SERIES E, ES, & VC BALL VALVES
INSTALLATION, OPERATION, AND MAINTENANCE

The Series E, ES, and VC Ball Valves are characterized ball valves designed for use in HVAC applications for control of coils and low pressure steam. Series E are brass body with chrome plated balls, Series ES are brass body with stainless ball/stem, and Series VC valves are carbon steel body with stainless ball/stem.

WARNING!

Special considerations must be taken with respect to pipe line expansions and contractions and the media expansion and contractions within the piping system.

INSTALLATION

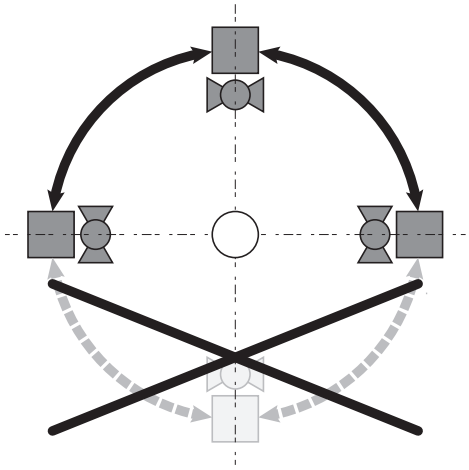
Mating pipe connections should be accurately threaded, clean and free of foreign material or metal shavings. Two to four wraps of PTFE pipe tape (or pipe dope, but not both) should be applied to the male threads. Two wrenches must be used when making up pipe joints to these valves. Apply one flat-faced wrench on the valve hex closest to the pipe joint being tightened and use a pipe wrench on the pipe to prevent transmitting torque through the valve body joint. Typical wrench make-up is 1-1/2 turns after installing the pipe hand-tight. Do not overtighten the valve onto the pipe, as this can damage or distort the valve. Do not reverse-

INSTALLATION (Cont.)

rotate after tightening as this can damage the body/retainer seal.

Valve is bidirectional, however for valves with characterized port install valve with flow in the direction of the arrow cast into the side of the valve. Installation in the wrong direction will cause flow coefficient to be different than advertised.

For vertical pipes the valve may be installed in any rotation index. For horizontal pipes the valve must be installed with the shaft at a location between 9 and 3 o-clock; with the shaft no more than 90 degrees from vertical.



OPERATION

Valves close in the clockwise direction. All Series E, ES, & VC are to be equipped with automated valve operators, operation of the operators are covered in their manufacturers' specific documentation.

MAINTENANCE

Operate valves open and close at least once a month. There are no user serviceable parts within the Series E, ES, or VC. All Series E, ES, & VC are to be equipped with automated valve operators, maintenance of the operators are covered in their manufacturers' specific documentation.

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