

# TRUMBULL

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## **TRUMBULL TELESCOPING VALVES** **STAINLESS STEEL, RISING STEM WITH RACK AND PINION GEAR**

### Installation, Operation and Maintenance Manual

#### **Installation:**

Note : The “Riser Pipe” must be installed vertical, and in line with the final location of the rack & pinion operator.

Install Seal Plate, two (2) Split Seals, and Retainer Plate on riser pipe flange. Insert all bolts, but DO NOT tighten. Lube slip tube with food grade grease and insert thru the seal assembly. Tighten seal assembly bolts, being careful not to over tighten. The tighter the seal assembly bolts are, the harder the valve is to operate. Recommended starting torque for seal assembly bolts is 50 ft/lbs per bolt. Final adjustments to the seal assembly bolts should be made after the valve is completely installed. Thread hex nut on to the extension stem, and slide thru the bail of the slip tube. Thread another hex nut on the underside of the bail, followed by the jam nut. Attach the extension stem to the travel rack using the supplied coupling and pins (shorter stem lengths step may be assembled by Trumbull). Place pedestal over the travel rack being certain that the slip tube, extension stem and travel rack are in line and straight. Anchor pedestal to the floor or Trumbull Wall Mount Bracket as required. Remove Spirol-Loc from pinion gear and slide pinion gear out of the operator housing. Grease the travel rack using heavy duty machine grease. Place operator housing over the travel rack and fasten it to the pedestal using the supplied bolts. With the travel rack extended thru the top of the operator housing, re-install the pinion gear using the same Spirol-Loc. Thread the sight tube into the top of the operator housing. The use of a thread sealer is suggested. DO NOT over tighten, as this is PVC and will crack. Install handwheel using the supplied key stock, stem adapter and bolt.

#### **Final Valve Seal Adjustment:**

After the valve is completely installed, pull the locking pin and operate the valve.

If the rim pull required to operate the valve is too great, re-engage the locking pin, and loosen the seal assembly bolts 3 ft/lbs. per bolt. Pull the locking pin and operate the valve. Continue this process until the desired rim pull is achieved.

If you find the valve to be operating too easily, or you notice slippage of the slip tube, re-engage the lock pin and tighten the seal assembly bolts by 3 ft/lbs. Repeat process as necessary, until the desired rim pull is reached.

### **Operation:**

Trumbull Telescoping Valves are designed to control the fluid level of a tank by rotating a handwheel actuator clockwise or counterclockwise. Rotate the handwheel actuator clockwise to raise the fluid level; counterclockwise to lower the fluid level. Common ranges can be marked on the clear PVC sight tube.

### **Maintenance:**

The rack should be kept greased with heavy-duty machine grease at all times.

The seals will wear with use and may need replaced. If there is slippage of the slip tube, re-engage the lock pin and tighten the seal assembly bolts in 3 ft/lb increments until the seal assembly no longer slips. If the problem persists, new split seals will be required. Inspect both seals for any damage, such as rips or punctures. If any are found, new split seals will be required.

Unbolt seal assembly, slide up the retainer plate and remove the worn or damaged seals. Replace with new seals and reinstall retainer plate per instructions. Make seal assembly adjustments if necessary per instructions in “Final Valve Seal Adjustments” section above.

Contact Trumbull for all necessary replacement parts. Contact information can be found at our website: [www.trumbull-mfg.com](http://www.trumbull-mfg.com).

### **Storage before installation:**

There are no special requirements for storage of these Telescoping Valves; their intended use can be more severe than environmental conditions. However, the valves should be handled with proper care and attention during shipment, handling, and storage to prevent physical damage, especially from contact with material handling equipment.