# GENERAL

## SECTION INCLUDES

### Pressure gauges and pressure gauge taps.

### Piping pressure and temperature test plugs.

## REFERENCE SECTION 21 05 00 FOR THE FOLLOWING:

### REFERENCES

### SUBMITTALS

### PROJECT RECORD DOCUMENTS

#### Accurately record actual locations of instrumentation.

## ENVIRONMENTAL REQUIREMENTS

### Do not install instrumentation when areas are under construction, except for required rough‑in, taps, supports and test plugs.

# PRODUCTS

## PRESSURE GAUGES

### Type: General use, ASME B40.1, Grade A, phosphor bronze bourdon-tube type, bottom connection, liquid-filled.

### Case: Drawn steel or brass, glass lens, 4-1/2-inches diameter.

### Connector: Brass, 1/4-inch NPS.

### Scale: White coated aluminum, with permanently etched markings.

### Accuracy: Plus or minus 1 percent of range span.

### Range: Conform to the following:

#### Vacuum: 30 inches Hg to 15 psi.

#### All fluids: 2 times operating pressure.

## PRESSURE GAUGE ACCESSORIES

### Syphon: 1/4-inch NPS straight coil constructed of brass tubing with threads on each end.

### Snubber: 1/4-inch NPS brass bushing with corrosion-resistant porous metal disc. Disc material shall be suitable for fluid served and rated pressure.

## PIPING PRESSURE AND TEMPERATURE TEST PLUGS

### Test Plugs shall be nickel-plated brass body, with 1/2-inch NPS fitting and 2 self-sealing valve-type core inserts, suitable for inserting a 1/8-inch O.D. probe assembly from a dial-type thermometer or pressure gage. Test plug shall have gasketed and threaded cap with retention chain and body of length to extend beyond insulation. Pressure rating shall be 500 psig.

### Core Material: Conform to the following for fluid and temperature range:

#### Air, Water, Oil, and Gas, 20 to 200 deg F: Neoprene.

# EXECUTION

## GENERAL

### Install in accordance with manufacturer's instructions and NFPA 13 and NFPA 14 requirements.

## PRESSURE GAUGES

### Install pressure gauges in piping tee with pressure gauge valve, located on pipe at most readable position.

### Install as shown on plans, and elsewhere as indicated.

### Pressure Gauge Ball Valves: Install in piping tee with snubber. Install syphon in lieu of snubber for steam pressure gages.

## TEST PLUGS

### Test Plugs: Install where indicated, located on pipe at most readable position. Secure cap.

## ADJUSTING AND CLEANING

### Adjusting: Adjust faces of meters and gauges to proper angle for best visibility.

### Cleaning: Clean windows of meters and gauges and factory-finished surfaces. Replace cracked and broken windows, and repair scratched and marred surfaces with manufacturer's touch-up paint.

END OF SECTION 21 05 19