

SECTION 15122 - METERS AND GAGES

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes temperature gages/thermometers for mechanical systems.

1.03 SUBMITTALS

- A. Product Data: Include scale range and ratings for each gage specified.
- B. Shop Drawings: Include schedule indicating manufacturer's number, scale range, fittings, and location for each gage.
- C. Product Certificates: Signed by manufacturers of gages certifying accuracies under specified operating conditions and compliance with specified requirements.
- D. Maintenance Data: For gages to include in maintenance manuals specified in Division 1.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Bimetal Dial Thermometers:
 - a. Dresser Industries, Inc.; Instrument Div.; Ashcroft Commercial Sales Operation.
 - b. Dresser Industries, Inc.; Instrument Div.; Weksler Instruments Operating Unit.
 - c. Ernst Gage Co.
 - d. Marsh Bellofram.
 - e. Tel-Tru Manufacturing Co., Inc.
 - f. Trerice: H. O. Trerice Co.
 - g. Weiss Instruments, Inc.
 - h. Weksler Instruments Corp.

2.02 THERMOMETERS, GENERAL

- A. Scale Range: Temperature ranges for services listed are as follows:
 - 1. Domestic and Heating Hot Water: 20 to 240 deg F, with 2-degree scale divisions.
- B. Accuracy: Plus or minus 1 percent of range span or plus or minus one scale division to maximum of 1.5 percent of range span.

2.03 BIMETAL DIAL THERMOMETERS

- A. Description: ASME B40.3; direct-mounting, universal-angle dial type.
- B. Case: Stainless steel with 5-inch- diameter, glass lens.
- C. Adjustable Joint: Finish to match case, 180-degree adjustment in vertical plane, 360-degree adjustment in horizontal plane, with locking device.
- D. Element: Bimetal coil.
- E. Scale: Satin-faced nonreflective aluminum with permanently etched markings.

- F. Stem: Stainless steel, maximum 2-1/2" length.
- G. Manufacturer and Model:
 - 1. Weksler AF/AU-02 Series or approved equal.

2.04 THERMOMETER WELLS-SEPARABLE SOCKETS

- A. Description: Fitting with protective well for installation in threaded pipe fitting to hold test thermometer.
 - 1. Material: Brass, for use in copper piping.

PART 3 EXECUTION

3.01 GAGE INSTALLATION, GENERAL

- A. Install gages, and accessories according to manufacturer's written instructions for applications where used.

3.02 THERMOMETER INSTALLATION

- A. Install thermometers and adjust vertical and tilted positions.
- B. Install thermometer wells-separable sockets in vertical position in piping tees where thermometers are indicated.

3.03 ADJUSTING AND CLEANING

- A. Adjust faces of gages to proper angle for best visibility.
- B. Clean windows of gages and clean factory-finished surfaces. Replace cracked and broken windows, and repair scratched and marred surfaces with manufacturer's touchup paint.

END OF SECTION 15122