

Modify subsection .02.A.4 in Section 23 05 01 per the following (deletions are shown struck through and additions are double underlined). Remainder of section is unchanged.

## 23 05 01 Mechanical General Requirements

### .02 Valves

#### A. General

1. Locate valves for easy access and provide separate support where necessary.
2. Install valves in position to allow full handle and/or stem movement.
3. Install valves in horizontal piping with stem at or above center of pipe.

4. ~~Where piping is insulated~~ Coordinate with pipe insulation requirements.

~~4.a. p~~ Provide extended-stem valves, arranged in proper manner to receive specified insulation thickness. Insulation cut away to receive standard stems is not acceptable.

b. For ball valves on piping systems requiring up to 2" of insulation, specify valve manufacturer's optional thermally insulated, extended tee-handles (similar to Apollo "Therma-Seal"). Features shall include a high strength, reinforced polymer body, fabricated to maintain vapor seal, internal insulation plug for enhanced thermal and vapor sealing, position indicators, formed holes for identification tag, tested and classified to UL 2043 for air plenum service, convenient valve packing maintenance—all without disturbing the insulation. Piping insulation shall be secured directly onto the integrated plastic sleeve without being disturbed during valve operation.

1. Caution: Handle should not be used in applications where its temperature will exceed 275°F (confirm limits with specific manufacturer).

c. Refer to 23 07 00 HVAC INSULATION for requirements for valve manufacturer's optional preformed 2-piece insulation kit covers (similar to products offered by TA Hydronics) for balance valves.

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END of revision

Update Commentary:

Section was updated primarily for the following reasons:

- 1) *To modify general valve requirements for pipe insulation coordination to add insulated tee-handles for ball valves and preformed insulation kit covers for balancing valves.*

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