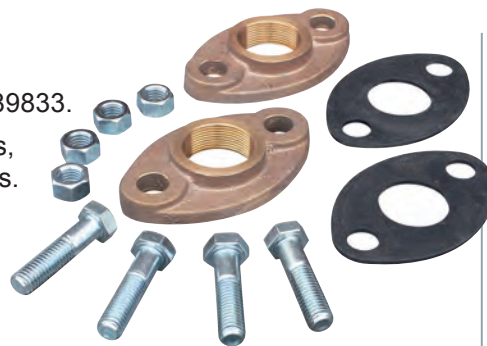
For use with 1-1/2" or 2" meters with female threads, as shown below.



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.



Item №	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.



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

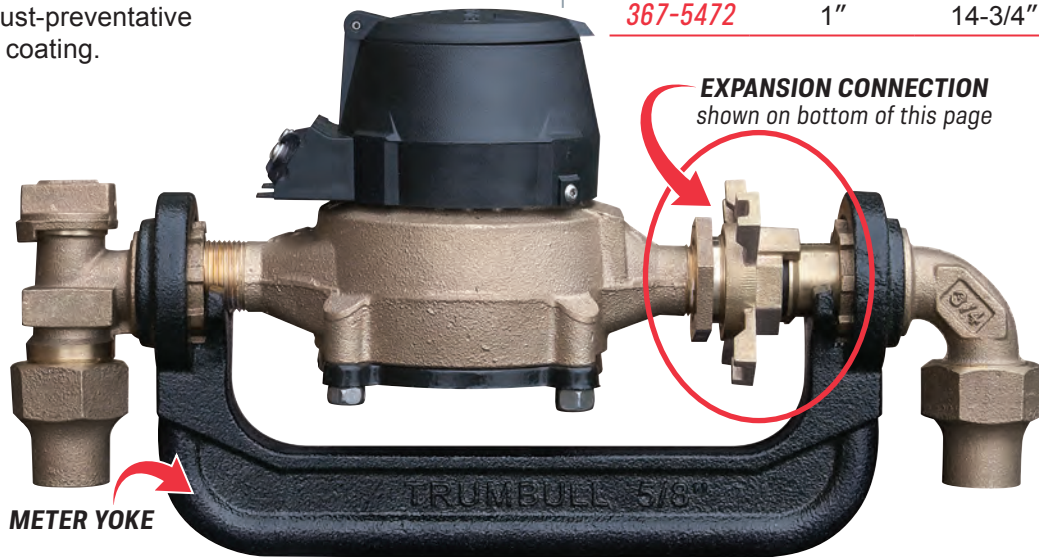


## Cast Iron Meter Yokes

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

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

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

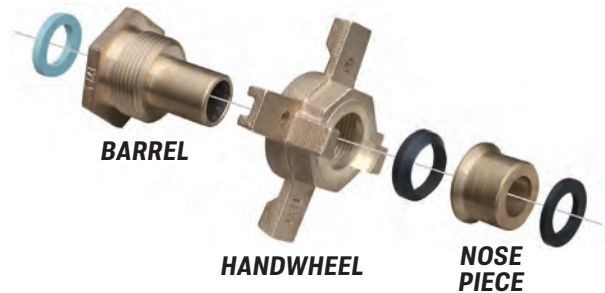


## Expansion Connections

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.

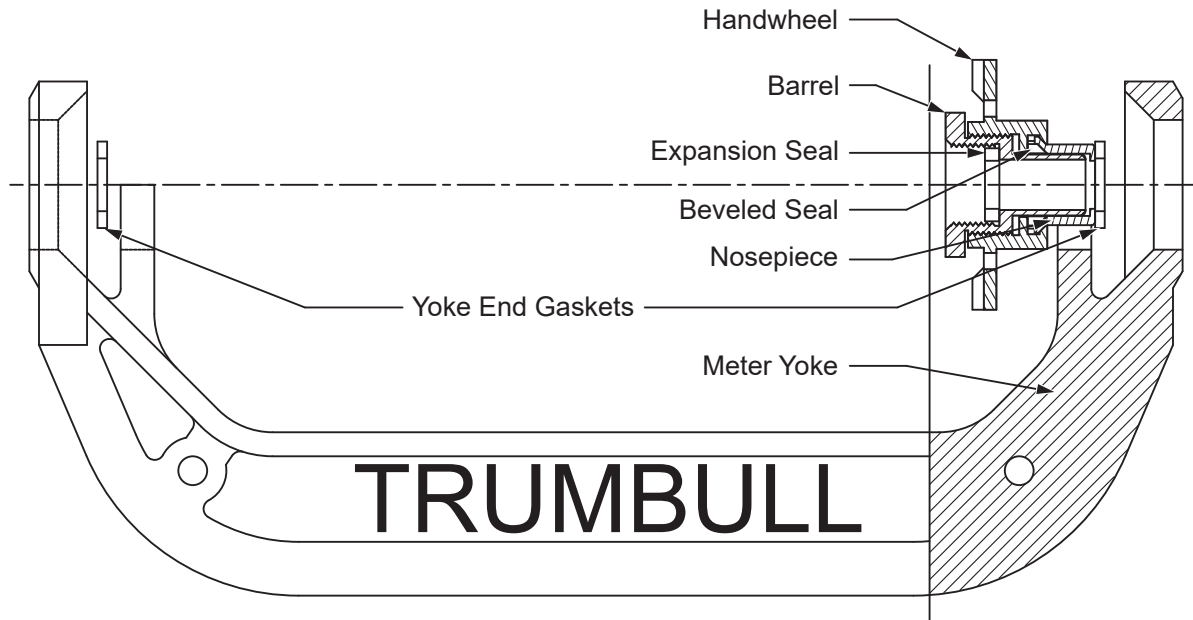
Nose Piece and Barrel are in contact with water and are cast from UNS C89833 brass. Certified by UL for compliance with NSF/ANSI 61 and NSF/ANSI 372, per the U.S. Safe Drinking Water Act.

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.



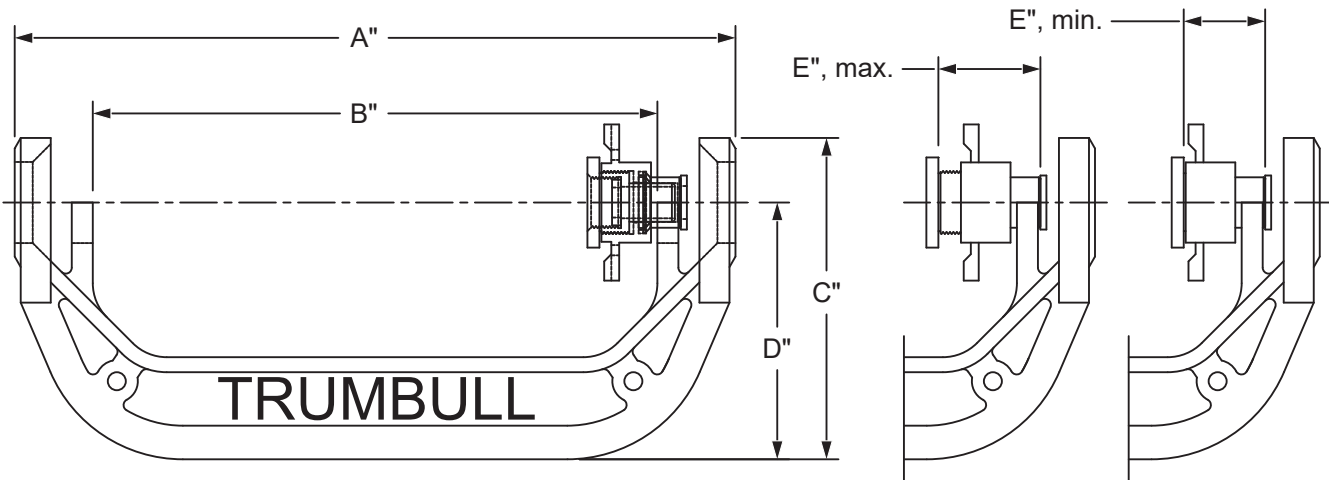
**i** Dimensions of Yokes & Expansion Connections are consistent & interchangeable with other industry manufacturers.

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



Meter Size	Yoke						Expander			
	A"	B"	C"	D"	Wt., lbs.	Item No.	Bore Size	E", min.- max.	Wt., lbs.	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

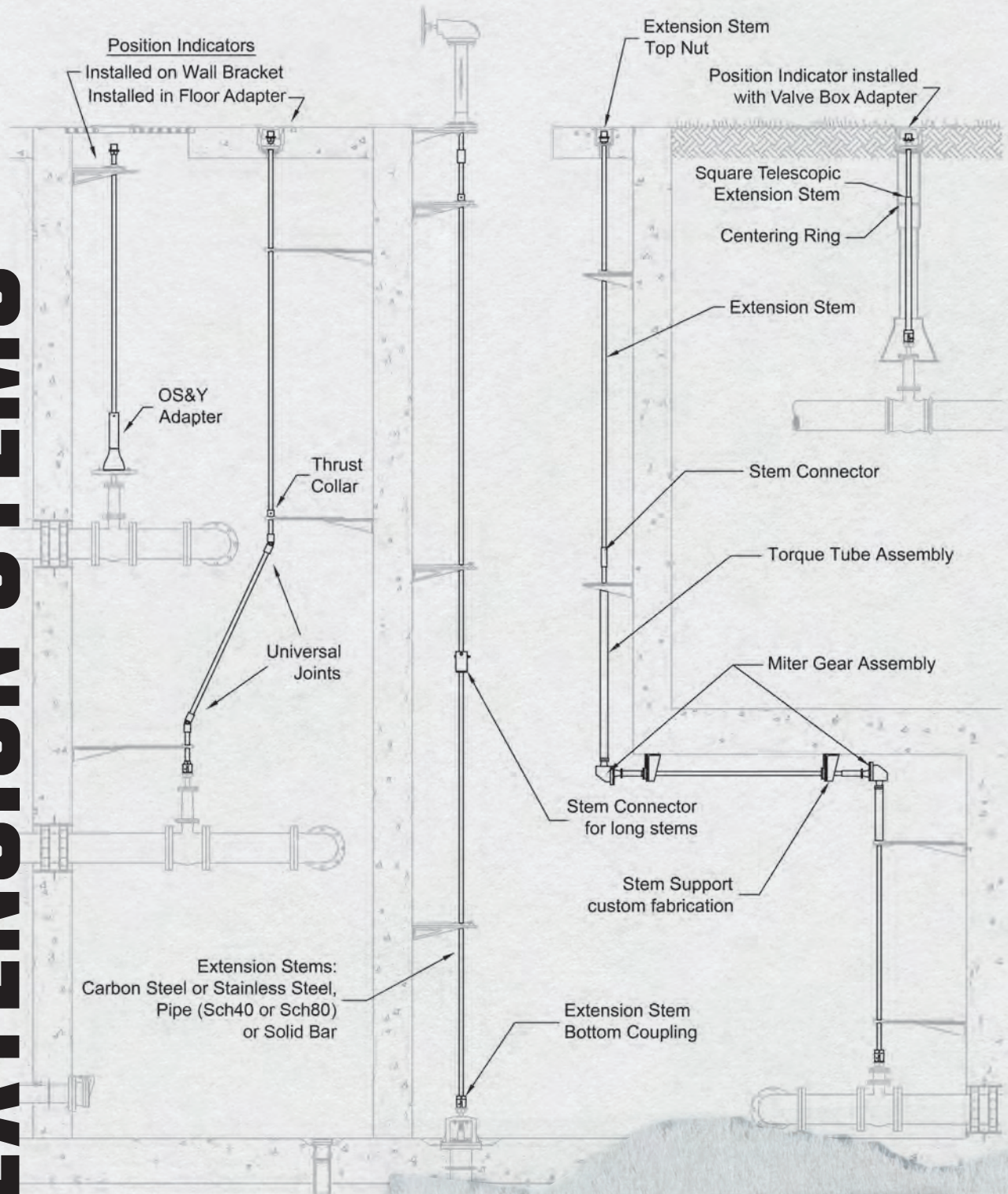
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05/19/14

Revision:  
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**Trumbull Manufacturing**  
Youngstown, Ohio  
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