

## SECTION 220519 – METERS AND GAUGES FOR PLUMBING PIPING

## PART 1-GENERAL

## 1.1 SECTION INCLUDES

- A. Thermometers and fittings.
- B. Pressure gauges and fittings.

## 1.2 SUBMITTALS

- A. Submit shop drawings and product data per applicable Division I Specification.
- B. Shop drawings shall include product data noting materials, sizes, and dimensions.

## PART 2-PRODUCTS

## 2.1 MANUFACTURERS

- A. Trerice
- B. Ashcroft
- C. Weiss

## 2.2 COMPONENTS

- A. Thermometers: 1-percent accuracy.
  - 1. Non-toxic, organic filled liquid-in-gas, column type thermometer, rated for potable water.
- B. Pressure Gauges: Phosphor-bronze Bourdon-tube gages, 1-percent accuracy.
  - 1. Vacuum Range: 30 inches Hg of vacuum to 15 psig of pressure.
  - 2. Pressure Range: Two-times operating pressure.
  - 3. Liquid filled pressure gauge where appropriate. Liquid shall be non-toxic, organic type.
  - 4. Rated for portable water/gas as being applied.

## PART 3-EXECUTION

## 3.1 INSTALLATION

- A. Provide thermometers at the following locations:
  - 1. Outlet hot water connections of domestic water heaters.
  - 2. At all domestic thermostatic mixing valve piping connections.
- B. Provide pressure gauges at the following locations:
  - 1. One pressure gauge with 2 independent needle valves piped to the incoming water service.
  - 2. Outlet piping of each water heater with 200 MBH input or greater.

3. Domestic cold water fill connection to the HVAC hydronic loop downstream of the pressure reducing valve.

END OF SECTION 220519