

ORIFICE SLEEVE VALVES

PART 1 - GENERAL

1.1 THE REQUIREMENT

- A. The CONTRACTOR shall furnish and install in-line orifice sleeve type pressure regulating/flow control valve assemblies complete and operable as shown and specified herein and in accordance with the requirements of the contract documents

1.2 RELATED WORK SPECIFIED ELSEWHERE

- A. Section Valves, General.

1.3 CONTRACTOR SUBMITTALS

- A. The CONTRACTOR shall submit layout drawings with complete information as outlined in Section "Valves, General."
- B. With the layout drawings, the contractor shall submit:
 - 1) Layout drawings shall be drawings of the valve showing all envelope dimensions including material callout.

1.4 SUBSTITUTION

- A. Where horizontal in-line orifice sleeve valves are shown or specified, the contractor shall not substitute globe style valves that are not pre-approved.

PART 2 - PRODUCTS

2.1 OPERATING REQUIREMENTS

- A. Performance: The valve shall be designed and guaranteed for at least five years to operate throughout its range without cavitation damage, excessive noise or vibration, for the conditions stated below. Material stresses shall not exceed 1/5 of the ultimate or 1/3 of the yield strength of the material.

2.2 EQUIPMENT REQUIREMENTS

Valve Assembly Components: The orifice assembly shall consist of a flanges cylinder and end cap. The orifice shall be fabricated form 304 stainless steel and shall contain control orifices. The number and size of the orifices shall be determined by the valve manufacturer.

- C. Valve manufacturer:
 - 1. Orifice Sleeve Valve Model B-16 as manufactured by Bailey Valve Inc.

2.3 MATERIAL REQUIREMENTS

- A. Assembly components shall be manufactured from the following materials:
 - 1. Orifice - Type 304 stainless steel
 - ASTM A358
 - ASTM A276
 - ASTM A240 Type 304L

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Valve installation shall be in strict accordance with the manufacturer's printed recommendations, and the Contract Documents.

3.2 WORKMANSHIP

- A. Valves shall be free from manufacturing defects and shall be manufactured in a workman like manner. Welds shall conform to ASME Section VIII or IX standards for pressure vessels and be free from mill and scale.

3.2 FIELD TESTING AND PERFORMANCE

- A. Valves shall be field tested to the specified operating pressure. The pressure drop across the valve shall be measured to insure that the valve is free of obstructions.

- D. Any excessive noise or vibration shall be resolved by the manufacturer including possible replacement of the valve at the manufacturers expense.