



## SECTION 221119 – DOMESTIC WATER PIPING SPECIALTIES

### PART 1: GENERAL

#### SCOPE

This section includes specifications for thermostatic mixing valves and other plumbing specialties.

#### Part 1 – GENERAL

Scope

Related Documents

Reference Standards

Quality Assurance

Shop Drawings

Operation and Maintenance Manuals

#### Part 2 – PRODUCTS

Thermostatic Mixing Valves

#### Part 3 – EXECUTION

Installation

#### RELATED DOCUMENTS

Section -

#### REFERENCE STANDARDS

ASSE - 1017 Temperature Actuated Mixing Valves

#### QUALITY ASSURANCE

Substitution of Materials: Refer to other sections. Requests for substitutions must be submitted with complete technical data. Substitutions will only be reviewed when submitted with associated cost savings to the owner.

#### SHOP DRAWINGS

For each type and size valve provide pressure drop data at specified flow rate. Valves which exceed the scheduled pressure drop will not be acceptable.

#### OPERATING and MAINTENANCE DATA

Manufacturer shall provide installation and adjusting instructions. Contractor shall mount instructions at the valve location.

### PART 2: PRODUCTS

#### TEMPERATURE ACTUATED WATER MIXING VALVES

- A. Primary, Thermostatic Water Mixing Valves
  1. Manufacturers: Holby Valve Inc.
  2. Standard: ASSE 1017-2009
  3. Pressure Rating: 125 psig
  4. Factory Test Pressure: All valves shall be factory tested to 300 psig.
  5. Construction: Valves shall be constructed completely of bronze. Valve body to include mixing chamber with vanes. Thermostatic element shall be removable without disconnecting piping. Size as indicated on drawings. Holby Tempering Valve.
  6. The thermostatic element shall have a minimum length as per the following schedule: 1/2" and 3/4" Valves – 7-1/4" element length; 1" Valve – 11" element length; 1-1/4" valve – 18" element length; 1-1/2" and 2" valves – 23" element length and 2-1/2", 3" and 4" valves – 27" element length.
  7. Spare parts: Provide the following spare parts at time of owner instructions. (1) Thermostatic element, (1) piston and (3) gaskets. Spare parts shall be boxed and clearly marked by the manufacturer.

### PART 3: EXECUTION

#### INSTALLATION

Coordinate location and setting of plumbing specialties with adjacent construction. Install in accordance with manufacturers recommendations.

Install thermostatic mixing/tempering valves as indicated on drawings and per valve manufacturer's recommendations. Install valve with 27" thermal loop on cold water inlet side of valve. Adjust outlet temperature to deliver maximum 125° F.

**END OF SECTION**