

SECTION 02643

PRESSURE REDUCING VALVES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Pressure reducing valves (PRV).

1.02 UNIT PRICES

- A. Measurement is on a lump sum basis for each valve installed.
- B. Payment includes valve boxes and necessary fittings and appurtenances necessary for complete installation of valve. The Owner's Representative may request a detailed schedule of values for more complex installations.

1.03 SUBMITTALS

- A. Submittals shall conform to requirements of all provisions and sections of these specifications.
- B. Submit manufacturer's product data for proposed valves for approval.

1.04 QUALITY CONTROL

- A. Provide manufacturer's affidavit that pressure-reducing valves purchased for Work, were manufactured and tested in the United States, and conform to applicable requirements of this Section.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Provide Cla-Val Model 90-01, or equal, PRV with strainer in location and arrangement as shown on Drawings. Valve body: ASTM A48, cast iron or ASTM A126, Class B, cast iron with ANSI B16.1, Class 125, flanges. Valve cover: ASTM A48 cast iron. Valve internals: Type-303, stainless steel or B-62 bronze. Rubber parts: Buna-N. No leather parts shall be allowed. Resilient seat shall have rectangular cross section.
- B. Control Tubing: Contain shutoff cocks with "Y" strainer.

- C. PRV: Equip with valve position indicator. Initially set in field by authorized manufacturer's representative with 60 psi downstream pressure.
- D. Provide basket strainer upstream of PRV as shown on Drawings. Strainer body: quick-opening type, fabricated-steel construction with ANSI B16.1, Class 150, flanges. Basket: Type-304, stainless steel. Provide Hayward Model 90, or equal, for PRV 4-inch through 24-inch. Provide Hayward Model 510, or equal, for PRV 14 inches or greater when space limitations dictate the use of smaller strainer housing.
- E. Pilot Systems for PRV: Adjustable and pressure sustaining.
- F. Valve Box: Valve Box conforming to requirements of Section 02604.

PART 3 EXECUTION

3.01 EARTHWORK

- A. Conform to applicable provisions of Section 02227.

3.02 SETTING VALVES AND VALVE BOXES

- A. Provide services of technical representative of valve manufacturer available on site during installation of valves and to advise on aspects of installation.
- B. Prior to installing valves, remove foreign matter from within valves. Inspect valves in open and closed position to verify that all parts are in satisfactory working condition.

3.03 DISINFECTION AND TESTING

- A. Disinfect valves and appurtenances as required by Section 02675 and test as required by Section 02676.

3.04 PAINTING OF PIPING

- A. Paint valves located in vaults, stations, and aboveground using ACRO Paint No. 2215, "Galveston Blue" or approved equal, unless otherwise directed by Owner's Representative.

END OF SECTION