

## **HYDROSTATIC TANK PRESSURE RELIEF VALVES**

### *Sample Specifications*

#### **PURPOSE:**

Tank Pressure Relief Valves prevent sub-grade concrete tanks from becoming buoyant and floating from hydrostatic pressure. The cover will open, allowing water to enter, to equalize pressure inside and outside of the tank. The cover will open when the external pressure exceeds internal pressure by just several inches of head.

#### **AVAILABLE IN TWO TYPES:**

Two types are Floor Type and Wall Type. Wall Type Valves are best when bottom scrapers or sweepers are used in tanks.

#### **WALL TYPE PRESSURE RELIEF VALVES:**

Wall Type Pressure Relief Valves shall have a removable strainer retained inside of the wall valve. Pressure Relief Valves with strainers in the Wall Pipe rather than the Wall Valve are NOT acceptable. Wall Pipe shall be a gray iron casting, with bolt holes tapped for studs, to allow for flush mounting inside tank wall. Wall Pipes shall be cut to the thickness of the wall. The use of PVC pipe for extending the length of Wall Pipe is NOT acceptable. Wall collar will be integrally cast. Flange on both Wall Pipe and Wall Valve shall comply with ANSI Class 125 in terms of outside diameter and bolt circle, as well as thickness. Thickness for 4" and 6" flanges will be 15/16" and 1" respectively. Hinge pin connecting lid and cover shall be made of stainless steel.

#### **FLOOR TYPE PRESSURE RELIEF VALVES:**

Floor Type Pressure Relief Valves shall be cast iron with integrally cast collar. The lid can be removed by rotating in either direction, to release the locking lugs inside the valve. Strainer can be removed by rotating in either direction, by aligning the valves internal lugs with openings in the strainer. Floor Type Pressure Relief Valve shall be cut to the length required. The use of PVC pipe for extending the length of Floor Valves is NOT acceptable.

#### **SEALS:**

Seals shall be of Buna Rubber on both body and lid. Seals shall be of a wrap-around design that surrounds body and lid on four sides to prevent separation. In addition, seals shall be bonded to body and lid with adhesive. Seals on both Wall and Floor Type Tank Pressure Relief shall be field-replaceable. All iron components of valves shall be coated with an NSF-61 approved paint. Tank Pressure Relief Valves shall be provided by Trumbull Industries, Youngstown, Ohio or approved equal.

#### **DIAMETER:**

Both Floor Type and Wall Type Valves are available in both 4" and 6" sizes.

#### **COATING:**

Valve, Strainer and Wall Pipe shall be coated with a black NSF-61 approved coating.

#### **INSTALLATION:**

Installation - A pocket of clean crushed stone approximately 1" to 1-1/2" diameter should be placed at the external port of the Wall Pipe or Floor Valve.