

TELESCOPING VALVES    MUD VALVES    FLAP VALVES    SHEAR GATES

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**SECTION \_\_\_\_\_**

**TELESCOPING VALVES**

**1.0 GENERAL CONDITIONS**

**1.1 SCOPE OF WORK**

- A. The contractor shall furnish all labor, materials, equipment and incidentals required for installation of telescoping valves

**1.2 QUALITY ASSURANCE**

- A. The manufacturer shall have experience 10 years manufacturing telescoping valves and shall show evidence of satisfactory operation in at least 5 installations. The manufacturer's shop welds, welding procedures, and welders shall be qualified and certified in accordance with the requirement of the latest edition ASME, Section IX. The manufacturer must also be an ISO 9001 certified company.

**1.3. SUBMITTALS**

- A. The manufacturer shall submit drawings requiring critical dimensions, general construction, and materials used in the valve and lift mechanism.

**2.0 PRODUCT**

**2.1 GENERAL DESIGN**

**A. SLIP TUBE**

- a. The slip tube material shall be stainless steel (304 or 316).
- b. The slip tube may be supplied square on top or with a V-notch for estimating flow.
- c. Cone weirs and/or Scum baffles shall be stainless steel (304 or 316) when required.

**B. GREASE FITTING**

- a. When required, slip tubes shall be equipped with a grease fitting to allow the operator to apply grease to the slip tube from the operator level. The fitting shall be used when flange is often exposed to dry air, or in a dry application completely.

**C. FLANGE**

The slip tube gasket shall be BUNA-N and replaceable without removal of the slip tube assembly from the riser pipe, lift rod or actuator. The gasket retainer shall be stainless steel and the flange shall be cast iron, unless otherwise specified.

**D. SAFETY LOCK OPERATORS**

**a. RACK & PINION**

- i. The operator shall be rising stem, rack and pinion type, with a worm gear operator and bronze bearings. For safety and efficiency, the operator shall be self-locking, eliminating the need for additional locking devices. A clear acrylic rack cover with a calibrated Mylar strip position indicator shall be provided.

**b. NON-RISING STEM**

- i. The operator shall be a non-rising stem style with a hand wheel and linear position indicator, calibrated in 1/4" increments, incorporated in the stainless steel floor stand. A stainless steel traveling torque tube and stainless steel anti-rotation plate shall be incorporated to prevent the slip tube from rotating. All fasteners are to be 304 stainless steel.

**c. SCREW TYPE**

- i. The operator shall be screw type with a stainless steel acme thread screw. A clear acrylic rack cover with a calibrated Mylar strip position indicator shall be provided.

DI. The telescoping valve shall be machined, assembled, and tested in the USA for quality assurance.

DII. Manufacturer shall show proof of ISO 9001 certification.

DIII. Where required, the manufacturer shall provide valve operating stems, stem guides, and operators as specified in the valve schedule or plans.

DIV. Telescoping Valve and accessories shall be manufactured by Troy Valve or approved equal.