



Specification

Steam Regulating Valves

Category: Control Valves
Type: Steam Regulating Valves
Model: GP-2000

PART 1 GENERAL

1.01 WORK INCLUDED

1.02 RELATED WORK

1.03 SUBMITTALS

- A. Shop drawings shall indicate assembly, dimensions, weights, construction details and all field connection details and all mounting details.
- C. Product data shall indicate dimensions, weights, capacities, ratings, construction details, electrical characteristics if required.
- D. Submit manufacturer's installation instructions and operating and maintenance manuals.

1.04 DELIVERY, STORAGE AND HANDLING

- A. Deliver products to site in factory fabricated protective containers.
- B. Store in a clean dry place and protect from weather and construction traffic, handle carefully to avoid damage.

1.05 ENVIRONMENTAL CONDITIONS

- A. Do not operate unit for any purpose, temporary or permanent until all connections have been made and all safety controls are functioning properly.

1.06 WARRANTY

- A. Provide manufacturer's one-year standard warranty.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS: Subject to compliance with requirements, provide products by the following:

- A. Armstrong International, Inc.

- i. STEAM SEPARATORS: Armstrong DS Series

- a. All steam separators shall be in-line type using centrifugal force of the steam by introducing it to a specifically shaped path within the separator body for operation.
- b. Installed with proper drainage the separator will eliminate 98% of all entrained moisture and particles that are 10 microns and larger in size.
- c. Separators shall be of ductile iron construction or fabricated carbon steel construction with ASME label.
- d. Separator shall have no internal moving parts.

- e. Separators shall have no internal screens or media that can become fouled and require cleaning.
 - f. Separators shall have minimal pressure drop.
- ii. STEAM PRESSURE REDUCING VALVES: Armstrong GP-2000 Series
 - a. All steam pressure reducing stations shall be of an externally piloted design. Steam pressure reducing valves shall be installed in the size and configuration described in the equipment schedule or installation drawings. Typical installation configuration will be single stage, two-stage or a parallel valve reducing (typically 1/3 – 2/3) station.
 - b. Regulators shall have the pilot valve integrally mounted to the main valve.
 - c. Regulator valve body shall be constructed of ductile iron with NPT connections (1/2" – 2") or flanged connections (2" – 6") sized and rated for the capacity and system working pressure.
 - d. Regulator outlet pressure accuracy shall be +/- 1% from 5 to 100% of flow.
 - e. Regulator shall be field adjustable to desired set pressure and the valve shall be rated for dead end service (Class IV).
 - f. The valve and seat shall be of hardened stainless steel.
 - g. The diaphragms shall be of stainless steel.
 - h. All working parts shall be renewable inline.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install as indicated on drawings and as indicated in schedules in accordance with manufacturer's instructions.

3.02 MANUFACTURERS FIELD SERVICES:

- A. Supply services of factory trained representative to check installation for compliance with manufacturer's requirements and to supervise start-up and testing of humidifiers.

END OF SECTION