

STANDARD SPECIFICATION
SECTION 13437 PRESSURE GAUGES

PART 1 - GENERAL

1.01 DESCRIPTION

This section includes materials and installation of pressure gauges and accessories.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Standard Drawings.
- B. Record Drawings and Submittals: STD SPEC 01300.

1.03 SUBMITTALS

- A. Submit submittal packages in accordance with Standard Specification Section 01300.
- B. Submit manufacturer's catalog data and descriptive literature. Show materials of construction by specification reference and grade.

PART 2 - MATERIALS

2.01 MANUFACTURERS

Gauges and tools shall be as manufactured by Ashcroft, Crosby, Marshalltown, Marsh, or District approved equal.

2.02 GAUGE DESIGN

Gauges shall comply with ANSI B40.1, Grade A. Gauges shall incorporate the following features:

- A. Side or rear blowout relief.
- B. Pressure tight.
- C. 270-degree arc with adjustable pointer.
- D. 1/4-inch stem connection, unless otherwise indicated.
- E. Dial size 3-1/2 inches, unless otherwise indicated.
- F. Liquid filled silicone or glycerine.
- G. Gauge range shall be approximately two times the normal operating pressure or 133% of the maximum pressure, whichever is higher.

2.03 MATERIALS OF CONSTRUCTION

Materials of construction shall be as follows:

| Component | Material | Specification |
|--------------|--|-----------------------|
| CASE | Stainless Steel | AISI 316 |
| Bourdon Tube | Stainless Steel | AISI 316 |
| Window | Acrylic Plastic | — |
| Ring | Stainless Steel | AISI 316 |
| Stem | Stainless Steel | AISI 316 |
| Dial Face | Aluminum with clear baked on acrylic coating | ASTM B 209 6061-T6 |

2.04 PIPE NIPPLES AND FITTINGS

Nipples for connecting gauges to piping shall be brass, regular weight, per ASTM B 43. Threaded fittings shall be bronze, Class 125 or 250, per ANSI B16.15. Use Class 250 where the pressure exceeds 200 psi. Size of nipple shall match the gauge connection size.

2.05 TOOLS FOR GAUGES

Provide two gauge tool kits, each containing a hand jack set, screwdriver, five reamers (minimum), two pin vise holders, wiggler, tweezer and carrying case.

2.06 GAUGE COCKS

Gauge cocks shall be two way or as shown on the Drawings. Gauge cocks shall be brass or bronze, ASTM B 61 or B 62. End connections shall be NPT, female. Cocks shall be Lunkenheimer 1178, or District approved equal.

PART 3 - EXECUTION

3.01 INSTALLATION

Clean threaded joints by wire brushing or swabbing. Apply Teflon joint compound or Teflon tape to threads before installing. Joints shall be watertight. Install gauges before conducting pressure tests.

END OF SECTION