



PRODUCT CATALOG

of Waterworks Specialty Products

Section A – *Keys & Tools*

Section B – *Curb & Valve Box Products*

Section C – *Joint Restraint Products*

Section D – *Products for Corrosive Soils*

Section E – *Meter Box & Manhole Lids,
Couplings & Flanges*

Section F – *Valve Position Indicators*

Section G – *Treatment Plant Products
& Accessories*

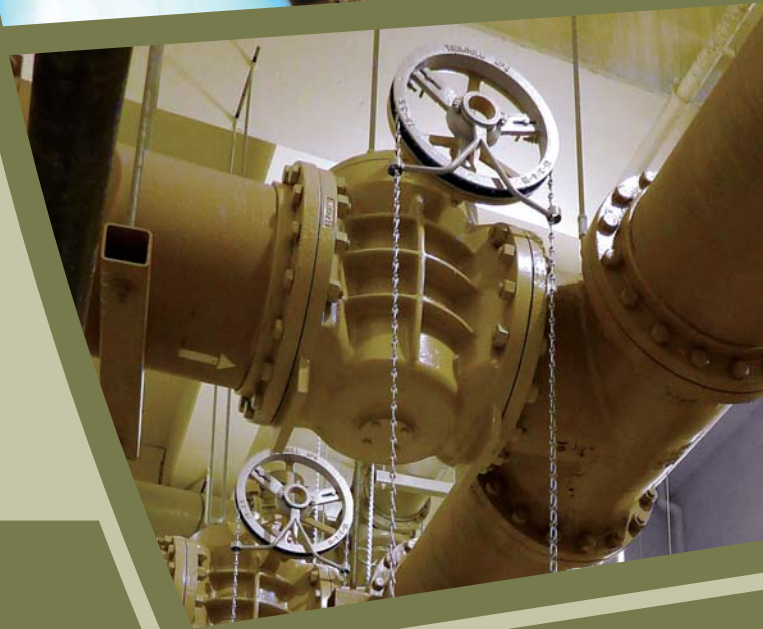
Section H – *Hydrant Parts & Accessories*



Contact us at ...

800.677.1799

www.trumbull-mfg.com



"Specialty products for the waterworks and valve industries"

About Trumbull Industries . . .

Trumbull Industries was established in 1922 in Warren, Ohio (Trumbull County). In the 1980's, we began manufacturing waterworks specialty products. In 1990, the Ludlow-Rensselaer Hydrant Company was purchased and manufacturing equipment moved to Warren. Today, Trumbull's sales, engineering and quality control staffs operate from its sales office in Youngstown, Ohio and its sales and manufacturing facility in Warren, Ohio.



Youngstown, Ohio Location

Trumbull's product line has increased steadily over the years, covering a wide variety of unique and quality products used in the waterworks and valve markets. We invite our customers' suggestions for new products and how we can improve and add more value to our existing products.

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Warren, Ohio Location

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TRUMBULL

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Toll Free: 800.677.1799 | P.O. Box 1556
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Double Socket Ratchet Wrenches

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

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
now included with set



CUSTOM LOGOS AVAILABLE

Inquire how we can put **YOUR LOGO** on the grip!

3-Wrench Set

Trumbull Item No.	Set Includes	Weight
364-9986	3 Wrenches & OD Tape in Carrying Case	9.35 lbs.

Maintenance Recommendation

To assure long service life & reliable operation, **CLEAN** and **OIL** mechanism regularly.

Individual Wrenches

Trumbull Item No.	Grip Color	Large Socket	Small Socket	Large Socket Fits Hex Size	Small Socket Fits Hex Size	Examples of Large Socket Applications	Examples of Small Socket Applications
364-9982	Blue	1-1/4"	1-1/16"	3/4" Heavy	5/8" Heavy	4" thru 24" MJ Ftg's., 3/4" Hex Bolts with Heavy Hex	3" MJ Ftg's., Cast Couplings, Clamps, Tapping Sleeves
364-9985	Green	1-1/8"	15/16"	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
364-9983	Yellow	7/8"	3/4"	9/16" Standard & 1/2" Heavy	1/2" Standard & 7/16" Heavy	6" thru 12" Hymax® & other Couplings with 1/2" Heavy Hex	1-1/2" thru 4" Hymax® Couplings, 1-1/2" thru 24" MaxiFit™

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**ADJUSTABLE
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.
- Increased number of socket teeth requires less stroke to ratchet.
- Heavy-duty ratchet mechanism is lubricated and enclosed in a sealed ductile iron casting to prevent debris from jamming.
- Wrench is painted black and is 16" O.A.L.

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

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



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

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Ratchet Box Wrench

Enclosed Heavy-Duty Design

Trumbull's heavy-duty **RATCHETING BOX END WRENCH** can tighten nuts on 1" and 1 1/4" bolts without bottoming out and has a simple design that allows for loose sockets that can be changed. The design prevents rocking and prevents the socket from entering the mechanism.

Trumbull
Item No.

364-9980

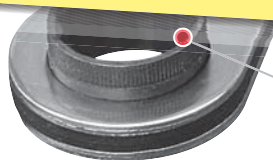
1-1/16" x 1-1/4"
and 3/4"

**TRIPLE RATCHET
CONSTRUCTION**

DISCONTINUED
See pages A-1 and A-2 for other
models and sizes of Ratchet
Wrenches.



THE LARGE END
has a 1-1/4" socket which
fits heavy hex nuts on 3/4"
bolts, used on 4" through
24" Mechanical Joints



THE SMALL END
has a 1-1/16" socket which fits
heavy hex nuts on 5/8" bolts, used
on clamps, couplings, saddles and
3" Mechanical Joints

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Manhole Cover Hooks

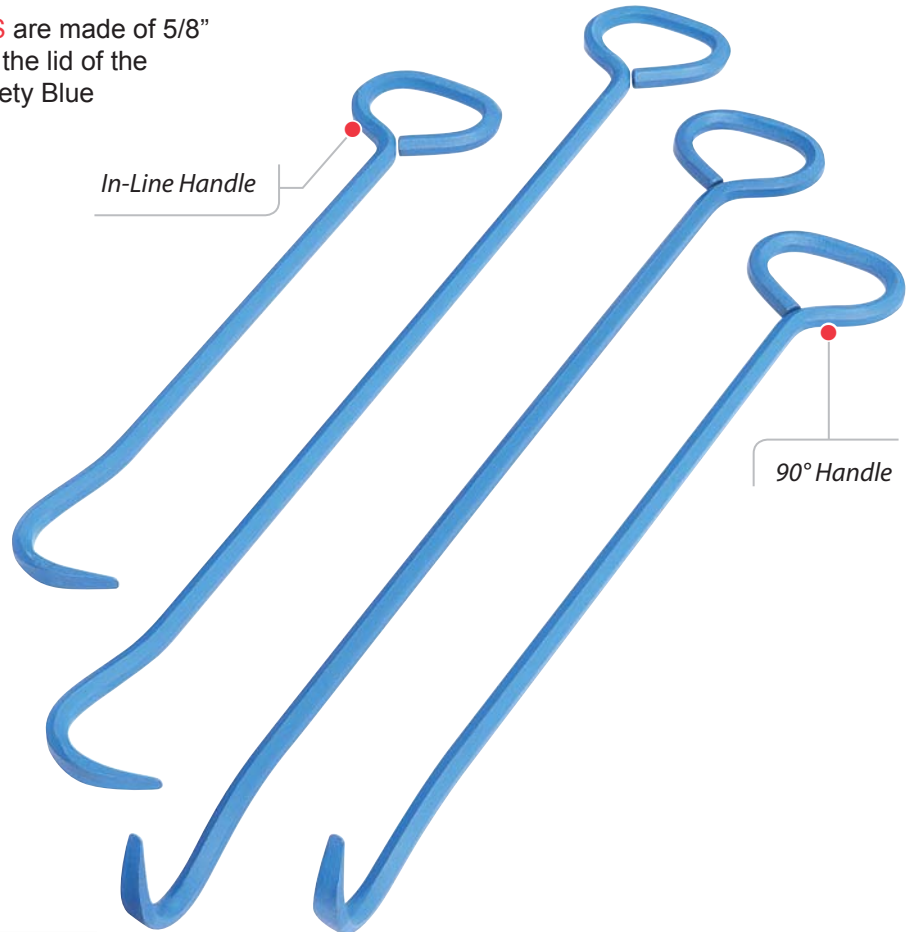
TRUMBULL MANHOLE COVER HOOKS are made of 5/8" hexagonal steel. The 1/2" point engages the lid of the manhole cover. Hooks are painted in Safety Blue enamel paint for safety and durability.

In-Line Handle

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

90° Handle

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



Manhole Hooks engage pick holes...



...and they engage vent holes.

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Hydrant Operating Wrenches

Non-adjustable 1-piece ductile iron casting, available with square or pentagon opening to fit specific operating nut sizes. These wrenches will not 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.

Normally stocked in the models shown below. 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.



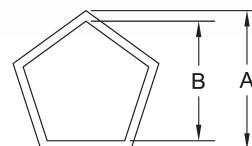
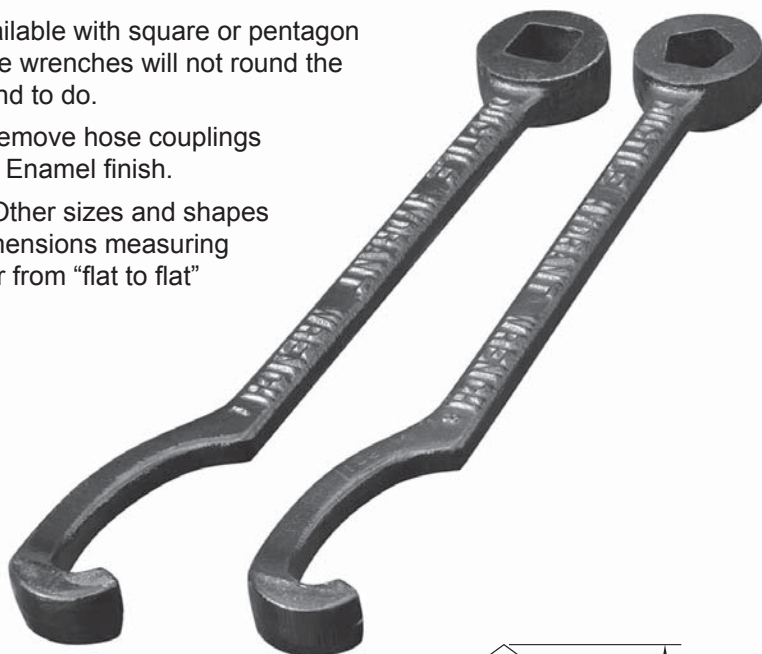
Internal core works on pin-type Hose Couplings or Hydrant Adapters.



Works on lug-type Hose Couplings or Hydrant Adapters.

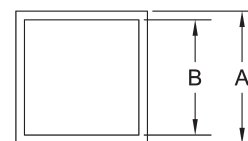


Grips and retains pentagon or square operating nuts.



Pentagon Nuts

Trumbull Item No.	Size	Model Number	"A" Base	"B" Top	Weight
377-5952	1-1/2"	B41	1-5/8"	1-1/2"	2.45 lbs.
377-5955	1-3/8"	B31	1-3/8"	1-5/16"	2.40 lbs.
377-5954	1-5/16"	B24	1-5/16"	1-1/4"	2.45 lbs.
377-5953	1-1/4"	B18	1-3/8"	1-1/4"	2.55 lbs.
377-5956	1-3/16"	B11	1-3/16"	1-1/8"	2.55 lbs.



Square Nuts

Trumbull Item No.	Size	Model Number	"A" Base	"B" Top	Weight
377-5951	1"	A12	1-1/8"	1"	2.60 lbs.
377-5947	7/8"	A3	1"	7/8"	2.70 lbs.

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

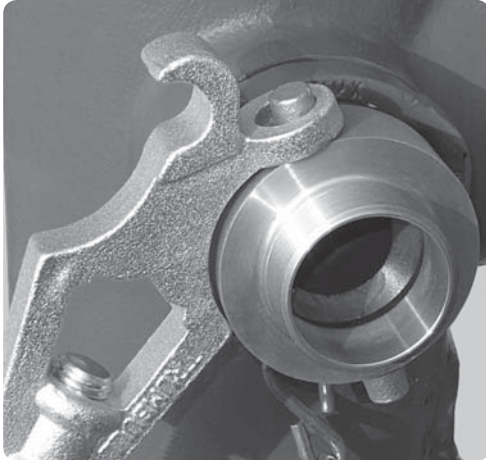
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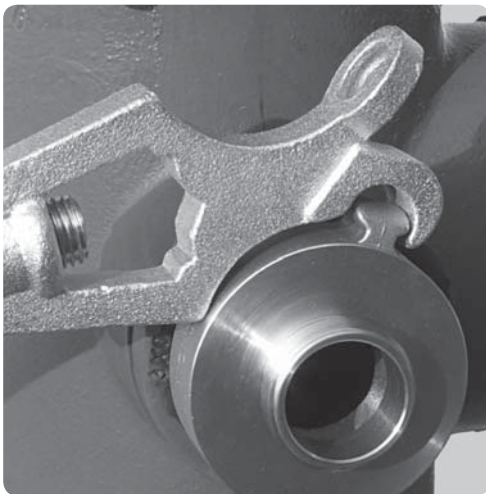
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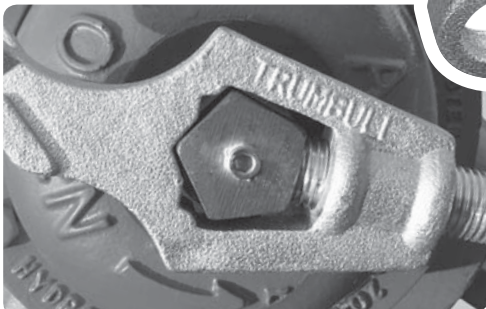
Adjustable Hydrant Wrench



Works on pin-type Hose Couplings
or Hydrant Adapters.



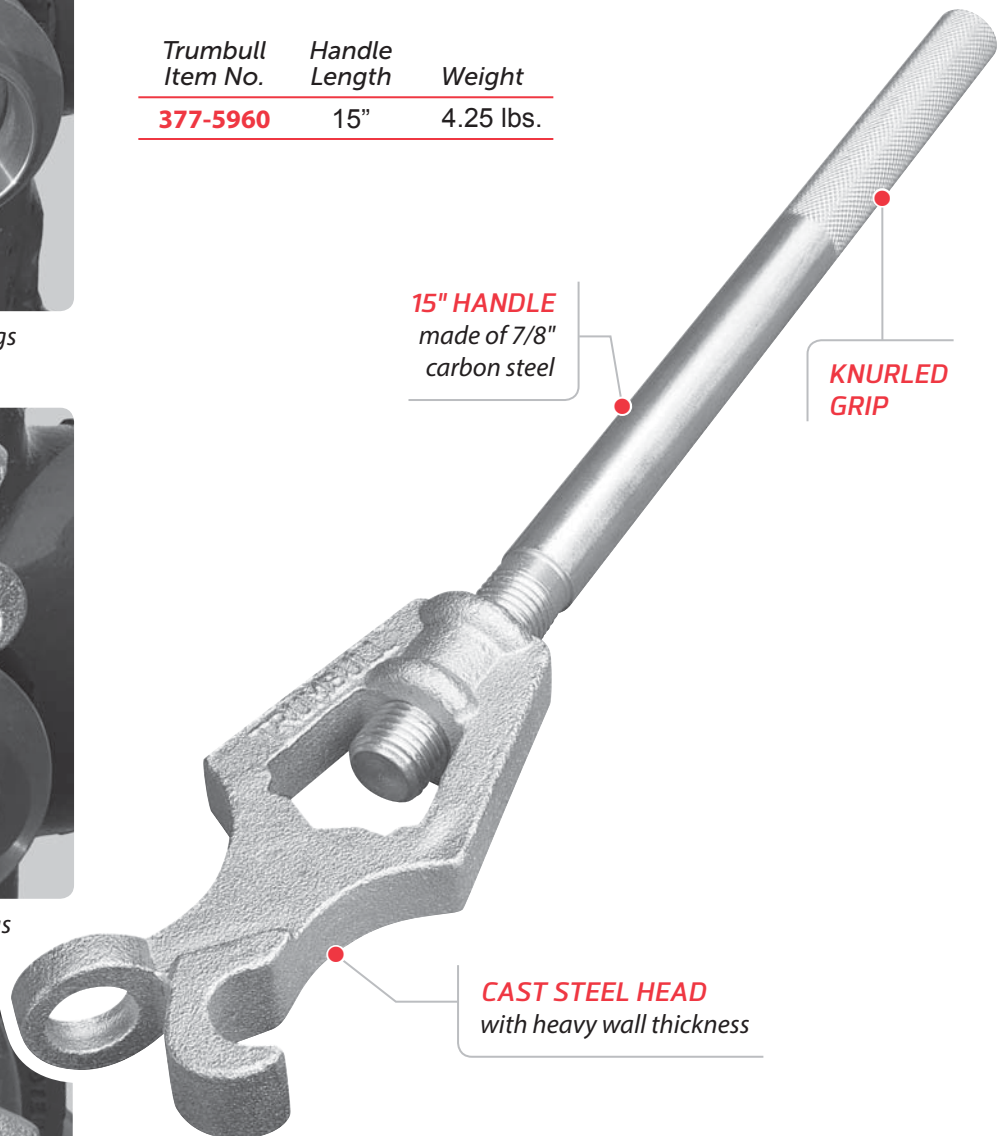
Works on lug-type Hose Couplings
or Hydrant Adapters.



Grips and retains pentagon or
square operating nuts.

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.

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



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Adjustable Storz Hydrant Wrench



Works on 4" and 5" Storz caps.

This TRUMBULL wrench works on 4" and 5" Storz caps, rocker lug and pin-type fittings and 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.

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



Wide bearing surface on wedge nut grips and retains operating nuts better than conventional threaded handles.

ADJUSTABLE BRASS WEDGE NUT
will not deform operating nut

KNURLED GRIP

#1 HOOK
grabs hydrant adapters



Works on hydrant adapters and hose couplings, both pin and lug type.

#2 HOOK
grabs 4" Storz caps

#3 HOOK
grabs 5" Storz caps

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Diameter Tapes

1/4" wide x 10' length, available in both inch and Metric models

Most competitive models of diameter tapes can only measure up to 20" or 24" pipe...
...Trumbull's tape will measure diameters **UP TO AND INCLUDING 36" DUCTILE IRON PIPE!**



Inquire how we
can put **YOUR LOGO**
on the front!

Pipe OD Chart				
Pipe Size	IPS	Duct. Iron	CI Min.	CI Max.
4"	4.50	4.80	4.80	5.00
6"	6.63	6.90	6.90	7.10
8"	8.63	9.05	9.05	9.30
10"	10.75	11.10	11.10	11.40
12"	12.75	13.20	13.20	13.50
14"	14.00	15.30	15.30	15.65
16"	16.00	17.40	17.40	17.80
18"	18.00	19.50	19.50	19.92
20"	20.00	21.60	21.60	22.06
24"	24.00	25.80	25.80	26.32
30"	30.00	32.00	31.74	32.74
36"	36.00	38.30	37.96	39.16

Pipe OD Chart on reverse

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.

- 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.
- Spring action returns blade to case.
- Gift boxed.

Compare...

Trumbull is the BEST CHOICE!



Don't buy a tape that may not be long
enough to do the job...



...Trumbull's 10 foot tapes can measure
the outside diameter of 36" ductile pipe
(38.30" O.D.)

Trumbull Item No.	Measurement Scales	Length	Weight
217-6653	Linear Inch x Diameter Inch	10 ft.	0.20 lbs.
217-6656	Linear Metric x Diameter Metric	3M	0.20 lbs.
217-6659	Diameter Inch x Diameter Metric	10 ft.	0.20 lbs.

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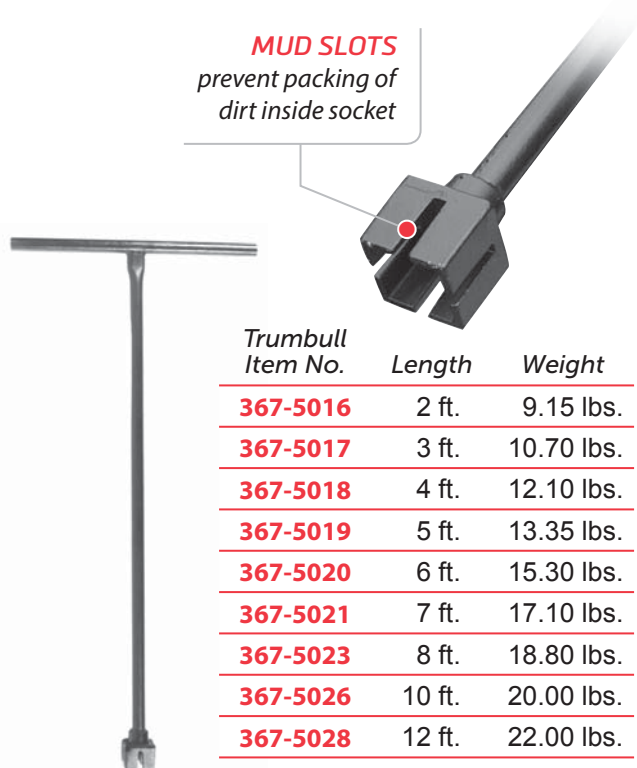
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Valve & Curb Keys & Shutoff Rods

T-Handle Main Valve Keys

Stocked in lengths 2' through 12'.
1" Schedule 40 steel pipe shafts.
Cast steel socket fits 2" square operating nut.

MUD SLOTS
prevent packing of
dirt inside socket



Trumbull Item No.	Length	Weight
367-5016	2 ft.	9.15 lbs.
367-5017	3 ft.	10.70 lbs.
367-5018	4 ft.	12.10 lbs.
367-5019	5 ft.	13.35 lbs.
367-5020	6 ft.	15.30 lbs.
367-5021	7 ft.	17.10 lbs.
367-5023	8 ft.	18.80 lbs.
367-5026	10 ft.	20.00 lbs.
367-5028	12 ft.	22.00 lbs.

Buffalo Type Curb Box Rods

Stocked in 30" and 36" lengths.
Made of 1/2" square carbon steel with ductile iron
end casting. Furnished with brass cotter pin.



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

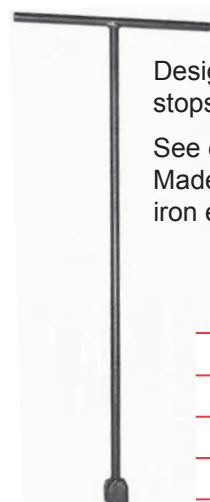
Erie/Minneapolis Type Curb Box Rods

Furnished with brass cotter pin.



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

#1302 Curb Stop Wrenches



Designed to shut off 3/4" through 2" curb
stops. Fits directly on t-head of curb stops.

See chart below for stock lengths.
Made of 5/8" round carbon steel with ductile
iron end casting.

Trumbull Item No.	Length	Weight
367-4293	3 ft.	4.00 lbs.
367-4294	4 ft.	6.00 lbs.
367-5025	6 ft.	8.00 lbs.
367-4296	8 ft.	10.00 lbs.

Gate Valve Speed Wrench

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

Allows use of both hands for extra
leverage. Revolving handle allows
quick opening and closing.



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

NOTE: For special lengths not shown above, please inquire.

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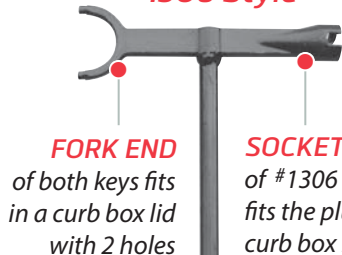
Curb Box Keys

#1306 & #1322 Curb Box Keys

For **ERIE & MINNEAPOLIS** Type Boxes

Made of 5/8" carbon steel.

#1306 Style



FORK END

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

SOCKET END

of #1306 key fits the plug in a curb box lid with a pentagon nut. (See close-up of #1305 socket shown below.)

#1322 Style



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



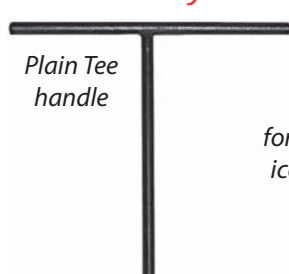
Length	Weight	#1306 Item No.	#1322 Item No.
2 ft.	5.00 lbs.	367-4277	spec/ord
3 ft.	7.00 lbs.	367-4278	367-5278
4 ft.	9.00 lbs.	367-4280	367-5280
5 ft.	11.00 lbs.	367-4276	spec/ord
6 ft.	13.00 lbs.	367-4275	spec/ord
7 ft.	15.00 lbs.	367-4274	spec/ord

#1305 & #1321 Combination Curb Box Keys

For **BUFFALO** Type Boxes

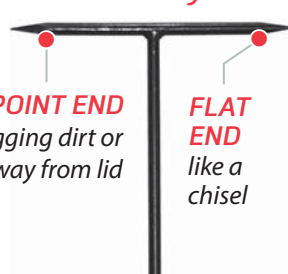
Made of 5/8" round carbon steel with cast steel combo casting.

#1305 Style



Plain Tee handle

#1321 Style



POINT END
for digging dirt or ice away from lid

FLAT END
like a chisel

Stocked in the following lengths:

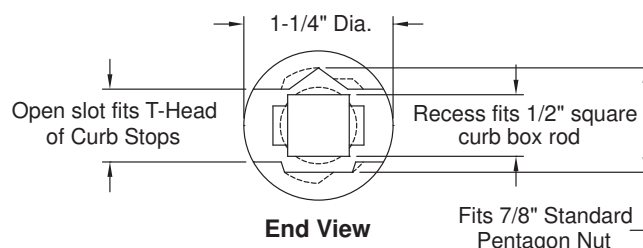
Length	Weight	#1305 Item No.	#1321 Item No.
1 ft.	3.00 lbs.	367-4295	367-5295
3 ft.	5.00 lbs.	367-4291	367-5291
4 ft.	6.00 lbs.	367-4292	367-5290
6 ft.	8.00 lbs.	367-4297	367-5297

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.



NOTE: For special lengths not shown above, please inquire.

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Fax: 330.392.0756 Youngstown, Ohio 44501

www.trumbull-mfg.com

Valve & Curb Key Kit

TRUMBULL'S VALVE KEY KIT & 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.

Trumbull Item No.	Product Description	Weight
367-9100	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

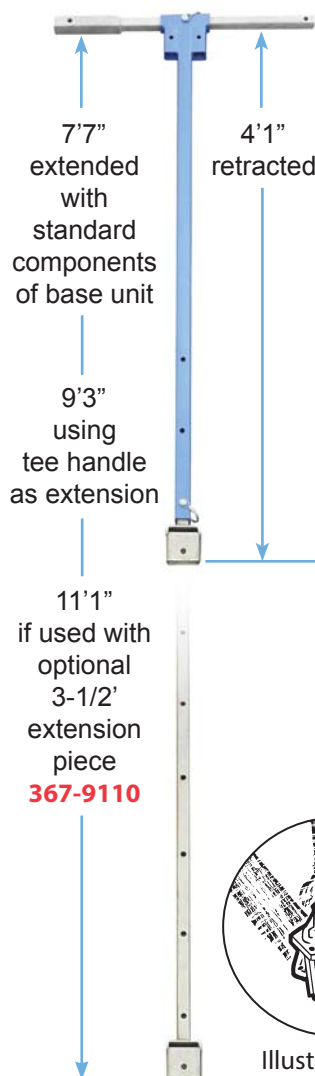


Illustration of
BASE UNIT

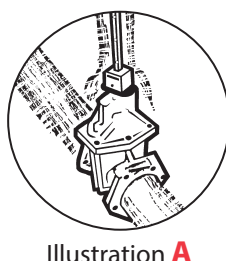
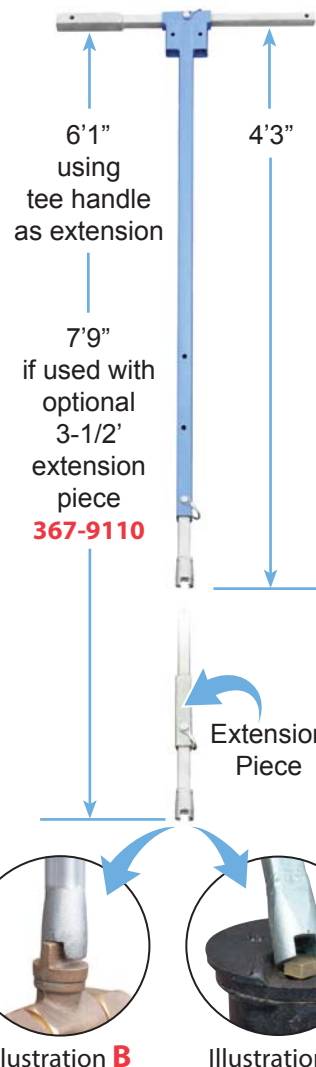
SOCKET
for 2"
AWWA Nut

Illustration of
3-1/2' Extension

Optional Accessories

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

Key for Curb/Meter Stops With Multi-Purpose Adapter



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Optional Accessories for Valve & Curb Key Kit

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)

Snap pin included

Erie/Minneapolis Adapter



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

Snap pin included

Cleanout Auger



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

Snap pin included

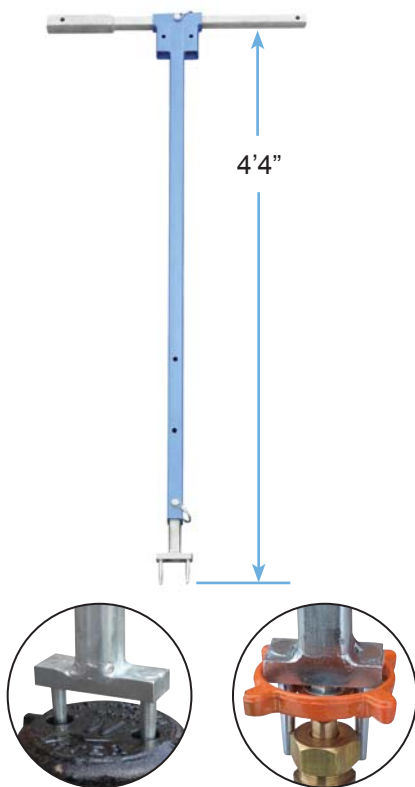
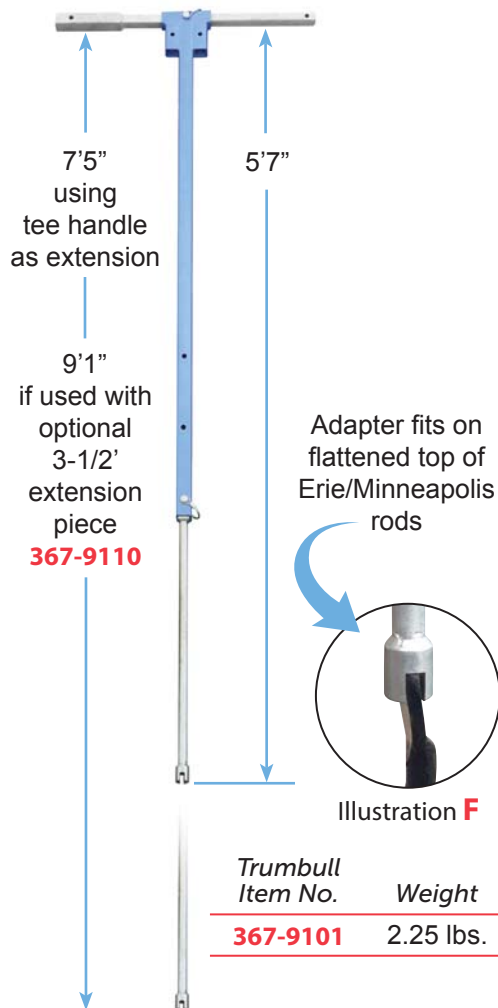


Illustration **D**

Illustration **E**

Illustration Above	Trumbull Item No.	Weight
D	367-9102	1.15 lbs.
E	367-9104	1.00 lbs.

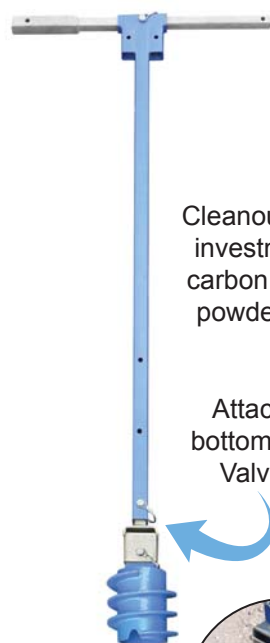


Adapter fits on flattened top of Erie/Minneapolis rods



Illustration **F**

Trumbull Item No.	Weight
367-9101	2.25 lbs.



Cleanout Auger is investment cast carbon steel with powder coating

Attaches to bottom of Main Valve Key



Illustration **G**

Trumbull Item No.	Weight
367-9103	6.95 lbs.

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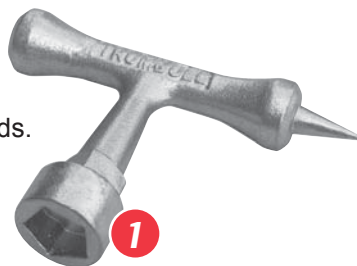
www.trumbull-mfg.com

Pentagon Hand Keys

Medium Carbon Steel Investment Casting - Plated Finish

Model HK-0

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



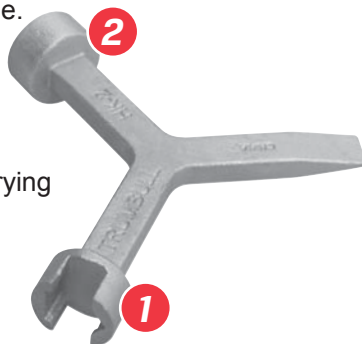
Model HK-1

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



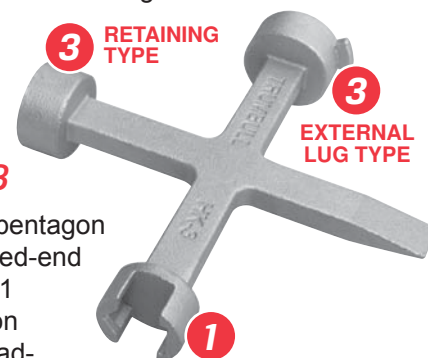
Model HK-2

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



Model HK-3

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

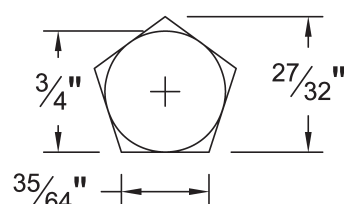


Trumbull Item No.	Product Description	Weight
367-4298	Model HK-0 Pentagon Key	0.85 lbs.
367-4331	Model HK-1 Pentagon Key	0.60 lbs.
367-4332	Model HK-2 Pentagon Key	0.90 lbs.
367-4333	Model HK-3 Pentagon Key	1.00 lbs.

See page A-9 and A-10 for Valve and Curb Keys.

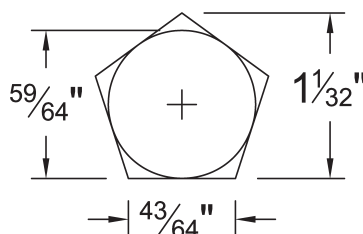
1

STANDARD Waterworks Pentagon Head



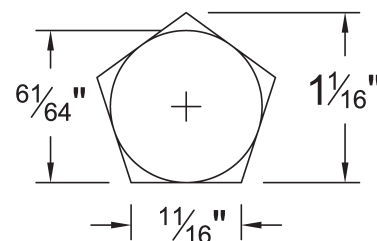
2

LARGE Waterworks Pentagon Head



3

MUELLER Meter Box Cover Pentagon Head



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Soil Probe Rods

Insulated & Non-Insulated Styles

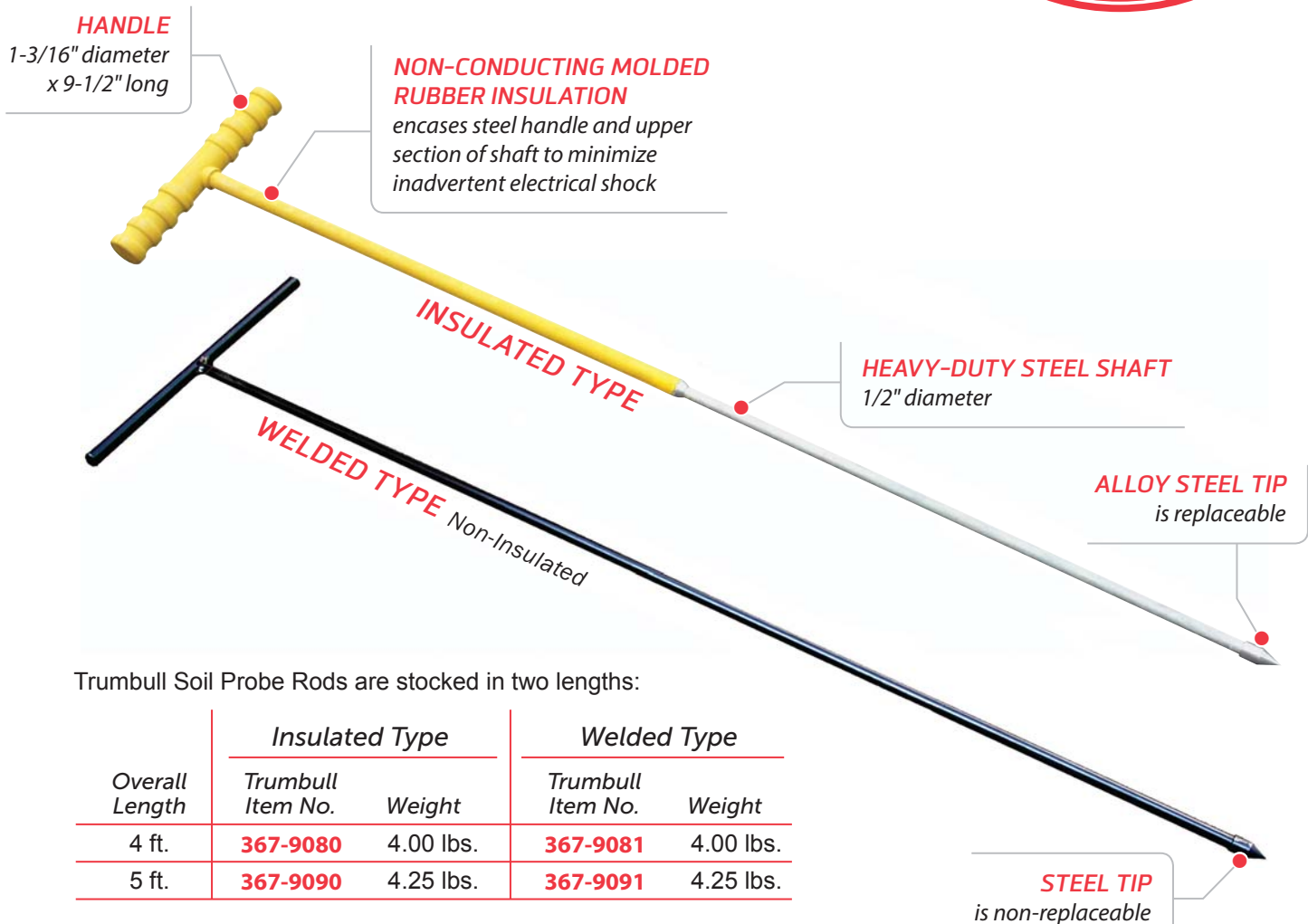
Probe Rods are used for locating buried lines. The insulated Probe Rod features non-conducting, molded rubber handle and shield on upper section of shaft.

Molded rubber coverings have been laboratory tested to assure protection against electrical shock from accidental contact with buried **SECONDARY** electrical lines.

ALWAYS

contact power company to locate underground electrical lines before digging!

The insulation **WILL NOT** provide protection against contact with **PRIMARY** voltages. Please consult your local utility for locations of underground primary lines.



Trumbull Soil Probe Rods are stocked in two lengths:

Overall Length	Insulated Type		Welded Type	
	Trumbull Item No.	Weight	Trumbull Item No.	Weight
4 ft.	367-9080	4.00 lbs.	367-9081	4.00 lbs.
5 ft.	367-9090	4.25 lbs.	367-9091	4.25 lbs.

Replaceable Alloy Steel Tip
for Insulated Type Probe Rods.

Trumbull Item No.	Weight
367-9095	0.05 lbs.

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The KnuckleSAVER™

3-in-1 Flaring Tools

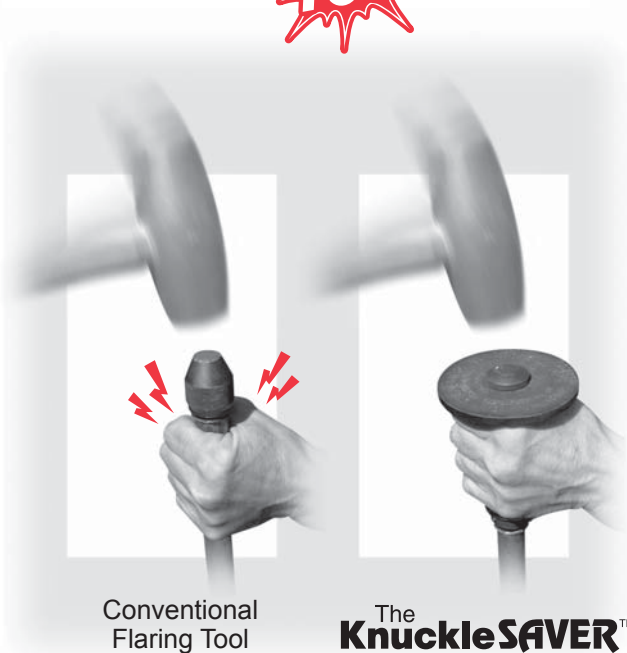
- 1 - **FLARES** Type K copper
- 2 - **RE-ROUNDS** kinked or bent copper
- 3 - **RELIEVES** pressure when used under pressure

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.



Which tool would **YOU** rather use?



3-in-1 Flaring Tools

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

Note **ALWAYS** use a brass hammer & safety glasses when using any striking tools!

Brass Hammer

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



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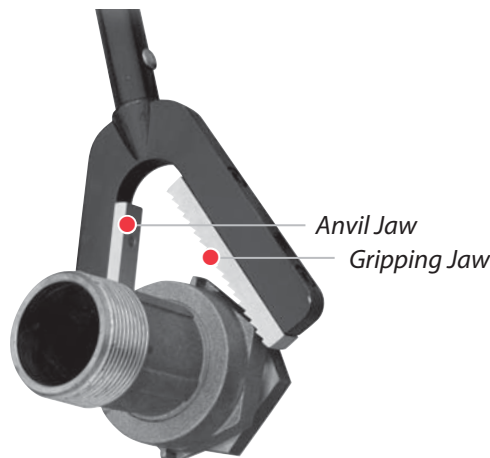
www.trumbull-mfg.com

Meter Wrench

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



How to use



Apply torque through **GRIPPING JAW**.
Slide wrench against smooth **ANVIL JAW**
to re-position for quick action.



Meter Wrench

Trumbull Item No.	Weight
368-0620	2.50 lbs.

Replacement Jaw Set

Includes set of jaws and screws

Trumbull Item No.	Weight
368-0625	0.35 lbs.

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Distance Measuring Wheel

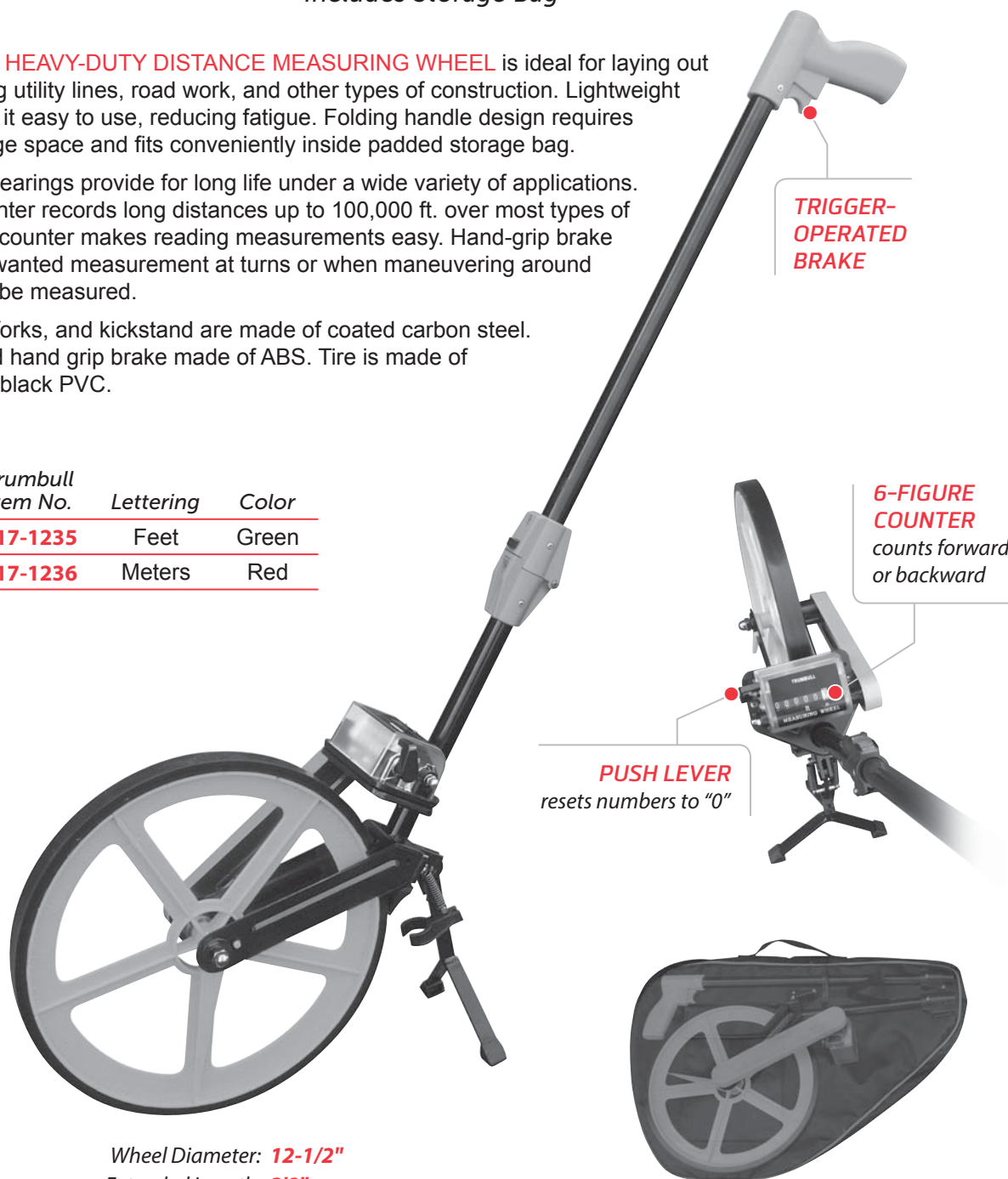
Includes Storage Bag

TRUMBULL'S HEAVY-DUTY DISTANCE MEASURING WHEEL is ideal for laying out and measuring utility lines, road work, and other types of construction. Lightweight design makes it easy to use, reducing fatigue. Folding handle design requires minimal storage space and fits conveniently inside padded storage bag.

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

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

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



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.**

FOLDING HANDLE DESIGN
fits neatly inside storage bag

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Shutoff Tool

For Polyethylene Water Tubing

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

The **TRUMBULL SHUTOFF TOOL** can be used on polyethylene water service tubing for making emergency shutoffs where curb stops or other valves are not readily accessible.

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

Composite Photo

shows tool in both closed and open position.



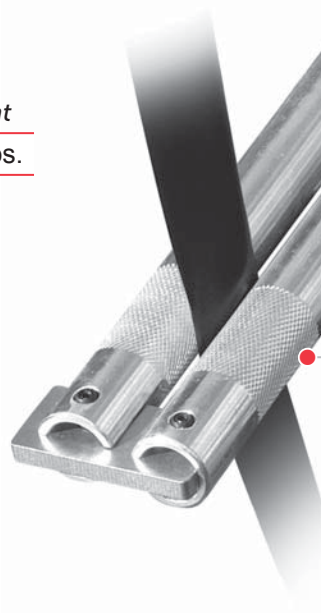
LATCH
keeps tool closed during shutoff



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

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

KNURLING
helps "grab" the polyethylene tubing during shutoff



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Valve & Curb Box Cleaners

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

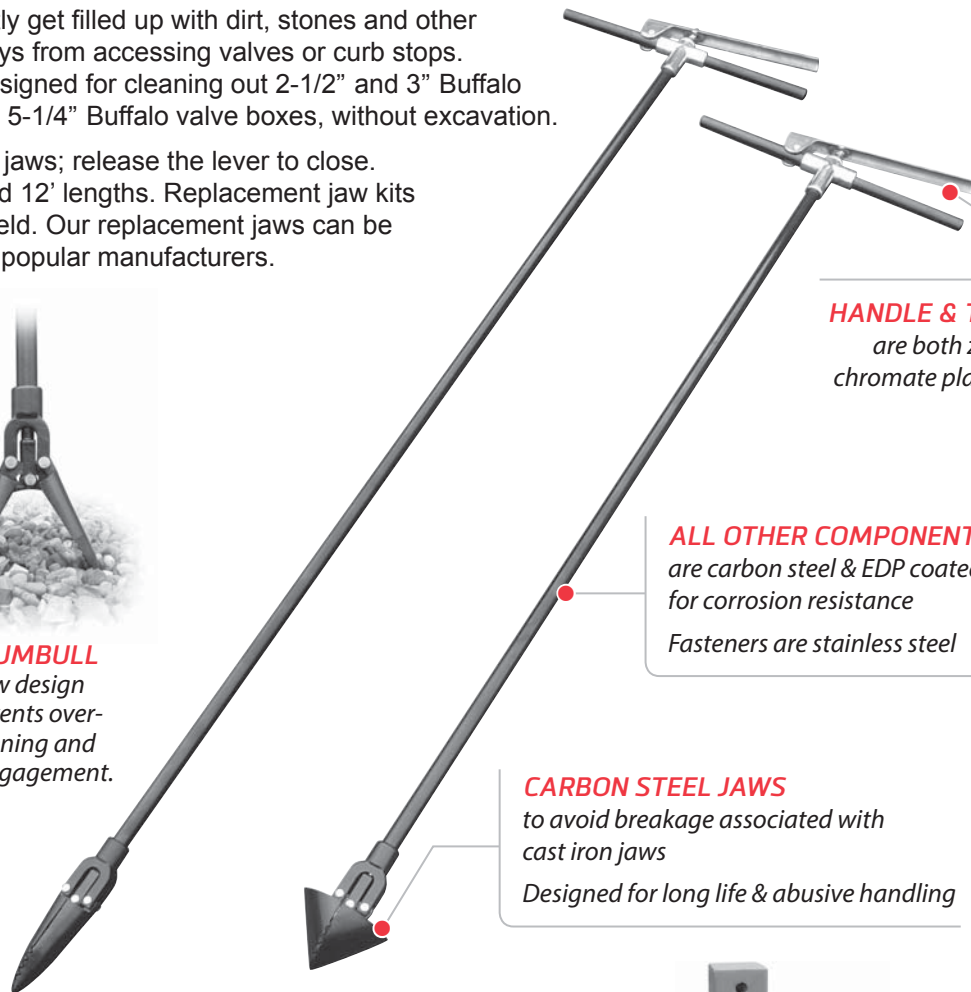
Squeeze the lever to open the jaws; release the lever to close. Available in 5', 6', 7', 8', 10' and 12' lengths. Replacement jaw kits can easily be installed in the field. Our replacement jaws can be interchanged on tools of other popular manufacturers.



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



TRUMBULL
jaw design prevents over-opening and disengagement.



HANDLE & TEE
are both zinc chromate plated

ALL OTHER COMPONENTS
are carbon steel & EDP coated for corrosion resistance
Fasteners are stainless steel

CARBON STEEL JAWS
to avoid breakage associated with cast iron jaws
Designed for long life & abusive handling

STANDARD JAWS
remove small objects,
dirt, stones, sand & mud

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



Also Available:
Trumbull Cleanout Augers
See page A-12.

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

Jaw Replacement Kits

Includes 2 jaws and 2 pins

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

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Valve Box Risers

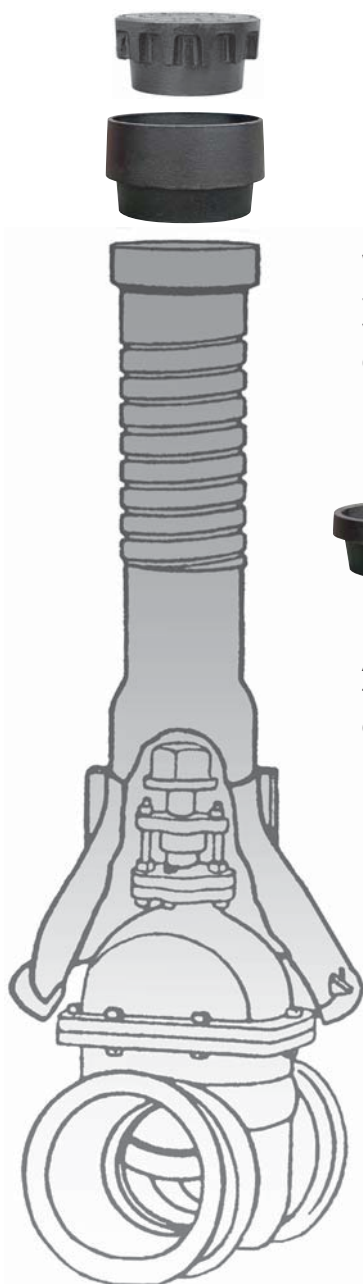
- Municipal Water Departments
- Private Water Companies
- Paving & Highway Contractors



When you have to raise existing valve boxes to the new grade of a road to be paved - **SAVE TIME AND MONEY** - Avoid needless breaking-up of old concrete to raise the valve box - **INSTEAD** use TRUMBULL VALVE BOX RISERS. Simply remove the existing valve box lid, insert the riser and place the existing lid into the riser.



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



VALVE BOX

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



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

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

Important Product Info

Due to recent 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.

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

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"Rite-Hite" Adapters

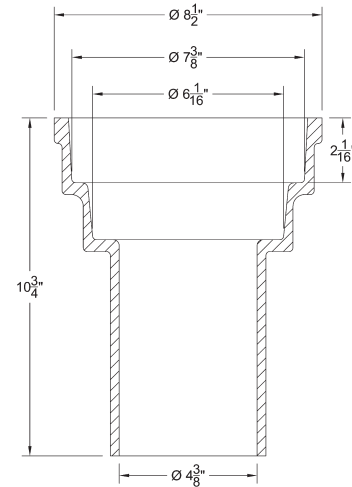
Slide-Type & Screw-Type

Provides a method for adjusting valve boxes to pavement level.



Slide-Type "Rite-Hite"

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



Usage Recommendations for SLIDE-TYPE Adapters

- 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.

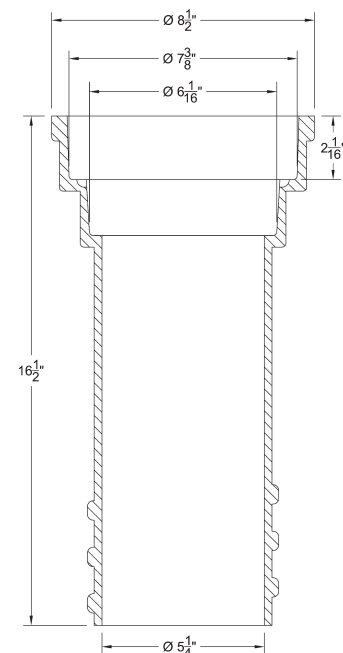


Screw-Type "Rite-Hite"

Paving Adapter No. T-69

This type adapter screws into the top section of the valve box.

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



Adjustable adapters accept standard valve box covers, as made by Bingham & Taylor, Central Foundry, Tyler, etc.

Please refer to the separate product literature sheets for Valve Box Risers (1", 1-1/2", 2", 3", 4" and 6"), and for Trumbull Valve Box Lids.

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Valve Box Lids

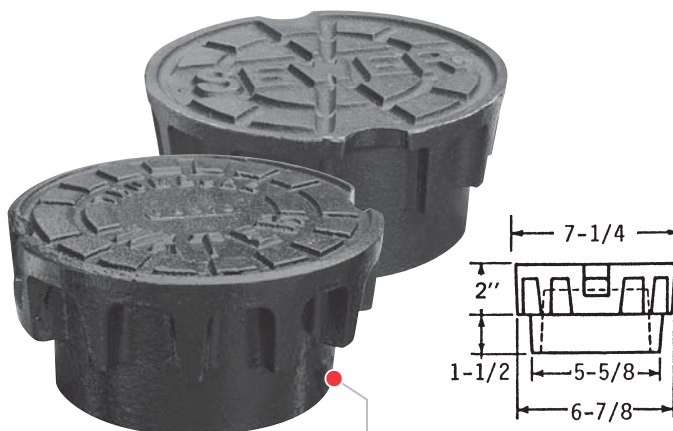
Standard & Locking Types

Standard Valve Box Lids

For 5-1/4" shaft Buffalo style valve boxes, TRUMBULL risers, "RITE-HITE" adapters, and Housing Adapters for Trumbull Valve Position Indicators.

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

Special lettering available! Call us for more details.



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

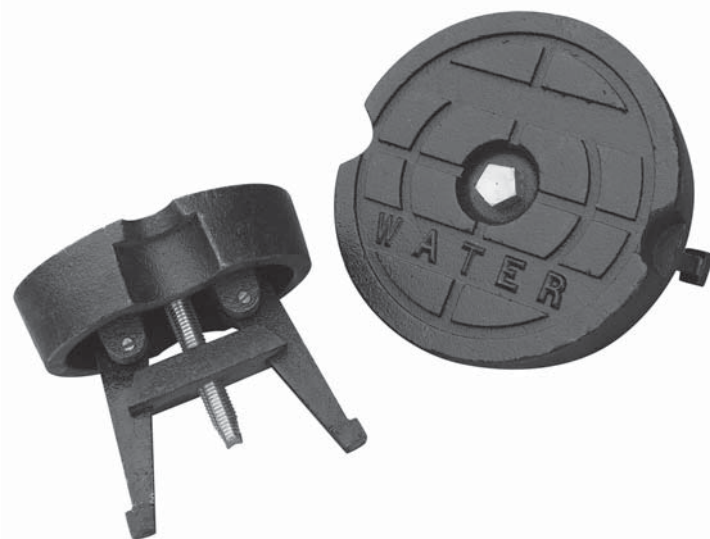
Locking Valve Box Lid

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.

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

Usage Recommendation

Inside dimensions of valve boxes will vary by manufacturer. If lid is not tight enough, flip the wedge for a tighter fit.



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

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Curb Box Repair Lids

Inside & Outside Types



Trumbull **CURB BOX REPAIR LIDS** solve all these problems on 2-1/2" and 3" Buffalo style curb boxes.

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

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

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

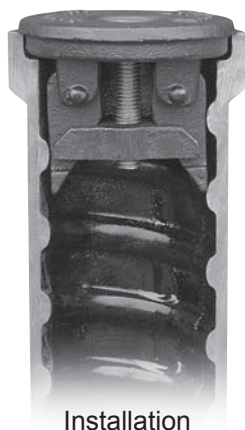
NEW Tamper-Resistant Screw Type Repair Lids

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 Lid

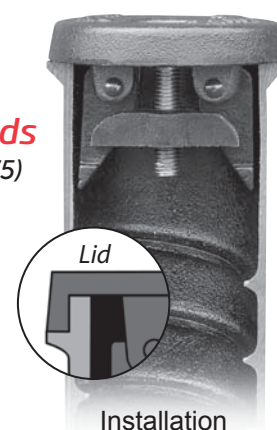
New Style (T-373)



Installation

Outside Repair Lids

Old Style (T-374 & T-375)



Installation

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

* Requires key 367-4403 to operate, shown below.

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

* Requires key 367-4403 to operate, shown on left.

Lock Key

for Trumbull tamper-resistant screws



Trumbull Item No.	Weight
367-4403	0.15 lbs.

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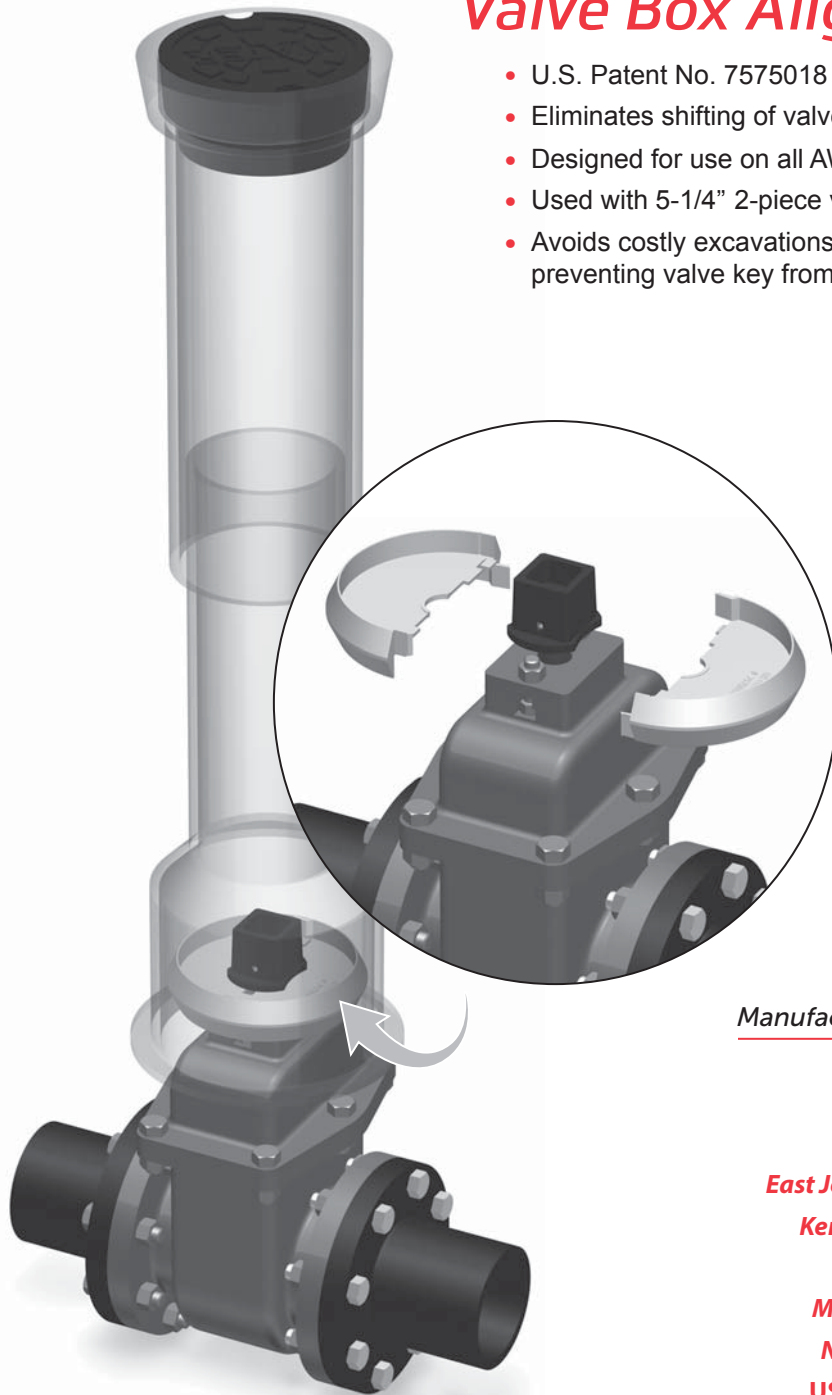
Phone: 330.799.3333 1040 N. Meridian Rd.
Toll Free: 800.677.1799 P.O. Box 1556
Fax: 330.392.0756 Youngstown, Ohio 44501

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Valve Box Alignment Device

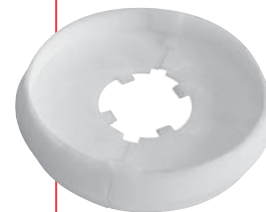
- U.S. Patent No. 7575018 and 8430116
- Eliminates shifting of valve box during backfill.
- Designed for use on all AWWA resilient wedge gate valves.
- Used with 5-1/4" 2-piece valve boxes.
- Avoids costly excavations when valve box shifts, preventing valve key from engaging the 2" square nut.



Ordering Instructions

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

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



Model #1



Model #2

Valve Manufacturer	Valve Size						
	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	2	1
NAPAC	2	2	2	2	2	2	2
US Pipe	2	2	2	2	2	2	2

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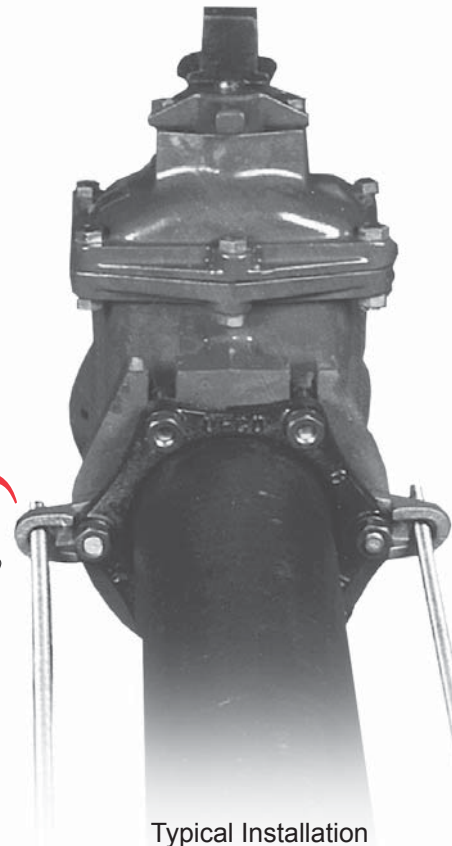
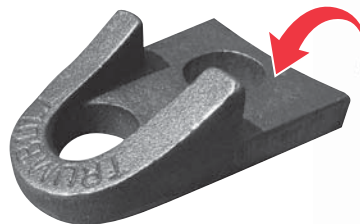
Tie-Lugs

TRUMBULL TIE-LUGS are made from ductile iron for use in restraining mechanical joint valves, fittings, pipe and hydrants with 3/4" threaded rod. Cast from high strength ductile iron with a tensile strength of 80,000 psi and a yield strength of 60,000 psi. Trumbull Tie-Lugs are intended for use between MJ bell and gland in sizes 4" through 16".

Usage Recommendation

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



Tie-Bolt

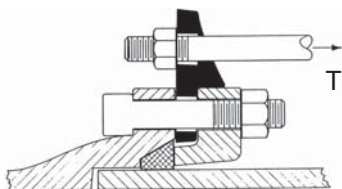
For 4" through 12" Mechanical Joints

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.

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



Product Information



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

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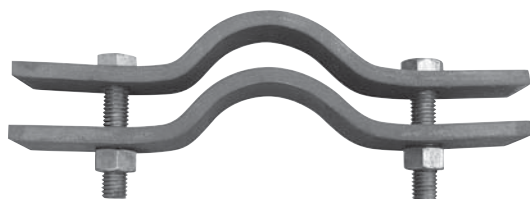
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Socket Clamps

Also known as "Retainer Clamps" or "Friction Clamps"

For use in preventing underground pipe joints from separating.

Designed for use on ductile iron 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.



SOCKET CLAMP
Shipped as illustrated

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

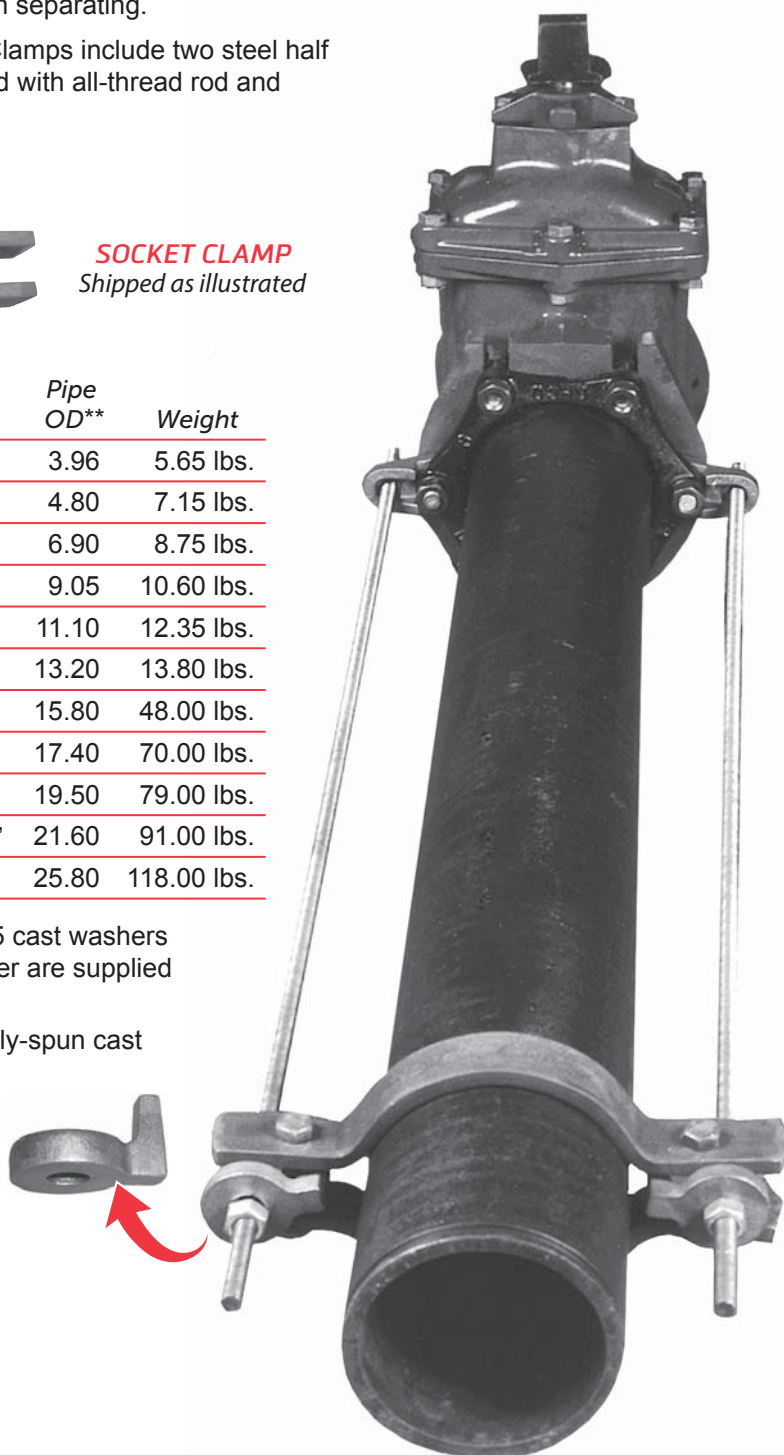
* Sizes 3" through 12" are supplied with #585 cast washers which are shown below. Sizes 14" and larger are supplied with two fabricated carbon steel washers.

** Socket Clamps are designed for centrifugally-spun cast & ductile iron pipe with OD's as shown.

#585 Washer

- For 3" through 12" Socket Clamps
- Usage for 3/4" rod
- Two are required for each Socket Clamp

Trumbull Item No.	Bore Size	Weight
364-9000	1"	0.80 lbs.



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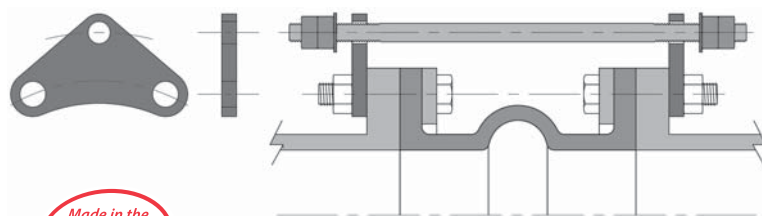
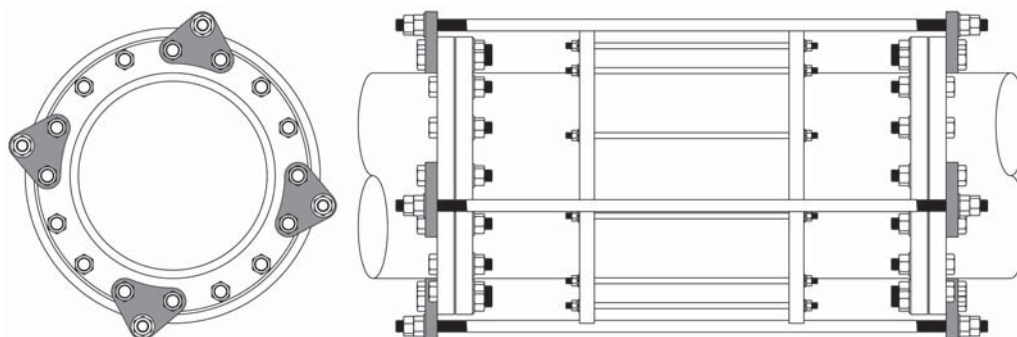
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Flange Lugs

Also known as "Thrust Plates", "Harness Lugs" or "Gusset Plates"

TRUMBULL FLANGE LUGS are used to prevent separation of plain-end piping components. 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. One example is with a flexible coupling as illustrated below.



Carbon Steel	Stainless Steel	Flange Size	Plate Thickness	Tie-Rod Size	Weight
364-4104	364-4124	4"	1/2"	5/8"	0.94 lbs.
364-4106	364-4126	6"	1/2"	5/8"	1.26 lbs.
364-4107	364-4127	8"	1/2"	5/8"	1.56 lbs.
364-4108	364-4128	10"	3/4"	3/4"	2.91 lbs.
364-4109	364-4129	12"	3/4"	3/4"	3.27 lbs.
364-4110	364-4130	14"	3/4"	3/4"	3.90 lbs.
364-4111	364-4131	16"	1"	1"	5.09 lbs.
364-4112	364-4132	18"	1"	1"	5.68 lbs.
364-4113	364-4133	20"	1"	1"	5.31 lbs.
364-4114	364-4134	24"	1-1/8"	1-1/8"	7.44 lbs.
364-4115	spec/ord	30"	1-1/8"	1-1/8"	10.90 lbs.
364-4116	spec/ord	36"	1-1/4"	1-1/4"	12.10 lbs.
364-4117	spec/ord	42"	1-1/2"	1-1/4"	14.50 lbs.
364-4118	spec/ord	48"	1-1/2"	1-1/4"	16.50 lbs.

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. At least two sets are required per joint. Longer flange bolts are required at the flange lug to accept the plate thickness.

Note The total number of flange lugs required should be determined by the project Engineer, or the expansion joint manufacturer.

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

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.	
4"	4.80"	9"	7.5"	8	3/4"	5/8"	1/2"	3/4"	5/8"	0.94
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"	2.91
12"	13.20"	19"	17"	12	1"	7/8"	3/4"	7/8"	3/4"	3.27
14"	15.30"	21"	18.75"	12	1-1/8"	1"	3/4"	7/8"	3/4"	3.90
16"	17.40"	23.5"	21.25"	16	1-1/8"	1"	1"	1-1/8"	1"	5.09
18"	19.50"	25"	22.75"	16	1-1/4"	1-1/8"	1"	1-1/8"	1"	5.68
20"	21.60"	27.5"	25"	20	1-1/4"	1-1/8"	1"	1-1/8"	1"	5.31
24"	25.80"	32"	29.5"	20	1-3/8"	1-1/4"	1-1/8"	1-1/4"	1-1/8"	7.44
30"	32.00"	38.75"	36"	28	1-3/8"	1-1/4"	1-1/4"	1-3/8"	1-1/4"	10.90
36"	38.30"	46"	42.75"	32	1-5/8"	1-1/2"	1-1/4"	1-3/8"	1-1/4"	12.10
42"	44.50"	53"	49.5"	36	1-5/8"	1-1/2"	1-1/4"	1-3/8"	1-1/4"	14.50
48"	50.80"	59.5"	56"	44	1-5/8"	1-1/2"	1-1/2"	1-5/8"	1-1/2"	16.50

ANSI Class 125 B16.1 Drilling Template

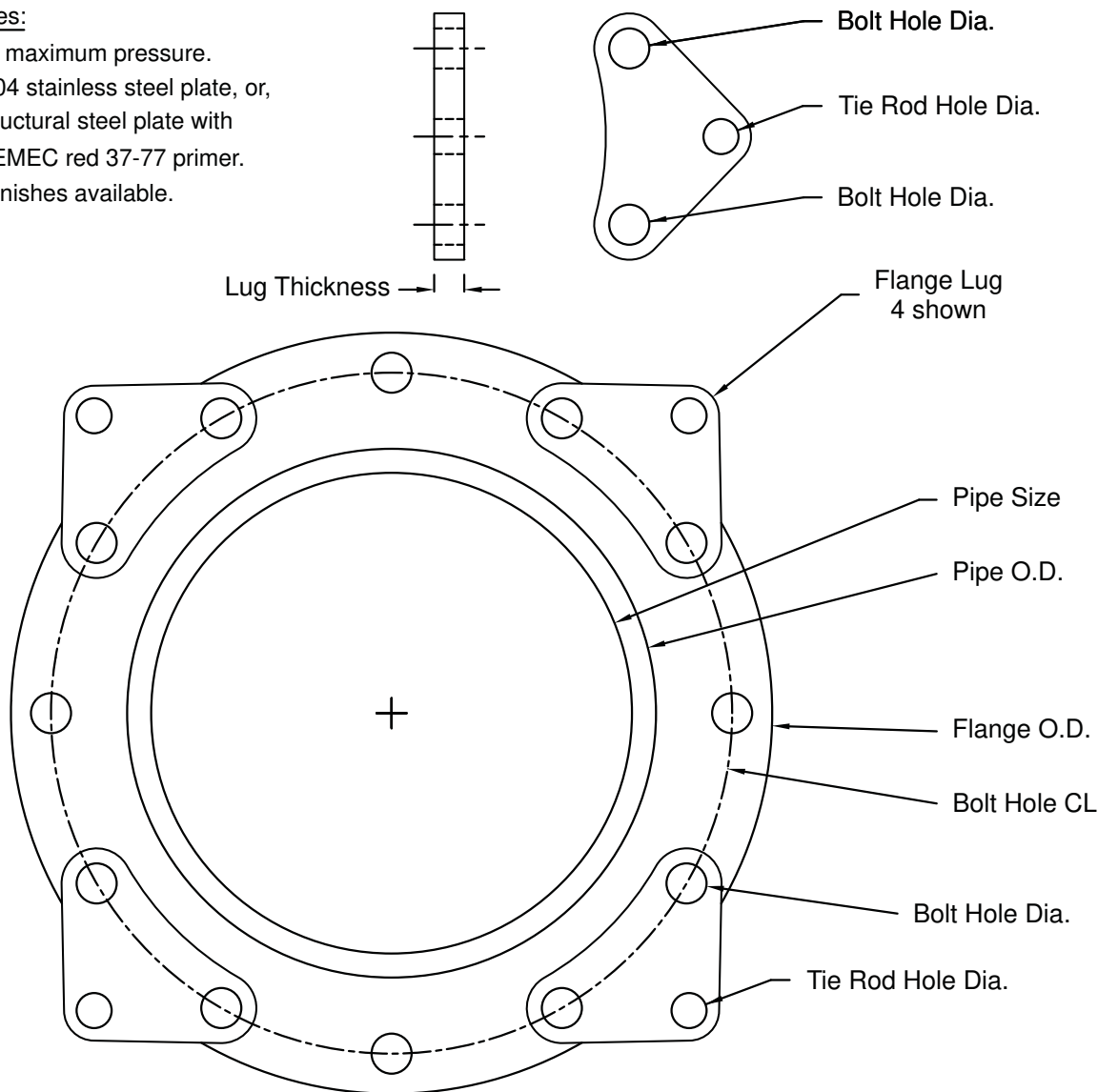
Notes:

250 psi maximum pressure.

Type 304 stainless steel plate, or,
A36 structural steel plate with

TNEMEC red 37-77 primer.

Other finishes available.



Drawn: Drawing Revision:

Date Rev. Date
1/14/11 C 4/29/2015

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Drawn to Scale

FLANGE LUGS

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Polyethylene Encasement Tubing

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

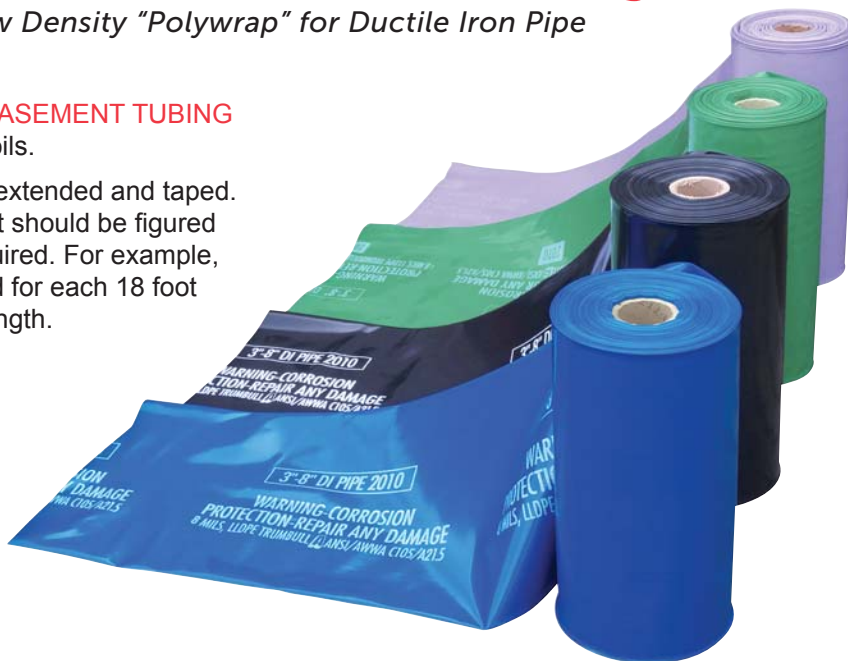
TRUMBULL POLYETHYLENE ENCASEMENT TUBING

protects metallic pipe in corrosive soils.

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



Made per
ANSI/AWWA C105/A21.5-10



Black Polywrap

Pipe Size	Layflat Width	Weight lbs./ft.	Continuous		Perforated at 20 ft.		Perforated at 22 ft.		Tape Rolls Needed Per 1,000'
			Trumbull Item No.	Roll Length	Trumbull Item No.	Roll Length	Trumbull Item No.	Roll Length	
3"-6"	16"	0.106	388-9989	300 ft.	388-9942	300 ft.	388-9976	308 ft.	2
3"-8"	20"	0.132			388-9943	300 ft.	388-9961	308 ft.	3
10"	24"	0.159	388-9993	300 ft.	388-9945	300 ft.	388-9951	308 ft.	4
10"-12"	27"	0.179			388-9952	300 ft.	388-9962	308 ft.	4
14"-16"	34"	0.225	388-9996	300 ft.	388-9955	300 ft.	388-9966	308 ft.	6
16"-18"	37"	0.237	special order*		special order*		388-9967	308 ft.	7
18"-20"	41"	0.271	388-9998	300 ft.	388-9957	300 ft.	388-9969	308 ft.	7
24"	54"	0.358	388-9999	150 ft.	388-9958	160 ft.	388-9970	154 ft.	8
30"	67"	0.444	388-9985	150 ft.	special order*		388-9972	154 ft.	10
36"-42"	81"	0.536	388-9986	150 ft.	special order*		388-9974	154 ft.	15
48"	95"	0.629	388-9980	150 ft.	special order*		388-9975	154 ft.	17
54"-60"	108"	0.715	388-9982	150 ft.	special order*		388-9977	154 ft.	20
64"	121"	0.801	388-9984	150 ft.	special order*		special order*		21

* Indicates other sizes, types and colors that are available as "special order"; 4000# minimum per color, or size. See Price List for current sizes, colors & configurations stocked. 4 mil cross-laminated Polywrap also available.

Polywrap continues on the following page . . .

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Polyethylene Encasement Tubing

Continued from the previous page . . .

Colored Polywrap

Stocked "Continuous" as shown below:

Pipe Size	Layflat Width	Weight lbs./ft.	Blue (Water)		Green (Sewer)		Lavender** (Reclaimed Water)		Tape Rolls Needed Per 1,000'
			Trumbull Item No.	Roll Length	Trumbull Item No.	Roll Length	Trumbull Item No.	Roll Length	
3"-8"	20"	0.132	388-8705	300 ft.	388-8755	300 ft.	388-8805	300 ft.	3
10"-12"	27"	0.179	388-8710	300 ft.	388-8760	300 ft.	388-8810	300 ft.	4
14"-16"	34"	0.225	388-8715	300 ft.	388-8765	300 ft.	388-8815	300 ft.	6
18"-20"	41"	0.271	388-8717	300 ft.	special order*		388-8817	300 ft.	7
24"	54"	0.358	388-8720	150 ft.	388-8770	150 ft.	388-8820	150 ft.	8
30"	67"	0.444	388-8780	150 ft.	388-8772	150 ft.	388-8825	150 ft.	10
36"-42"	81"	0.518	388-8723	150 ft.	388-8474***	154 ft.	388-8828	150 ft.	13

* Indicates other sizes, types and colors that are available as "special order"; 4000# minimum per color, or size. See Price List for current sizes, colors & configurations stocked. 4 mil cross-laminated Polywrap also available.

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

*** Item 388-8474 is NOT solid, but is perforated every 22 ft.

Clear Polywrap

12 Mil weight

Pipe Size	Layflat Width	Perf. @	Clear	
			Trumbull Item No.	Roll Length
8"	20"	20 ft.	388-8605	200 ft.
12"	30"	20 ft.	388-8610	200 ft.

Sanitary Sewer Polywrap

8 Mil, for 4" cast iron soil pipe

Pipe Size	Layflat Width	Perf. @	Black	
			Trumbull Item No.	Roll Length
4"	12"	12 ft.	364-9941	408 ft.



Trumbull's Polywrap is manufactured and inspected for compliance with AWWA C105 8 mil minimum thickness.

Don't forget the tape!

Polywrap Tape

Multipurpose PVC Tape. IAPMO/UPC certified for AWWA & plumbing applications.

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



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Zinc Anode Caps

Sacrificial Zinc Anodes

TRUMBULL ANODE CAPS are designed for fighting corrosion of underground bolts and nuts, and iron pipe and fittings.

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

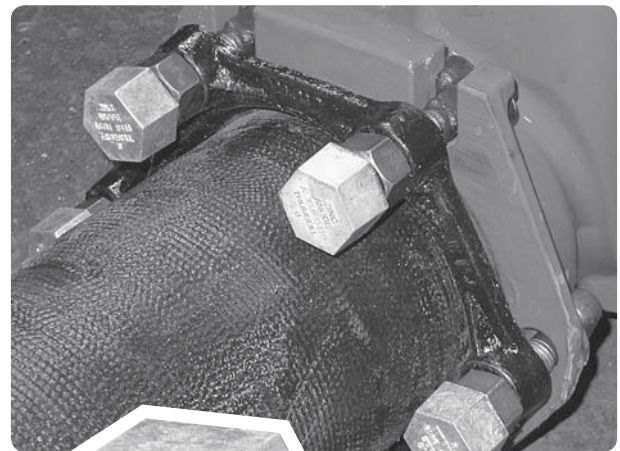
How Zinc Caps Work

Corrosion is an electro-chemical process in which dissimilar metal parts form a galvanic cell when they are in contact with moisture. Using the common battery as an example, moisture becomes the electrolyte while the different metals in the system (such as bolts, nuts, fittings etc.) become the positive and negative ends of the battery.

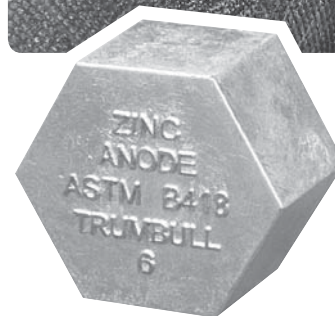
The "more negative" component loses material through corrosion while protecting the "positive" component, which becomes shielded. Zinc being much more negative than most other materials, the protected component is essentially immune to corrosion as long as there is Zinc remaining to consume.

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

Trumbull Zinc Anode Caps are made from high grade Zinc that conforms to the chemical requirements of both ASTM B418-88, "Galvanic Zinc Anodes", and, U.S. Navy Specification Mil-18001 H.



Typical Installation



6 oz.



2.5 oz.

2.5 oz. Small Zinc Anode Caps

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

Please inquire about Anode Caps with different weights or shapes.

6 oz. Large Zinc Anode Caps

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

See reverse side for drawing.

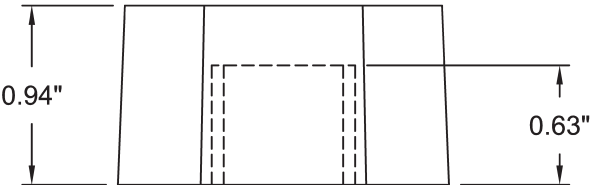
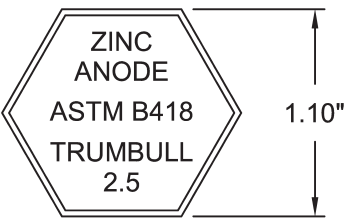
Material: High Grade Zinc
Conforms to chemical requirements of
ASTM B418-88, "Galvanic Zinc Anodes",
and, U.S. Navy Specification, Mil-18001 H

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

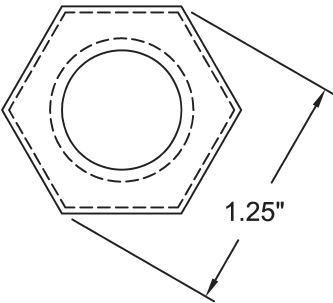
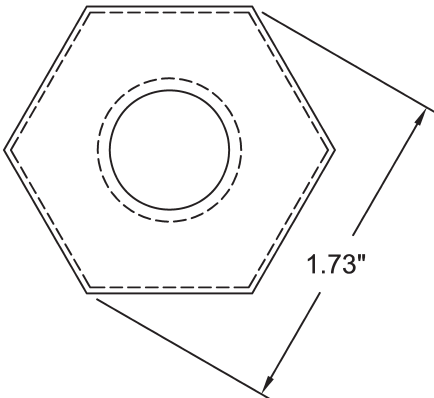
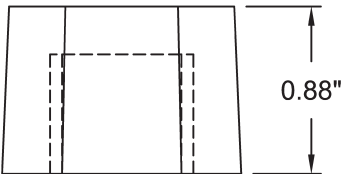
Large Anode Cap
6 ounces



Small Anode Cap
2-1/2 ounces



2° Taper, typical



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

Drawn:	Drawing Revision:	
Date	Rev.	Date
6/28/94	M	1/17/11

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Youngstown, Ohio 44501

Drawn to Scale

ZINC ANODE CAPS

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Toll Free: 800.677.1799 | P.O. Box 1556
Fax: 330.392.0756 | Youngstown, Ohio 44501

www.trumbull-mfg.com

Detectable & Non-Detectable Warning Tapes

For Locating Non-Metallic Pipes Buried Underground



Tape consists of an aluminum core encased in plastic. Stocked in 1,000 foot rolls in standard industry colors.

For installations 30" or shallower, 2" wide tape should be used. For deeper installations, 3" tape should be used. Use electronic pipe/cable locators for best results (as opposed to valve box or metal locators).

Detectable Warning Tapes

Buried Line Type	Width	Color	Trumbull Item No.	Roll Length	Weight Per Roll
Water Line	2"	Blue	364-4950	1,000 ft.	4.00 lbs.
Water Line	3"	Blue	364-4955	1,000 ft.	5.80 lbs.
Water Line	6"	Blue	364-4966	1,000 ft.	11.80 lbs.
Sewer Line	2"	Green	364-4951	1,000 ft.	4.00 lbs.
Sewer Line	3"	Green	364-4956	1,000 ft.	5.80 lbs.
Sewer Line	6"	Green	364-4967	1,000 ft.	11.80 lbs.
Storm Sewer	6"	Green	364-4965	1,000 ft.	11.80 lbs.
Reclaimed Water	3"	Lavender	364-4958	1,000 ft.	5.80 lbs.
Reclaimed Water	6"	Lavender	364-4968	1,000 ft.	11.80 lbs.
Electrical	3"	Red	364-4970	1,000 ft.	5.80 lbs.

Non-Detectable Warning Tapes

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

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T-Head Bolts & Nuts

Stainless Steel T-Head Bolts

Type 304 or Type 316

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

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

TYPE 316 BOLTS
include a red Nut

TYPE 304 BOLTS
include a green Nut



Cor-Blue Bolts

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

Size	Trumbull Item No.
5/8" x 3"	364-3343
3/4" x 3-1/2"	364-3354
3/4" x 4"	364-3355

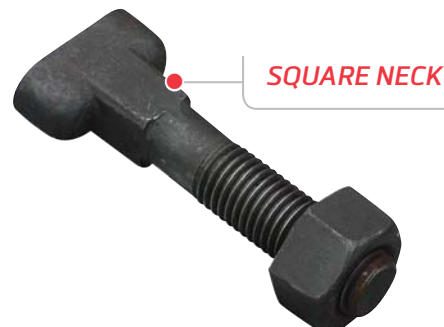


Anti-Rotation Bolts (Corten)

Also known as "Lugged T-Bolts"

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

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



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Polymer Meter Box Lids

COUNTERBORE

allows recessed installation of antenna to eliminate trip hazard or damage

RETAINER BRACKET

for installation of antenna under lid

STAINLESS SCREW

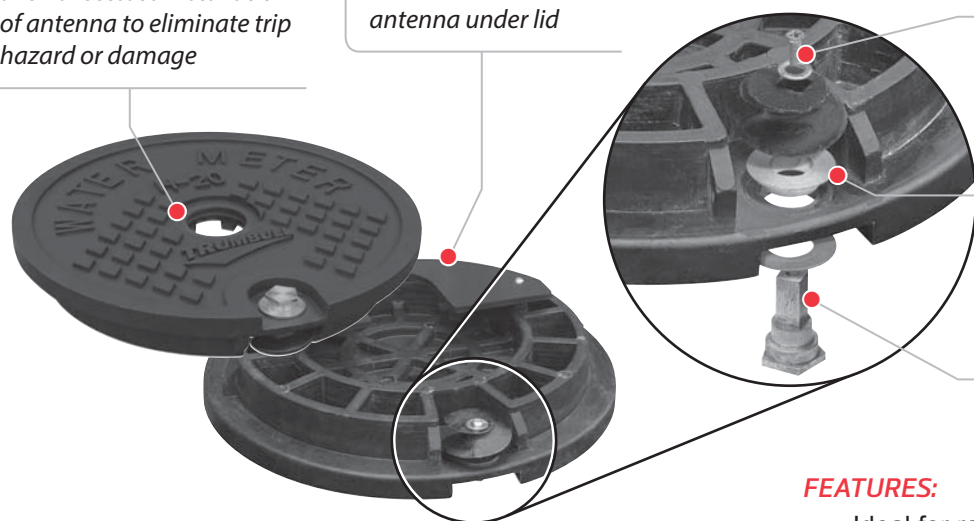
retains worm gear assembly and allows for easy field replacement

BRASS SLEEVE

prevents wear and elongation of hole for pentagon bolt

SQUARE SHANK

and square opening in worm gear reduce localized stress on pentagon bolt

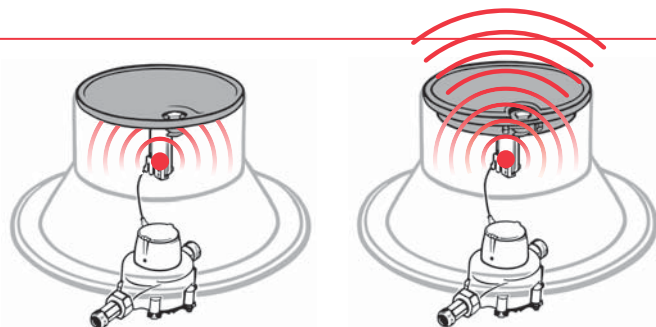


FEATURES:

- Ideal for radio read meters
- Worm gear with bronze pentagon bolt
- UV Resistant
- Available with optional magnet for use with valve and curb box locators
- Lids can be modified for various ERT's (contact a Trumbull Sales Rep for details)

ALSO AVAILABLE: (please inquire for more info)

- Other sizes and shapes
- Custom lettering
- Alternate locking mechanisms
- Polymer worm gears
- Snap-in adapter for Itron 100W
- Large pentagon bolt



CAST IRON LID

blocks radio signals

TRUMBULL POLYMER LID

allows radio signals to be read in AMR and AMI systems

Trumbull Item No.	Clear Opening	Outside Diameter	Thickness	Fits Frame Models	Weight	Load Rating
367-5518	11-1/2"	12-1/4"	0.70"	Ford A & C Covers	7.65 lbs.	
367-5519	11-1/2"	12-1/4"	0.70"	Ford A & C Covers, w/1-3/4" hole	7.60 lbs.	
367-5669	11-1/2"	12-5/8"	1"	Baltimore, Bingham & Taylor, & Vestal	10.74 lbs.	
367-5680**	15"	16-3/16"	1"	Ford C, AY McD., Bingham & Taylor, Balt.	14.20 lbs.	

* Load tested per AASHTO M-306, H-20. Test report available upon request. ** Overlapping style lid

Trumbull Item No.	Clear Opening	Outside Diameter	Thickness	Fits Frame Models	Weight	Load Rating
367-5764	11-1/2"	12-1/4"	0.70"	Ford A & C Covers	3.36 lbs.	20,000 lbs.
367-5767	11-1/2"	12-5/8"	9/16"	Baltimore, Bingham & Taylor, & Vestal	3.36 lbs.	20,000 lbs.

TRUMBULL

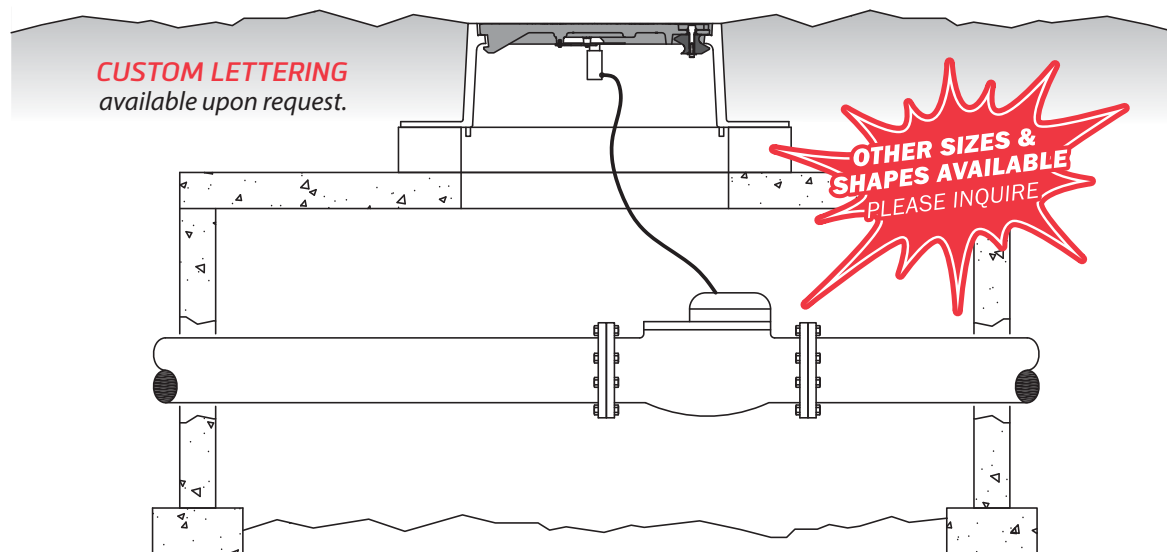
TRUMBULL INDUSTRIES, INC.

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Toll Free: 800.677.1799 P.O. Box 1556
Fax: 330.392.0756 Youngstown, Ohio 44501

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Polymer Manhole Lids for Large Meter Settings

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



Lids with 40,000 lbs. Load Rating*

Trumbull Item No.	Clear Opening	Outside Diameter	Thickness	Fits Frame Models	Weight
367-5615**	18"	18-7/8"	0.74"	18" AY McDonald coil setter	24.00 lbs.
367-5688	18"	19-3/4"	2-3/16"	Baltimore, double paddle lock design	33.00 lbs.
367-5610	20"	21-5/16"	0.766"	Monitor cover & pit ring, Ford & AY McD	26.90 lbs.
spec/ord	21"	22-3/4"	1-11/16"	EJ 1020, Neenah 1580	45.70 lbs.
spec/ord	21-1/2"	23-3/4"	1"	EJ 1450, Neenah 1771/1785	44.80 lbs.
367-5685	22-3/4"	25-1/4"	2"	EJ 1700	63.60 lbs.
367-5698	24"	25-3/4"	2-1/2"	Baltimore, double paddle lock design	64.00 lbs.
367-5527	24-3/16"	25-1/2"	1-1/4"	EJ 1040, 1045, 1048 & 1705 (CWD)	54.00 lbs.
367-5710	30"	31-13/16"	2-1/2"	Baltimore, double paddle lock design	108.70 lbs.

* Load tested per AASHTO M-306, H-20. Test report available upon request.

** Patent Pending

Other Lid Styles

Trumbull Item No.	Dimensions	Thickness	Fits Frame Models	Weight	Load Rating
367-5650	Oval, 13" x 17-9/32"	0.79"	MB-10 Oval	14.80 lbs.	25,000 lbs.

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Polymer Manhole Lids for Sanitary Sewers



RATED FOR TRAFFIC LOADS
Tested in excess of 40,000 lbs.



LIGHT WEIGHT
Reduces finger and back injuries



NO SCRAP VALUE
Reduces theft problem common to CI lids

TRUMBULL POLYMER MANHOLE LIDS are today's smart choice for highway use in place of cast iron lids. They have been successfully tested to a 40,000 lb. proof load per AASHTO M-306, H-20. Test report from independent lab is available upon request.

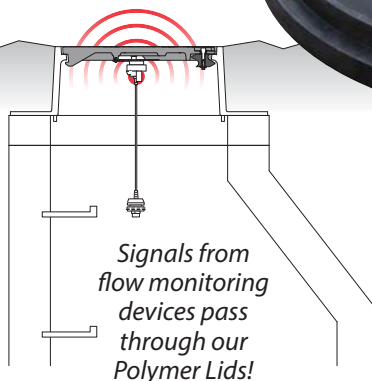
Polymer lids have no scrap value, deterring theft common to iron lids. Polymer lids are much lighter than cast iron lids, yet are rated for traffic loads. Use polymer lids to avoid back and finger injuries associated with cast iron lids. Lids also have a slip-resistant surface.

LOAD TESTED PER AASHTO M-306, H-20



CUSTOM MOUNTING
available for flow monitoring devices

WORM GEAR
secures lid to frame and is operated with a bronze pentagon bolt; other locking options available upon request



Signals from flow monitoring devices pass through our Polymer Lids!

Trumbull Item No.	Clear Opening	O.D.	Thickness	Fits Frame Models	Weight Comparison	
					Trumbull Polymer	Cast Iron
367-5695	19-13/16"	21-3/8"	15/16"	Capital Foundry #14000-10	28.60 lbs.	101.00 lbs.
367-5619	21"	22-3/4"	1-11/16"	EJ 1020, Neenah 1580	45.60 lbs.	114.00 lbs.
367-5622	21-1/2"	23-3/4"	1"	EJ 1450, Neenah 1771/1785	44.80 lbs.	137.00 lbs.
367-5686	22-3/4"	25-1/4"	2"	EJ 1700	63.50 lbs.	210.00 lbs.
367-5625	24-3/16"	25-1/2"	1-1/4"	EJ 1040, 1045, 1048 & 1705	53.90 lbs.	180.00 lbs.

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Meter Couplings

With Rubber Gasket

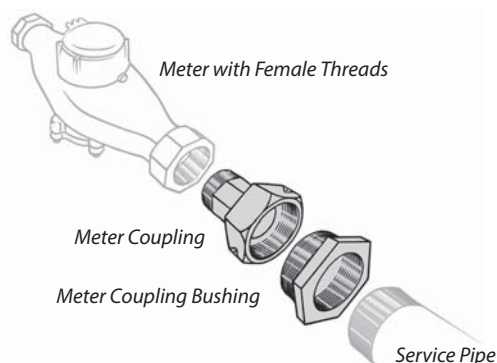
"Low Lead" Meter Couplings

- Barrel is in contact with water and is cast brass to meet UNS C89833. Lead content is less than .25%, in compliance with the Reduction of Lead in Drinking Water Act.
- Swivel nut does not contact water and is cast from UNS C83600.

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

"Low Lead" Bushings

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



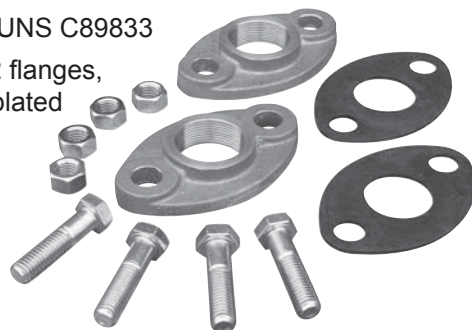
Trumbull Item No.	Size	Fits Coupling	Weight
368-0618	1-1/2"	1-1/2"	0.85 lbs.
368-0619	2"	2"	1.20 lbs.

Meter Flanges

With Rubber Gasket

"Low Lead" Meter Flange Kits

- Cast brass to meet UNS C89833
- Boxed kit includes 2 flanges, 2 gaskets & 4 zinc-plated bolts and nuts
- Also available with stainless steel or brass fasteners

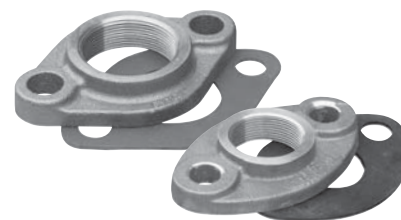


Trumbull Item No.	Size	Fits Meter	Fastener Material	Weight
379-2015	1-1/2"	1-1/2"	zinc-plated	5.40 lbs.
379-2025	1-1/2"	1-1/2"	brass	5.40 lbs.
379-2030	1-1/2"	1-1/2"	stainless steel	5.40 lbs.
379-2016	2"	2"	zinc-plated	7.10 lbs.
379-2026	2"	2"	brass	7.10 lbs.
379-2031	2"	2"	stainless steel	7.10 lbs.

"Low Lead" Meter Flanges

Sold Individually

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



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

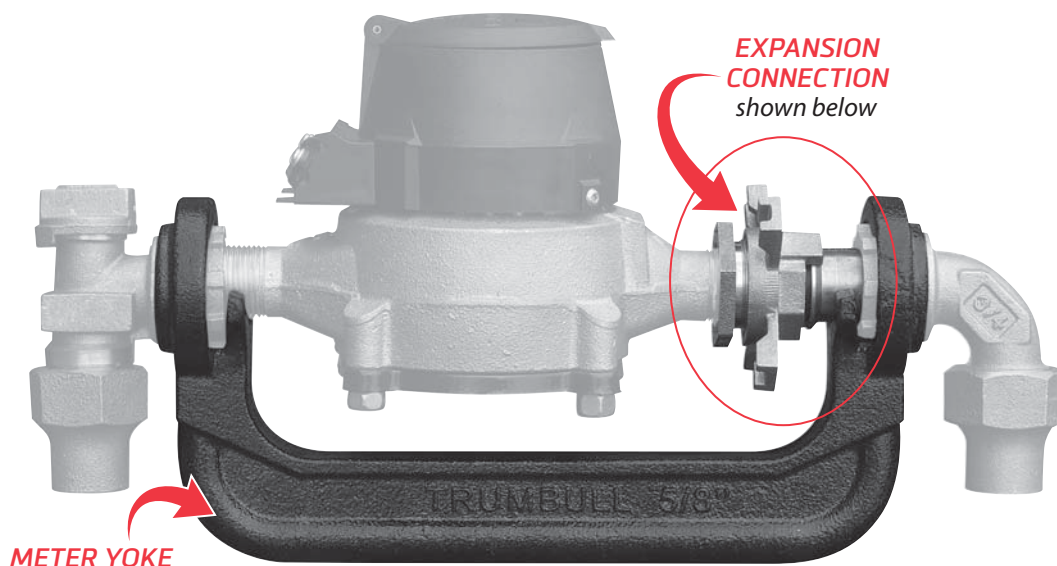
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Cast Iron Meter Yokes



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 a rust-preventative black coating.

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

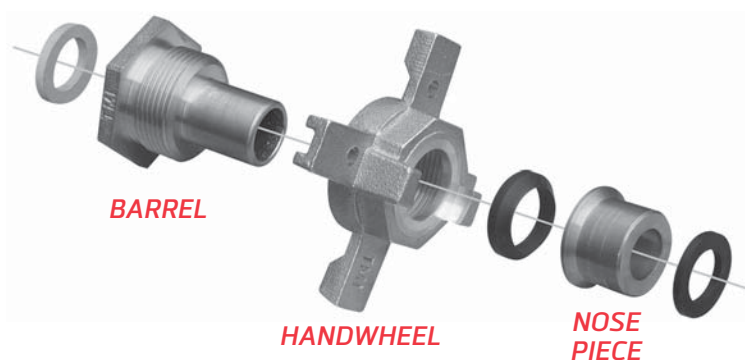
Expansion Connections

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.

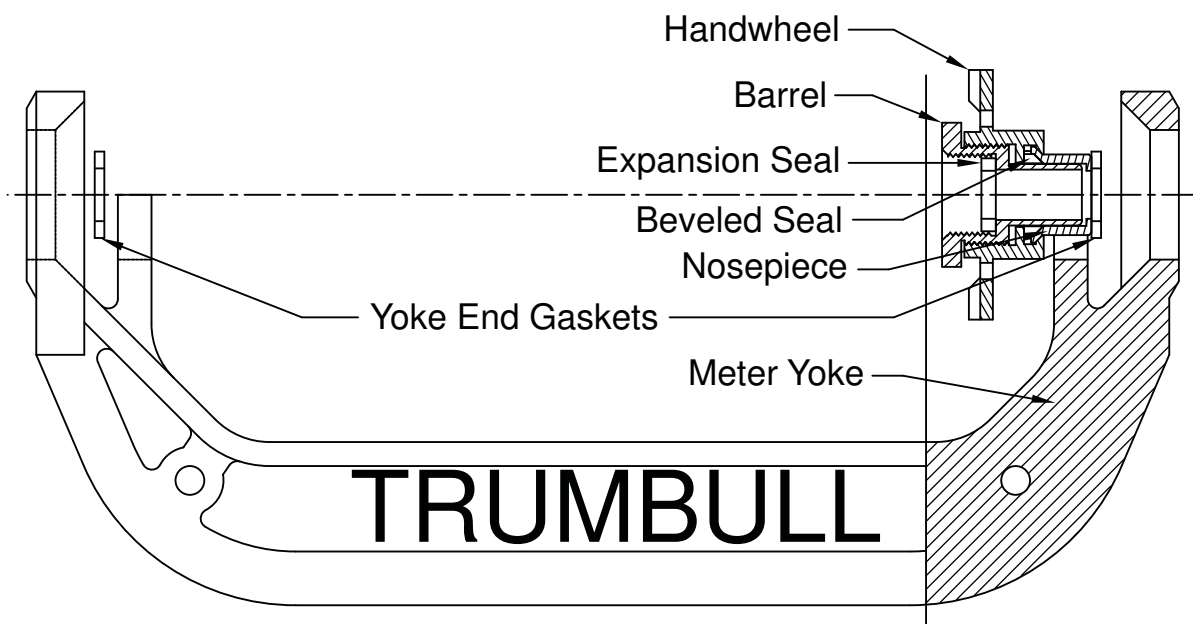
Nose Piece and Barrel are in contact with water and are cast from UNS C89833 brass. Lead content is less than .25%, in compliance with the Reduction of Lead in Drinking Water Act.

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. All gaskets are NSF-61.

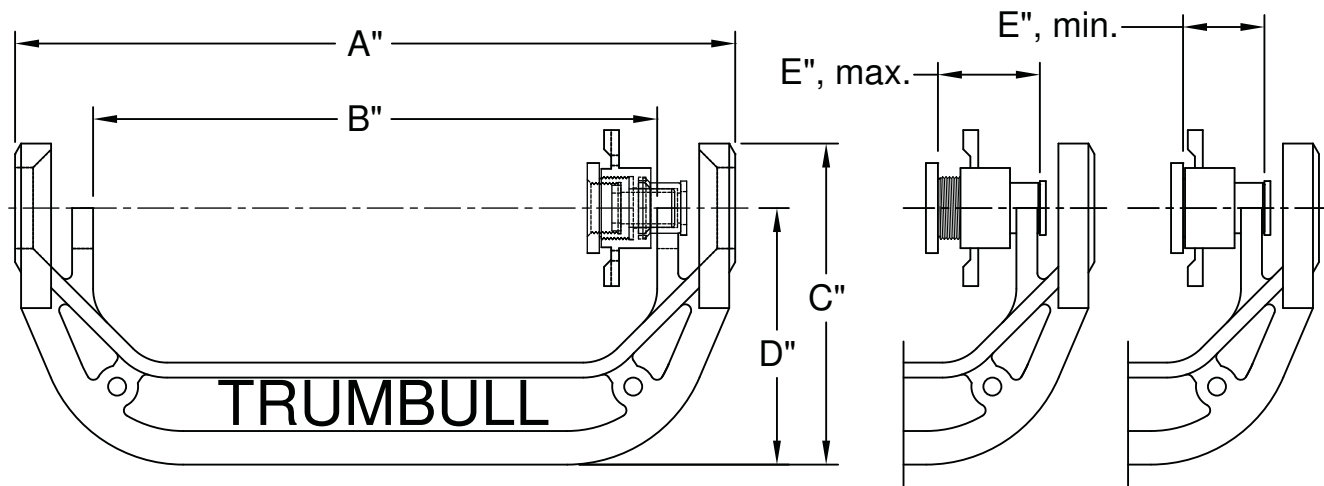
Dimensions of Yokes & Expansion Connections are consistent and interchangeable with other industry manufacturers.



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



Barrel and Nosepiece are in contact with potable water and will conform to UNS C89833.
They will be marked "NL", and contain less than 0.25% lead. EPDM and fiber seals meet NSF-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.

Material:
UNS C89833 - Barrel and Nosepiece (In contact with potable water. Lead content less than 0.25%.)

Drawn:	Drawing Revision:		TRUMBULL INDUSTRIES		Drawn to Scale	
Date	Rev.	Date			METER YOKE and	
5/19/2014	B	04/07/2015	P.O. Box 1556 1040 N. Meridian Rd. Youngstown, Ohio 44501		EXPANSION CONNECTIONS	

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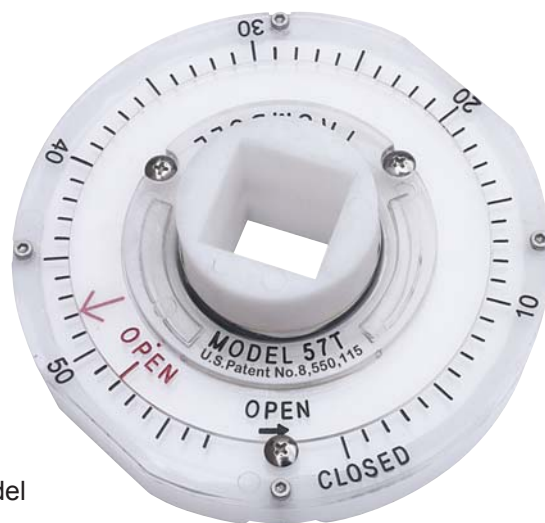
www.trumbull-mfg.com

Valve Position Indicators

Buried Service - 1-1/4" SQUARE Extension Stems



- Eliminates broken valve stems caused by over-opening or over-closing
- Field-adjustable for any number of turns within the range of each model
- 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
- 3rd-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
		Trumbull Item No.	Trumbull Item No.
57T	0 - 57	367-9394	367-9393
275T	0 - 275	367-9396	367-9395
870T	0 - 870	367-9400	367-9399

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

TRUMBULL

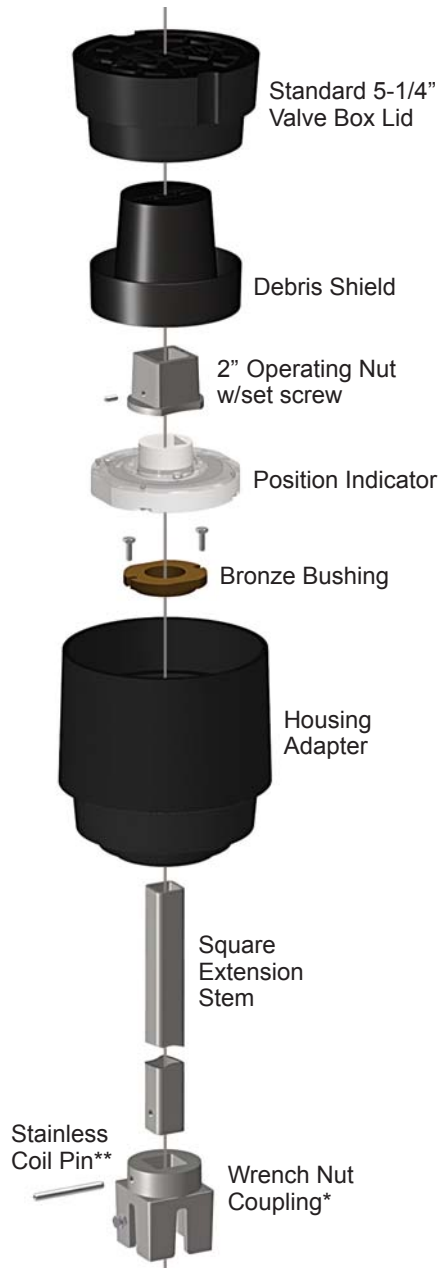
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Exploded View

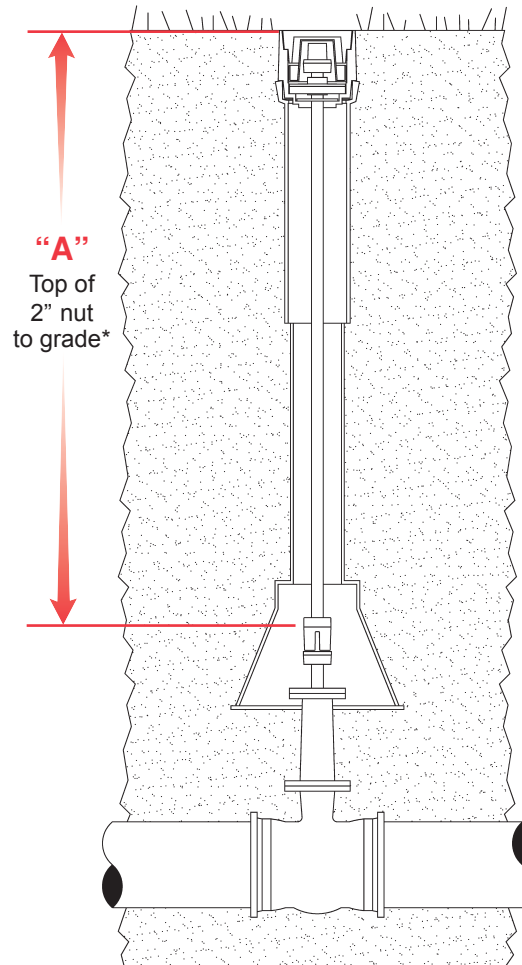
Square Extension Stem
for Buried Service



SQUARE EXTENSION STEM

Product Notes

- * 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

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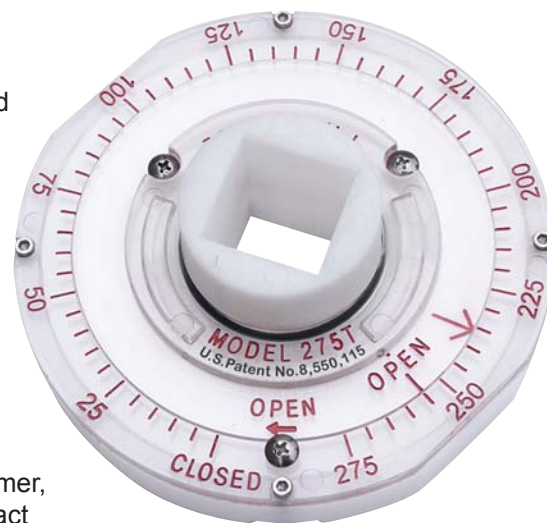
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Valve Position Indicators

Buried Service - **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
- 3rd-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
		Trumbull Item No.	Trumbull Item No.
57T	0 - 57	367-9394	367-9393
275T	0 - 275	367-9396	367-9395
870T	0 - 870	367-9400	367-9399

3. Extension Stem required (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** recommended for buried service

TRUMBULL

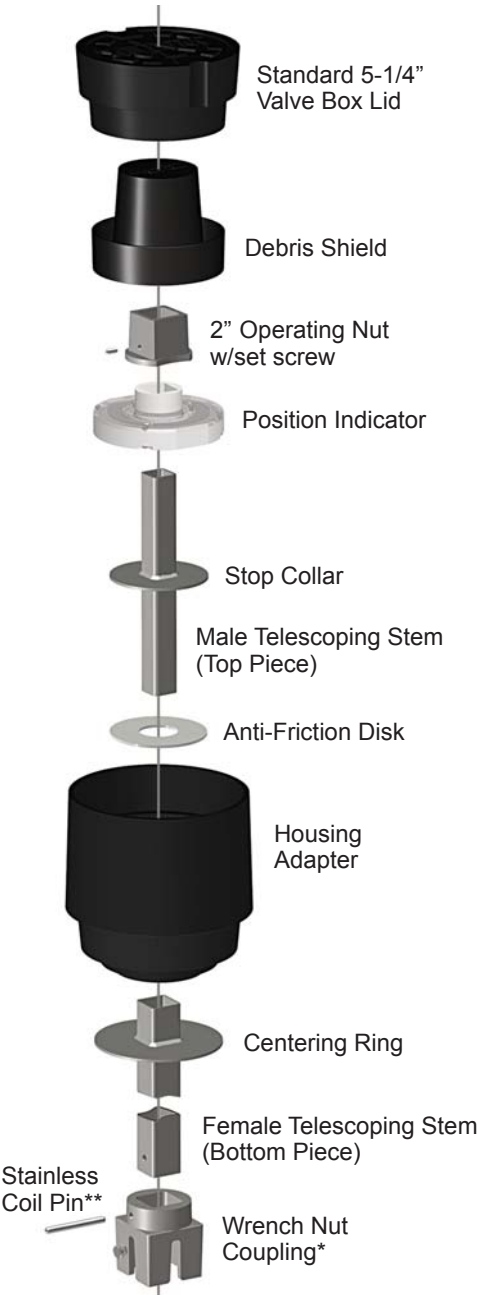
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Exploded View

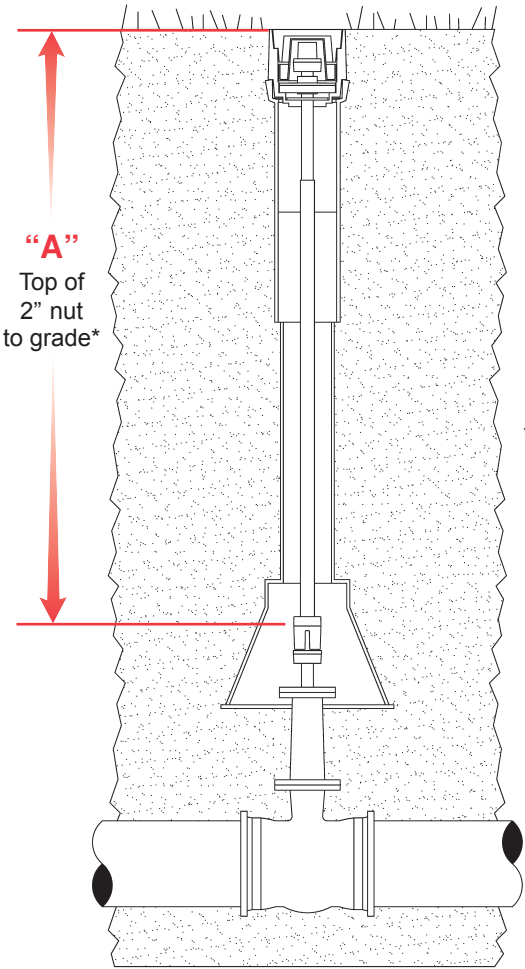
Telescopic Extension Stem
for Buried Service



TELESCOPIC EXTENSION STEM

Product Notes

- * 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 & 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.

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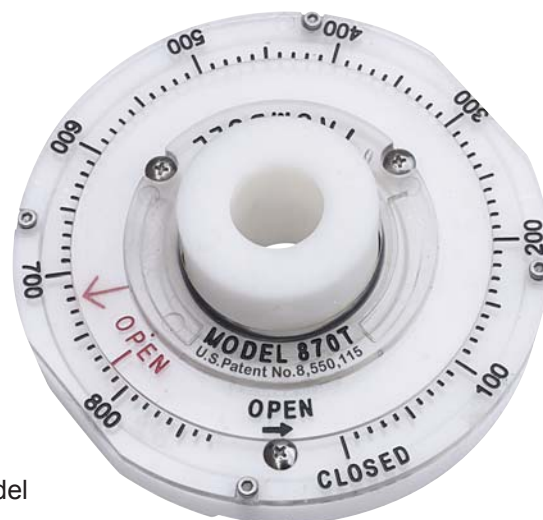
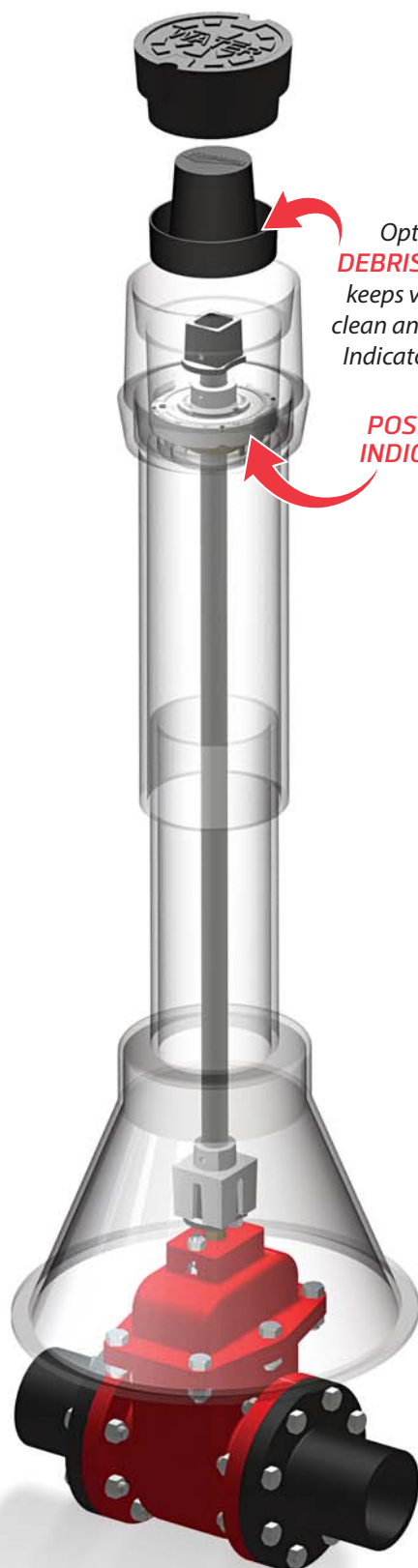
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Toll Free: 800.677.1799 P.O. Box 1556
Fax: 330.392.0756 Youngstown, Ohio 44501

www.trumbull-mfg.com

Valve Position Indicators

Buried Service - **ROUND** Extension Stems



- Eliminates broken valve stems caused by over-opening or over-closing
- Field-adjustable for any number of turns within the range of each model
- 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
- 3rd-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)

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
		Trumbull Item No.	Trumbull Item No.
57T	0 - 57	367-9404	367-9403
275T	0 - 275	367-9406	367-9405
870T	0 - 870	367-9410	367-9409

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

TRUMBULL

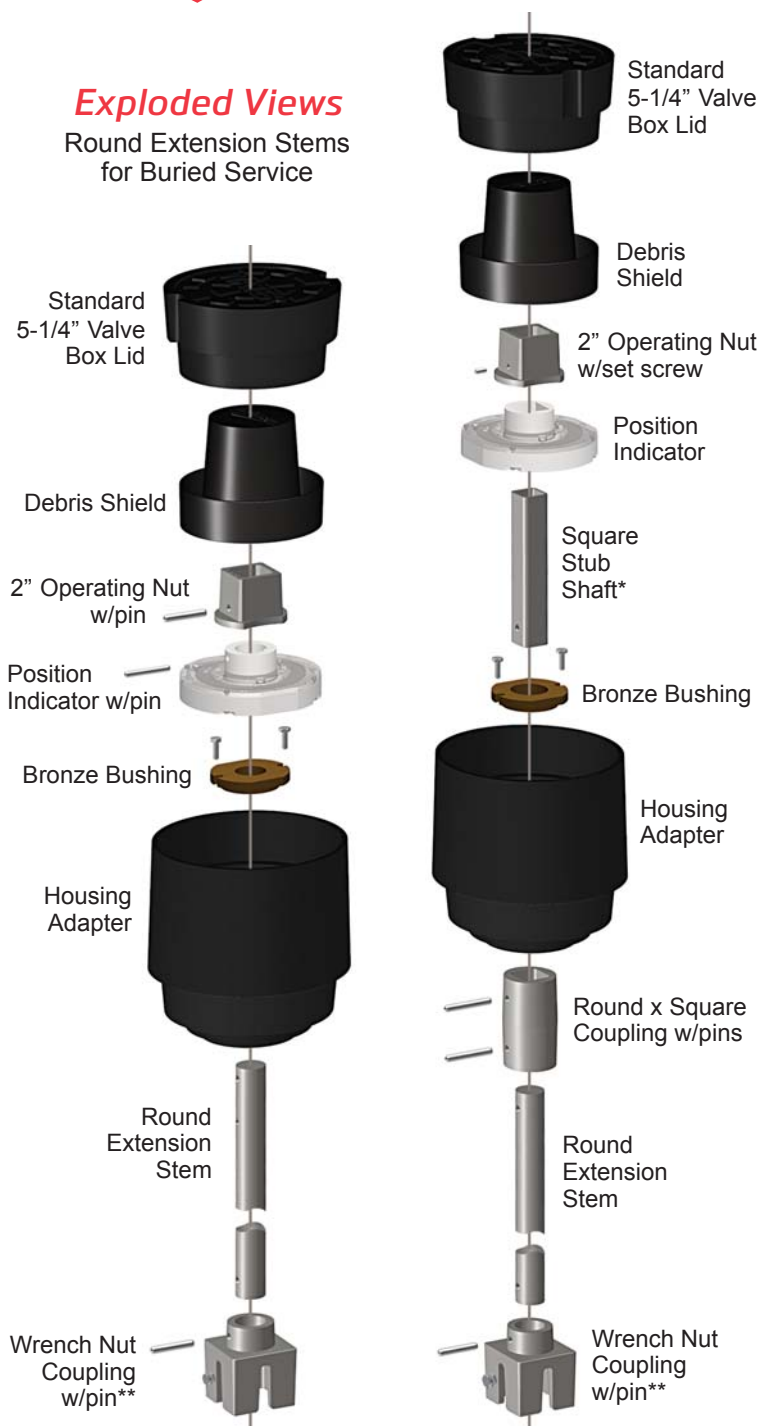
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Exploded Views

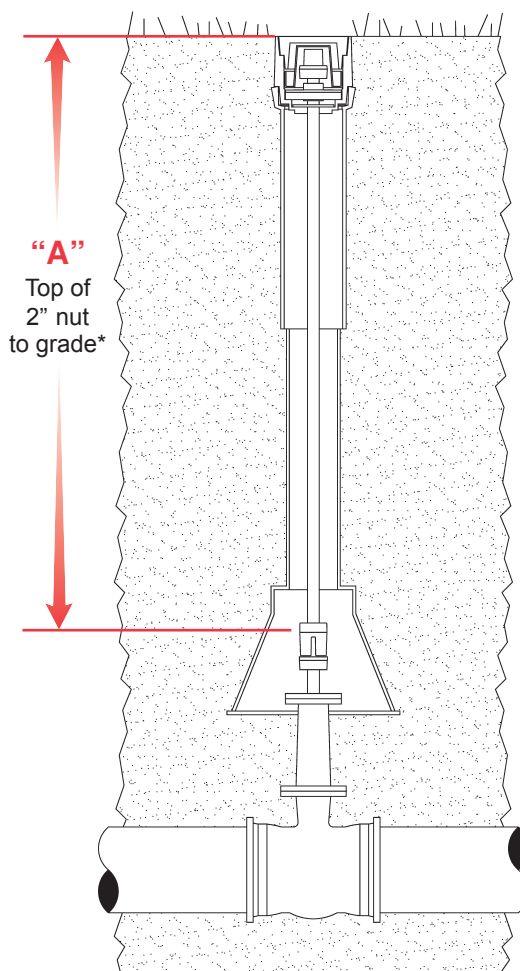
Round Extension Stems
for Buried Service



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

Product Notes

- * 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.

Consult your Trumbull Rep
for torque ratings.

You Tube

Installation animations online:
www.youtube.com/trumbullmfg

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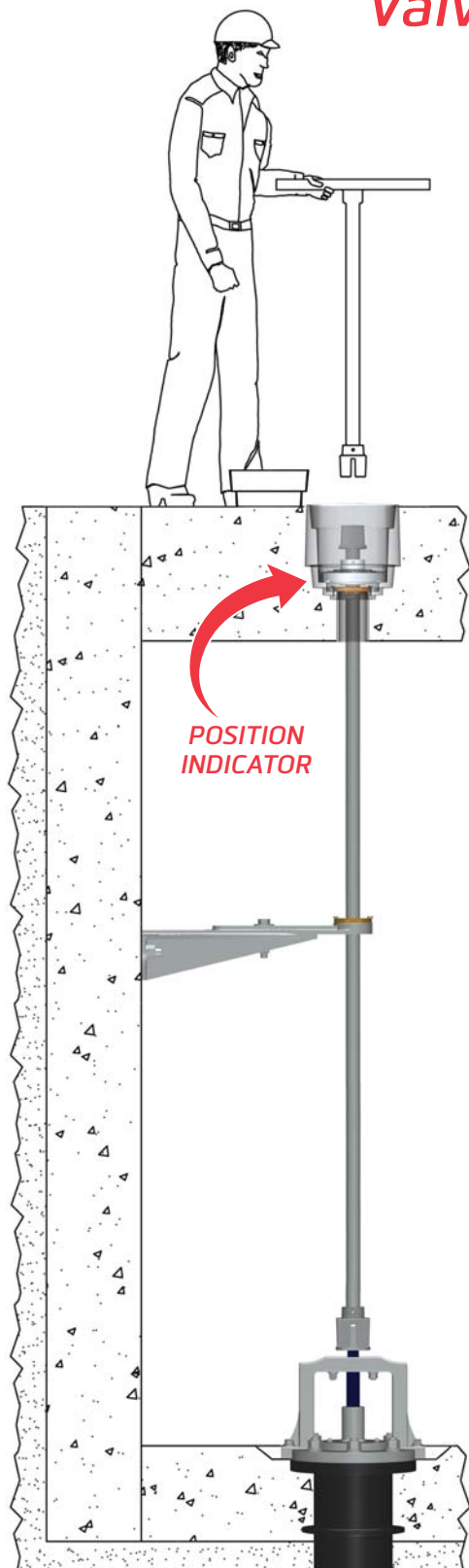
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Valve Position Indicators

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
- 3rd-party tested to over 1 million revolutions
- Provided with stainless steel hardware
- Also available with 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	Open Right	Open Left	Open Right
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

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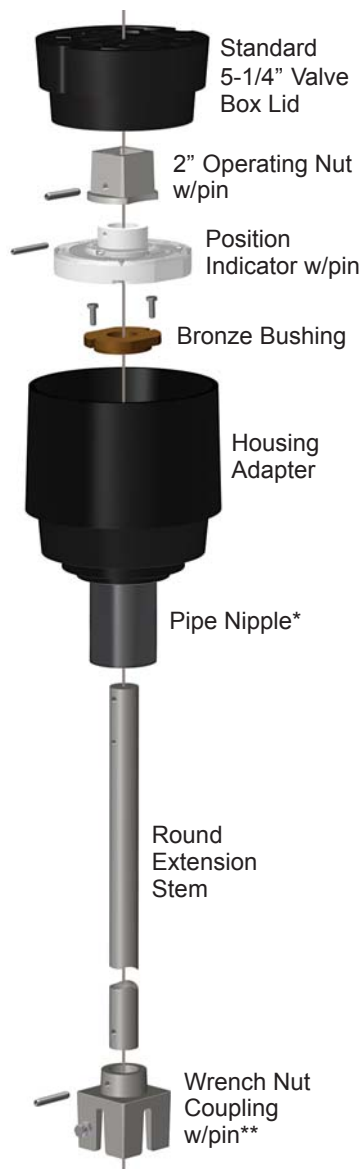
P.O. Box 1556

Youngstown, Ohio 44501

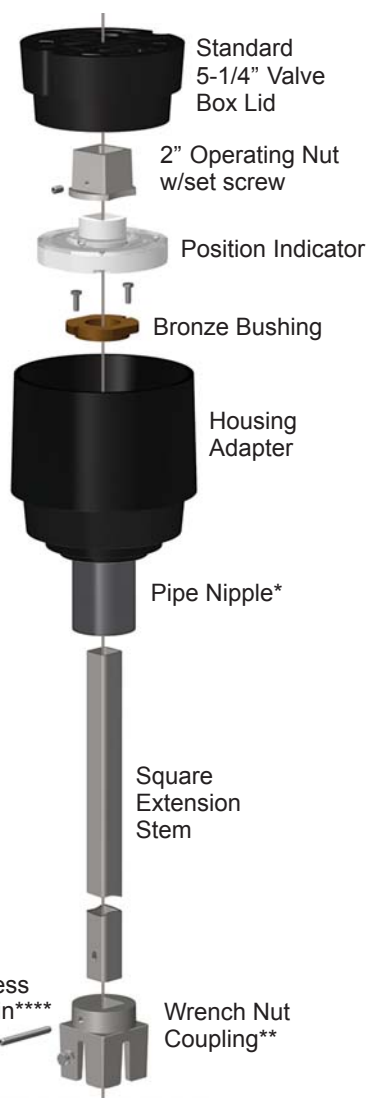
www.trumbull-mfg.com

Exploded Views

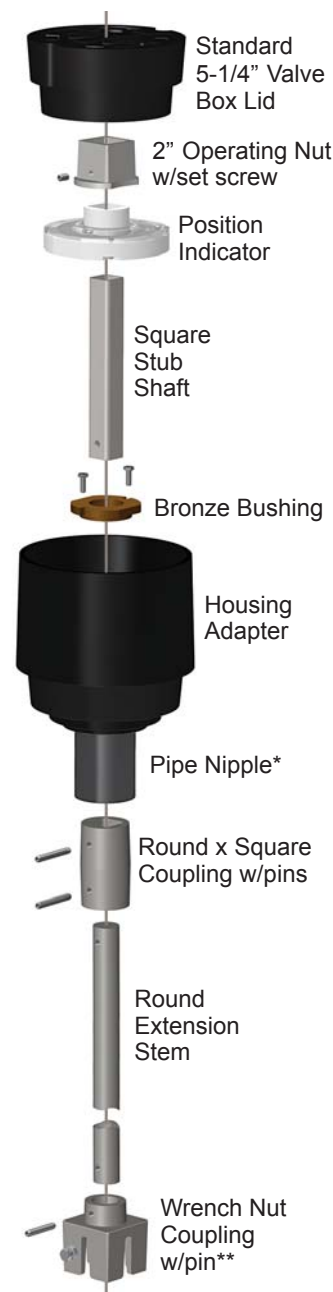
Extension Stem
Installation in Floor



ROUND EXTENSION STEM



SQUARE EXTENSION STEM***



ROUND EXTENSION STEM*
with Square Stub Shaft**

Product Notes

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

** Wrench nut coupling normally furnished pinned to round stems, and factory welded on square stems.

*** Using a square Extension Stem, or a round Extension Stem with a square stub shaft saves field drilling and installation of pins inside floor box.

**** When bottom coupling is purchased separately, pin is provided.

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Valve Position Indicators

Installation with **WALL BRACKET** (Patent Pending)



WALL BRACKET

Ductile Iron

367-2450

Cast 316 Stainless

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
- 3rd-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
		Trumbull Item No.	Trumbull Item No.
57T	0 - 57	367-9404	367-9403
275T	0 - 275	367-9406	367-9405
870T	0 - 870	367-9410	367-9409

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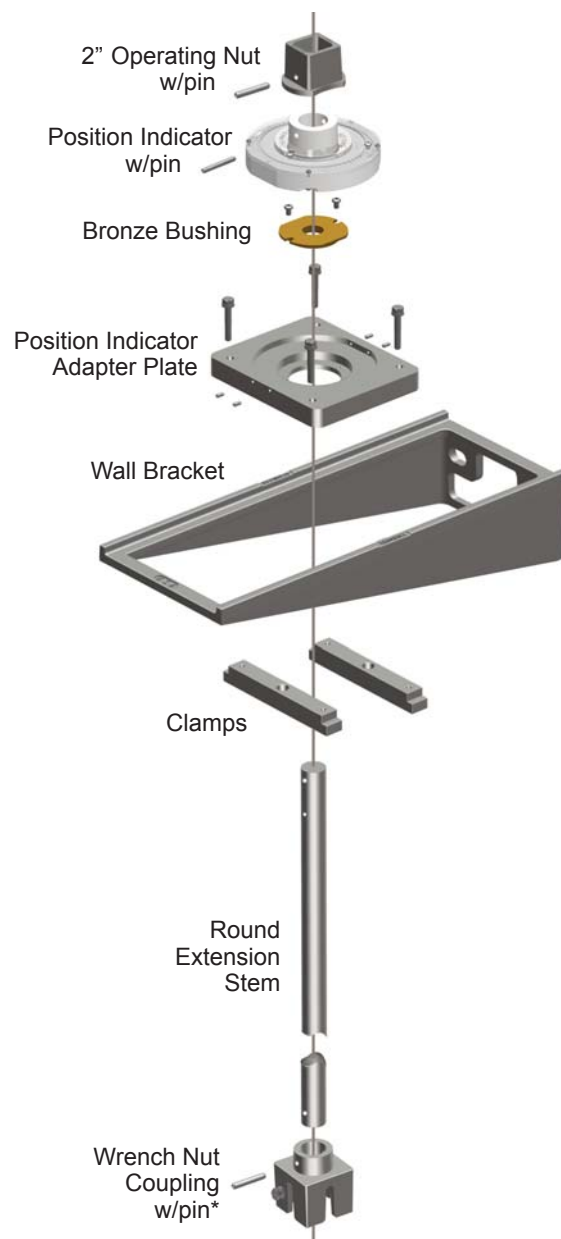
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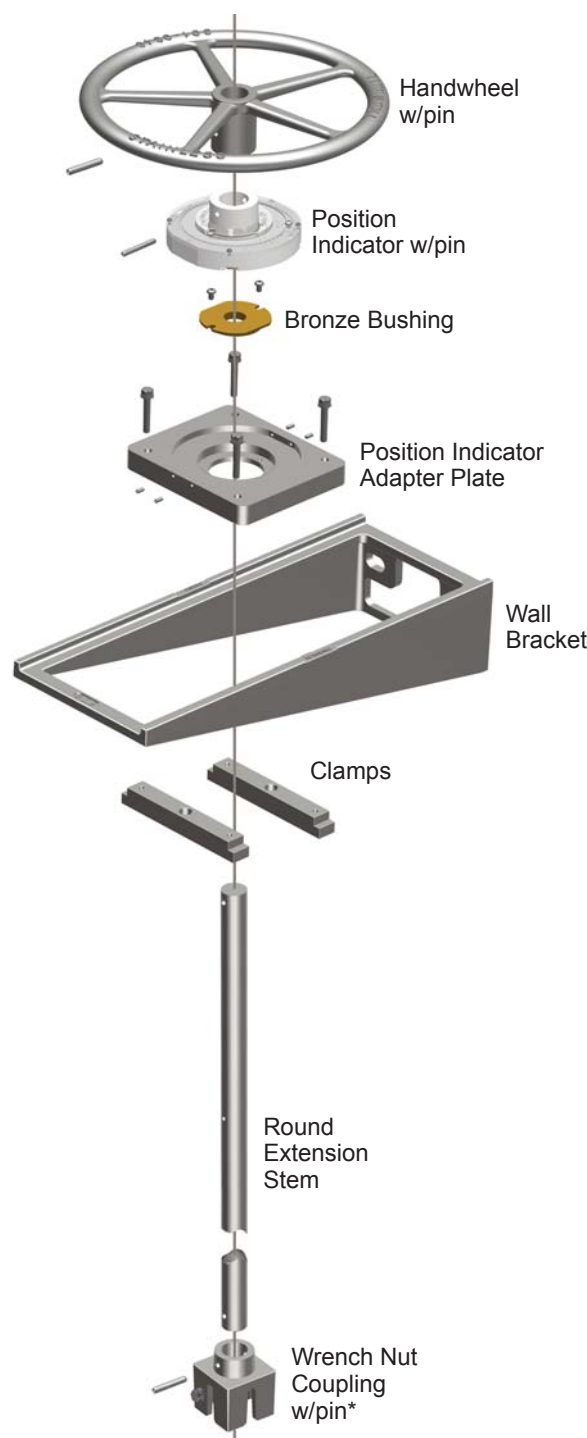
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Exploded Views

Round Extension Stems
Installation with Wall Bracket



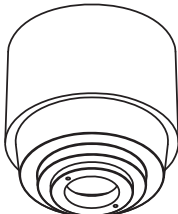
ROUND EXTENSION STEM
with 2" Operating Nut



ROUND EXTENSION STEM
with Handwheel

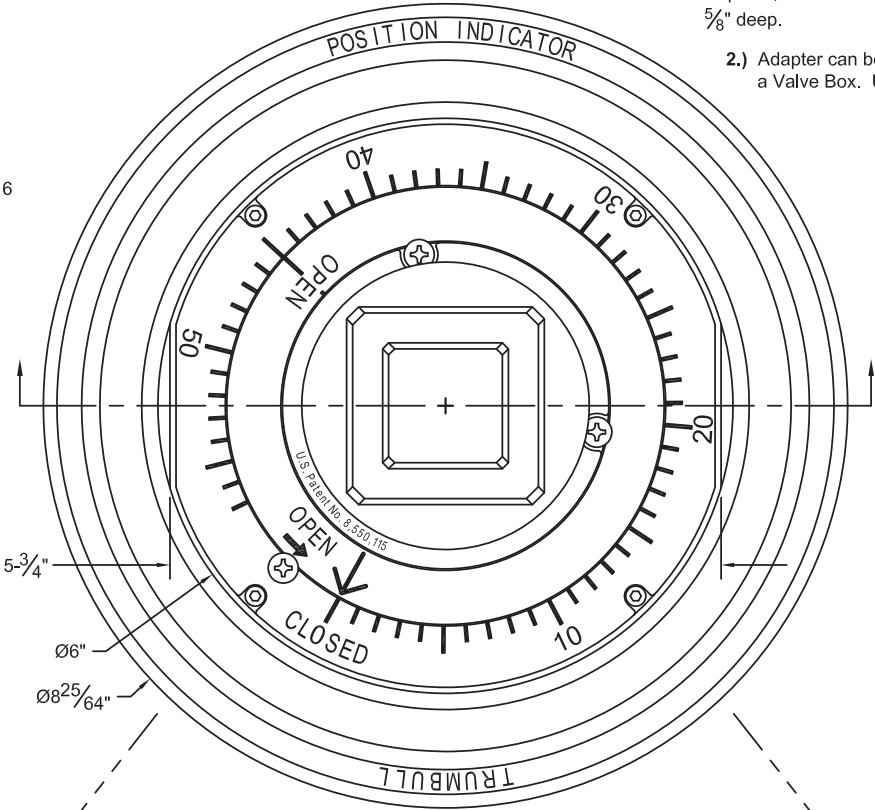
Product Note

* Wrench nut coupling normally furnished pinned to stem.



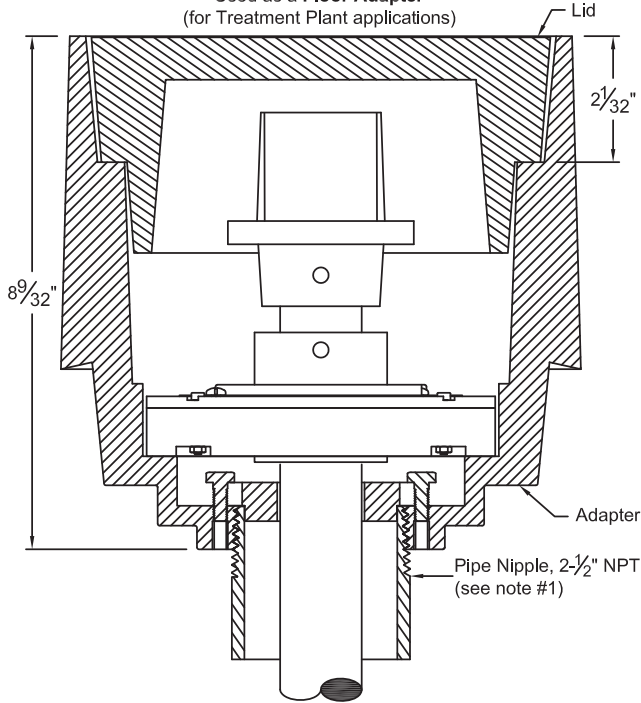
Item Number: #367-9416
Coating: Black Enamel
Material: Grey Iron
Weight: 35 lbs

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

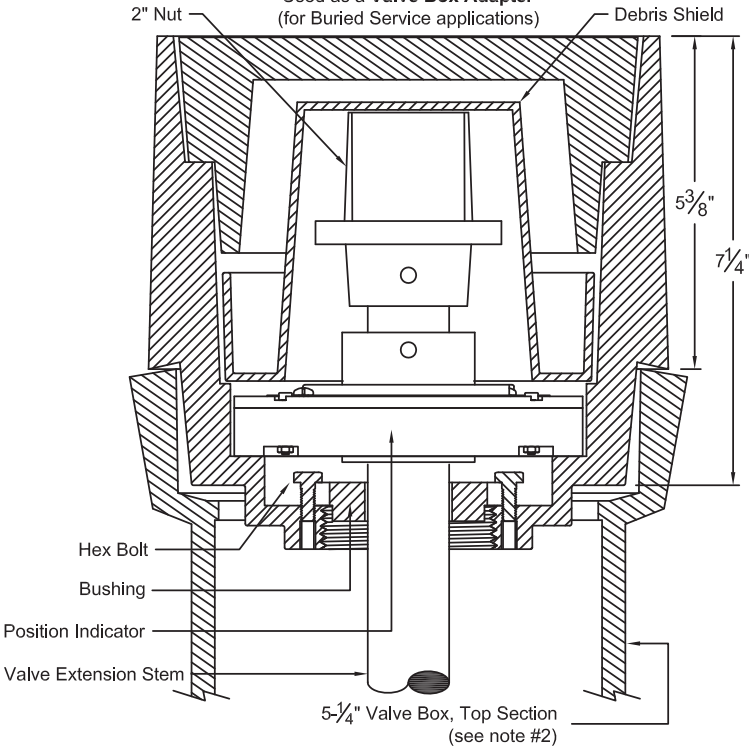


- Notes:**
- 1.) Use Pipe Nipple $\frac{5}{8}$ " longer than the increase of floor slab required, as the threads on the underside of Adapter are $\frac{5}{8}$ " deep.
 - 2.) Adapter can be used with PVC C900 Pipe to form a Valve Box. Use Pipe sizes 6" or 8" DR 14 .

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)



Drawn by: BJE	Drawing revision:	
Date	Rev.	Date
2/28/11	A	3/18/2015

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Housing Adapter
for Position Indicator

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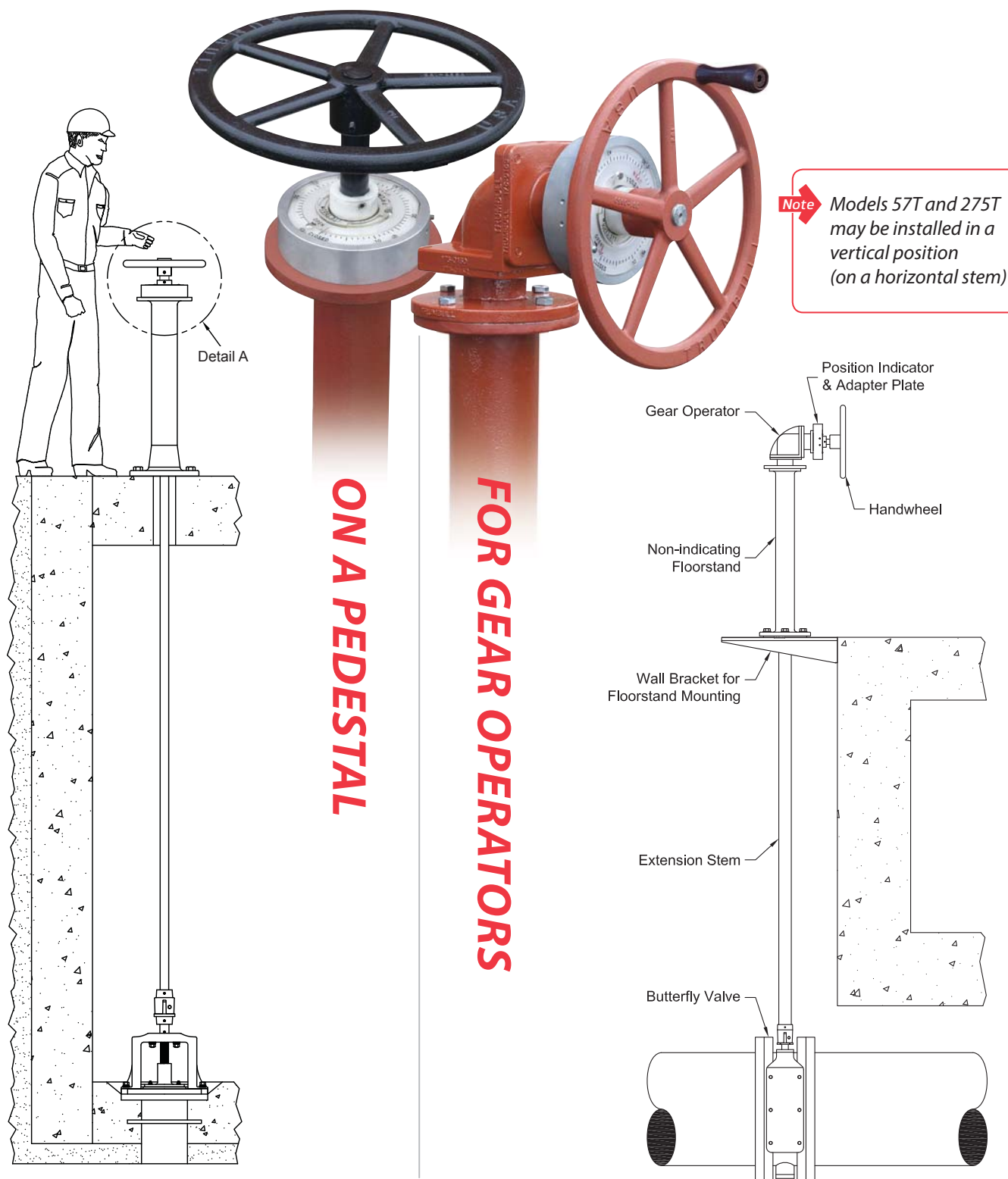
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Valve Position Indicators

Installation with **FLOORSTANDS**



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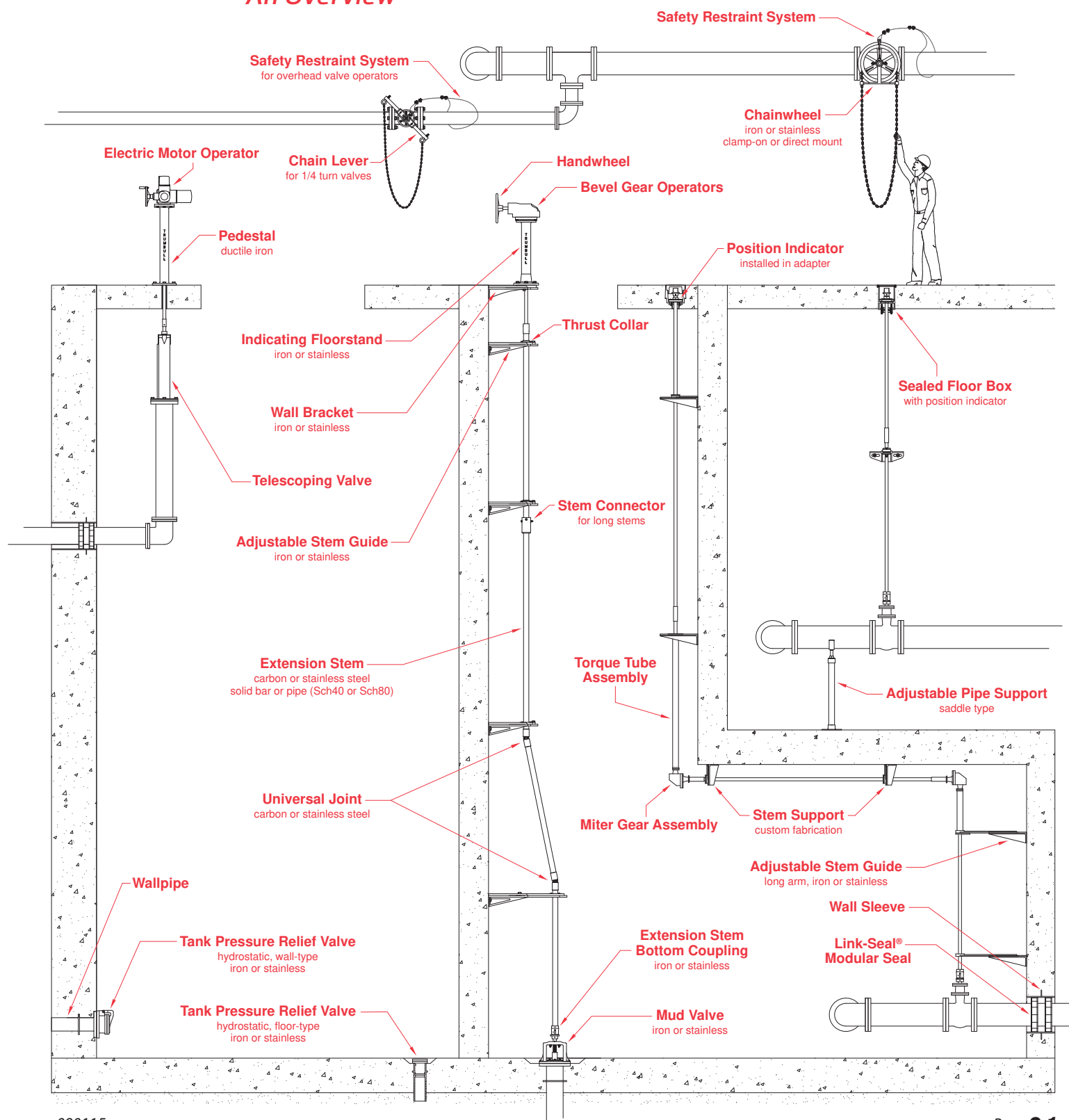
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Trumbull Treatment Plant Products

An Overview



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Valve Extension Stems (Round)

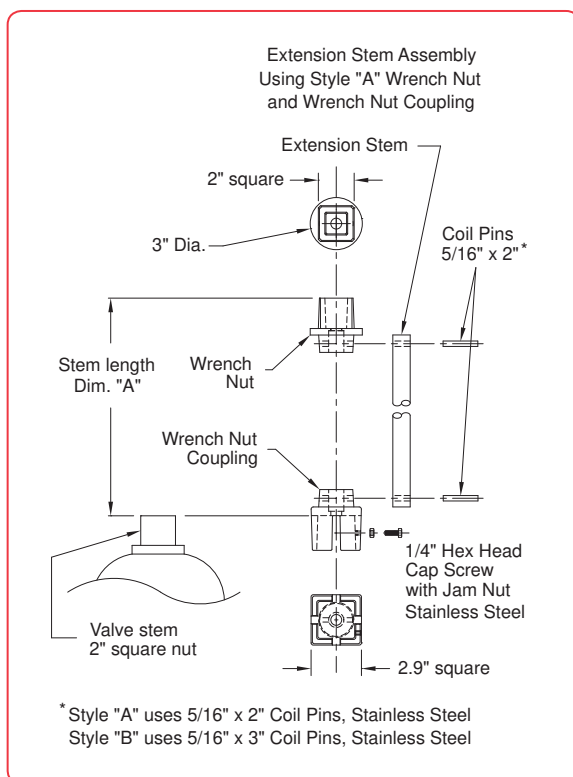
Solid Bar or Pipe – Carbon or Stainless Steel

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. The wrench nut coupling fits over the 2” square nut of the valve stem being extended and is 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 & re-drilling for the pin.

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 & miter gears are also available. See page G-6 for illustration of custom installations.



See separate literature on Trumbull Floorstands, Floor Boxes, Stem Guides, Mud Valves and Valve Position Indicators.

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Valve Extension Stems (Square)

Telescopic & Non-Telescopic Types

Traditionally, extension stems have been made from round stock, either pipe or solid round bar. Now, Trumbull's Square Extension Stems can simplify the installation when installers cut extension stems in the field for buried service!

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

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

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

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

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



**TELESCOPIC
EXTENSION STEM**

*with gate valve for buried service
(cut-away view shown)*

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



**SQUARE
EXTENSION STEM**

*with top nut
and bottom coupling*

See separate literature on Trumbull Floorstands,
Floor Boxes, Stem Guides, Mud Valves and Valve Position Indicators.

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Top Nuts & Bottom Couplings

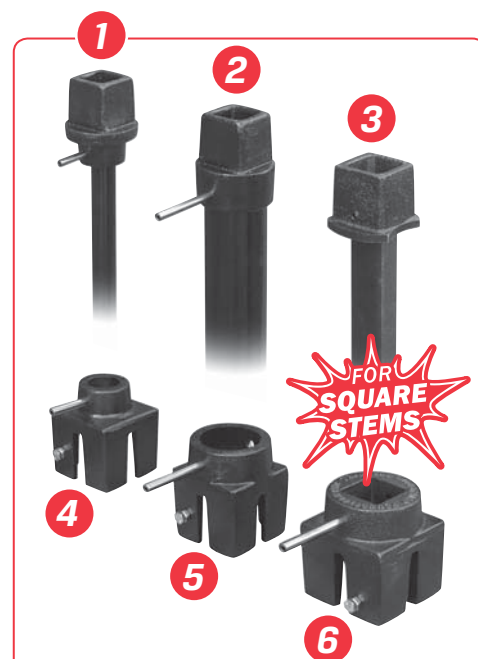
For Round & Non-Telescopic Square Stems – Ductile & Stainless

	Solid Rod	Max Torq* in ft-lb	Steel Pipe	Max Torq* in ft-lb	Bore Diameter	Top Nut	Bottom Coupling
						Trumbull Item No.	Trumbull Item No.
Ductile Iron	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
Stainless	----	----	2"	920	**	367-4959	367-4969
	1-1/4" square stems		***	----		367-4930	367-4938
	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
	----	----	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.



1. Top Nut for small round stem
2. Top Nut for large round stem
3. Top Nut for 1-1/4" square stem
4. Bottom Coupling for small round stem
5. Bottom Coupling for large round stem
6. Bottom Coupling for 1-1/4" square stem

Also available
In stainless steel



Cast Handwheels

Handwheels

Trumbull 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

Trumbull Item No.	Material	Dia.	Bore	Weight
367-2055	CS	8"	15/16"	3.40 lbs.
367-2054	CS	12"	15/16"	4.35 lbs.
367-2056	CS	18"	15/16"	5.45 lbs.
367-2057	CS	24"	15/16"	5.70 lbs.
367-2058	CS	30"	15/16"	10.30 lbs.

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

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Ordering Information for Trumbull Valve Extension Stems

Round

Complete Extension Stems

1. Quantity
2. Overall length — See “A” dimension of drawing on page G-2.
3. 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		

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

* Other handwheel diameters available (see page G-4).

** Primer coatings also available. Tnemec 37H-77 & N140-1211 normally stocked.
Galvanizing & additional coatings available.

Square

Complete Extension Stems

1. Quantity required
2. Overall length
3. Material type - carbon or stainless steel, solid bar or tubing

**1-1/4"
SQUARE
ONLY**

Extension Stem Components Only

1. Specify quantity of top nuts, bottom couplings, handwheels and stem couplings. Top nut and handwheel furnished with stainless coil pin. Bottom coupling furnished with stainless coil pin and cap screw with jam nut.
2. For ductile iron top nut and bottom coupling select from chart on page G-4, based on type and diameter of extension being used. Stainless steel top nut and bottom coupling are normally furnished to fit 1-1/4" solid rod or 1" Sch 40 pipe. Specify if larger bore sizes are required, up to a maximum of 2".

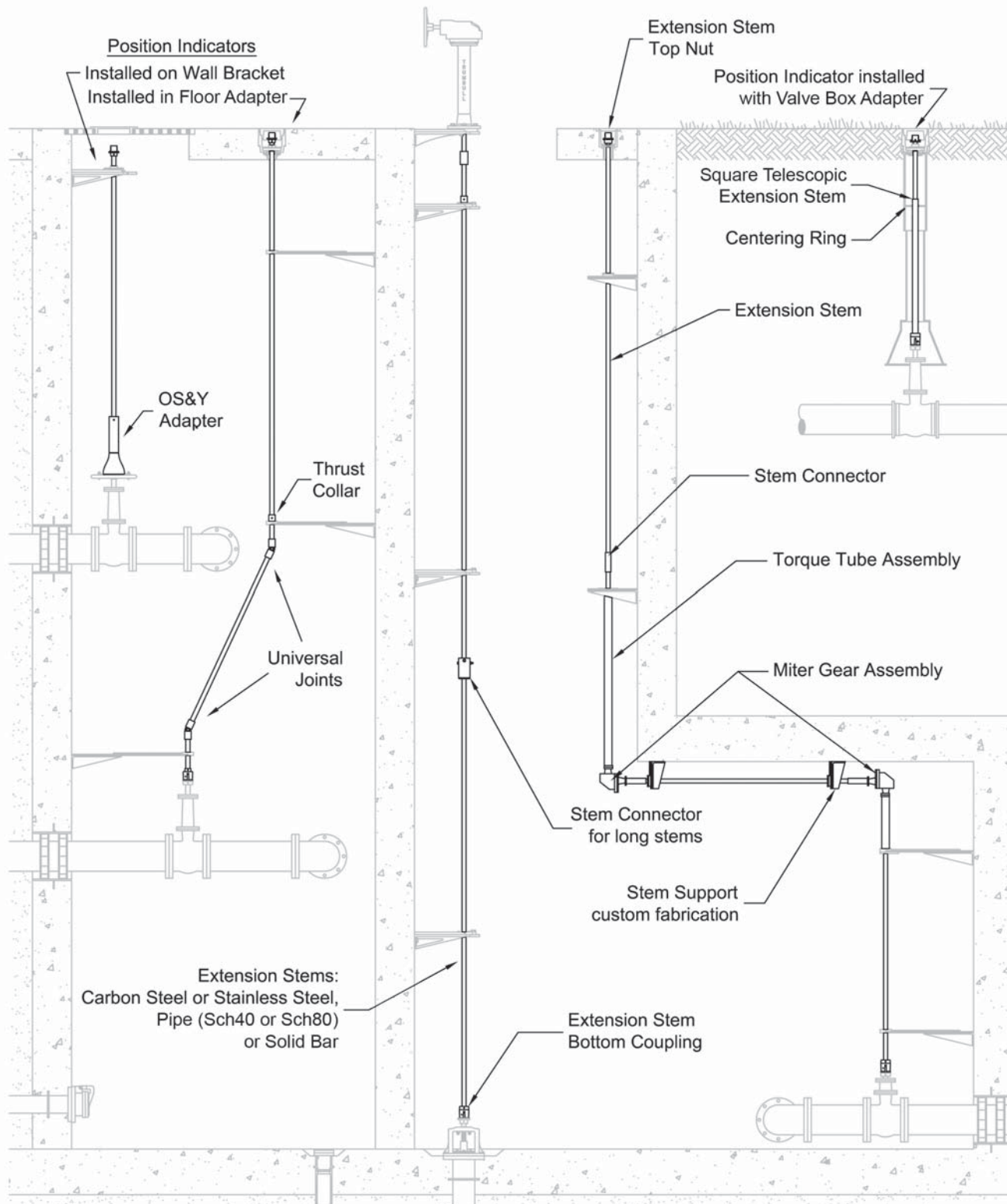
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Custom Extension Stem Applications



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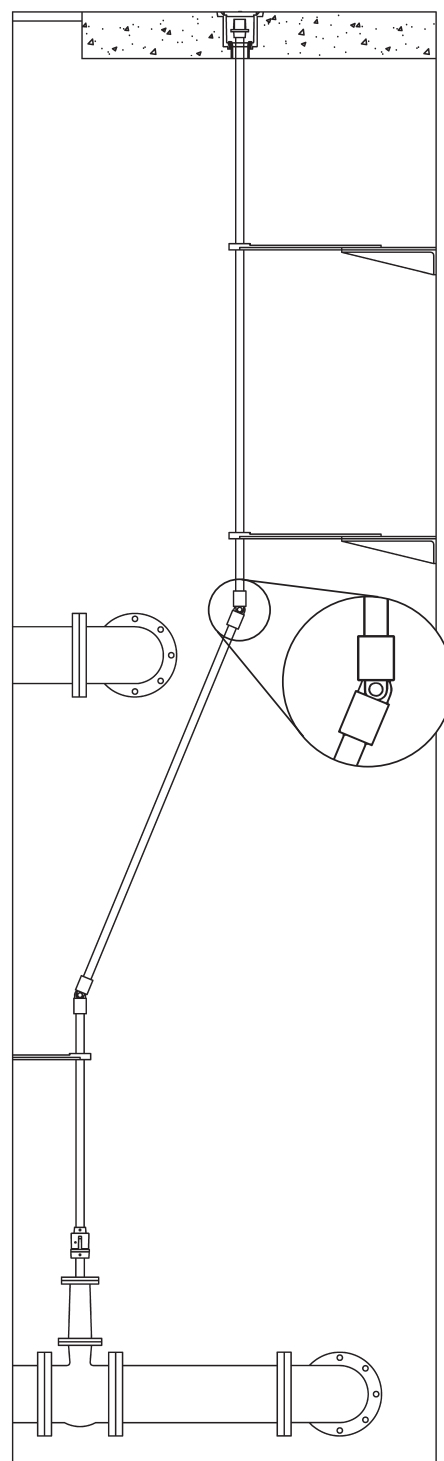
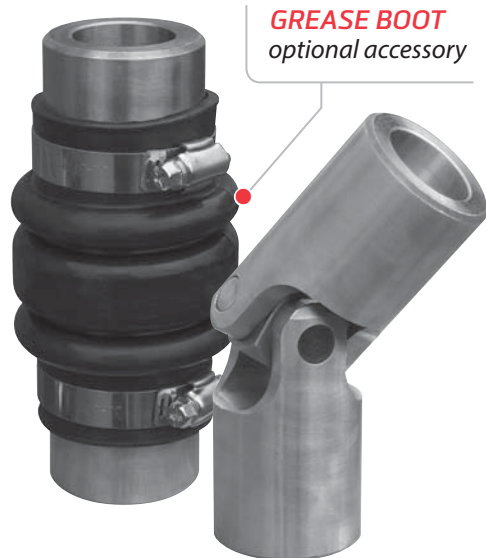
Universal Joints

For Alignment 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.



Typical installation

Universal Joints*

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

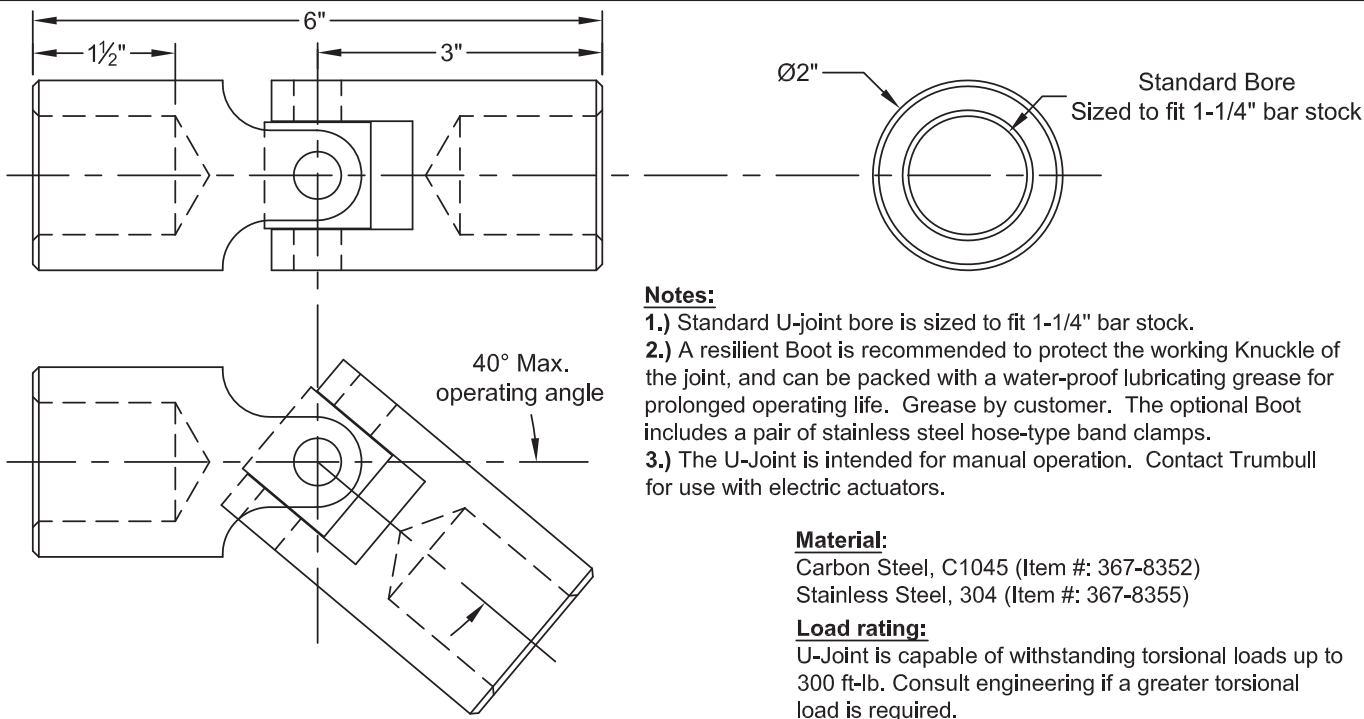
Boot Assembly

Includes two clamps

Trumbull Item No.	Weight
367-8360	0.20 lbs.

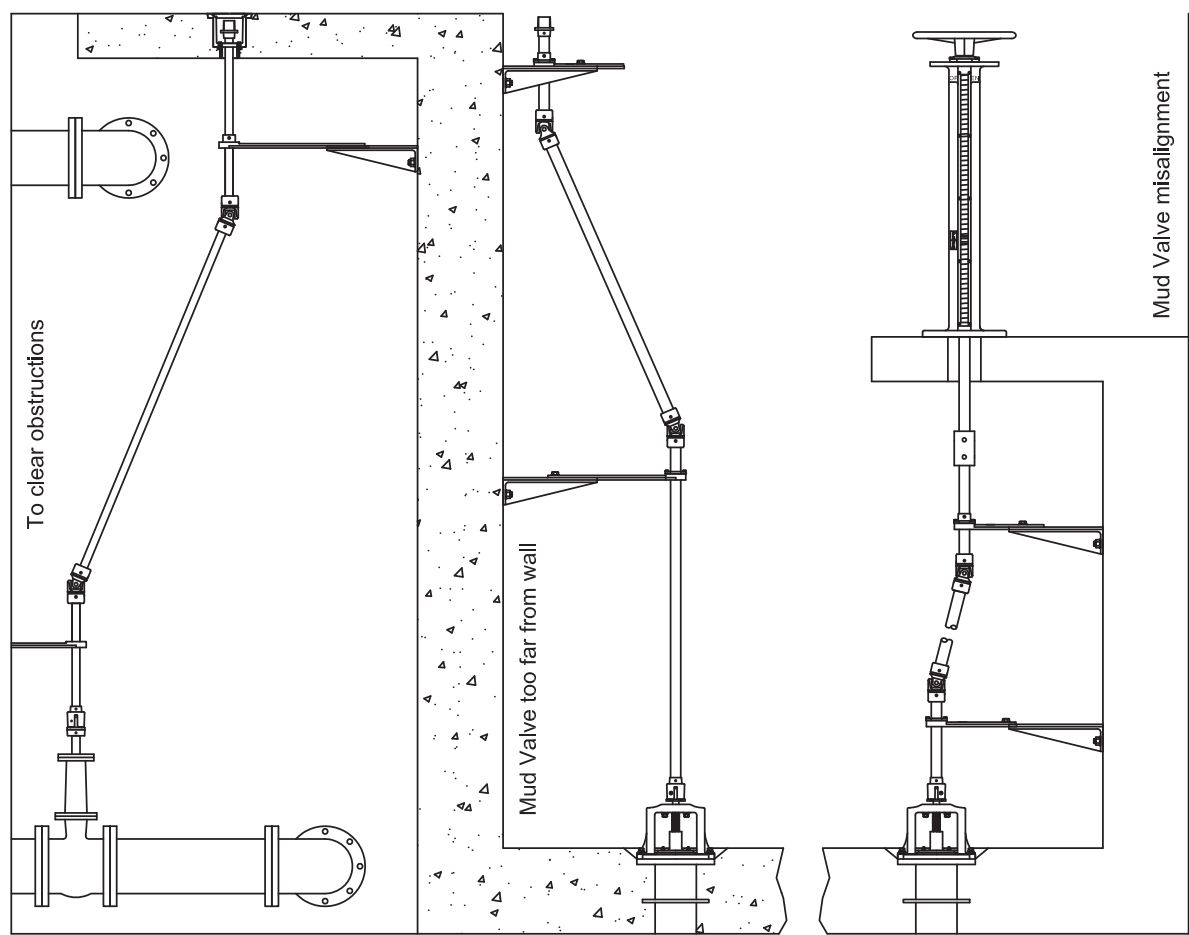
* Recommended maximum torque is 300 ft-lb. For applications with higher torque requirements, consult Trumbull. Maximum operating angle is 40°.

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



Material:
Carbon Steel, C1045 (Item #: 367-8352)
Stainless Steel, 304 (Item #: 367-8355)

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



Drawn by: BJE	Drawing revision:	
Date	Rev.	Date
5/21/14	---	---

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P.O. Box 1556
1040 N. Meridian Rd.
Youngstown, Ohio 44501

Universal Joints
Carbon Steel & Stainless Steel

TRUMBULL

TRUMBULL INDUSTRIES, INC.

Phone: 330.799.3333 | 1040 N. Meridian Rd.
Toll Free: 800.677.1799 | P.O. Box 1556
Fax: 330.392.0756 | Youngstown, Ohio 44501

www.trumbull-mfg.com

Miter Gears

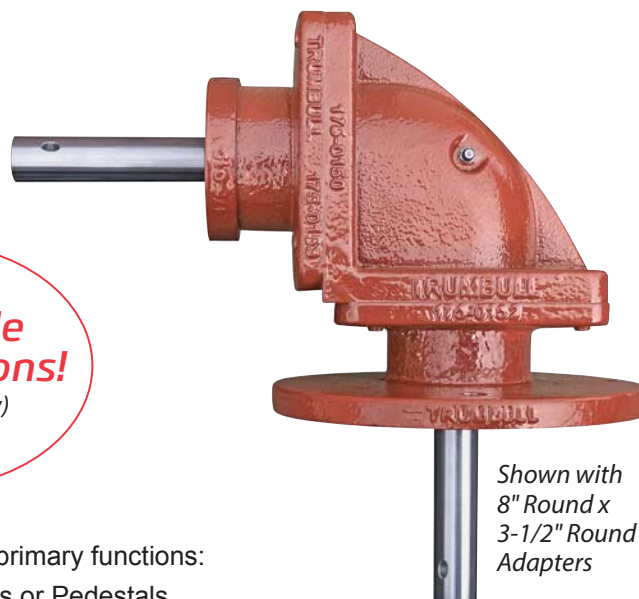
Heavy-Duty, Enclosed Gear Assemblies

3 Standard End Adapters

- 8" Round End Adapter
- 4-1/4" Square End Adapter
- 3-1/2" Round End Adapter

6 Possible Combinations!

(Shown below)



Shown with
8" Round x
3-1/2" Round
Adapters

TRUMBULL MITER GEARS are designed to fulfill the following primary functions:

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

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

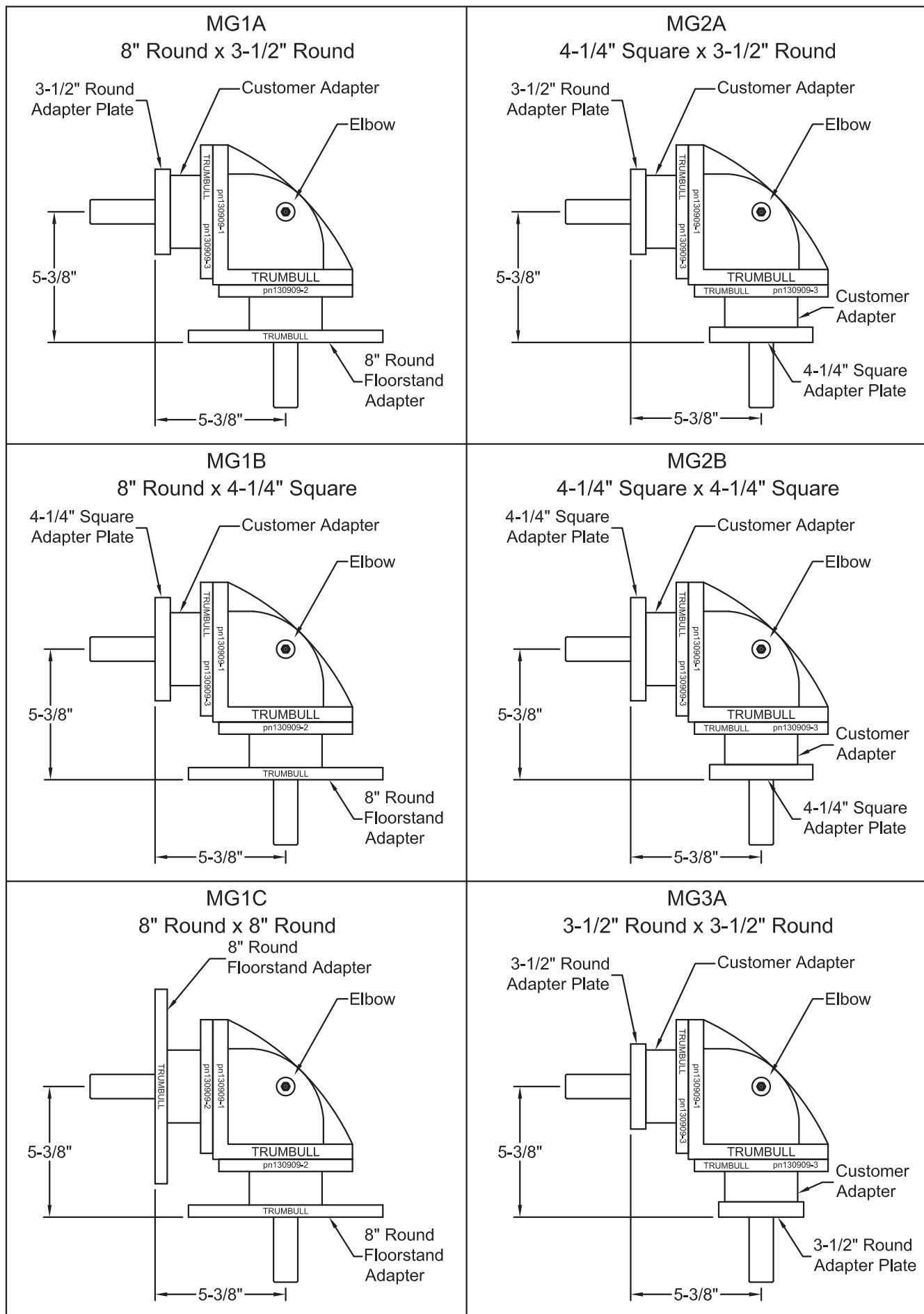
Trumbull Miter Gear Assemblies are provided standard with a recessed grease fitting for easy maintenance and Buna-N O-ring seals on each end adapter.

Trumbull Miter Gears have a recommended maximum torque of 300 ft-lb (406 N-m). For applications with higher torque requirements, please consult Trumbull.

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

See reverse side for drawings of model end options.

End Configurations	Model#	Weight	Typical Usage for Each End Adapter
8" Round x 3-1/2" Round	MG1A	39.00 lbs.	8" Round - mates to our Floorstands 3-1/2" Round - for use with handwheel or nut operators
8" Round x 4-1/4" Square	MG1B	42.00 lbs.	8" Round - mates to our Floorstands 4-1/4" Square - adapts for guide, bracket & motor mountings
8" Round x 8" Round	MG1C	46.00 lbs.	Both 8" Round ends mate to our Floorstands & other fabrications such as torque tubes
4-1/4" Square x 3-1/2" Round	MG2A	37.00 lbs.	4-1/4" Square - adapts for guide, bracket & motor mountings 3-1/2" Round - for use with handwheel or nut operators
4-1/4" Square x 4-1/4" Square	MG2B	35.00 lbs.	Both 4-1/4" Square ends easily adapt for guide, bracket & motor mountings
3-1/2" Round x 3-1/2" Round	MG3A	32.00 lbs.	Both 3-1/2" Round ends for use with either extension stem assemblies, handwheel, or nut operators



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Cast Iron Floor Box

TRUMBULL 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.

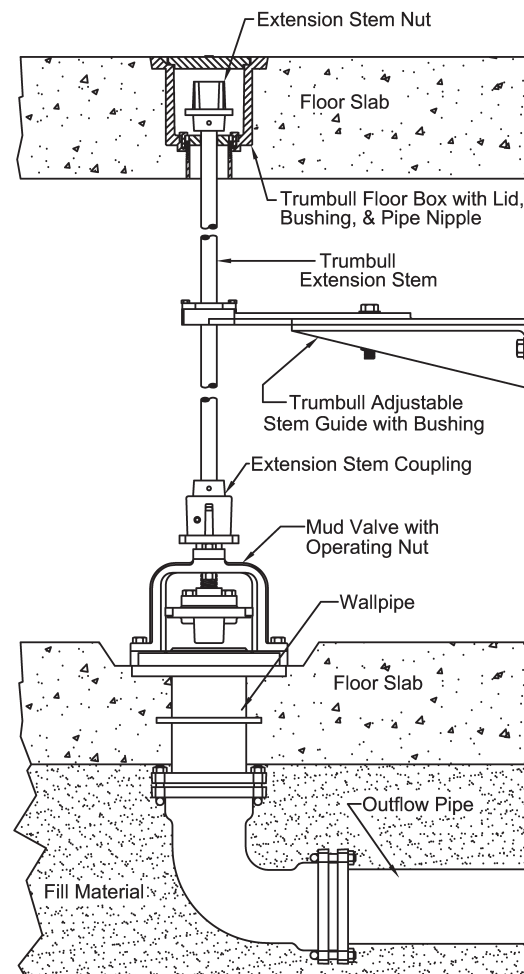
Trumbull cast iron Floor Boxes are designed for varying slab thicknesses. Overall length is 6", but the underside is tapped to accept 2-1/2" NPT steel pipe nipples for floors thicker than 6". When it's necessary to convert a Floor Box to thicker floors, use a 2-1/2" pipe nipple, 1/2" longer than the increase required, as the threads on the underside of the Floor Box are 1/2" deep. 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.

All Trumbull Floor Boxes 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.



Trumbull Item No.	Weight
367-4620	25.65 lbs.



Typical Floor Box installation

Bushings are also available in:

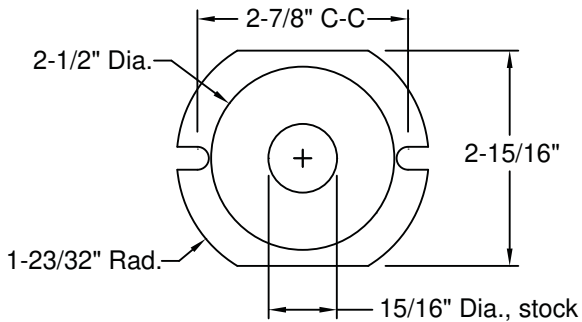
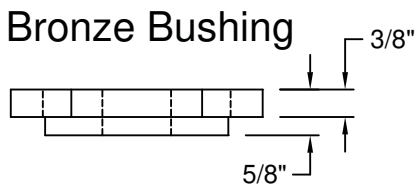
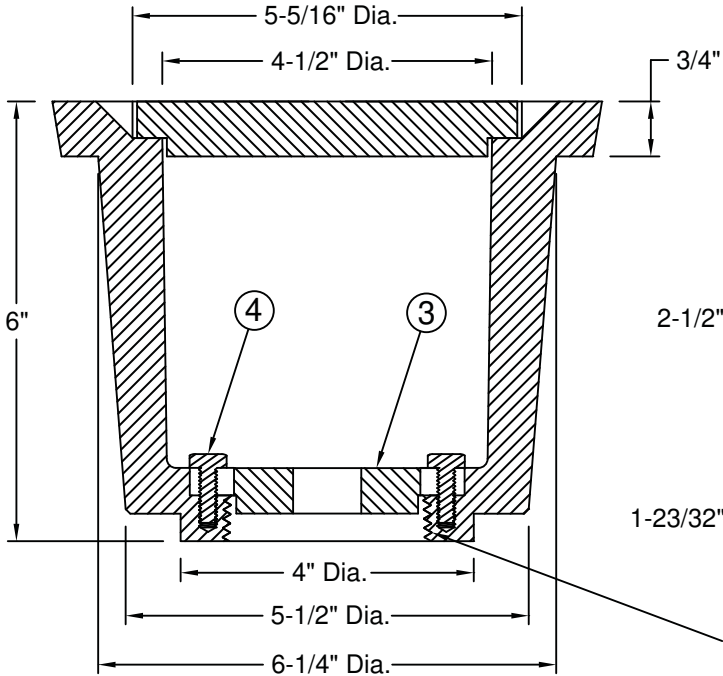
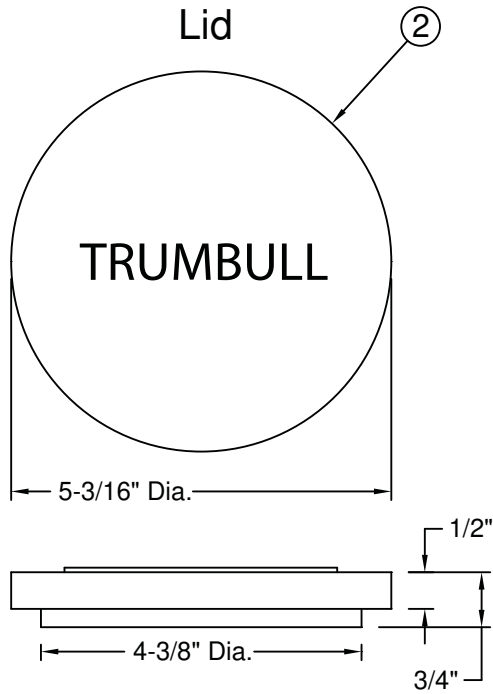
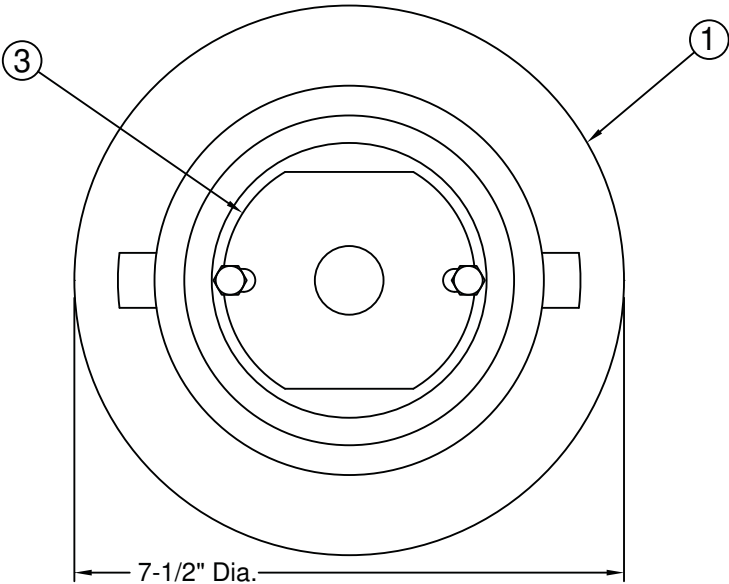
- No-lead brass, per C89833
- Ultra High Molecular Weight Polyethylene (UHMWPE)
- NSF 61 approved polymer (Ryton® R-4)

Ordering Instructions

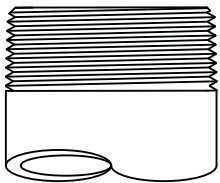
1. Quantity required
2. Thickness of floor slab, or length of pipe nipple required
3. O.D. of stem being used, or desired bushing material & hole size
4. Custom options available such as stainless steel construction, O-Ring lids, water-tight seals, tamper-resistant lids & anchoring collar

When a Valve Position Indicator is installed in a floor, use the cast iron **HOUSING ADAPTER** illustrated on pages F-1 to F-8, or the **SEALED FLOOR BOX** shown on pages G-13 and G-14.

Item	Component	Material
1	Body	Cast Iron, A126(B)
2	Lid	Cast Iron, A126(B)
3	Bushing	Bronze, B584
4	Screw, Hex Head	Stainless Steel, Type 316



The bottom of the Floor Box casting is tapped with a 2-1/2" N.P.T. 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 with black enamel rust preventative.

Drawn:	Drawing Revision:	
Date	Rev.	Date
4/4/94	J	04/07/2015

TRUMBULL INDUSTRIES

P.O. Box 1556
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Youngstown, Ohio 44501

Drawn to Scale
CAST IRON FLOOR BOX

TRUMBULL

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Sealed Floor Boxes

Available in Cast Stainless Steel & Carbon Steel

TRUMBULL SEALED FLOOR BOXES are ideal to prevent fluids from penetrating the floor slab from either direction. Top side is sealed by an 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 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.

Floor Boxes

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

* Carbon steel models are EDP coated.

Optional Accessories

Description	Trumbull Item No.	Weight
SS Packing Gland	spec/ord	2.10 lbs.
Brass Bushing	spec/ord	1.75 lbs.

See Pages F-7 and F-8 for Trumbull Valve Position Indicator installation in floors.

SOCKET HEAD CAP SCREWS

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

O-RING

Seals Floor Box at top of floor (furnished as standard)

OVERALL HEIGHT

11-1/8" with lid

Other Optional Accessories

PACKING GLAND

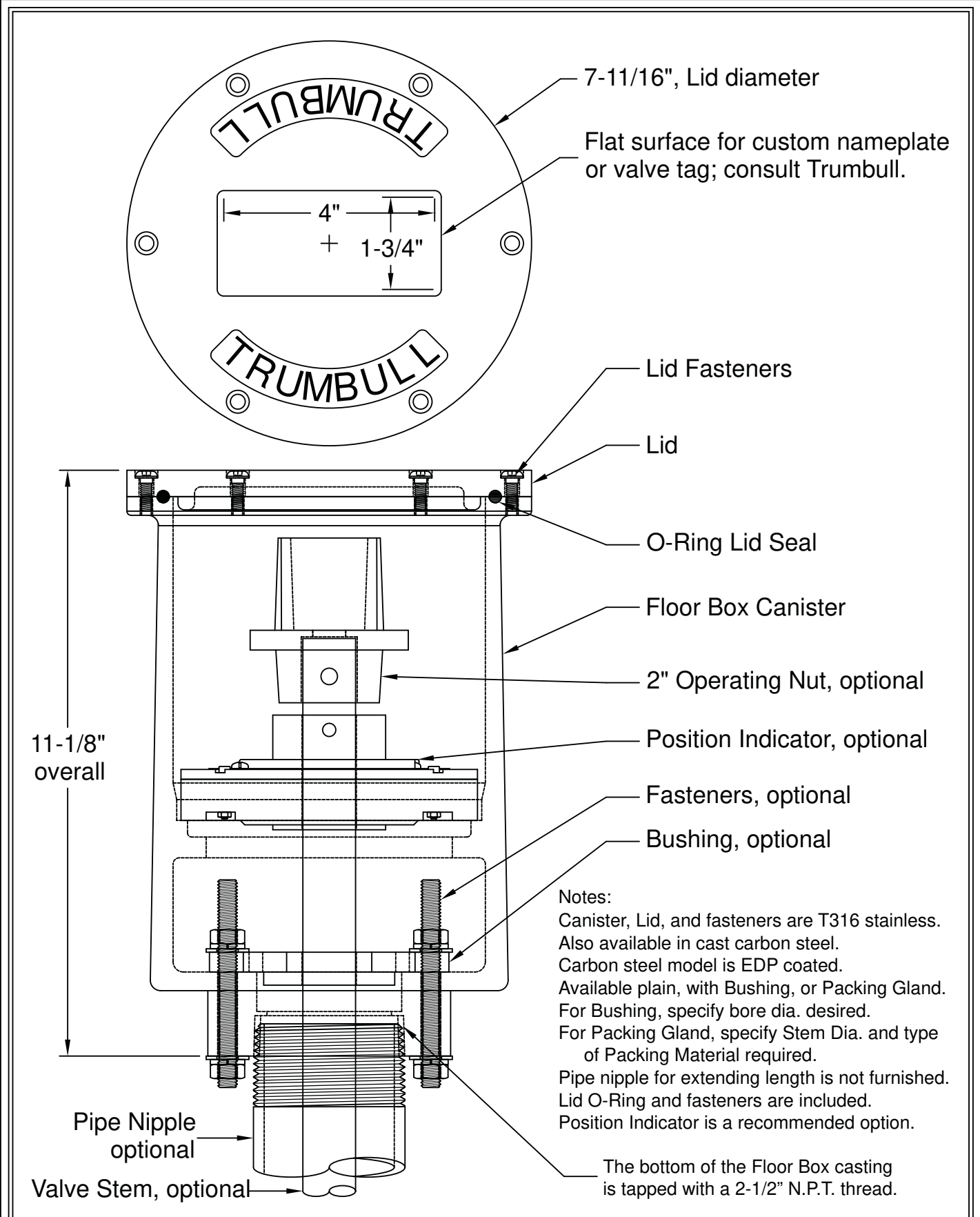
with stainless steel follower seals bottom of Floor Box

BRASS BUSHING

aligns extension stem when bottom seal is not utilized

POSITION INDICATOR

can be used with either brass bushing or packing gland



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Date	Rev.	Date
5/29/2014	C	04/25/2015

TRUMBULL INDUSTRIES

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Youngstown, Ohio 44501

Drawn to Scale
SEALED FLOOR BOX T316 STAINLESS STEEL

TRUMBULL

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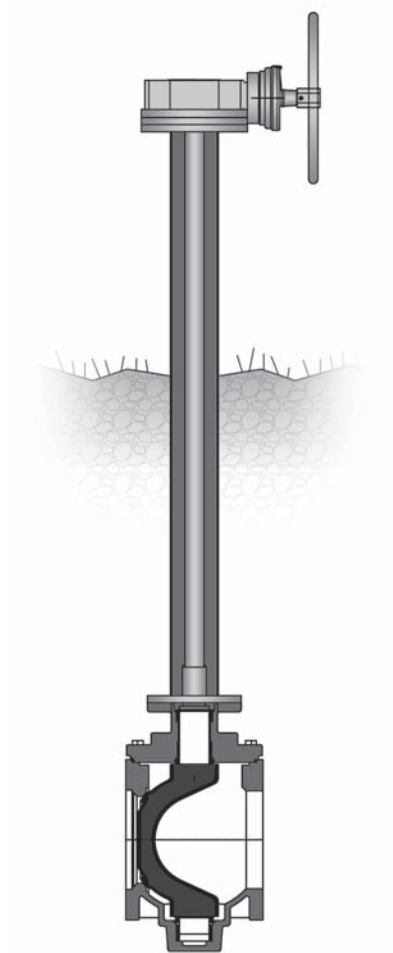
Extended Bonnets

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

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

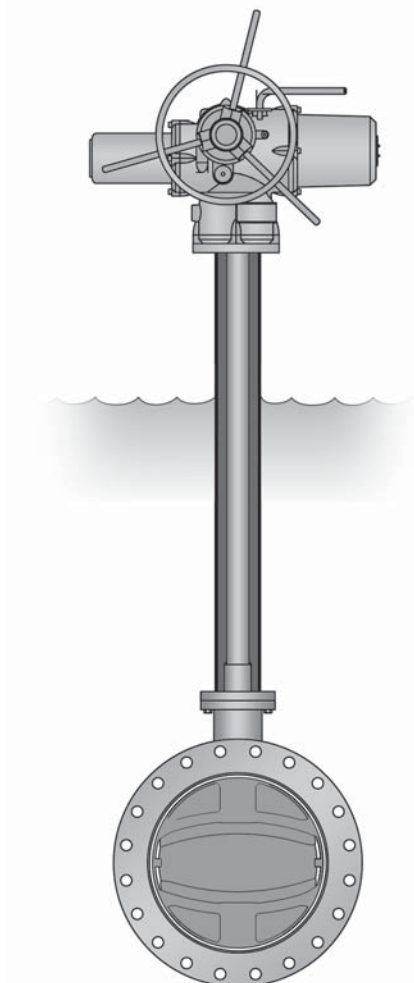
Buried Service

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 & operated from above the water level.



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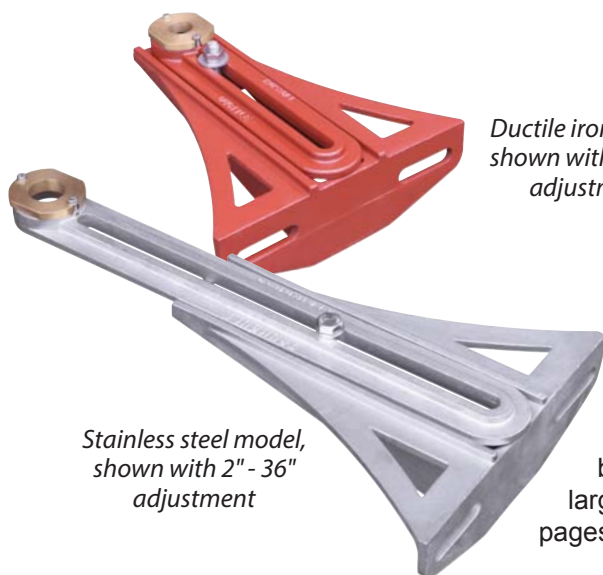
Adjustable Stem Guides

Ductile Iron or 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 Themec N140-1211 epoxy (complies with NSF 61). See reverse side for drawing.

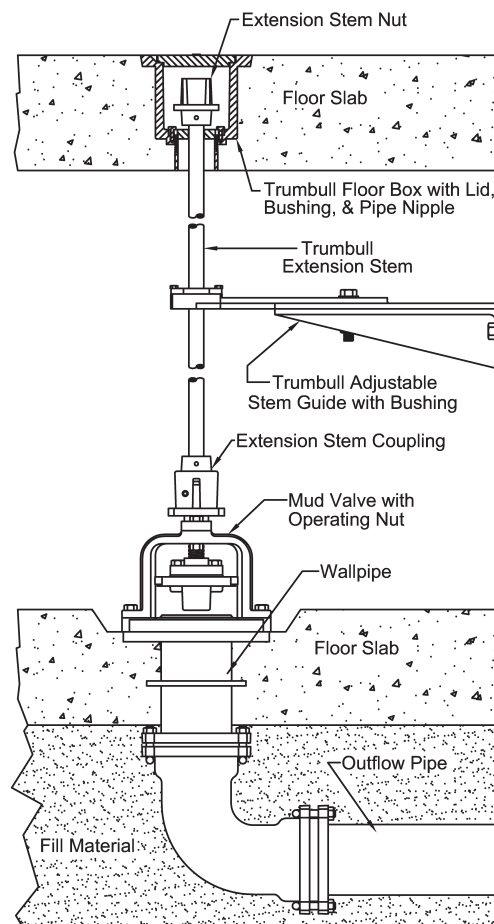
Adjustment Range	Ductile Iron		316 Stainless Steel	
	Trumbull Item No.	Weight	Trumbull Item No.	Weight
2" to 26"	367-4960	24.35 lbs.	367-5960	24.80 lbs.
2" to 36"	367-4970	27.90 lbs.	367-5970	28.70 lbs.
36" to 48"	367-4974*	38.00 lbs.	367-5974*	37.00 lbs.

* 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.



Ductile iron model, shown with 2" - 26" adjustment

Stainless steel model, shown with 2" - 36" adjustment



Typical Stem Guide installation

Stem Guides are generally recommended at 6' to 8' intervals. Bronze bushings can be drilled up to a 2-1/8" bore diameter for 2" O.D. stems. By removing the bushing larger stems can be accommodated, up to 2-3/8" O.D. See pages G-19 and G-20 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

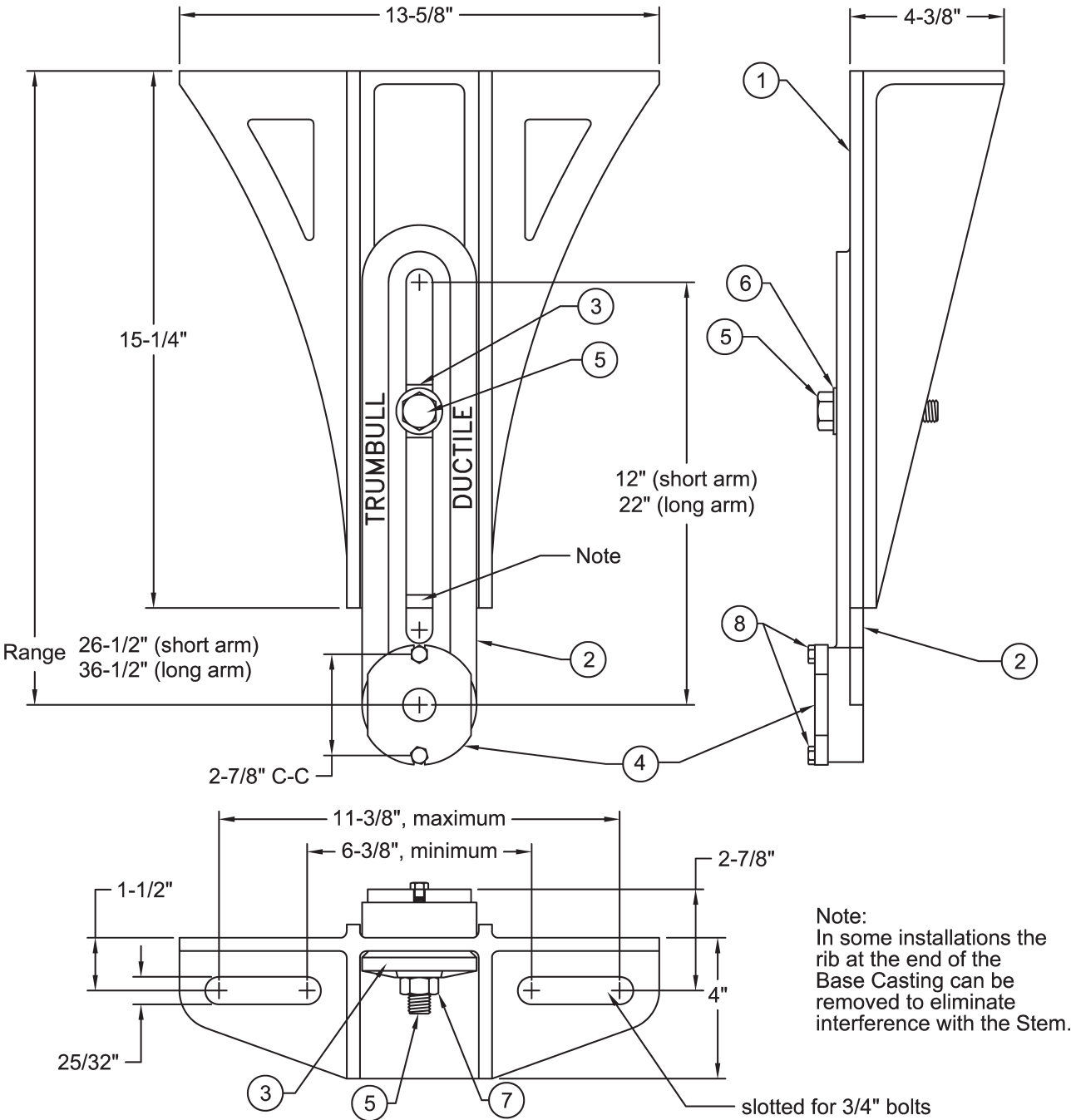
Bushings are also available in:

- No-lead brass, per C89833
- Ultra High Molecular Weight Polyethylene (UHMWPE)
- NSF 61 approved polymer (Ryton® R-4)

Item	Part	Material
1	Base	Ductile Iron or T316 Stainless Steel
2	Arm	Ductile Iron or T316 Stainless Steel
3	Clamp	Ductile Iron or T316 Stainless Steel
4	Bushing	Bronze
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 U.N.C., Stainless Steel

Item No.	Size	Weight
Ductile Iron Guides (65-45-12)		
367-4960	2"-26"	25#
367-4970	2"-36"	29#
Stainless Steel Guides (T316)		
367-5960	2"-26"	24#
367-5970	2"-36"	28#

All ductile iron components are coated with Tnemec N140-1211, NSF 61 compliant.



Drawn:	Drawing Revision:	TRUMBULL INDUSTRIES	Drawn to Scale
Date	Rev.	P.O. Box 1556	ADJUSTABLE STEM GUIDES
4/4/94	L	1040 N. Meridian Rd.	
		Youngstown, Ohio 44501	

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Adjustable Stem Guides

For LARGER Diameter Stems

TRUMBULL LARGE 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 of ductile Stem Guide; drawing of stainless Stem Guide available on request.

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

END CAP DESIGN
of ductile iron Stem Guide provides a safety restraint for large or unwieldy stems during installation or maintenance

USE 3/4" BOLTS
for mounting to wall,
on centers from
11-3/4" to 15-3/4"

SPLIT BUSHINGS
simplify the installation of large diameter extension stems

316 Stainless Steel Version

Ductile Iron

Trumbull Item No.	Adjustment Range	For Stem Diameters	Weight
367-6960	2-3/4" to 17-1/4" *	2" to 4"	38.65 lbs.
367-2454	2-3/4" to 17-1/4" *	4" to 6-1/2"	38.65 lbs.

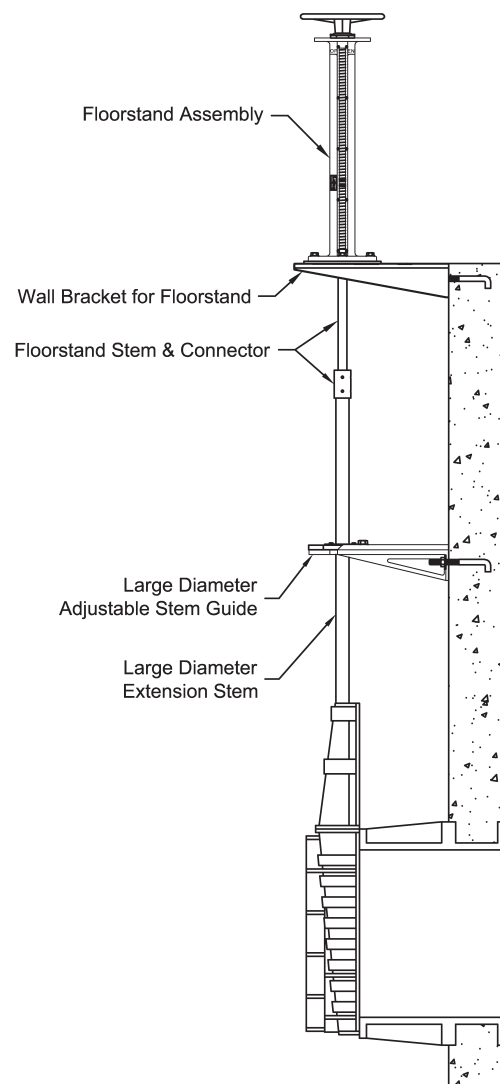
316 Stainless Steel

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

* Adjustment range dependent on stem diameter

Bushings are also available in:

- No-lead brass, per C89833
- Ultra High Molecular Weight Polyethylene (UHMWPE)
- NSF 61 approved polymer



Typical installation

Ordering Instructions

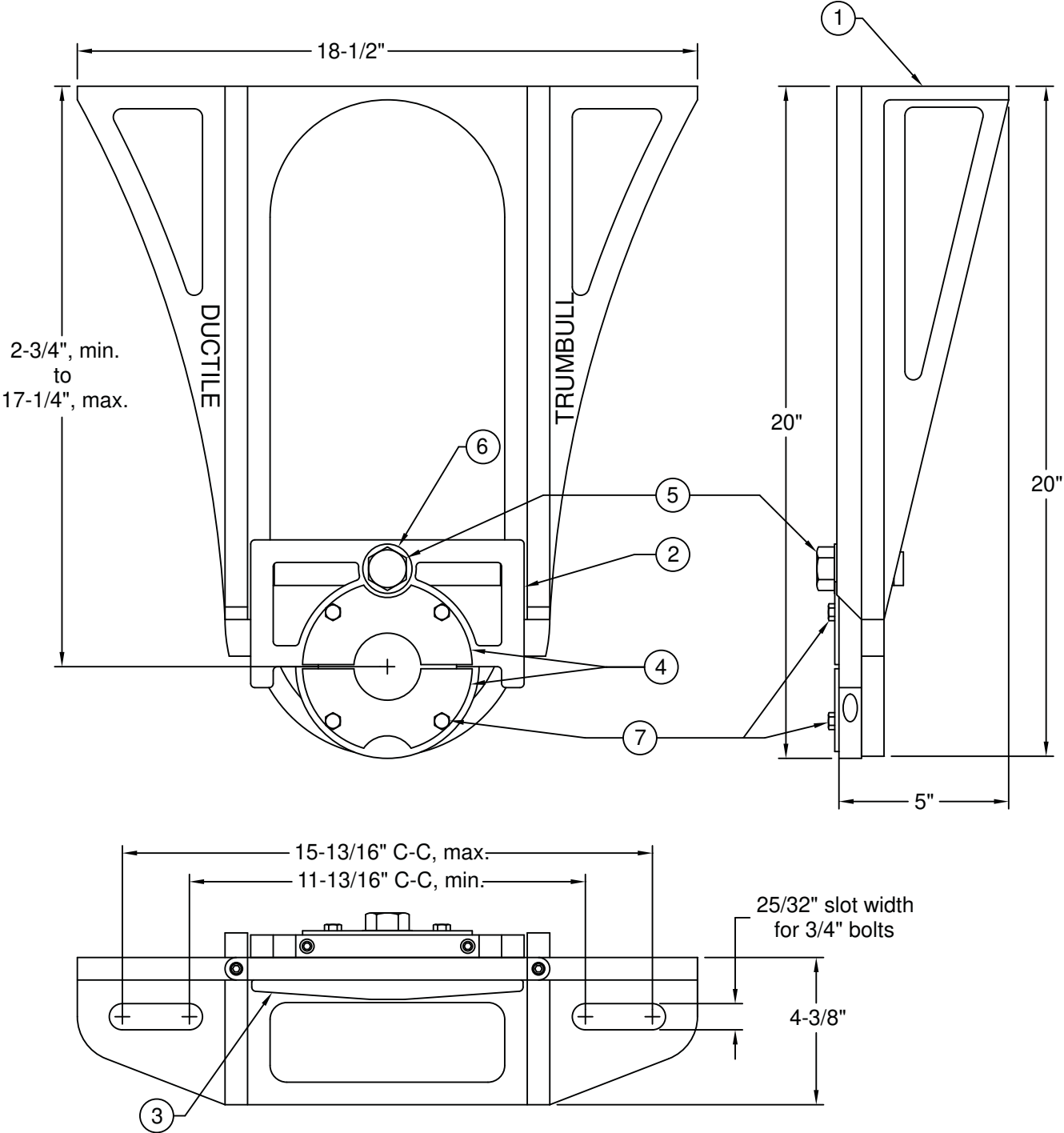
1. Quantity required
2. Trumbull item number
3. O.D. of stem being used, or desired bushing material & hole size

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 (optional materials available)
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 N140-1211, NSF 61 compliant.

Weight of assembly: 43#



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8/23/99	j	04/07/2015

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Drawn to Scale
LARGE BORE STEM GUIDE

TRUMBULL

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Cast Iron Mud Valves

Certified to NSF-61 & NSF-372 in U.S.A. & Canada

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

Mud valves are furnished with a 2" square operating nut; however, they can be supplied with optional extension stem or handwheel (see page G-4).

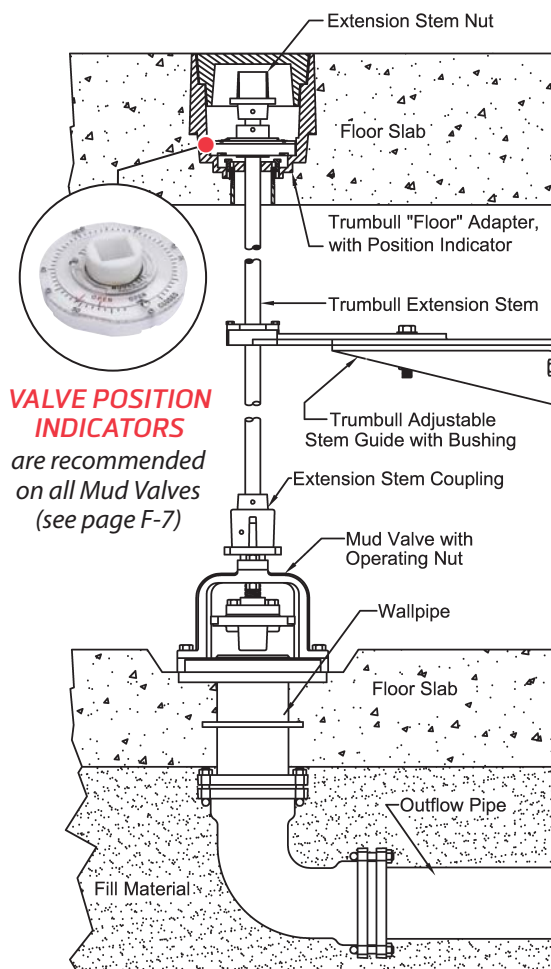
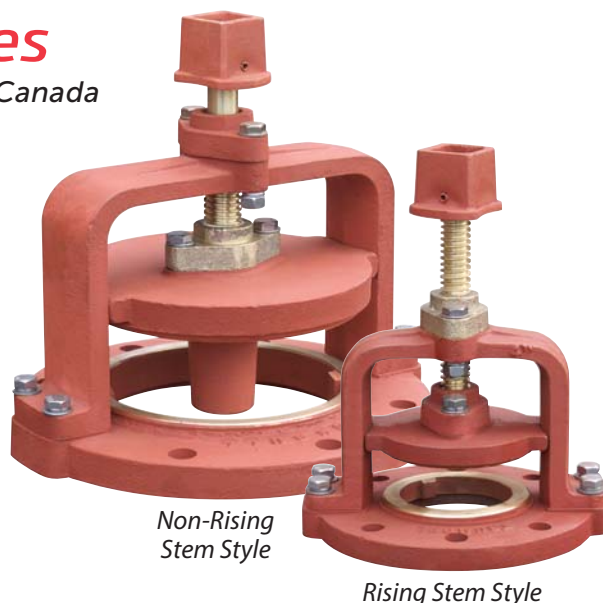
This valve series uses bronze seats in the body and gate (also available with resilient seat). The cast iron body assembly features manganese bronze stems and guides for use in submerged installations. The fasteners are furnished in stainless steel to prevent corrosion from years of submerged service.

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-22 and G-23 for drawings.

Note 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	
	Trumbull Item No.	Weight	Trumbull Item No.	Weight
4"	367-1310	31.00 lbs.	367-1330	30.00 lbs.
6"	367-1311	47.00 lbs.	367-1331	46.00 lbs.
8"	367-1312	76.00 lbs.	367-1332	73.00 lbs.
10"	367-1313	95.00 lbs.	367-1333	90.00 lbs.
12"	367-1314	130.00 lbs.	367-1334	130.00 lbs.
14"	367-1315	142.00 lbs.	Consult Trumbull for availability.	
16"	367-1316	169.00 lbs.		
18"	367-1317	256.00 lbs.		
20"	367-1318	281.00 lbs.		
24"	367-1319	450.00 lbs.		

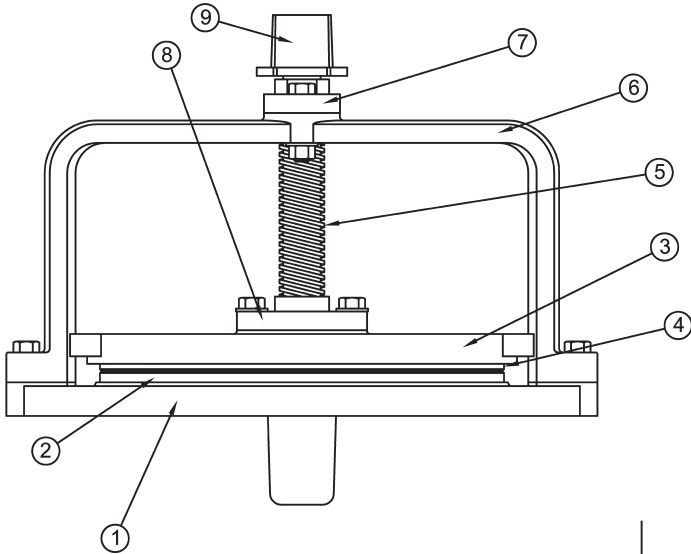
See page G-28 for installation options.



VALVE POSITION INDICATORS are recommended on all Mud Valves (see page F-7)

Typical Mud Valve Installation

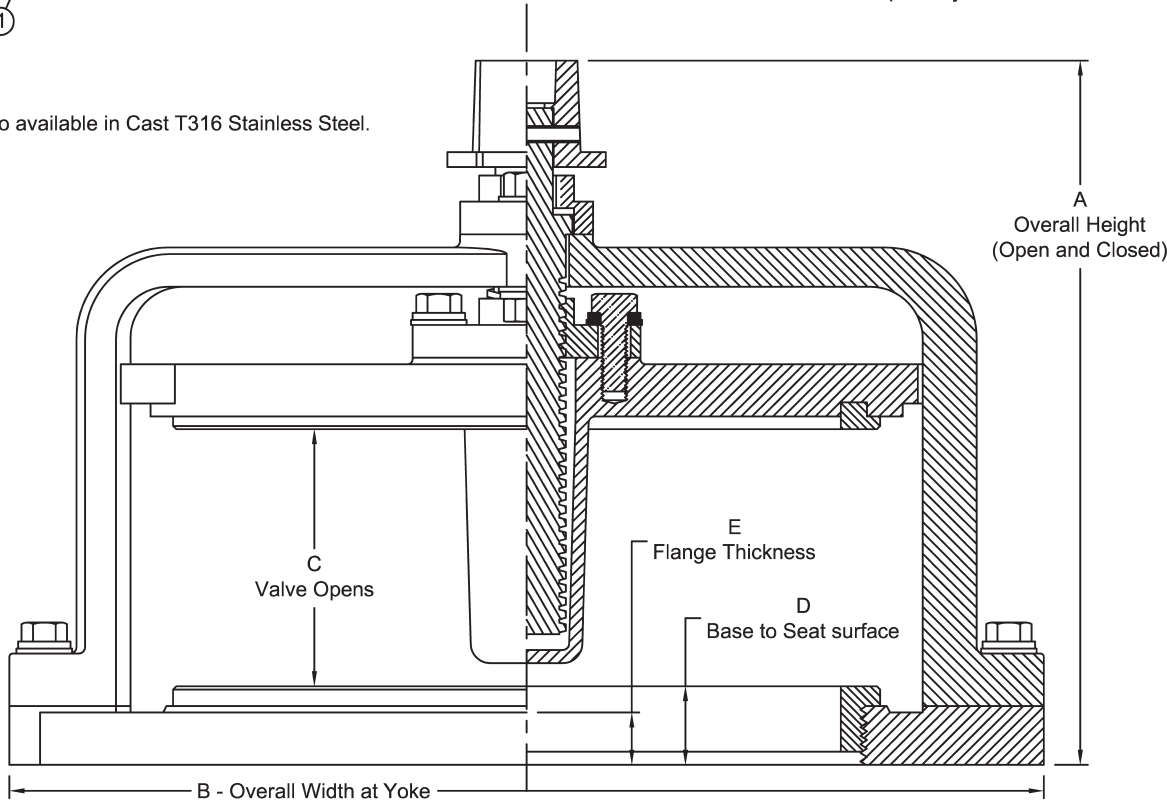
Valve Size (Bore Dia.)	4	6	8	10	12	14	16	18	20	24
A - Overall height	9-1/2	11-1/4	11-3/4	12-13/16	13	15	16-3/4	18-3/4	19-3/4	23-1/2
B - Width at Yoke	10	12-3/8	14-1/2	17	19-3/4	22-3/4	24-5/8	28-1/2	30-5/8	37
C - Valve opening	2	3-1/2	4	4-1/16	5	6-3/4	7-3/4	8-1/2	9-3/4	12-1/4
D - Basin depth in floor, min.	1-3/8	1-5/8	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	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.	9	11	13-1/2	16	19	21	23-1/2	25	27-1/2	32
Bolt Circle	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	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	3/4	3/4	7/8	7/8	1	1	1-1/8	1-1/8	1-1/4
Bolts in full Pattern *	8	8	8	12	12	12	16	16	20	20
Stem Diameter	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	11	17	20	21	25-1/2	34	40	43	49	63
Weight, pounds	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	Gray Iron, ASTM A126 (B)
4	Seat, Gate	Bronze, ASTM B62; B584
5	Stem	Bronze, ASTM B584
6	Yoke (4" thru 10")	Gray Iron, ASTM A126 (B)
6	Yoke (12" thru 24")	Ductile Iron, ASTM A536 (65-45-12)
7	Guide, unthreaded	Gray Iron, ASTM A126 (B)
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.
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.



Drawn:	Drawing Revision:	
Date	Rev.	Date
6/28/94	P	12/08/10

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P.O. Box 1556		
1040 N. Meridian Rd.		
Youngstown, Ohio 44501		

Drawn to Scale
MUD VALVES - CAST IRON NON-RISING STEM TYPE

Valve Size (Bore Dia.)	4	6	8	10	12	14	16**	18**	20**	24**
A - Overall height, closed	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	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	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	2-1/8	3-3/8	4	4	5	7	8	9	10	12
D - Basin depth in floor, min.	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	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.	9	11	13-1/2	16	19	21	23-1/2	25	27-1/2	32
Bolt Circle	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	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	3/4	3/4	7/8	7/8	1	1	1-1/8	1-1/8	1-1/4
Bolts in full Pattern *	8	8	8	12	12	12	16	16	20	20
Stem Diameter	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	11	17	20-1/2	20	25	35	40	45	50	60
Weight, pounds	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.

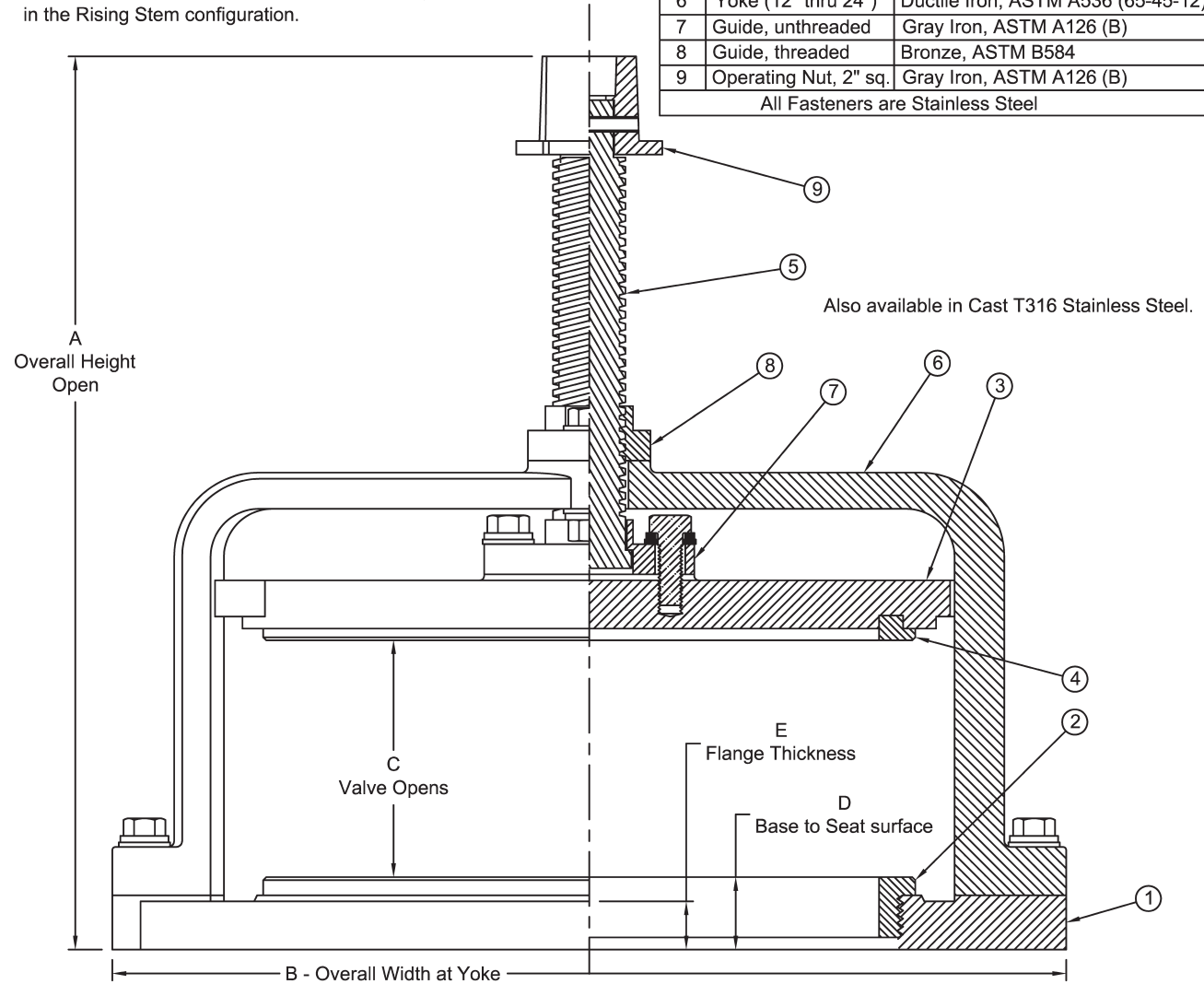
All cast iron surfaces, except machined surfaces, to be finished with NSF61 (TNEMEC 140-1211) coating.

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	Gray Iron, ASTM A126 (B)
4	Seat, Gate	Bronze, ASTM B62; B584
5	Stem	Bronze, ASTM B584
6	Yoke (4" thru 10")	Gray Iron, ASTM A126 (B)
6	Yoke (12" thru 24")	Ductile Iron, ASTM A536 (65-45-12)
7	Guide, unthreaded	Gray Iron, ASTM A126 (B)
8	Guide, threaded	Bronze, ASTM B584
9	Operating Nut, 2" sq.	Gray Iron, ASTM A126 (B)

All Fasteners are Stainless Steel



Drawn:	Drawing Revision:	TRUMBULL INDUSTRIES P.O. Box 1556 1040 N. Meridian Rd. Youngstown, Ohio 44501	Drawn to Scale
Date 6/28/94	Rev. P Date 12/08/10		MUD VALVES - CAST IRON RISING STEM TYPE

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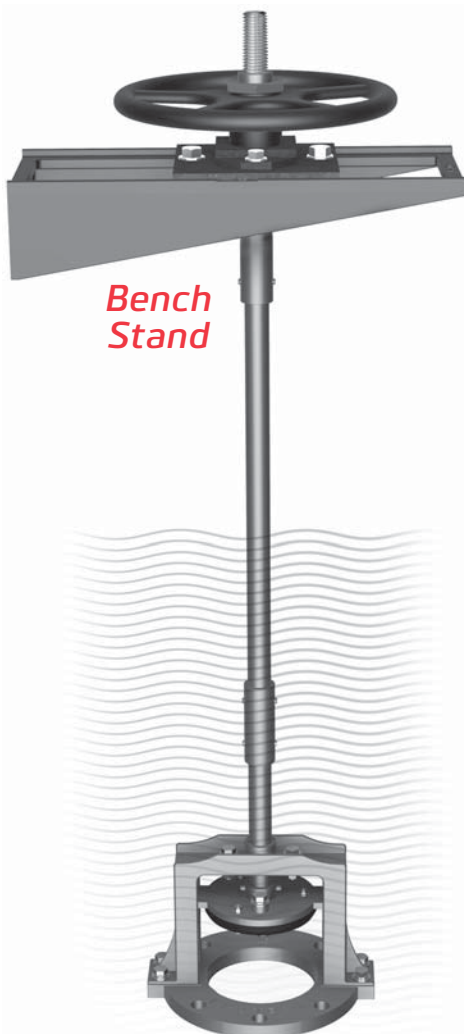
1040 N. Meridian Rd.

P.O. Box 1556

Youngstown, Ohio 44501

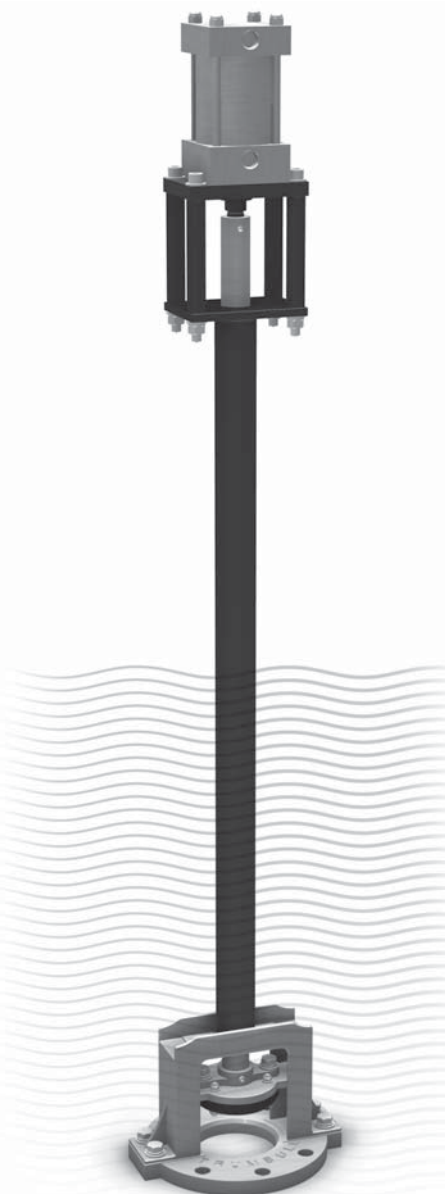
www.trumbull-mfg.com

Other Adaptations for Mud Valves



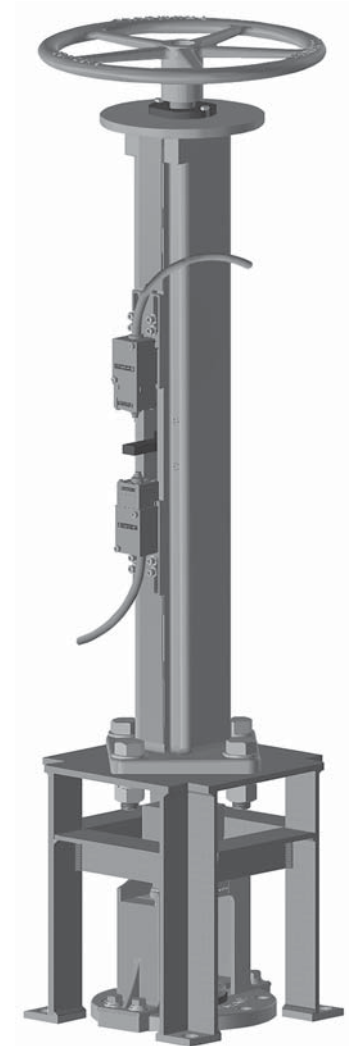
Sliding Stem Mud Valve

Available when desirable
to keep operating threads
out of the water.



Stainless Steel Mud Valve Extended Bonnet with Pneumatic Cylinder

For remote operation.



Floorstand with Limit Switches

For remote indication
of valve position.

TRUMBULL

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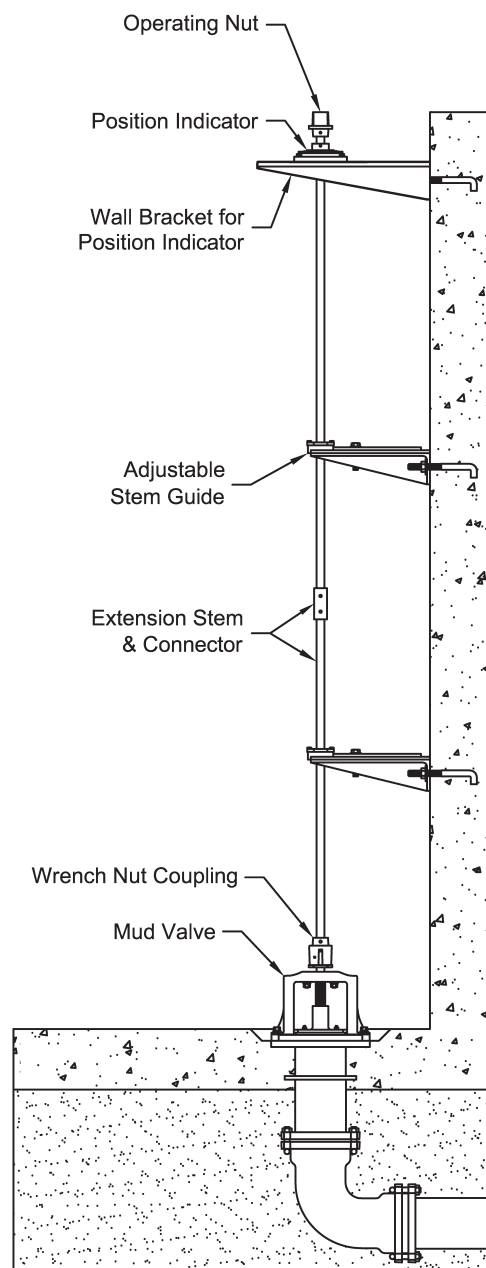
Cast 316 Stainless Steel Mud Valves

Heavy-Duty Design – Certified to NSF-61 & NSF-372 in U.S.A. & Canada

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

Due to the corrosive applications in which Mud Valves are used, the yoke, flange, guides and gate 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-26 and G-27 for drawings.

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



Typical Mud Valve Installation

Size	Non-Rising Stem		Rising Stem	
	Domestic	Non-Domestic	Domestic	Non-Domestic
4"	1367-1350	367-1350*	1367-1370*	367-1370
6"	1367-1351	367-1351*	1367-1371*	367-1371
8"	1367-1352	367-1352*	1367-1372*	367-1372
10"	1367-1353	367-1353*	1367-1373*	367-1373
12"	1367-1354	367-1354*	1367-1374*	367-1374
14"	spec/ord	367-1355	* Consult Trumbull for availability.	
16"	spec/ord	367-1356		
18"	spec/ord	367-1357		
20"	spec/ord	367-1358		
24"	spec/ord	367-1359		

See pages G-26 and G-27 for weights.
Also, see page G-28 for installation options.

Position Indicators

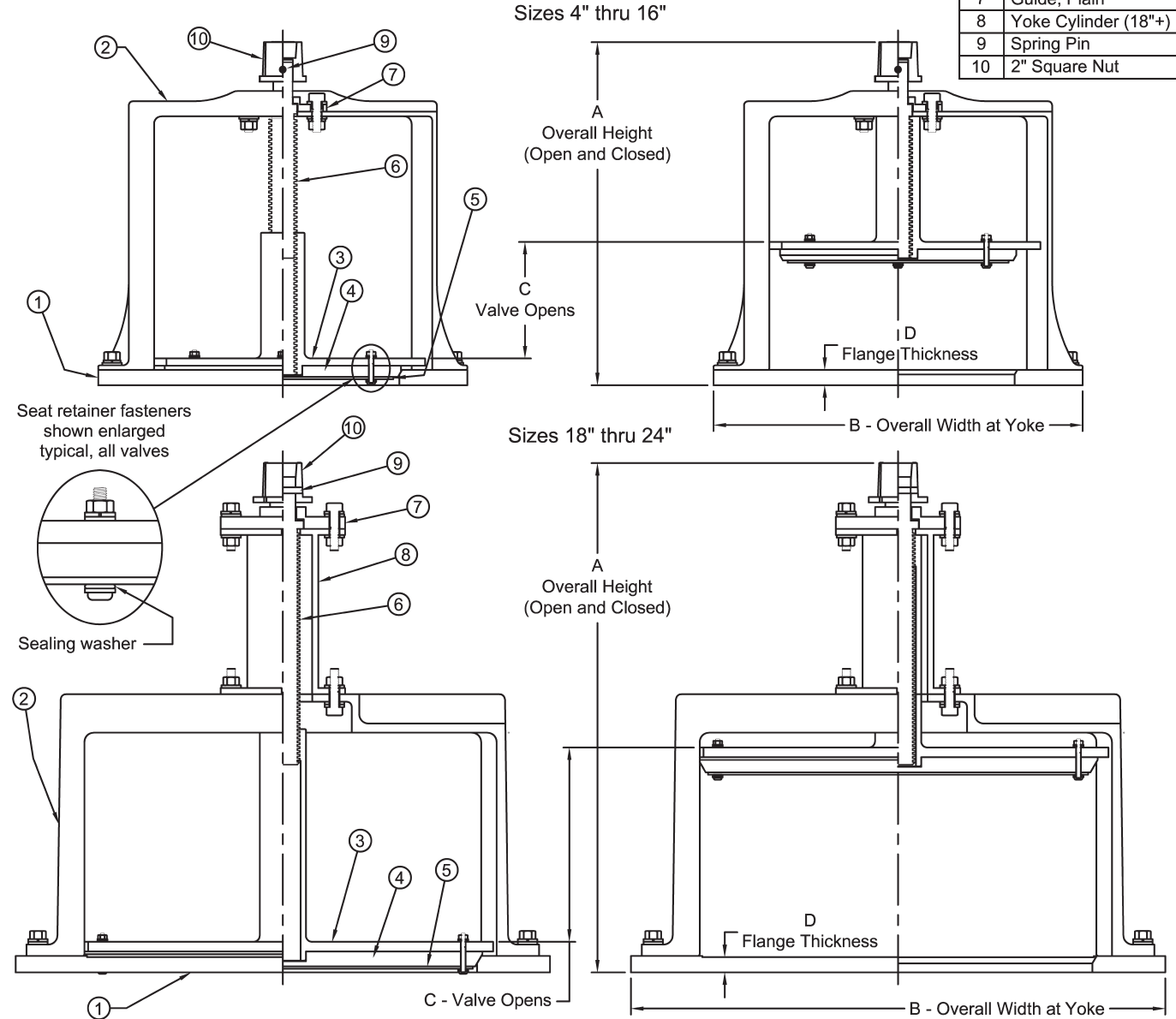
Recommended
on all Mud Valves
(see page F-9)



Valve Size (Bore Dia.)	4	6	8	10	12	16	18	20	24
A - Overall height	8	10-1/2	12-1/2	14-1/2	17	21-1/4	23	25-3/4	34-5/8
B - Width at Yoke	10-1/4	12-5/8	15-1/8	17-3/8	19	25-3/4	27-3/4	27-1/2	32
C - Valve opening	1-3/4	2-3/4	3-1/2	4-3/4	6	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
Flange O.D.	9	11	13-1/2	16	19	23-1/2	25	27-1/2	32
Bolt Circle Diameter	7.50	9.50	11.75	14.25	17.00	21.25	22.75	25.00	29.5
Bolt Hole Dia.	3/4	7/8	7/8	1	1	1-1/8	1-1/4	1-1/4	1-3/8
Bolt / Stud Size	5/8	3/4	3/4	7/8	7/8	1	1-1/8	1-1/8	1-1/4
Bolts in full Pattern*	8	8	8	12	12	16	16	20	20
Stem Diameter	1-1/4	1-1/4	1-1/2	1-1/2	1-1/2	1-1/2	1-3/4	1-3/4	1-3/4
Turns to Open	9	15-1/2	20	26	30	20-1/2	23	48-1/2	60
Weight, pounds	24-1/2	33-1/2	48	65	88	142	186	206	230

* 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.

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



Drawn:	Drawing Revision:	TRUMBULL INDUSTRIES P.O. Box 1556 1040 N. Meridian Rd. Youngstown, Ohio 44501	Drawn to Scale
Date	Rev. Date		MUD VALVES - T316SS
7/24/07	E 11/11/2013		NON-RISING STEM TYPE

Valve Size (Bore Dia.)	4	6	8	10	12	16**	18**	20**	Part	Description
A - Overall height, closed	8-3/4	10-1/2	12-1/2	14	17	23	18	18	1	Base Flange (Body)
A - Overall height, open	11-1/2	16	19-1/4	22-3/4	28-1/2	38-1/4	27	28	2	Yoke
B - Width at Yoke	10-1/4	12-5/8	15-1/8	17-3/8	19	25-3/4	27-3/4	27-1/2	3	Gate
C - Valve opening	2-1/4	5	7	8-1/4	11-1/2	15-1/8	9	10	4	Seat
D - Flange thickness	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5	Seat Retainer
Flange O.D.	9	11	13-1/2	16	19	23-1/2	25	27-1/2	6	Stem
Bolt Circle Diameter	7.50	9.50	11.75	14.25	17.00	21.25	22.75	25.00	7	Guide, Plain
Bolt Hole Dia.	3/4	7/8	7/8	1	1	1-1/8	1-1/4	1-1/4	8	Yoke Cylinder (18"+)
Bolt / Stud Size	5/8	3/4	3/4	7/8	7/8	1	1-1/8	1-1/8	9	Gate Cap (18"+)
Bolts in full Pattern*	8	8	8	12	12	16	16	20	10	Spring Pin
Stem Diameter	1-1/4	1-1/4	1-1/2	1-1/2	1-1/2	1-1/2	1-3/4	1-3/4	11	2" Square Nut
Turns to Open	13-1/2	26-1/2	30-1/2	36-1/2	50-1/2	75-1/2	45	50		
Weight, pounds	25	34	48	59	78	xx	xx	xx		

* 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.

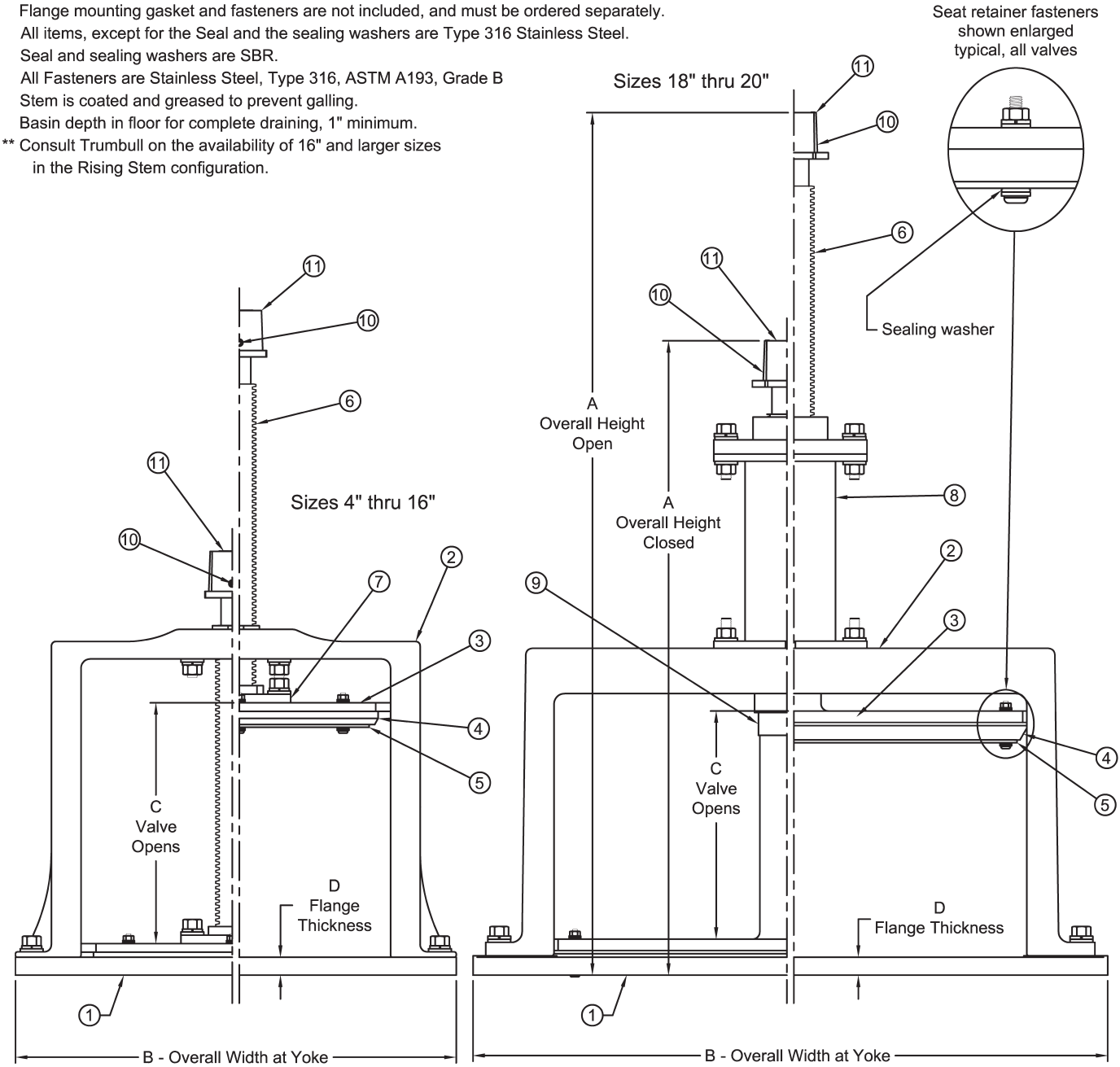
Seal and sealing washers are SBR.

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.



Drawn:	Drawing Revision:	
Date	Rev.	Date
7/24/07	C	02/18/2013

TRUMBULL INDUSTRIES

P.O. Box 1556
1040 N. Meridian Rd.
Youngstown, Ohio 44501

Drawn to Scale

**MUD VALVES - T316SS
RISING STEM TYPE**

TRUMBULL

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Fax: 330.392.0756 Youngstown, Ohio 44501

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Optional Mud Valve Installations

Standard options are shown on right

Mud Valve: Cast iron or cast 316 stainless steel

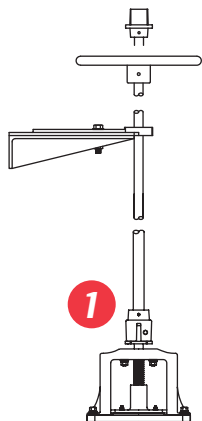
Stem Guide: Ductile iron or cast 316 stainless steel

Floorstand: Ductile iron (30" or 36") or cast 316 SS (36")

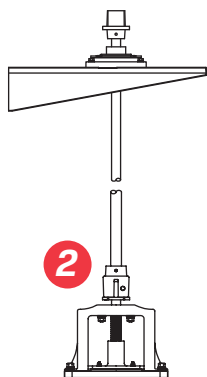
Extension Stem: Carbon steel or stainless steel

Wall Bracket: Ductile iron or cast 316 stainless steel

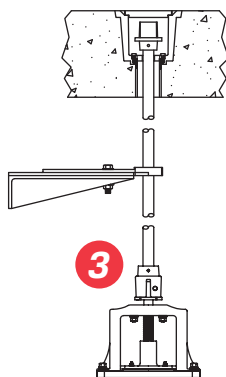
Floor Box: Sealed or unsealed, cast iron or cast SS



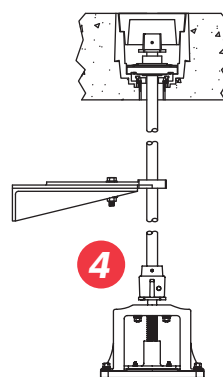
1
Stem Guide
with Handwheel
or 2" square nut



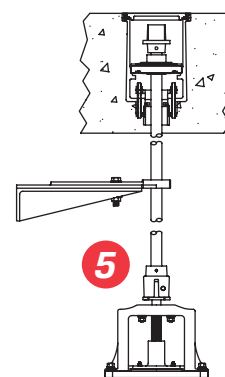
2
Wall Bracket with
Position Indicator



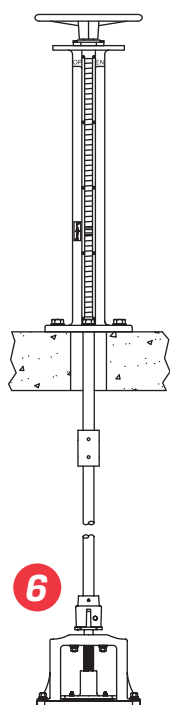
3
Floor Box w/out
Position Indicator



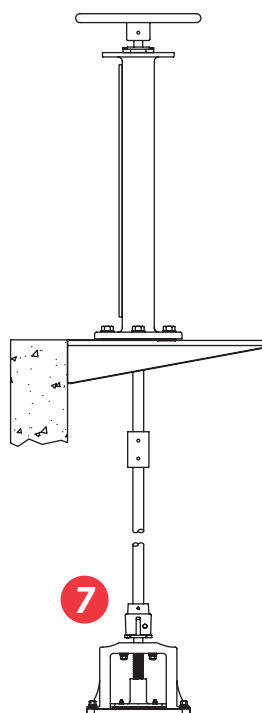
4
Floor Box with
Position Indicator



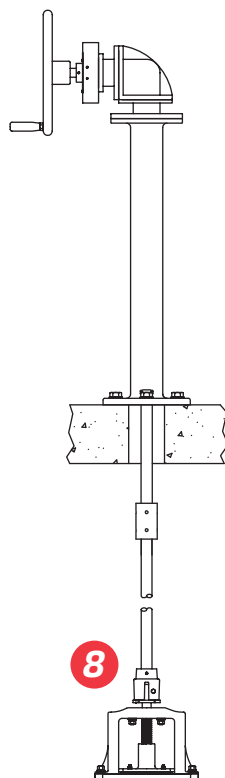
5
Cast Sealed
Floor Box with
Position Indicator



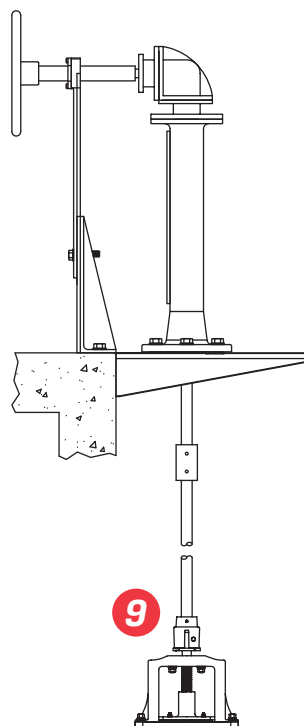
6
Indicating
Floorstand



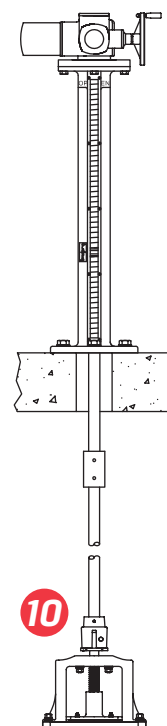
7
Indicating Floorstand
with Wall Bracket*



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 & 9.

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Floor-Type Hydrostatic Tank Pressure Relief Valves (PRV's)

QUADROSEAL Design - Ductile Iron & Type 316 Cast Stainless Steel

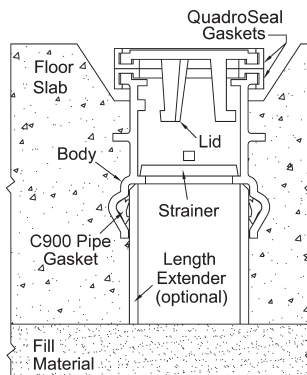
TRUMBULL FLOOR TYPE TANK PRESSURE RELIEF VALVES

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 & 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.

Improved design uses C900 pipe gaskets in bell to securely retain PVC pipe to valve.



Floor-Type PRV's

Available in both high-strength ductile iron and type 316 cast stainless steel models.*

Size	Ductile Iron**		316 Stainless Steel	
	Domestic	Non-Domestic	Domestic	Non-Domestic
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-30.

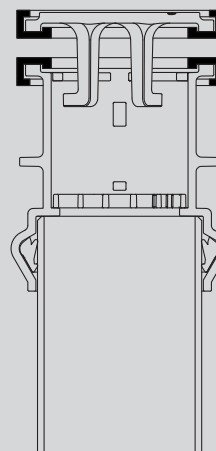
** Furnished with NSF-61, 2 part epoxy coating.

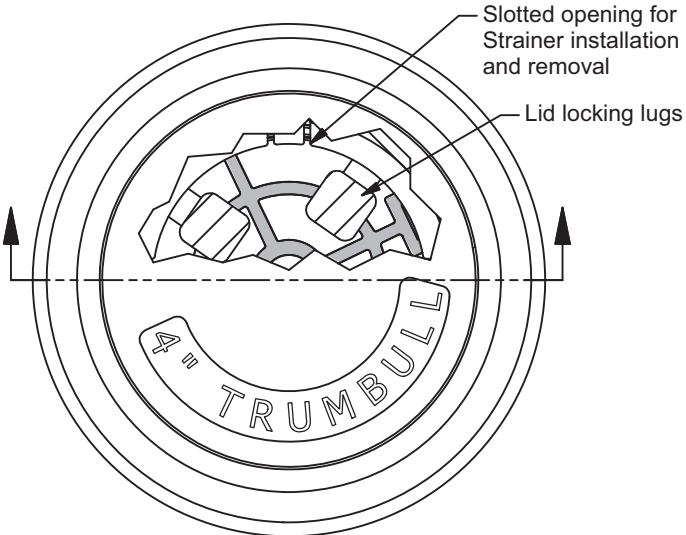
Floor type valves are cast in 4" and 6" sizes, in overall lengths of approx. 7-3/4". The lengths can be extended by inserting C900 PVC pipe into the underside of the valve. The PVC extensions can be furnished and inserted by Trumbull, to customer's exact length requirements, or in the field with customer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

QUADROSEAL
gaskets

Unique square design of QuadroSeal Gasket **SURROUNDS CASTING ON 4 SIDES** to prevent separation.

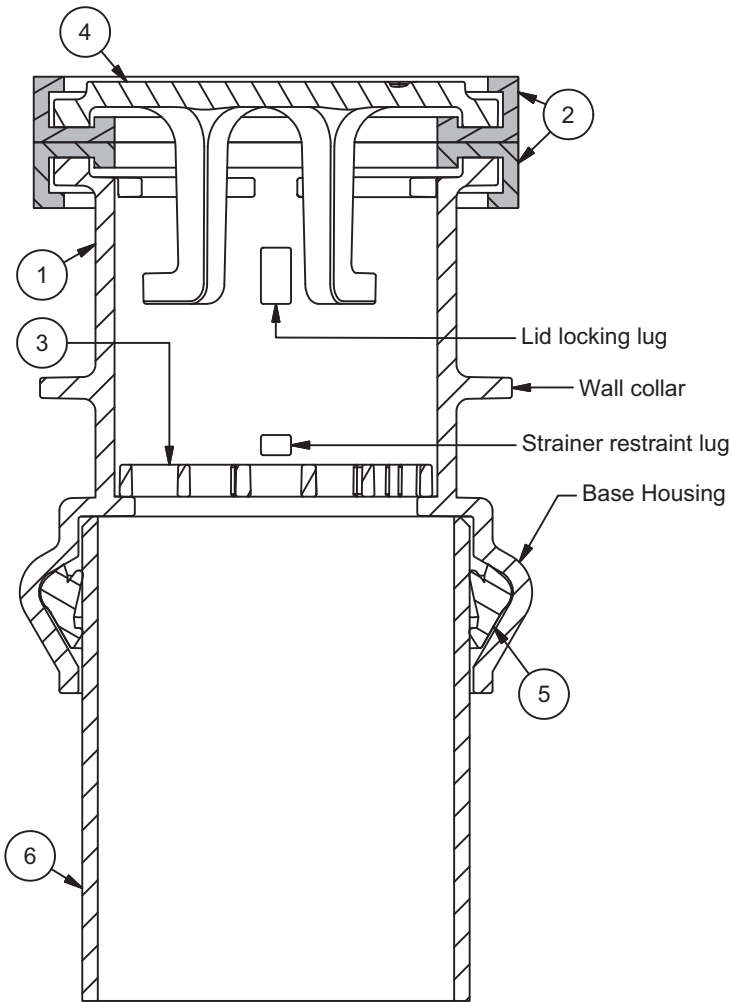
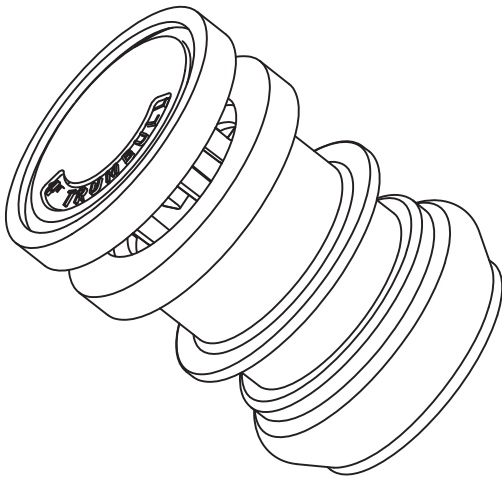
QuadroSeal design also prevents metal-to-metal contact that can cause seating surfaces of iron valves to corrode into a "frozen shut" position. See page G-33 for more information.





ITEM	DESCRIPTION	MATERIAL
1	Valve Body	Stainless Steel (T316) or Ductile Iron (65-45-12)
2	QuadroSeal Seat	Neoprene (50 durometer)
3	Strainer	Stainless Steel (T316) or Ductile Iron (65-45-12)
4	Lid	Stainless Steel (T316) or Ductile Iron (65-45-12)
5	C900 Pipe 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	367-1558	12.0 lb
4"	SS	367-1540	13.0 lb
6"	DI	367-1559	22.0 lb
6"	SS	367-1544	22.0 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

Drawn:	Drawing Revision:	TRUMBULL INDUSTRIES P.O. Box 1556 1040 N. Meridian Rd. Youngstown, Ohio 44501	Drawn to Scale	
Date	Rev.		TANK PRESSURE RELIEF VALVE FLOOR TYPE	
1/7/2013	--			

TRUMBULL

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www.trumbull-mfg.com

Wall-Type Hydrostatic Tank Pressure Relief Valves (PRV's)

QUADROSEAL Design - Ductile Iron & Type 316 Cast 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 PRV's

Available in both high-strength ductile iron and type 316 cast stainless steel models.*

Size	Ductile Iron**		316 Stainless Steel	
	Domestic	Non-Domestic	Domestic	Non-Domestic
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-32.

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

QUADROSEAL
gaskets

Unique square design of QuadroSeal Gasket **SURROUNDS CASTING ON 4 SIDES** to prevent separation. This 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-33 for more information.

Wallpipes

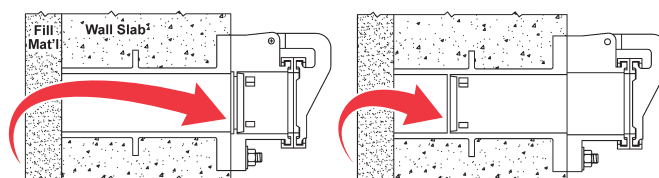
Wallpipes are 18" long (overall) with a collar 6" from the face of the flange; they can be furnished cut-to-length to meet your requirements. The flange is tapped for studs to allow the flange on the wall pipe to be set flush with the wall. No flange accessories will be furnished unless ordered separately. 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	
	Trumbull Item No.	Weight
4"	367-1000	33.50 lbs.
6"	367-1002	68.50 lbs.

NOTE:

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

Importance of Strainer Location:



Strainer in **TRUMBULL** valve is easily accessed for maintenance

Strainer installation of other designs

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.

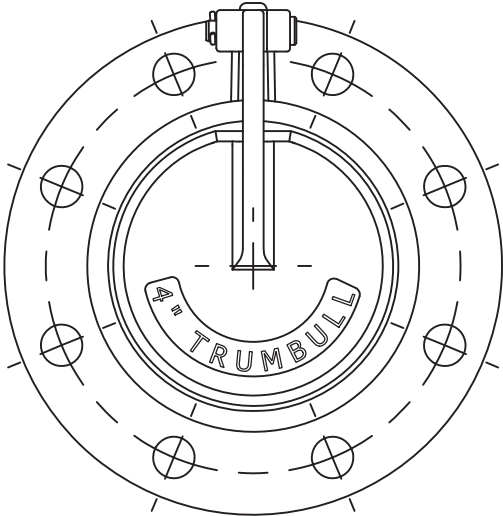
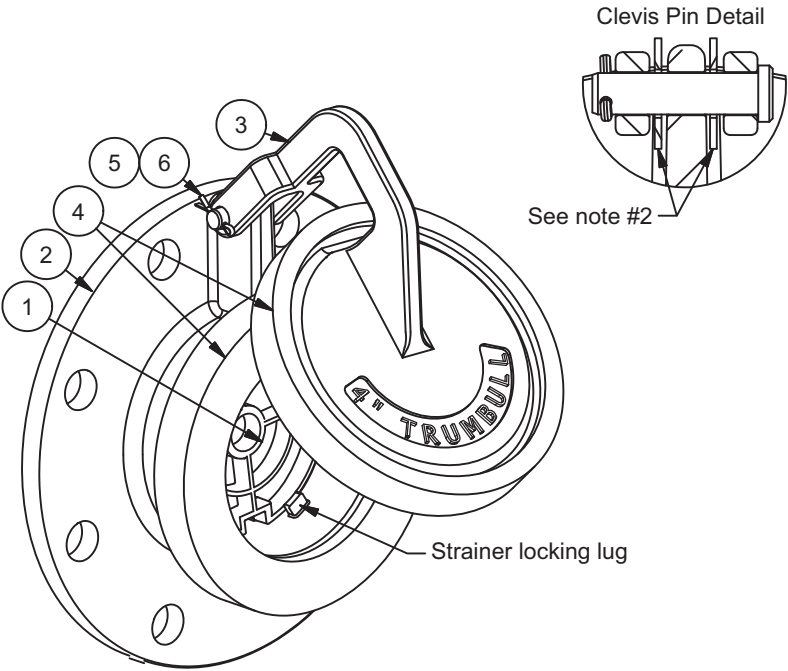
Wall Type, Pressure Relief Valve
Flange drilling per ANSI 125#

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 (50 durometer)
5	Clevis Pin	Stainless Steel
6	Cotter Pin	Stainless Steel

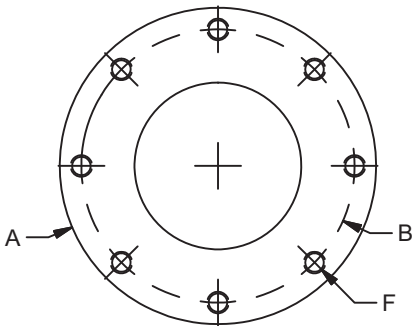
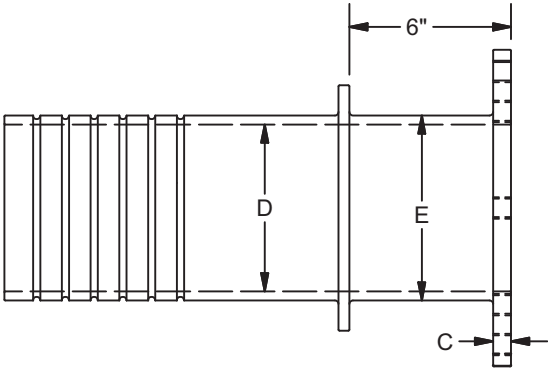
Size	Material	Part Number	Weight
4"	DI	367-1572	12.00 lb
4"	SS	367-1560	13.00 lb
6"	DI	367-1573	20.00 lb
6"	SS	367-1564	22.00 lb

- Note:**
- 1.) Ductile Iron components are coated with Tnemec N140-1211 epoxy (complies with NSF 61).
- 2.) Ductile Iron valves have Isolating washers made of UHMWPE installed on the Clevis pin between the lid and body, preventing metal to metal contact.



Size	Trumbull #	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	34 lbs
6"	367-1002	11"	9-1/2"	5/8"	6.3"	6.9"	3/4"-10 UNC	47 lbs

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



Drawn:	Drawing Revision:	TRUMBULL INDUSTRIES P.O. Box 1556 1040 N. Meridian Rd. Youngstown, Ohio 44501	Drawn to Scale	
Date	Rev.		TANK PRESSURE RELIEF VALVE WALL TYPE	
1/7/2013	A			
	Date			
	2/16/2014			

TRUMBULL

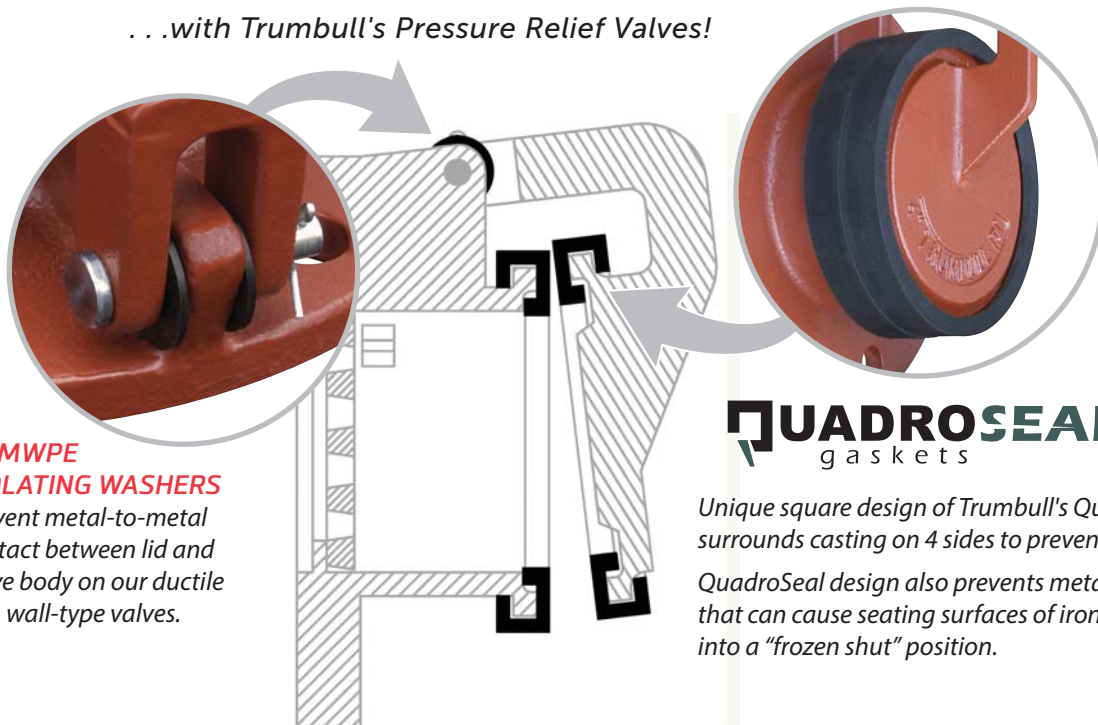
TRUMBULL INDUSTRIES, INC.

Phone: 330.799.3333 | 1040 N. Meridian Rd.
Toll Free: 800.677.1799 | P.O. Box 1556
Fax: 330.392.0756 | Youngstown, Ohio 44501

www.trumbull-mfg.com

No Metal-to-Metal Contact

...with Trumbull's 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's 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.

Compare... to see why Trumbull is the BEST CHOICE!

**Trumbull
Wall-Type
PRV**



with
QUADROSEAL
gaskets

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

**Alternate Design
Wall-Type PRV**

(as removed from service)

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

Valve after being pried open.

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



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A Note About Strainers in Hydrostatic Tank PRV's

Hello!

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

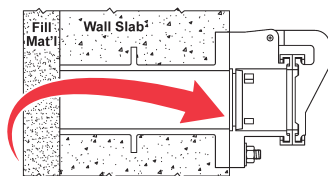
MY JOB IS TO KEEP ROCK OR GRAVEL FROM THE TANK EXTERIOR FROM INTERFERING WITH THE SEATING SURFACE. BUT YOU MUST REMOVE AND CLEAN ME PERIODICALLY. OTHERWISE, THE VALVE CAN GET PLUGGED UP AND THE GROUNDWATER WON'T BE ABLE TO FIND ITS WAY THROUGH THE VALVE INTO THE TANK. IF THAT HAPPENS, THE PRESSURE RELIEF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

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

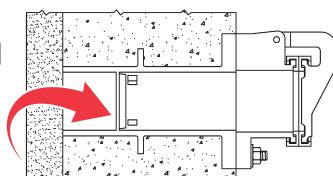
I WISH THE ENGINEERS THAT DESIGNED **THIS PLANT** WOULD HAVE USED VALVES THAT ARE EASIER TO MAINTAIN. I REALLY LIKE FIELD REPLACEABLE GASKETS THAT SURROUND THE BODY AND COVER, PREVENTING SEPARATION FROM THE VALVE. PLUS, THOSE SOFT RESILIENT GASKETS ALLOW A BETTER SHUTOFF ON SAND, SILT AND FINE GRAVEL,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



Importance of Strainer Location:



Strainer in **TRUMBULL** valve is easily accessed for maintenance



Strainer installation of other designs

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!

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Telescoping Valves

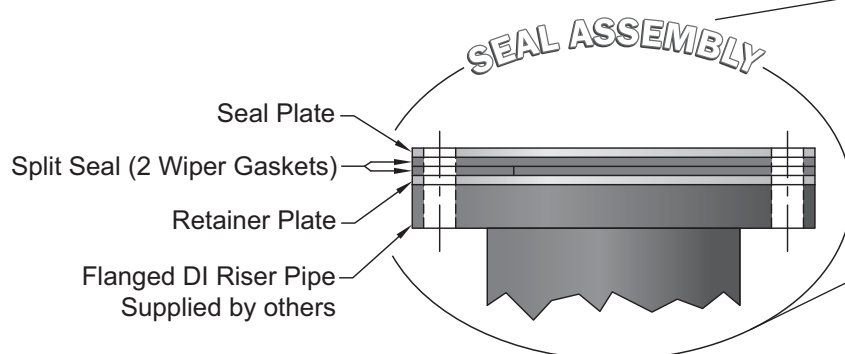
TRUMBULL TELESCOPING VALVES are designed to regulate the level of fluids in containment structures such as holding chambers, tanks, ponds & lagoons. An example of an application might be to regulate the effluent level in a settling basin. Also known as "Sludge Draw-off Valves" or "Decanting Valves",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

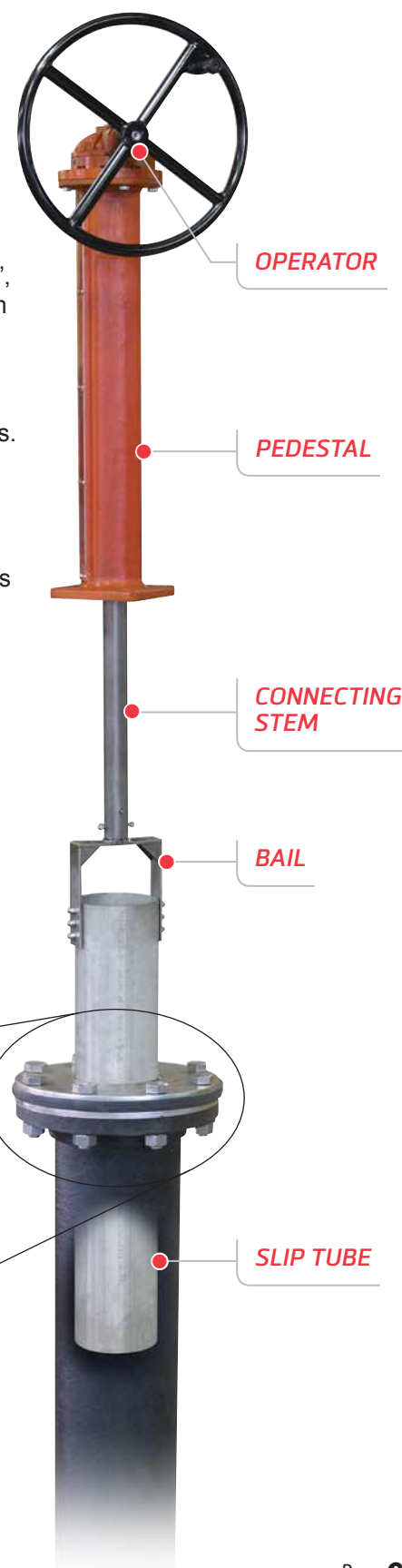
Trumbull's seal assembly consists of a stainless steel retainer plate, a seal plate and two (2) Buna-N wiper gaskets. The assembly is designed so that the wiper gaskets can easily be replaced in the field without disassembling the Telescoping Valve. Additional seal elastomers are available upon request.

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.

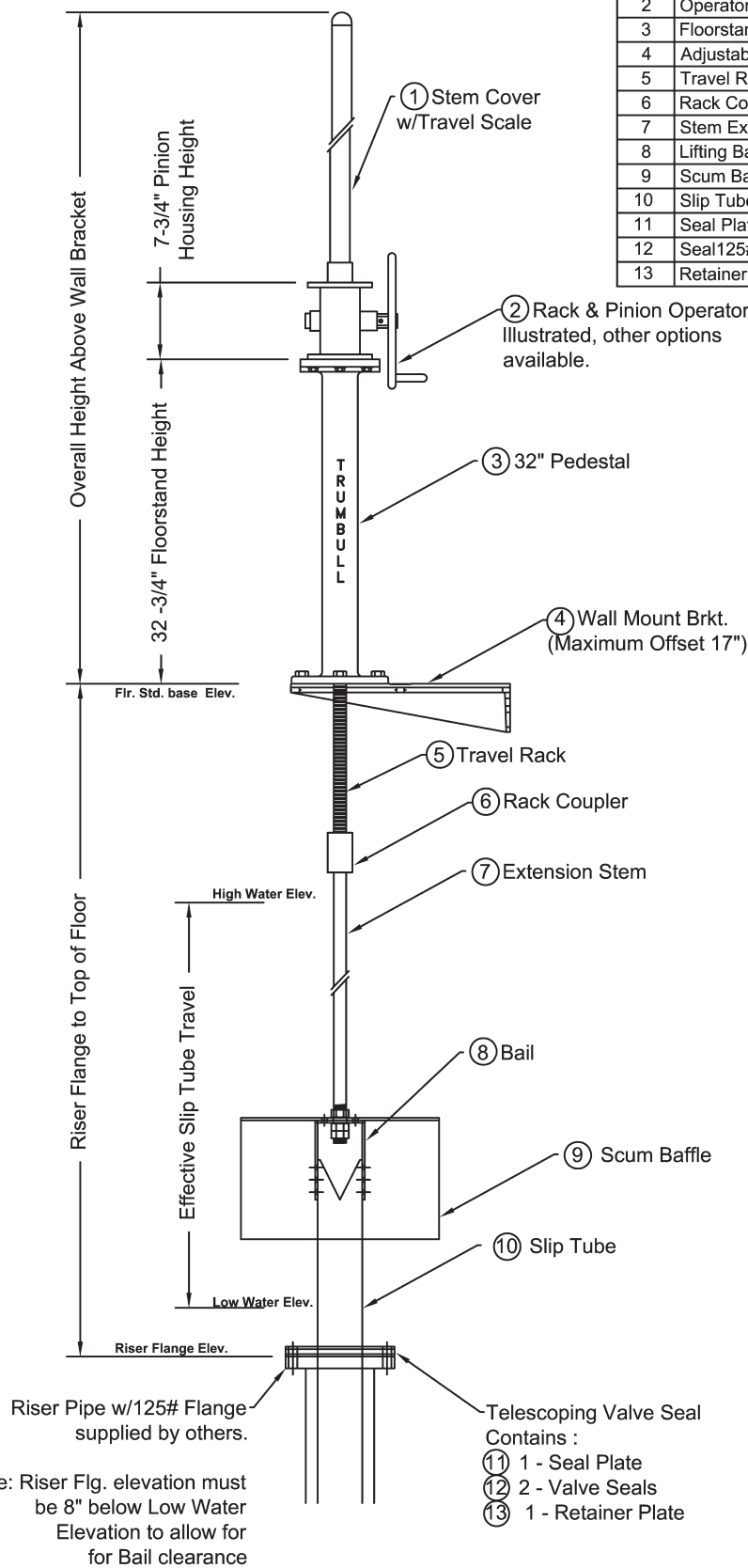
Lifting bails are fabricated from 304 stainless steel material, and are mounted to the slip tubes with stainless steel fasteners. Threaded operating stems and extension stems are made from 304 stainless steel material unless otherwise specified.



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



MK-#	Description	Qty/Assem.	Mat'l
1	Clear Stem Cover	Varies	PVC
2	Operator, Rack & Pinion (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, 1/4" Thk	1 Piece	304 SS
12	Seal125# Drilling, $\frac{1}{4}$ " Thk, Dove Tailed	2 Pieces	Buna-N
13	Retainer Plate125# Drilling, 1/4" Thk	1 Piece	304 SS



Telescoping Valve Options

Operators:

Rack & Pinion	_____
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) _____

Customer Provided Dimensions

Valve Size : _____

Elevations:

Floor Stand Base Elevation _____
 Floor Slab Thickness _____
 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: _____

Location: _____

Contact Name:

Phone: _____

Email: _____

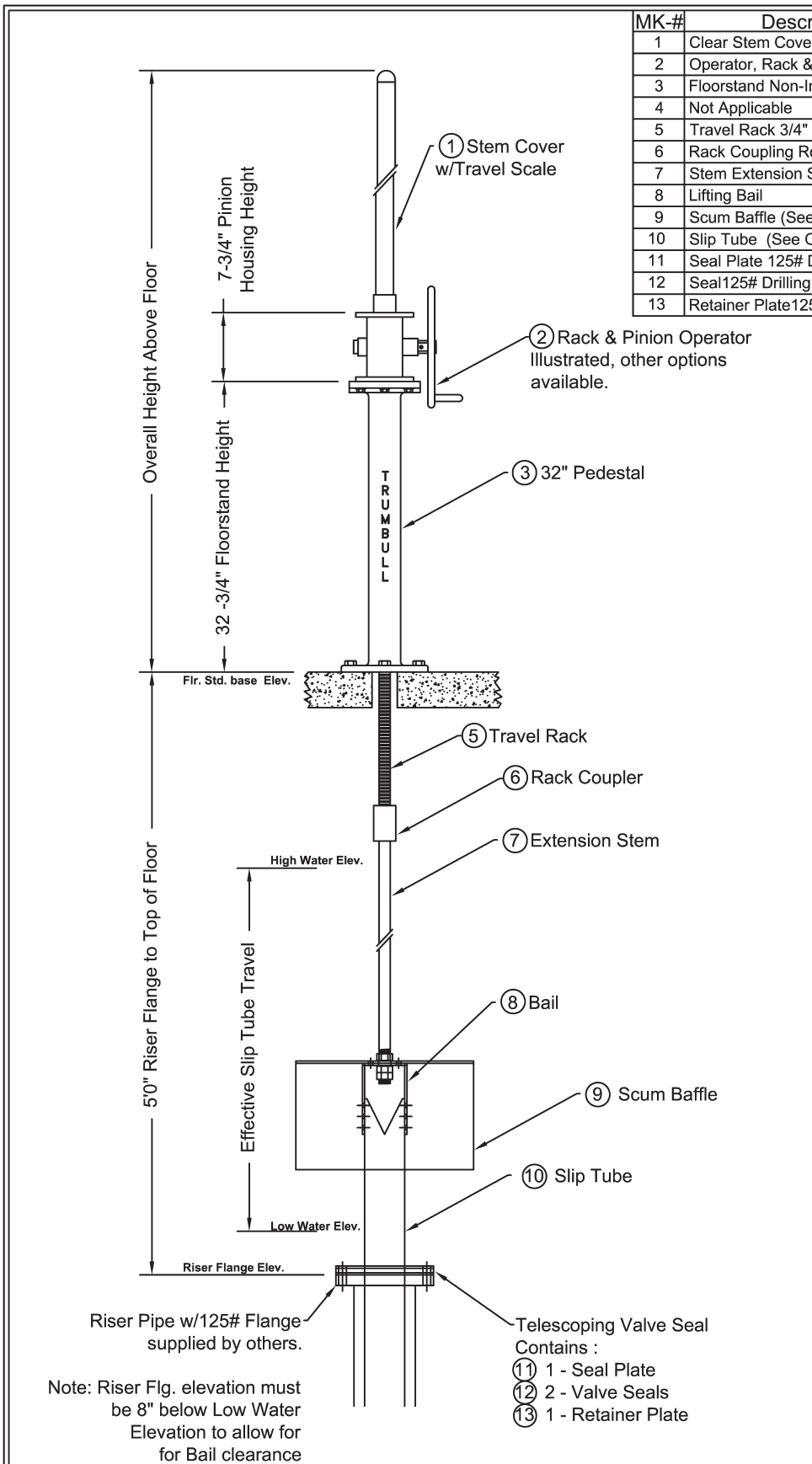
Reference #: _____

Note: Slip Tube & Ball fasteners, supplied by Trumbull
will be Stainless Steel.

Drawn:	Drawing Revision:		TRUMBULL INDUSTRIES P.O. Box 30 400 Dietz Rd Warren, Ohio 44482
Date	Rev.	Date	
11/20/13	A	11/20/13	

Telescoping Valve, Offset Mount
Offset Mount
Valve Option Sheet

MK-#	Description	Qty/Assem.	Mat'l
1	Clear Stem Cover	Varies	PVC
2	Operator, Rack & Pinion (See Options)	1 Piece	Carbon Stl.
3	Floorstand Non-Indicating 32"	1 Piece	Ductile Iron
4	Not Applicable		
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, 1/4" Thk	1 Piece	304 SS
12	Seal125# Drilling, 1/4" Thk, Dove Tailed	2 Pieces	Buna-N
13	Retainer Plate125# Drilling, 1/4" Thk	1 Piece	304 SS



Telescoping Valve Options

Operators:

Rack & Pinion	_____
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) _____

Customer Provided Dimensions	
Valve Size :	_____
Elevations:	_____
Floor Stand Base Elevation	_____
Floor Slab Thickness	_____
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:	_____
Location:	_____
Contact Name:	_____
Phone:	_____
Email:	_____
Reference #:	_____

Note: Flange Bolts Supplied by others.
Note: Slip Tube & Ball fasteners, supplied by Trumbull
will be 304ss

Drawn:		Drawing Revision:		TRUMBULL INDUSTRIES P.O. Box 30 400 Dietz Rd Warren, Ohio 44482
Date	Rev.	Date		
11/20/13	A	11/20/13		

Telescoping Valve, Floor Mount
Floor Mount Valve Option Sheet

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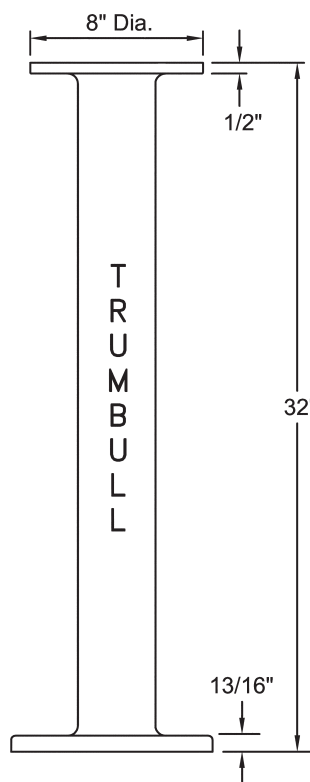
Multi-Purpose . . . **MANY POSSIBILITIES!**

32" Ductile Iron Pedestal

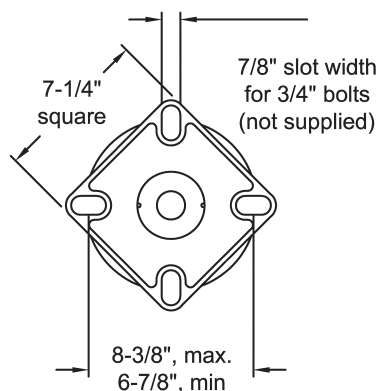
TRUMBULL 32" DUCTILE IRON PEDESTALS are designed for installation in treatment plants and pump stations to allow operation of valves at a lower elevation.

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 in various heights.

Pedestal Dimensions



Pedestal Base Dimensions



DUCTILE IRON CASTING
for added strength

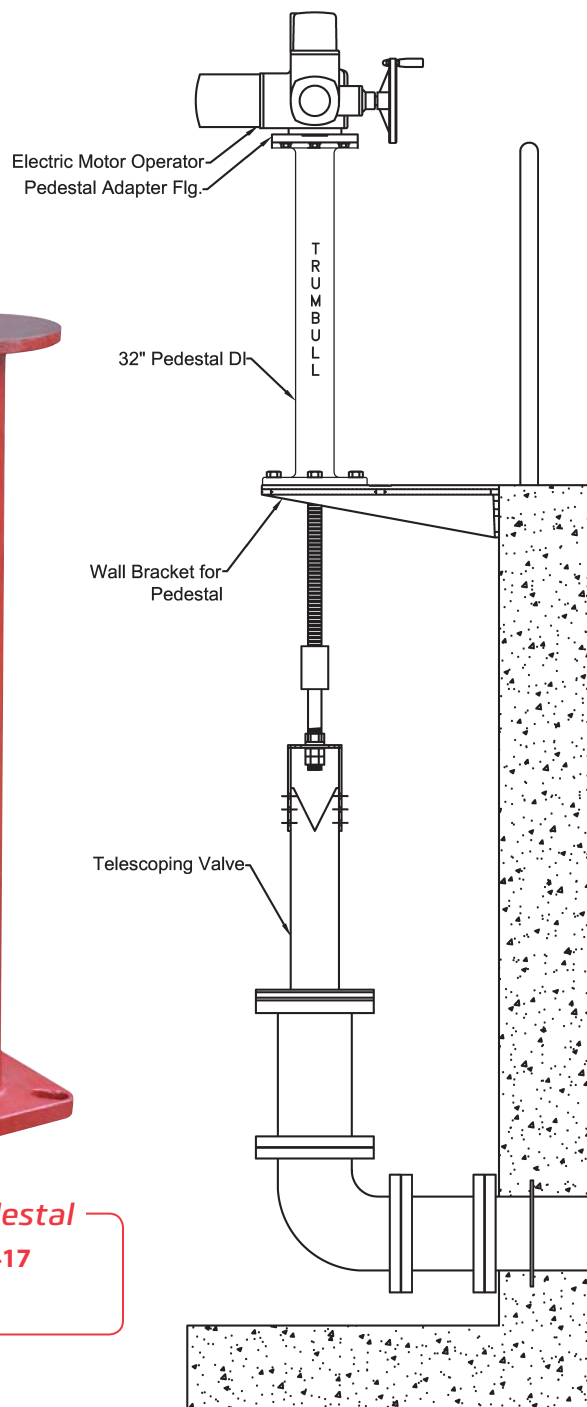
2-PART EPOXY COATING
Tnemec N140-1211

SLOTTED BOLT HOLES
provide adjustability to avoid interference with rebar

32" Ductile Iron Pedestal

Item number: **367-2417**

Weight: 43.45 lbs.



Typical installation

TRUMBULL

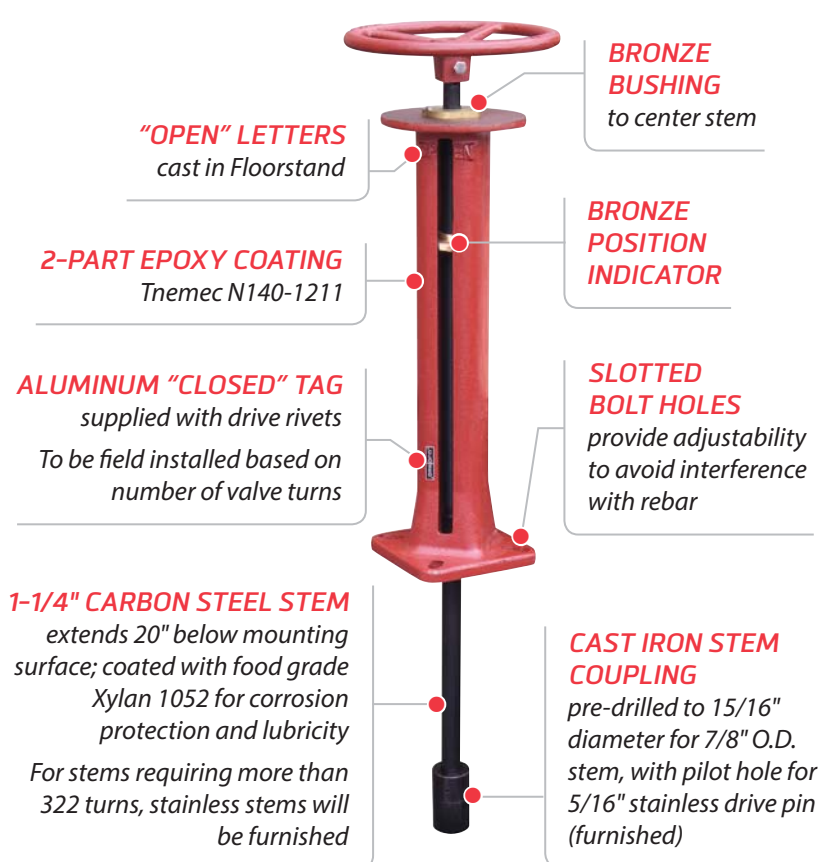
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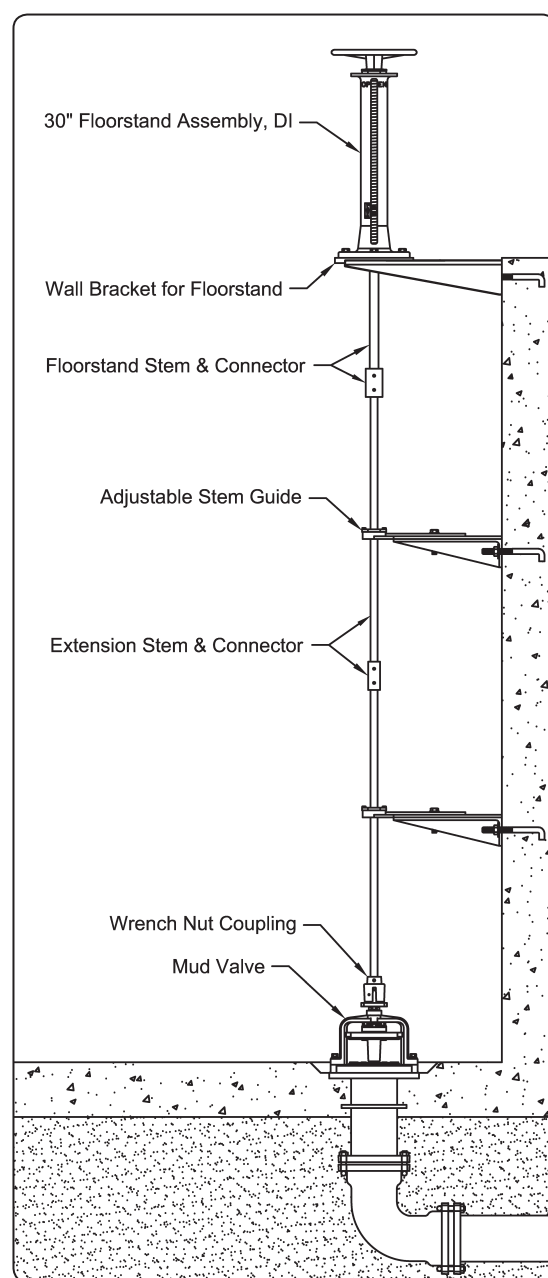
30" Ductile Iron Indicating Floorstand

TRUMBULL 30" INDICATING FLOORSTANDS are designed for installation in treatment plants and pump stations to allow operation of valves at a lower elevation. Floorstand body is ductile iron for increased torque capacity. Set screw secures handwheel to stem. Flange can be machined to facilitate mounting of actuator, if required (also available with gear operators). Our standard Floorstand is shown below (see page G-28 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.

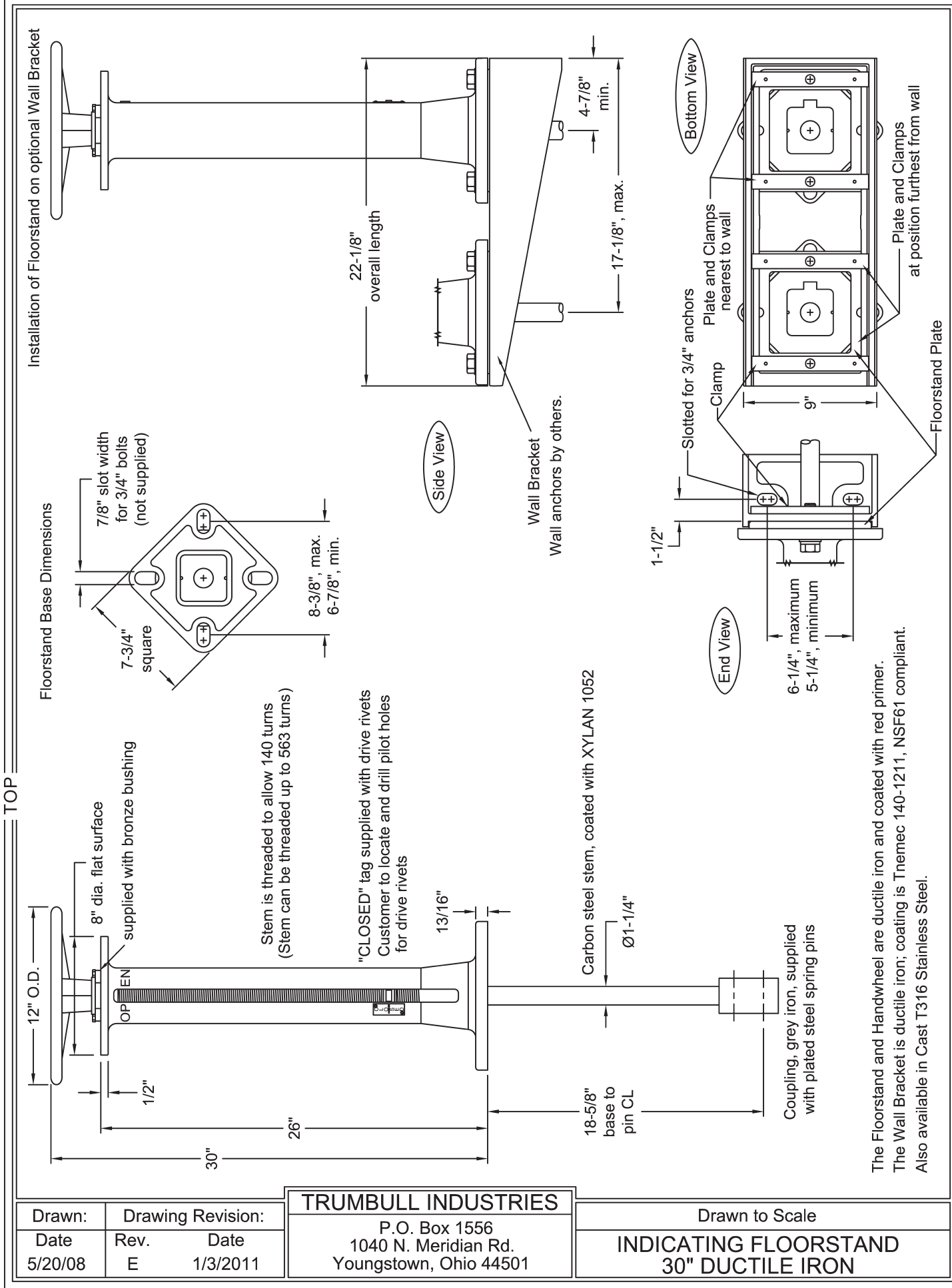


Ordering Instructions

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



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1040 N. Meridian Rd.

Toll Free: 800.677.1799

P.O. Box 1556

Fax: 330.392.0756

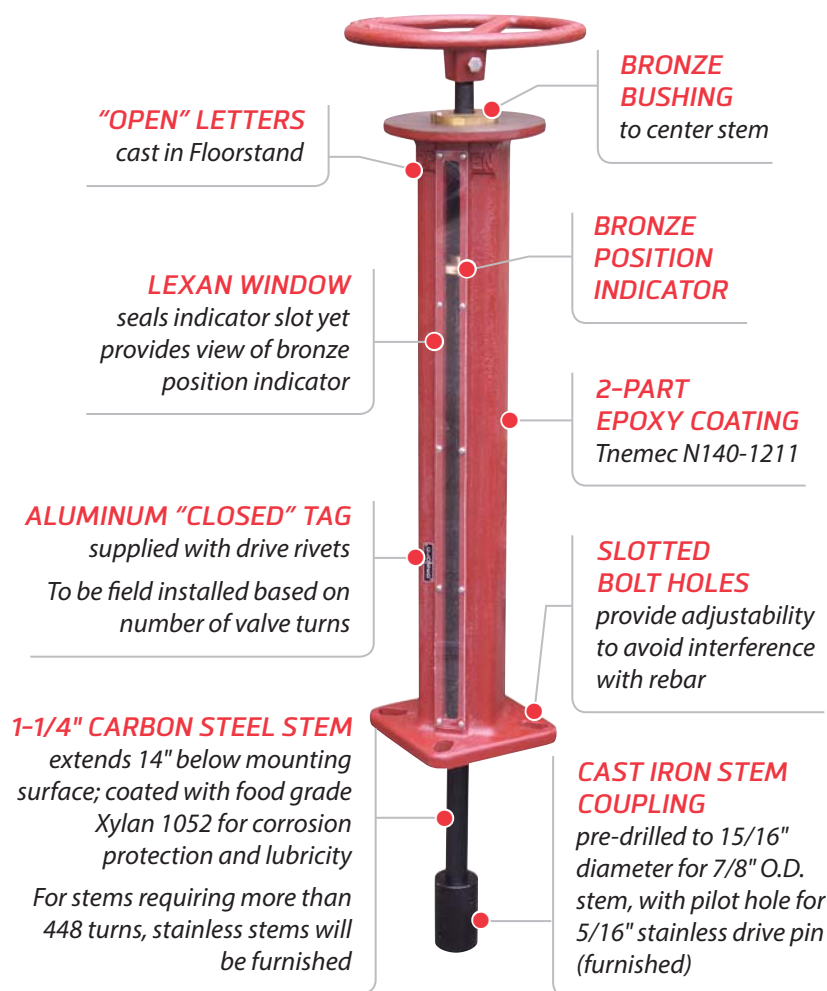
Youngstown, Ohio 44501

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36" Ductile Iron Indicating Floorstand

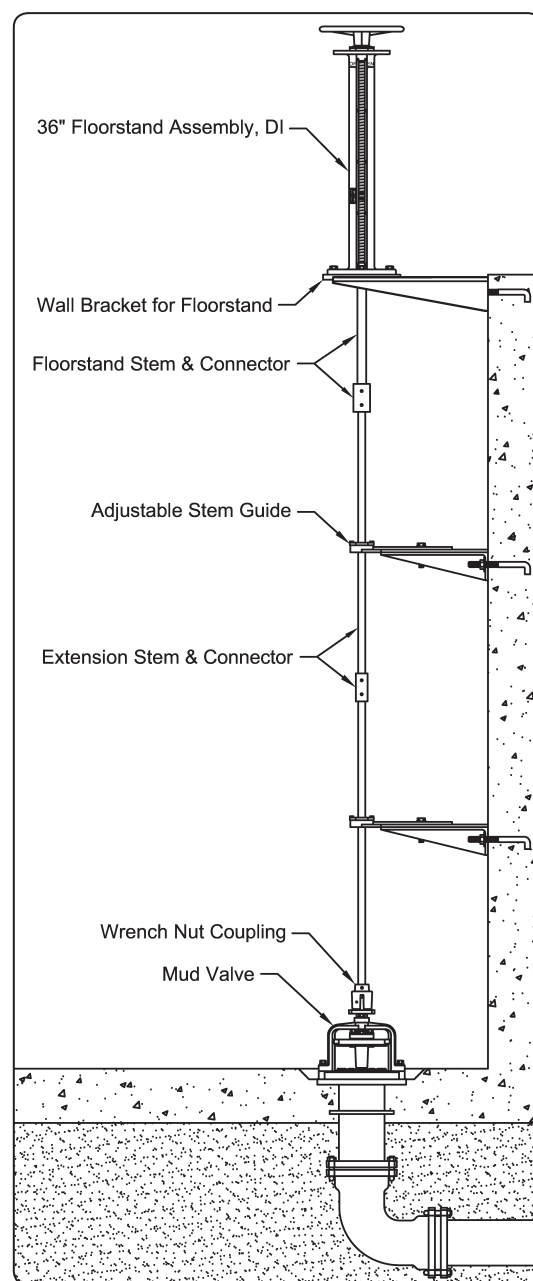
Sealed Indicator Slot

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-45 & G-46). See page G-28 for custom Floorstand options.

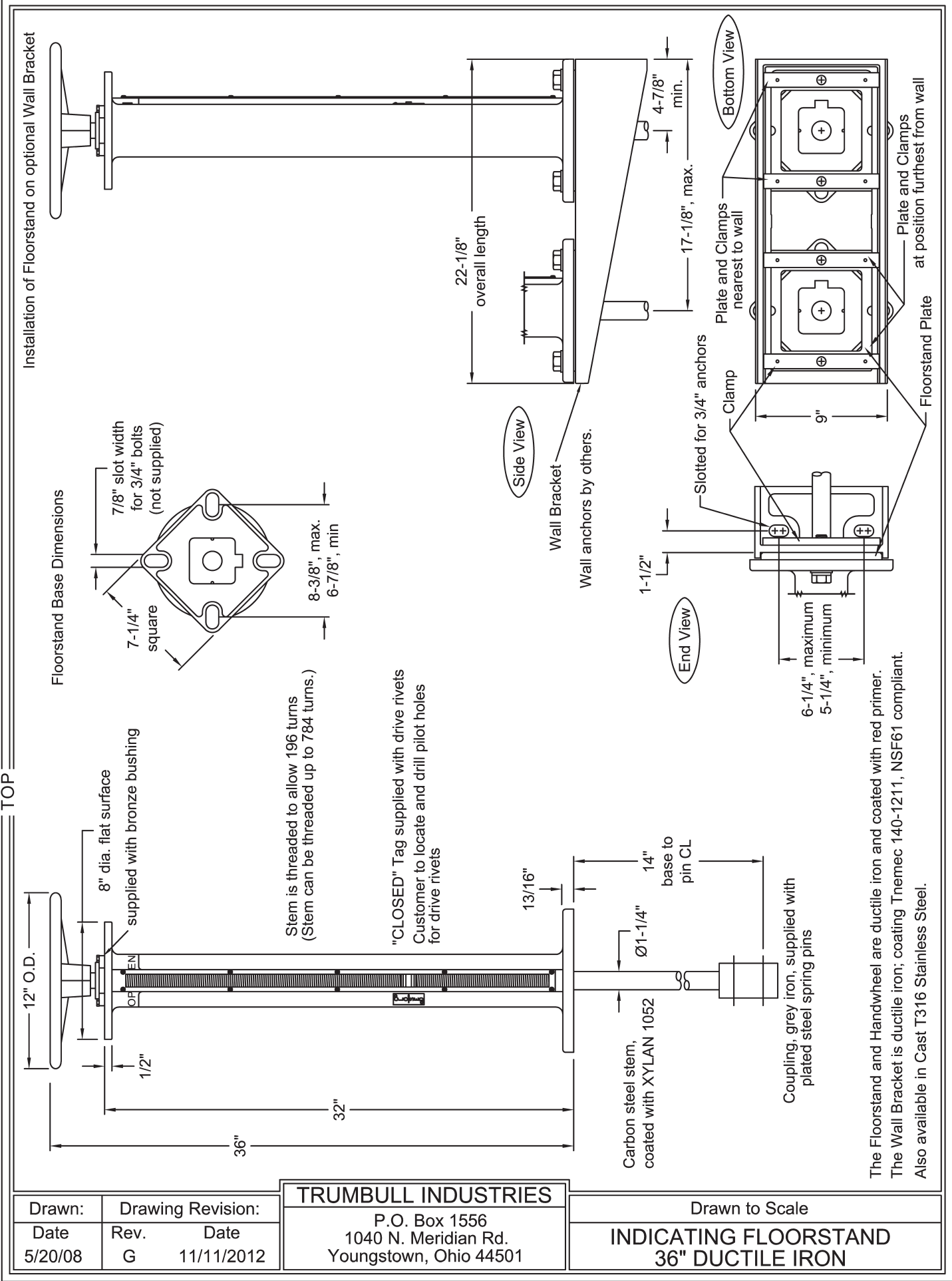


Ordering Instructions

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**



Typical Floorstand installation



TRUMBULL

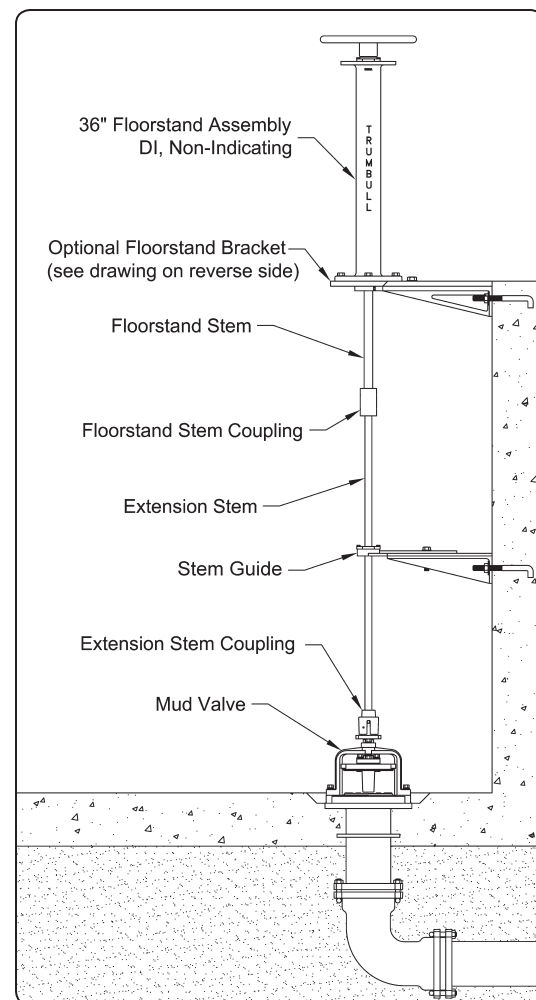
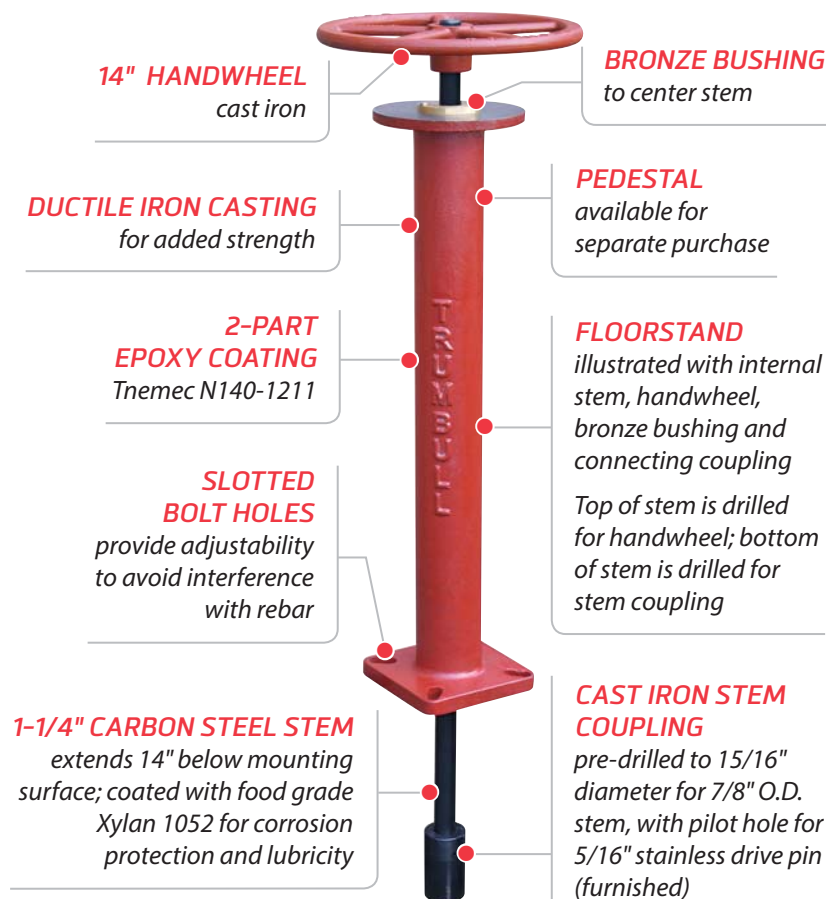
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36" Ductile Iron Non-Indicating Floorstand

TRUMBULL 36" DUCTILE IRON NON-INDICATING FLOORSTANDS are designed for installation in treatment plants and pump stations to allow operation of valves at a lower elevation.



Typical Floorstand installation

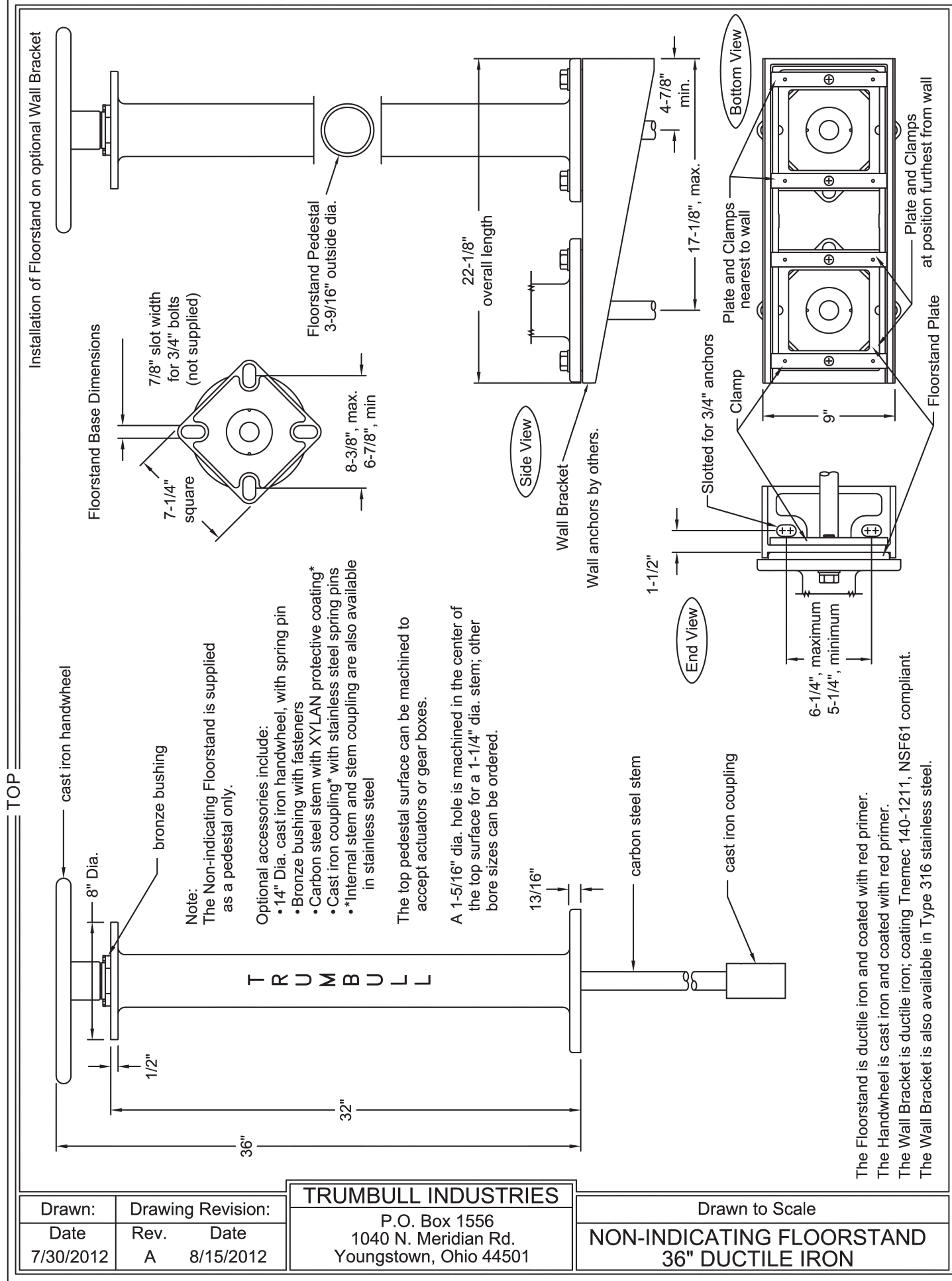
Ordering Instructions

1. Quantity required
2. Floorstand item number:
367-2417 (pedestal only)
367-2414 (pedestal, stem, handwheel & coupling)
3. If internal stem is required, state:
 - a. O.D. of extension stem being used, for drilling of connecting couplings
 - b. Carbon or stainless steel stem
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-39 to G-42) and cast stainless steel (page G-45 to G-46). See page G-28 for custom Floorstand options.



Drawn:		Drawing Revision:		TRUMBULL INDUSTRIES		Drawn to Scale	
Date	Rev.	Date		P.O. Box 1556		NON-INDICATING FLOORSTAND	
7/30/2012	A	8/15/2012		1040 N. Meridian Rd.		36" DUCTILE IRON	
				Youngstown, Ohio 44501			

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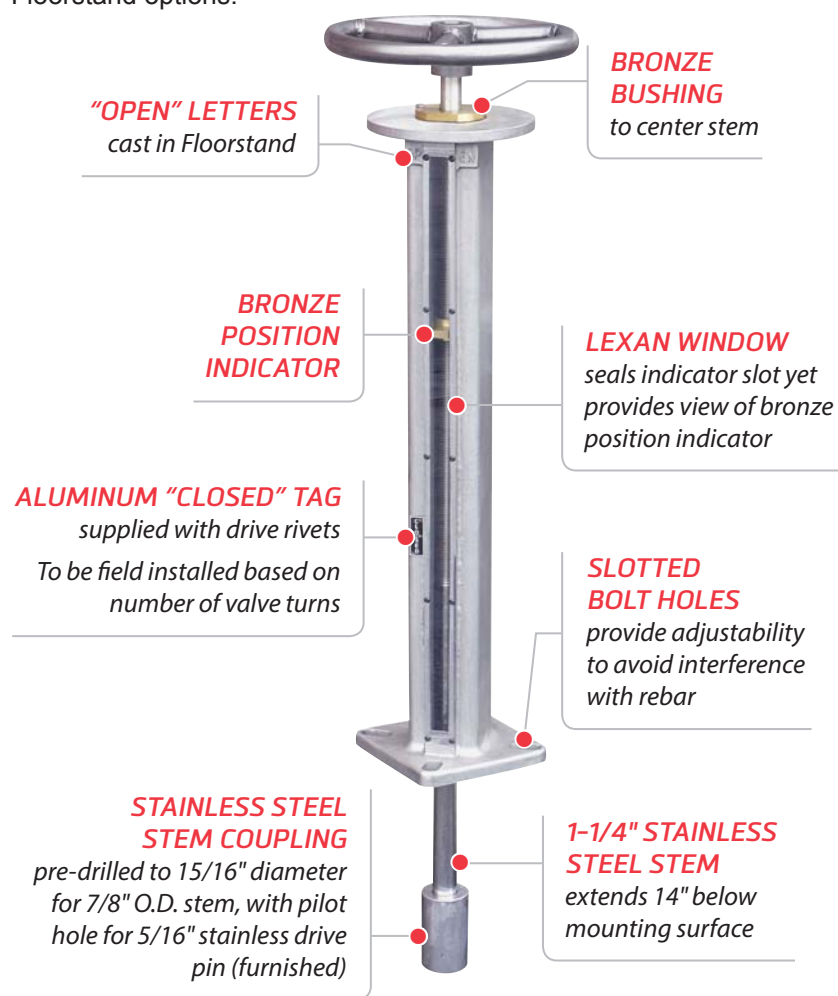
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36" Stainless Indicating Floorstand

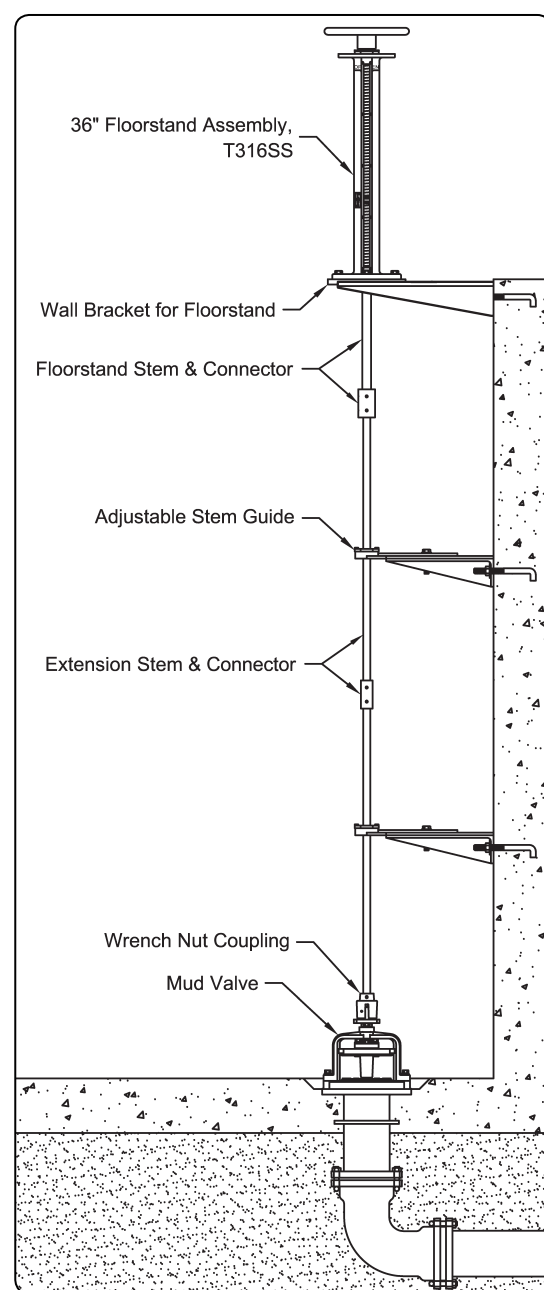
Sealed Indicator Slot

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-41 and G-42). See page G-28 for custom Floorstand options.

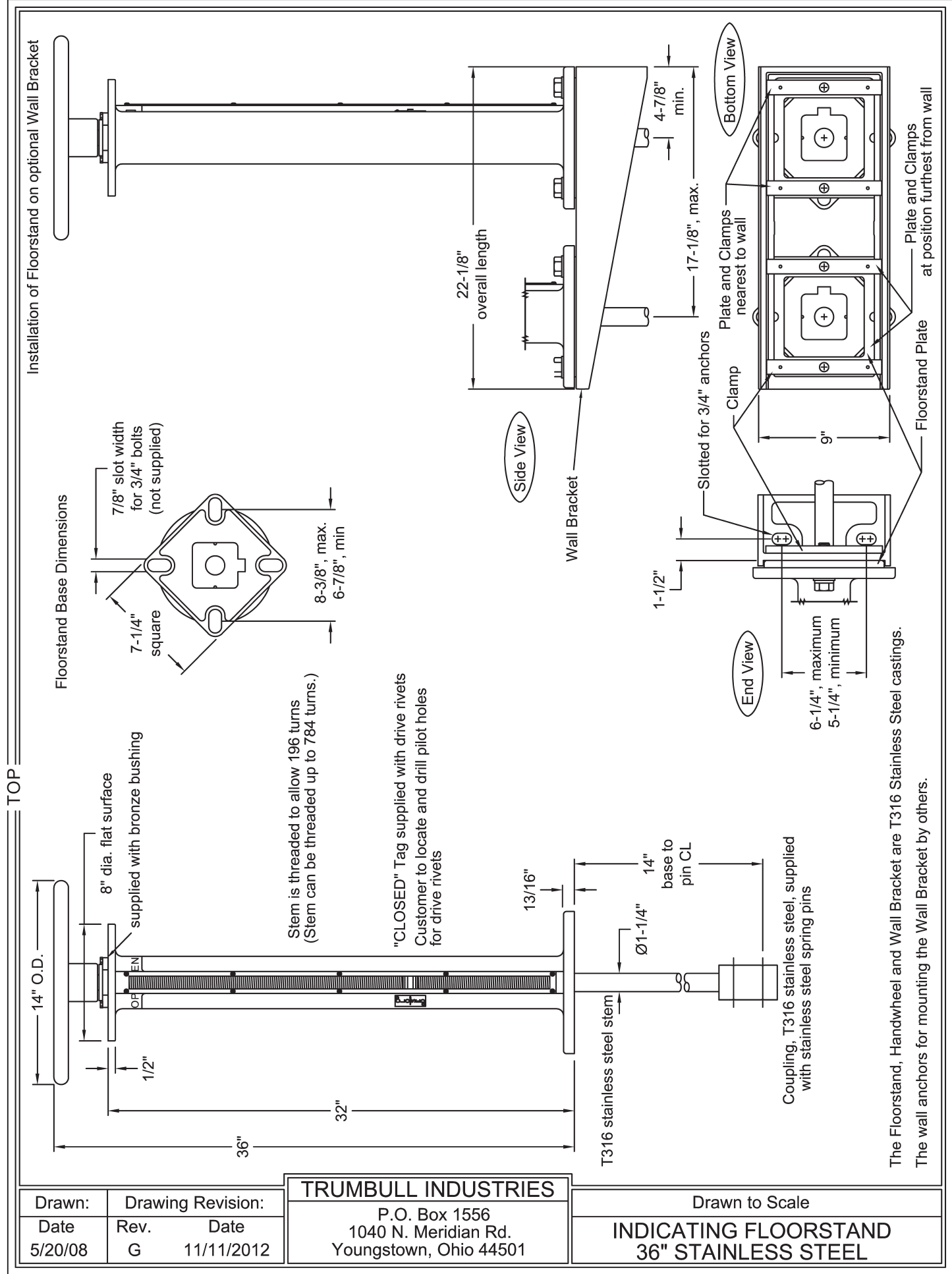


Ordering Instructions

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**



Typical Floorstand installation



Drawn:	Drawing Revision:	
Date	Rev.	Date
5/20/08	G	11/11/2012

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Drawn to Scale
INDICATING FLOORSTAND 36" STAINLESS STEEL

TRUMBULL

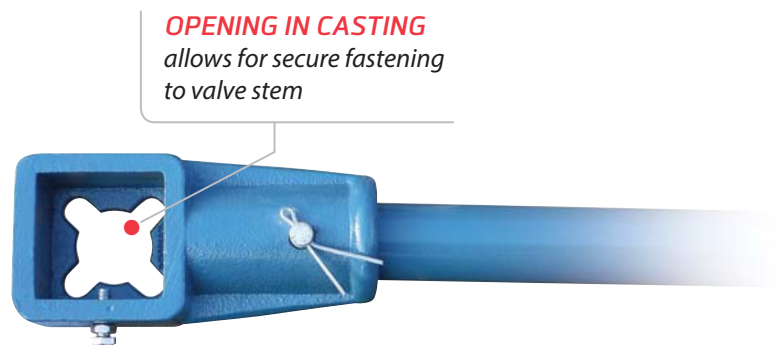
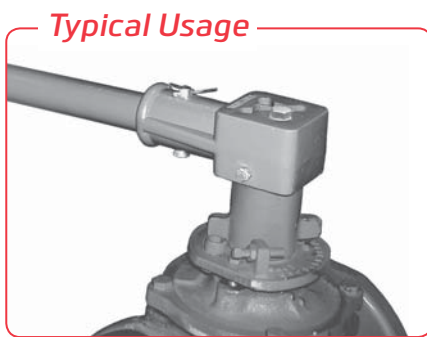
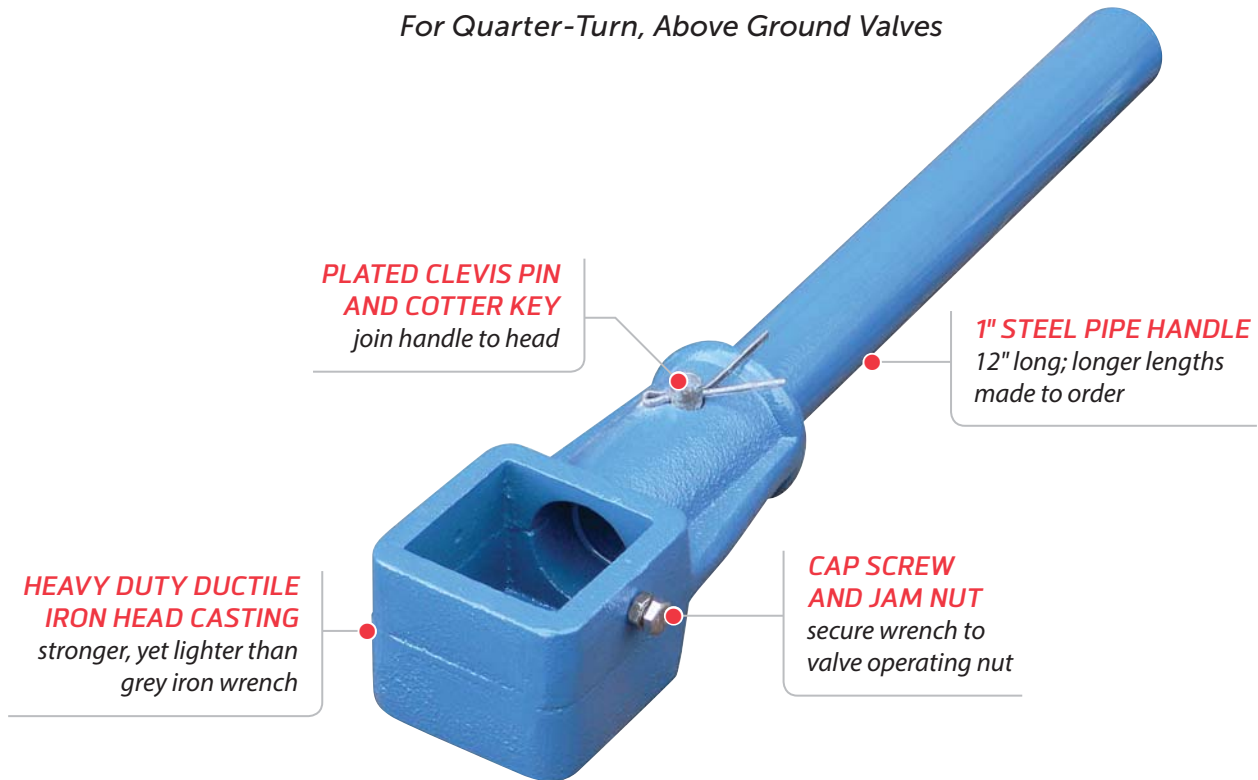
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Hand Lever

For Quarter-Turn, Above Ground Valves



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

TRUMBULL

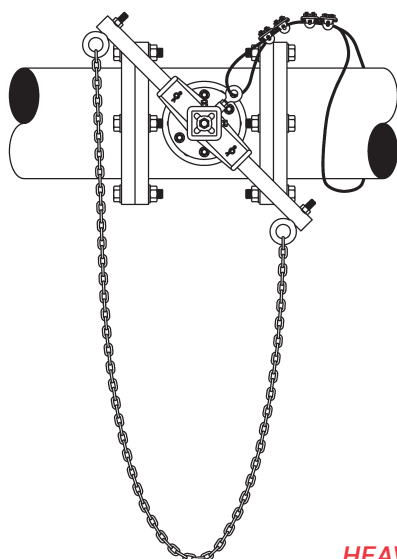
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Chain Lever

Used for Manual Operation of Quarter-Turn Valves Installed Overhead

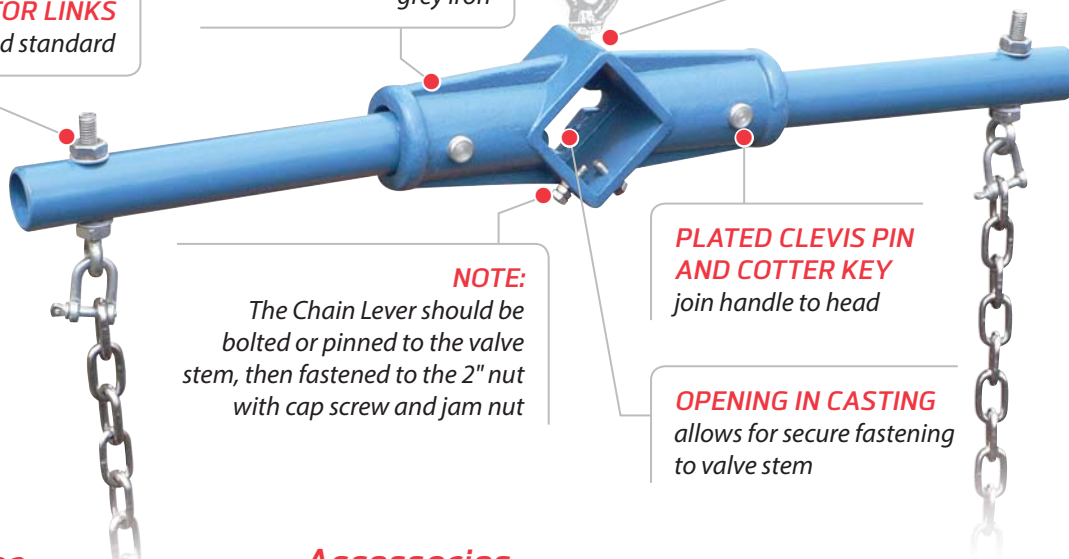


TRUMBULL CHAIN LEVERS save the unnecessary expense of adding a gear and chainwheel to valves that don't require a gear to operate. Handles are 1" sch 40 pipe. Stocked with an overall length of 24"; longer lengths made to order. Our Chain Levers are designed to fit on a 2" square nut whose flat sides are parallel to the flow line, when the valve is either fully open or closed (see illustration on left). To our knowledge, our Chain Lever will properly operate all plug valves, other than Milliken.

**PLATED EYEBOLTS,
HARDWARE &
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-57 and G-58)



NOTE:
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.

Accessories

For machine chain, order specific length required.

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

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

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Ductile Iron Chainwheels

Sprocket-Type, for use with Single Loop Cut Chain

Used to operate overhead valves from the floor.

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 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-56. 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-59 and G-60). All Trumbull Chainwheels are furnished with a threaded boss for the addition of our Safety Restraint System.

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

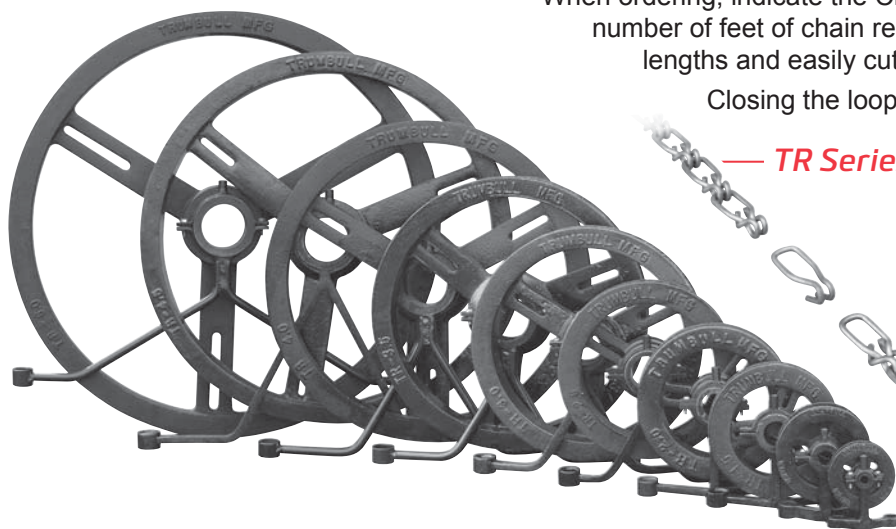
When ordering, indicate the Chainwheel and chain size numbers and the number of feet of chain required. Chain is provided in continuous lengths and easily cut in the field to exact length needed.

Closing the loop is simple with Connecting Links . . .

— TR Series Connecting Links —

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

See page G-57 for more information about our Connecting Links.



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-53 for Chainwheel dimensions.

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Aluminum Chainwheels

Sprocket-Type, for use with Single Loop Cut Chain

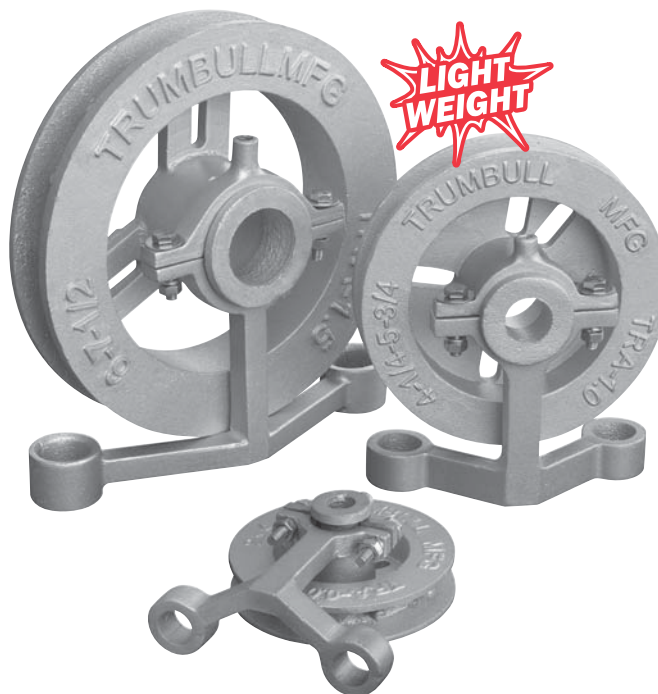
Used to operate overhead valves from the floor.

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

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-56. 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-59 and G-60 for more information). All Trumbull Chainwheels are furnished with a threaded boss for the addition of our Safety Restraint System.



Trumbull Item No.	Size No.	Diameter	Boxed Weight	Handwheel OD Range Chainwheel will Fit	Chain Size	Galvanized Chain	Stainless Chain	Chain Length (2X drop) plus...
						Trumbull Item No.	Trumbull 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	367-1894	367-1897	1 ft.
367-2022	TRA-1.5	7-1/2"	4.15 lbs.	6" to 7-1/2"	1/0	367-1894	367-1897	1 ft.
367-2023	TRA-2.0	9"	5.30 lbs.	7-3/4" to 9"	1/0	367-1894	367-1897	1-1/2 ft.
367-2024	TRA-2.5	12-1/2"	7.90 lbs.	9-1/4" to 12-1/2"	4/0	367-1895	367-1898	1-1/2 ft.

Ordering Info

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.

TR Series Connecting Links

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

See page G-57 for more info.



Note 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-53 for Chainwheel dimensions.

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Stainless Steel Chainwheels

Type 316 Pocket-Type, for Trumbull 316L 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-56. 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.

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

To prevent serious injury, we recommend the use of our Secondary Safety Restraint System (see pages G-59 and G-60). Furnished with a threaded boss for the addition of Safety Restraint System.



CORRODED CI CHAINWHEEL shows advantage of stainless

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

* D suffix denotes "Disc", used in lieu of standard clamping hardware; see page G-55 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 on page G-55). Consult your 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.

Machine Chain



Description	Trumbull Item No.
316L SS Machine Chain	367-1815
SS Connecting Link	367-1816



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-53 for Chainwheel dimensions.

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Carbon Steel Chainwheels

Pocket-Type, for Trumbull 316L Welded Link Machine Chain

Used to operate overhead valves from the floor.

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

Carbon Steel Chainwheels are furnished with stainless steel attachment hardware for clamping to a handwheel. When Chainwheel is to be pinned to the stem, direct mount adapters are available. The adapters require pinning to the stem as illustrated on page G-56. 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.

Carbon Steel Chainwheels are finished with e-coating.

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

To prevent serious injury, we recommend the use of our Secondary Safety Restraint System (see pages G-59 and G-60). All Trumbull Chainwheels are furnished with a threaded boss for the addition of our Safety Restraint System.



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

* D suffix denotes "Disc", used in lieu of standard clamping hardware; see page G-55 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 on page G-55). Consult your 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.

Machine Chain & Connecting Links

Order length of chain required.



Description	Trumbull Item No.
Plated Carbon Steel Machine Chain	367-1818
316L Stainless Steel Machine Chain	367-1815
Stainless Steel Connecting Link	367-1816

Ductile Iron and Aluminum Chainwheels are sprocket-type, using single loop cut chain.

Note **CARBON STEEL** and Stainless Steel Chainwheels are pocket-type, using smooth welded link machine chain. See page G-53 for Chainwheel dimensions.

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Sprocket-Type Chainwheel Dimensions

Ductile Iron	TR-0.0	TR-1.0	TR-1.5	TR-2.0	TR-2.5	TR-3.0	TR-3.5	TR-4.0	TR-4.5	TR-5.0
Trumbull Item Number	367-1873	367-1874	367-1875	367-1876	367-1877	367-1878	367-1879	367-1880	367-1881	367-1882
Boxed Weight (lbs.)	2.2	5.4	8.8	13.4	17.0	21.6	30.9	42.8	49.0	63.4

Aluminum	TRA-0.0	TRA-1.0	TRA-1.5	TRA-2.0	TRA-2.5	----	----	----	----	----
Trumbull Item Number	367-2020	367-2021	367-2022	367-2023	367-2024	----	----	----	----	----
Boxed Weight (lbs.)	1.0	2.7	4.2	5.3	7.9	----	----	----	----	----

Chainwheel O.D.	4"	6"	7-1/2"	9"	12-1/2"	15-1/2"	19"	22"	26"	30"
Chainwheel Assembly Fits Handwheel O.D. Range	2" to 4"	4-1/4" to 5-3/4"	6" to 7-1/2"	7-3/4" to 9"	9-1/4" to 12-1/2"	12-3/4" to 15-1/2"	15-3/4" to 19"	19-1/4" to 22"	22-1/2" to 26"	22-1/2" to 36"
Chain Size	Size #2	Size 1/0			Size 4/0			Size 5/0		
Attachment Set Size	Disk #0 367-2005	Disk #1 367-2006	"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 NOTE 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

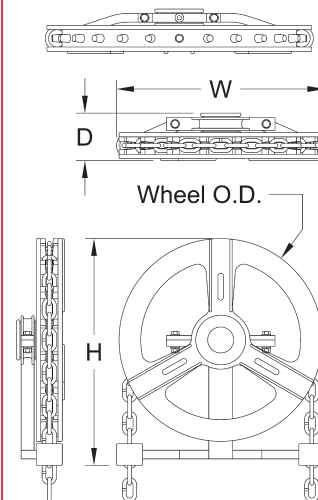
Carbon Steel	----	TRCS-6	TRCS-8	TRCS-12	TRCS-15	TRCS-22	TRCS-29
Trumbull Item Number	----	367-1829	367-1832	367-1844	367-1849	367-1859	367-1869
Boxed Weight (lbs.)	----	8.5	14.4	18.7	24.8	34.8	45.0

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"
Chainwheel Assembly Fits Handwheel O.D. Range	1-1/2" to 4-1/2"	2-1/8" to 6-1/4"	7-1/2" to 10-1/2"	8-1/2" to 13-1/2"	9-1/2" to 17-1/2"	13" to 25"	17-3/4" to 32"
Attachment Set Size	Disk #4	Disk #6	"B" Attachment Set (367-1808) provided as standard. Ranges can be expanded by optional sets "A" & "C" (see page G-55).				
"D" (Overall Depth)	2-3/8"	2-5/8"	2-3/4"	2-3/4"	2-3/4"	2-3/4"	2-7/8"
"H" (Overall Height)	6-1/4"	7-1/16"	9"	13-1/8"	16-1/4"	22-1/4"	29-1/4"
"W" (Overall Width)	4-5/8"	6-3/16"	8-7/16"	12"	15-5/8"	22-5/8"	29-1/2"
Star Adapter Size	Small		Large				
Min/Max Bore Dia.	3/8" to 7/8"		1/2" to 1-3/8"				

Dimensions

For both sprocket-type and pocket-type Chainwheels.



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Chain & Connecting Links

For Trumbull Chainwheels

Sprocket-Type Chainwheels

Ductile Iron & Aluminum

SINGLE LOOP CHAIN
engages with the teeth in the wheel.

Pocket-Type Chainwheels

Carbon Steel & Stainless Steel

WELDED LINK MACHINE CHAIN
fits in pockets in the wheel. Smooth chain links
provide more comfortable operation.

Ordering Info

When ordering chain, 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...

Single-Loop Chain

for sprocket-type Chainwheels

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

Connecting Links

for sprocket-type Chainwheels

See page G-57
for installation
instructions!

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

Welded Link Machine Chain

Calibrated specifically for our
pocket-type Chainwheels

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

TR Series Connecting Links

for pocket-type Chainwheels

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

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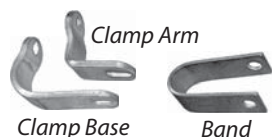
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Clamp-On Attachment Sets & Discs

for Trumbull Chainwheels



Attachment Sets

Clamp Base

Clamp Arm

Band

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 & 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



Clamping Disc Hardware

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"

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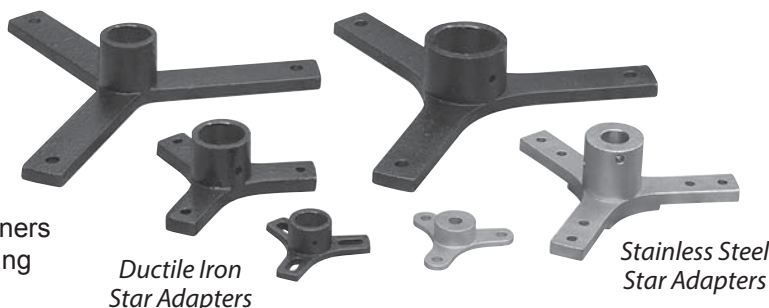
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Direct-Mount "Star Adapters"

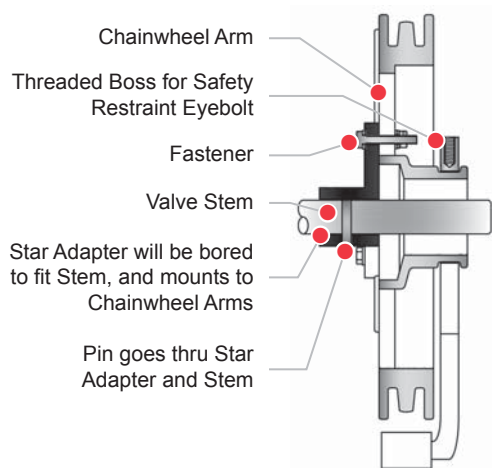
For both Sprocket-Type & Pocket-Type Chainwheels

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

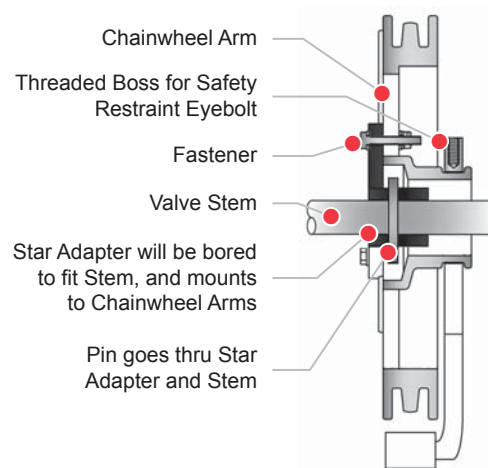
These adapters require pinning to the stem. Pilot holes are pre-drilled in the adapter for ease of installation on-site; the drilling of the stem is by customer. Star Adapters will be furnished with fasteners necessary to attach to Chainwheel, in lieu of clamping hardware normally furnished with Chainwheel.



External Assembly



Internal Assembly



Ductile Iron Star Adapter Dimensions - for Sprocket-Type Chainwheels

	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
DI Star Adapter	S	S	M	M	M	L & XL	L & XL	L & XL	L & XL	L & 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 Adapter Dimensions - for Pocket-Type Chainwheels

	Size 4	Size 6	Size 8	Size 12	Size 15	Size 22	Size 29
SS Star Adapter	S	S	L	L	L	L	L
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"				

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TR Series Connecting Links

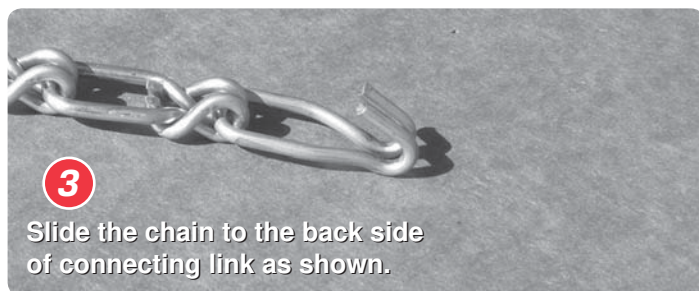
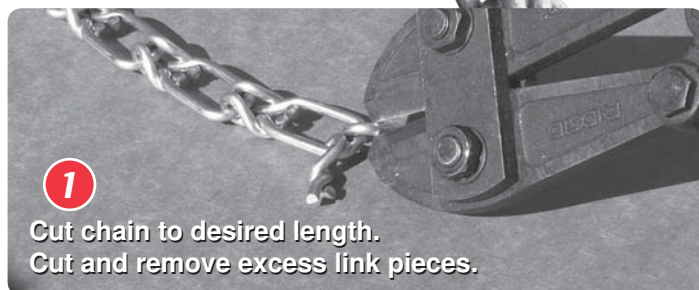
Used to Connect Chain for use with Sprocket Chainwheels

TR SERIES CONNECTING LINKS are used to connect single loop chain for use with Trumbull ductile iron and aluminum sprocket 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	
	Trumbull Item No.	Weight	Trumbull Item No.	Weight
1/0	367-1994	0.02 lbs.	367-1997	0.02 lbs.
4/0	367-1995	0.03 lbs.	367-1998	0.03 lbs.
5/0	367-1996	0.05 lbs.	----	----

Installation is **EASY**,
just follow these five steps...



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"Chain-Up" Device

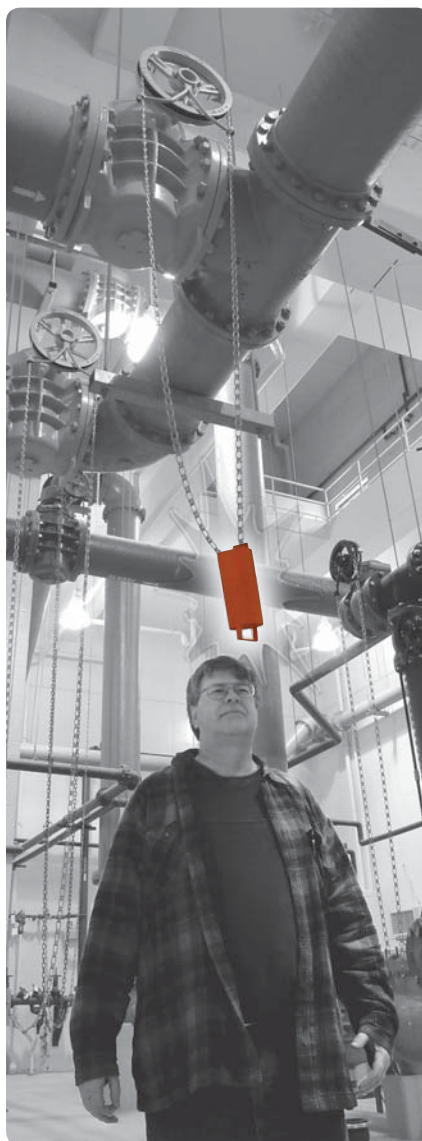
Eliminates a Potential Safety Hazard Presented by Overhead Chains

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

The "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. Furnished in Safety Orange. Made of high-strength thermoplastic polymer.



Chain in pathway.



CHAIN-UP DEVICE
stores the chain above pathway.



<i>Trumbull Item No.</i>	<i>Overall Length</i>	<i>Weight</i>
367-1890	11-3/4"	0.55 lbs.

For additional Chainwheel safety, always use Trumbull's Chainwheel Safety Restraint System (see page G-59 & G-60 for more information).

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Now You Can
PREVENT SERIOUS INJURY
With Our . . .

Secondary Safety Restraint System

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.

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.



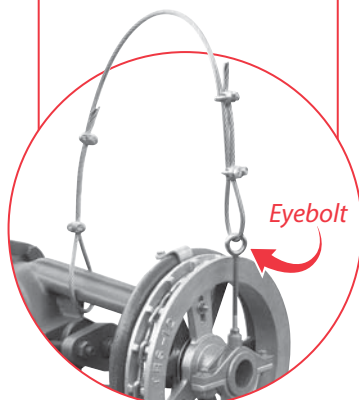
Step 1 Order Kit

Trumbull
Item No.

367-1975

Kit is furnished with
5 feet of safety cable
and 4 cable clamps.

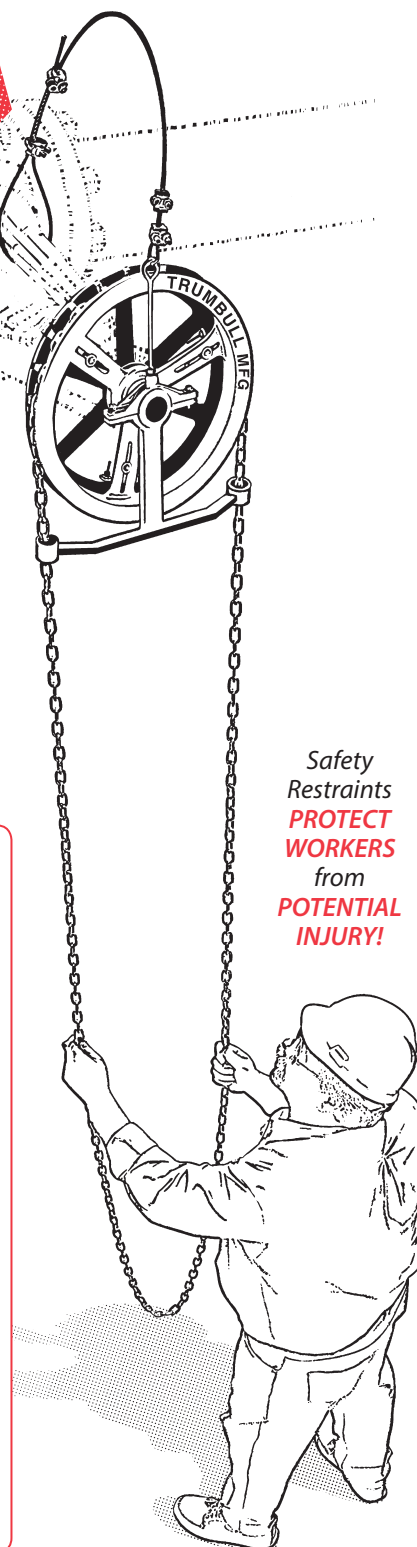
Eyebolts must be
ordered separately,
see chart on right...



Step 2 Select Eyebolt

Chainwheel Model		Eyebolt Length	Trumbull Item No.
Stainless Steel	TR-4	---	1"
	TR-6	---	1"
	TR-8	---	3"
	TR-12	---	6"
	TR-15	---	6"
	TR-22	---	13"
	TR-29B	---	16"
	TR-29C	---	18"
Carbon Steel	TRCS-6	---	367-1974
	TRCS-8	---	367-1974
	TRCS-12	---	367-1973
	TRCS-15	---	367-1972
	TRCS-22	---	367-1972
	TRCS-29B	---	367-1970
	TRCS-29C	---	367-1969
	TRCS-29C	---	367-1967
Ductile Iron	TR-0.0	---	2"
	TR-1.0	---	2"
	TR-1.5	---	3"
	TR-2.0	---	3"
	TR-2.5	---	6"
	TR-3.0	---	9"
	TR-3.5	---	9"
	TR-4.0	---	9"
	TR-4.5	---	13"
	TR-5.0	---	18"
Aluminum	TRA-0.0	---	367-1968
	TRA-1.0	---	367-1968
	TRA-1.5	---	367-1973
	TRA-2.0	---	367-1973
	TRA-2.5	---	367-1972
	TRA-3.0	---	367-1971
	TRA-3.5	---	367-1971
	TRA-4.0	---	367-1971
	TRA-4.5	---	367-1970
	TRA-5.0	---	367-1967

Safety
Restraints
**PROTECT
WORKERS**
from
**POTENTIAL
INJURY!**



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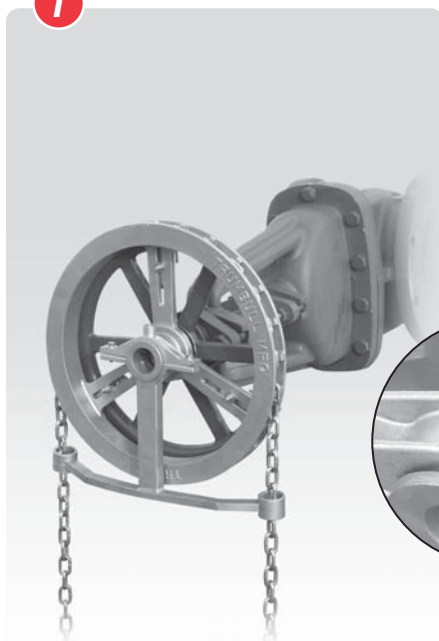
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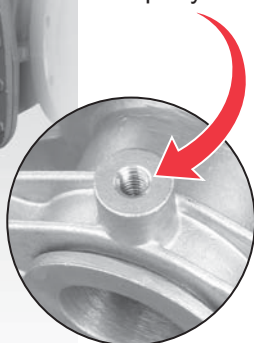
Installing the Safety Restraint is as easy as . . .

1-2-3-4

1



Typical chainwheel installation. Safety cap is threaded to accept eyebolt.



2



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

3



Loop cable through eyebolt leaving about 6" excess.

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

Note

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

4



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

Note

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

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Adjustable Pipe Supports - Saddle Style



Assembly Includes:

- 1 Large base (8" x 8")
- 2 Saddle Assembly and Height-Adjustment Cap, which allows for up to 3" of final height adjustment

Customer Supplied:

- 3 Extension Pipe, at the length required*

Available for 3" through 24" Pipe

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

- All supports have an electro-galvanized finish
- Optional 316 stainless steel supports available
- Other coatings such as epoxy paint may be available, please inquire as to availability

Materials

Base Plate: ASTM A36 sheet steel
Threaded Rod: ASTM A307 rolled threads
Base Cup: ASTM A53 tubing
Adjustment Cap: ASTM A53 tubing
Saddle: ASTM A36



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



Pipe Size	Trumbull Item No.	Saddle Size	Threaded Rod	Base Plate	Extension Pipe Size*	Min. Height from Floor
3"	364-5850	1-1/2" x 3/8"	1"-8 NC x 6"	1/4" x 8" x 8"	2" Sch 40	7"
4"	364-5851					
6"	364-5852	2" x 1/2"				
8"	364-5853					
10"	364-5854					
12"	364-5855					
14"	364-5856	3" x 5/8"	1-1/2"-6 NC x 6"	3" Sch 40	10"	
16"	364-5857					
18"	364-5858	4" x 3/4"	2"-4 NC x 6"	1/2" x 8" x 8"		4" Sch 40
20"	364-5859					
24"	364-5860					

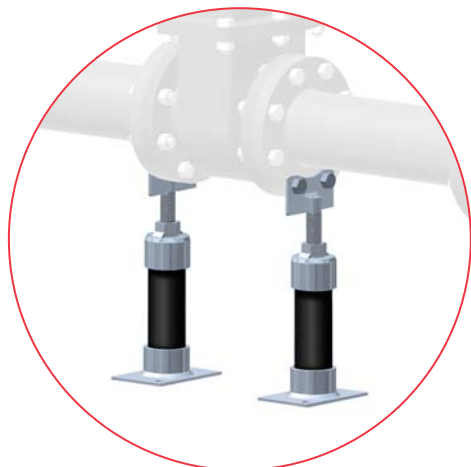
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Adjustable Pipe Supports - Flange Style



Assembly Includes:

- 1 Large base (4" x 6" or 8" x 8")
- 2 Saddle Assembly and Height-Adjustment Cap, which allows for up to 3" of final height adjustment

Customer Supplied:

- 3 Extension Pipe, at the length required*

Available for 3" through 24" Pipe

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

- All supports have an electro-galvanized finish
- Optional 316 stainless steel supports available
- Other coatings such as epoxy paint may be available, please inquire as to availability

Base Plate: ASTM A36 sheet steel

Threaded Rod: ASTM A307 rolled threads

Base Cup: ASTM A53 tubing

Adjustment Cap: ASTM A53 tubing

Flange Plate: ASTM A36 sheet steel



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

Flange Size (Class 125)	Trumbull Item No.	Flange Plate Dimensions	Threaded Rod	Base Plate	Extension Pipe Size*	Min. Height from Floor
3"	364-5870	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	4-1/2" x 2-1/2" x 1/4"				
6"	364-5872	5-1/4" x 2-1/2" x 1/4"				
8"	364-5873	6-1/2" x 2-1/2" x 1/4"				
10"	364-5874	6" x 2-1/2" x 1/4"				
12"	364-5875	6-1/2" x 2-1/2" x 1/4"				
14"	364-5876	7-1/2" x 3-1/2" x 3/8"	1-1/2"-6 NC x 6"	1/2" x 8" x 8"	3" Sch 40	10"
16"	364-5877					
18"	364-5878					
20"	364-5879					
24"	364-5880					

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Link-Seal® Modular Seals

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



TRUMBULL INDUSTRIES
Approved Link-Seal® Modular
Seal Master Distributor

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

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.



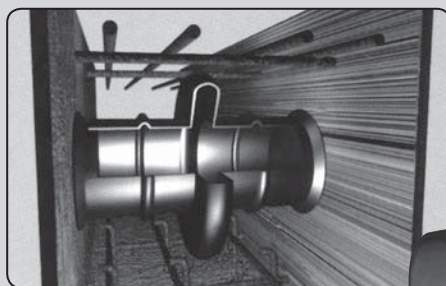
4. When the bolts are tightened, Link-Seal modular seals expand to create a gas and water tight seal.

An Industry-Leading 16 Sizes!

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

Century-Line® Sleeves

Use Century-Line® Sleeves for pipe penetrations
in poured concrete walls, floors and ceilings.



Trumbull Steel
Wall Sleeves
are shown on
page G-65.

- All non-metallic (HDPE)
- Lightweight, 1/8 weight of steel
- Easy for one man to install

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

Link-Seal® Modular Seal Sizing Charts for Standard Pipe

How to Order: Using the Provided Sizing Charts

1. Locate the type and size pipe being used.
2. Verify that your pipe O.D. matches the actual outside diameter shown on the chart.
3. Determine type of wall opening (Model CS, WS or Cast/Core bit drilled).
4. Determine Link-Seal® modular seal model to be used.
5. To order Link-Seal modular seals: under the appropriate wall opening column, Link-Seal modular seal size (from SIZE column), Link-Seal modular seal model (C, S-316, L, LS-316, LS-S61, O, OS-316, T or FD/FS) and indicate number of links required per seal (from LINKS PER SEAL column). [Example: LS-575-C-10]
6. To order corresponding sleeves indicate model number (from MODEL NUMBER column), length of sleeve and quantity required. [Example: CS-10-12"-1] **Note:** Contact Trumbull if your pipe sizing solution is not listed in the these charts.

Ductile Iron Pipe (DIPS, AWWA-C900, AWWA-C905, PVC Water Pipe)

PIPE SIZE (Nom.)	ACTUAL O.D. (Inches)	CENTURY-LINE® SLEEVE			STEEL SLEEVE			CAST OR CORE BIT DRILLED HOLE		
		MODEL NUMBER	LINK-SEAL® SIZE	LINKS PER SEAL	MODEL NUMBER	LINK-SEAL® SIZE	LINKS PER SEAL	HOLE I.D.	LINK-SEAL® SIZE	LINKS PER SEAL
2	2.500	CS-4*	LS-300-***	6	WS-3-1/2-22-S*	LS-200-***	8	4.000	LS-300-***	6
2-1/4	2.750	CS-4*	LS-275-***	10	WS-4-23-S*	LS-200-***	9	4.000	LS-200-***	9
3	3.960	CS-6*	LS-340-***	10	WS-6-28-S*	LS-340-***	9	6.000	LS-315-***	10
4	4.800	CS-8*	LS-410-***	7	WS-8-32-S*	LS-410-***	7	8.000	LS-410-***	7
6	6.900	CS-10*	LS-475-***	10	WS-10-36-S*	LS-410-***	10	10.000	LS-410-***	10
8	9.050	CS-12*	LS-400-***	9	WS-12-37-S*	LS-400-***	9	12.000	LS-400-***	9
10	11.100	CS-14*	LS-410-***	15	WS-14-37-S*	LS-340-***	24	14.000	LS-400-***	10
12	13.200	CS-18*	LS-575-***	15	WS-18-37-S*	LS-475-***	18	16.000	LS-360-***	21
14	15.300	CS-20*	LS-475-***	20	WS-20-37-S*	LS-575-***	17	18.000	LS-360-***	24
16	17.400	CS-22*	LS-360-***	28	WS-22-37-S*	LS-475-***	23	20.000	LS-360-***	27
18	19.500	CS-24*	LS-410-***	25	WS-24-37-S*	LS-575-***	21	24.000	LS-525-***	17
20	21.600	CS-25*	LS-400-***	20	WS-26-37-S*	LS-475-***	27	26.000	LS-525-***	19
24	25.800	CC-30**	LS-400-***	23	WS-30-37-S*	LS-400-***	23	28.000	LS-425-***	23
30	32.000	CC-38**	LS-500-***	28	WS-36-37-S*	LS-400-***	29	36.000	LS-575-***	34
36	38.300	CC-44**	LS-500-***	33	WS-44-1/2-37-S*	LS-500-***	33	42.000	LS-575-***	40
42	44.500	CC-50**	LS-500-***	38	WS-50-37-S*	LS-500-***	38	50.000	LS-500-***	38
48	50.800	CC-56**	LS-500-***	43	WS-57-37-S*	LS-500-***	43	56.000	LS-500-***	43

* = Specify sleeve length in inches ** = See Cell-Cast® *** = Specify LS Model C, S-316, L...etc when ordering (Example LS-475-C-17)

Technically there is no limit to the pipe size that can be sealed using Link-Seal® modular seals.

Steel and Plastic Pipe with Same Outside Diameter (IPS)

PIPE SIZE (Nom.)	ACTUAL O.D. (Inches)	CENTURY-LINE® SLEEVE			STEEL SLEEVE			CAST OR CORE BIT DRILLED HOLE		
		MODEL NUMBER	LINK-SEAL® SIZE	LINKS PER SEAL	MODEL NUMBER	LINK-SEAL® SIZE	LINKS PER SEAL	HOLE I.D.	LINK-SEAL® SIZE	LINKS PER SEAL
1/2	0.840	CS-2*	LS-200-***	4	WS-2-15-S*	LS-275-***	5	2.000	LS-200-***	4
3/4	1.050	CS-3*	LS-315-***	4	WS-2-1/2-20-S*	LS-275-***	6	3.000	LS-315-***	4
1	1.315	CS-3*	LS-300-***	4	WS-2-1/2-20-S*	LS-200-***	5	3.000	LS-300-***	4
1-1/4	1.660	CS-3*	LS-275-***	7	WS-3-21-S*	LS-275-***	8	3.000	LS-275-***	8
1-1/2	1.900	CS-3-1/2*	LS-275-***	8	WS-3-21-S*	LS-200-***	7	4.000	LS-315-***	6
2	2.375	CS-4*	LS-300-***	6	WS-3-1/2-22-S*	LS-200-***	8	4.000	LS-300-***	6
2-1/2	2.875	CS-4*	LS-200-***	9	WS-4-23-S*	LS-200-***	9	4.000	LS-200-***	9
3	3.500	CS-5*	LS-300-***	8	WS-6-28-S*	LS-360-***	7	5.000	LS-300-***	8
3-1/2	4.000	CS-6*	LS-340-***	10	WS-6-28-S*	LS-340-***	9	6.000	LS-315-***	10
4	4.500	CS-6*	LS-300-***	10	WS-6-28-S*	LS-300-***	10	6.000	LS-300-***	10
5	5.563	CS-8*	LS-360-***	10	WS-8-32-S*	LS-340-***	13	8.000	LS-340-***	13
6	6.625	CS-10*	LS-475-***	10	WS-10-36-S*	LS-475-***	10	10.000	LS-475-***	10
8	8.625	CS-12*	LS-475-***	12	WS-12-37-S*	LS-475-***	12	12.000	LS-475-***	12
10	10.750	CS-14*	LS-410-***	15	WS-14-37-S*	LS-425-***	10	14.000	LS-475-***	14
12	12.750	CS-16*	LS-475-***	17	WS-16-37-S*	LS-425-***	12	16.000	LS-475-***	17
14	14.000	CS-16*	LS-340-***	30	WS-18-37-S*	LS-475-***	18	18.000	LS-575-***	16
16	16.000	CS-20*	LS-410-***	21	WS-20-37-S*	LS-475-***	21	20.000	LS-575-***	18
18	18.000	CS-22*	LS-340-***	38	WS-22-37-S*	LS-475-***	23	22.000	LS-575-***	20
20	20.000	CS-25*	LS-500-***	18	WS-24-37-S*	LS-475-***	25	24.000	LS-475-***	26
22	22.000	CS-25*	LS-360-***	34	WS-26-37-S*	LS-475-***	28	26.000	LS-575-***	24
24	24.000	CC-30**	LS-500-***	21	WS-28-37-S*	LS-475-***	30	28.000	LS-475-***	31
26	26.000	CC-30**	LS-400-***	23	WS-30-37-S*	LS-400-***	23	30.000	LS-575-***	28
28	28.000	CC-32**	LS-400-***	25	WS-32-37-S*	LS-400-***	25	32.000	LS-575-***	30
30	30.000	CC-36**	LS-500-***	26	WS-34-37-S*	LS-400-***	27	34.000	LS-575-***	32
32	32.000	CC-38**	LS-500-***	28	WS-36-37-S*	LS-400-***	29	36.000	LS-575-***	34
34	34.000	CC-38**	LS-400-***	30	WS-40-37-S*	LS-500-***	29	38.000	LS-575-***	36
36	36.000	CC-42**	LS-500-***	31	WS-42-37-S*	LS-500-***	31	40.000	LS-575-***	38
42	42.000	CC-48**	LS-500-***	36	WS-48-37-S*	LS-500-***	36	46.000	LS-575-***	44
48	48.000	CC-54**	LS-500-***	40	WS-53-37-S*	LS-525-***	40	52.000	LS-575-***	50

* = Specify sleeve length in inches ** = See Cell-Cast® *** = Specify LS Model C, S-316, L...etc when ordering (Example LS-475-C-17)

Technically there is no limit to the pipe size that can be sealed using Link-Seal® modular seals.

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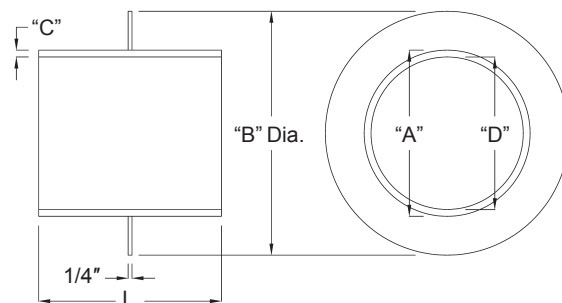
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Wall Sleeves

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

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. Shown below with Themec N140-1211 epoxy.



TRUMBULL

TRUMBULL INDUSTRIES, INC.

Phone: 330.799.3333 | 1040 N. Meridian Rd.
Toll Free: 800.677.1799 | P.O. Box 1556
Fax: 330.392.0756 | Youngstown, Ohio 44501

www.trumbull-mfg.com

Brass Hydrant Adapters

"Low Lead" Brass, Contains less than .25% Lead

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.



N.S.T. x M.I.P.

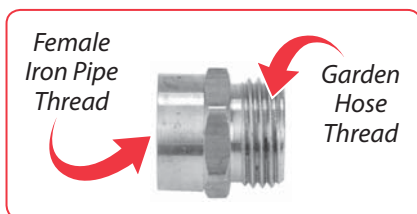
Trumbull Item No.	Female Thread	Male Thread	Weight
377-9001	2-1/2" NST	3/4" MIP	1.40 lbs.
377-9005	2-1/2" NST	1-1/2" MIP	1.40 lbs.
377-9009	2-1/2" NST	2" MIP	1.40 lbs.

N.S.T. x Garden Hose

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

F.I.P. x Garden Hose Adapter

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



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



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Fire Hydrant Nozzle Caps

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, allow approximately two weeks.

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



2-1/2" Hose Nozzle Cap



4-1/2" Steamer Nozzle Cap

Hydrant Nozzle Caps

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

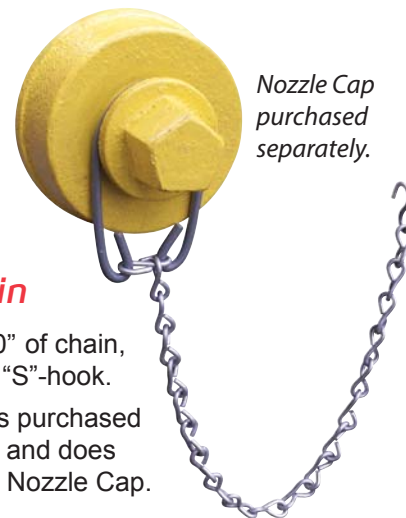
Trumbull Item No.	Product Description	Weight
392-0917	2-1/2" Hose Nozzle Cap	3.75 lbs.
392-0914	4-1/2" Steamer Nozzle Cap	8.10 lbs.

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

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

Hydrant Cap Gaskets

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



Hydrant Cap Chain

Includes 10" of chain, swivel and "S"-hook.

392-0860 is purchased separately, and does not include Nozzle Cap.

Trumbull Item No.	Weight
392-0860	0.20 lbs.

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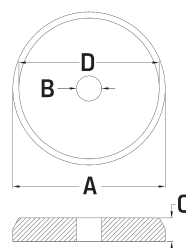
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Hydrant Valve Rubbers

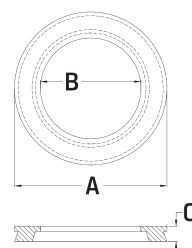


Please refer to the "Type" below for the pertinent dimensions in the table.

TYPE "A"



TYPE "B"



Hydrant Manufacturer	Model	Valve Opening	Trumbull Item No.
Ludlow	L 75 & L 90	4"	392-0200
	L 75 & L 90	4-1/2"	392-0201
	L 75 & L 90	5"	392-0100
Rensselaer	L 90A & L 90B	4"	393-0255
	L 90A & L 90B	5"	393-0260
Mueller* (Non-Reversible)	A421 (Centurion)	4-1/2"	377-5692
	Improved	4-1/4"	377-5694
	Improved	4-1/2"	377-5700
U.S. Pipe*	Smith* H200	4-1/2"	377-5702
American Darling*	B50B, 40-50-41	4"	377-4792
	B50B, 50-50-41	5"	377-5492
	B62B, 54-62-41	5-1/4"	377-6092
Kennedy*	K10, K11, K81, 1080, 1280	4-1/2"	378-0204
	K10, K11, K81	5-1/4"	378-0208

Type	"A"	"B"	"C"	"D"
B	5-3/8"	3-1/4"	5/8"	----
	5-3/4"	3-7/8"	5/8"	----
	6-1/2"	4-1/8"	5/8"	----
A	4-3/8"	2-3/8"	1"	3-7/8"
	5-5/8"	2-5/8"	1-1/4"	5-3/8"
	5"	1"	1-1/8"	4-1/4"
	4-7/8"	1"	1"	4-1/4"
	5"	1"	1-1/8"	4-1/2"
	5"	2-1/4"	3/4"	4-3/4"
	4-1/2"	2-1/16"	1"	4-1/8"
	5-3/4"	2-1/16"	1-3/16"	5-3/16"
	5-5/8"	1"	1"	5-3/16"
	5"	15/16"	7/8"	4-5/8"
	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
Industries is not affiliated with these companies.

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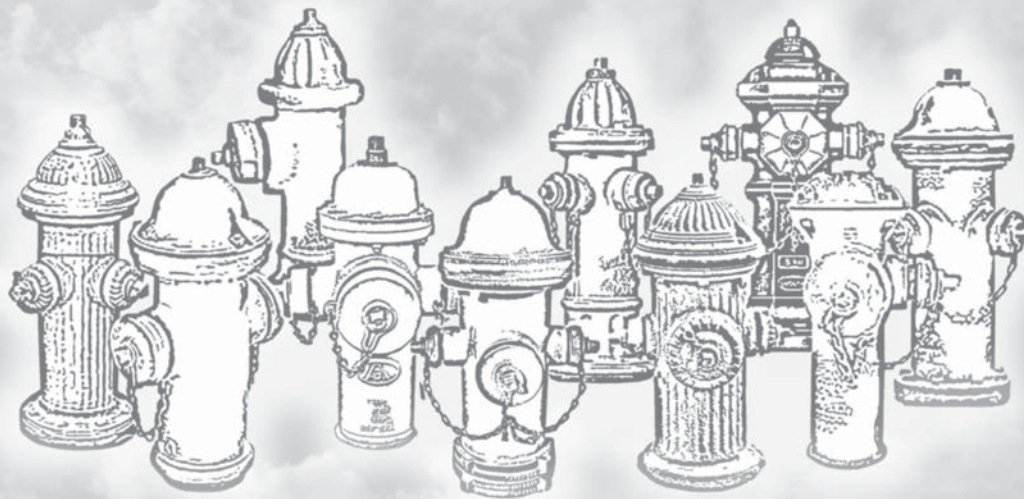
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Parts for Obsolete Hydrants

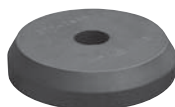


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Trumbull has over
25 YEARS EXPERIENCE
in the manufacturing of
fire hydrant repair parts.
Parts are available for many
makes and models.
Inquire for minimum
quantities and availability
of specific parts.



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



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

Inquire about parts for
OTHER MAKES & MODELS

THANKS FOR YOUR
INTEREST IN TRUMBULL
PRODUCTS!





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