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ANSI/ISA-S75.16-1994

Approved April 24, 1994

American National Standard

Face-to-Face Dimensions for Flanged Globe-Style Control Valve Bodies (ANSI Classes 900, 1500, and 2500)



ANSI/ISA-S75.16, Face-to-Face Dimensions for Flanged Globe-Style Control Valve Bodies (ANSI Classes 900, 1500, and 2500)

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1 Scope

1.1 This standard applies to flanged control valves, sizes 15 mm (1/2 inch) through 450 mm (18 inches), having top, top and bottom, port, or cage guiding.

2 Purpose

2.1 The purpose of this standard is to aid users in their piping design by providing ANSI Classes 900, 1500, and 2500, raised-face, flanged control valve dimensions, without giving special consideration to the equipment manufacturer to be used.

2.2 The short-long dimensions provided in Table 1 clarify Section 2.1 by consolidating the diversity of existing manufacturers' lengths into two sets of dimensions for each valve size. Before using either the short or long dimension, the piping designer should confirm with the selected valve manufacturer which dimension is correct for the valve(s) being supplied.

3 Definitions

3.1 For definitions of terms used in this standard, see ANSI/ISA-S75.05, "Control Valve Terminology."

4 Bibliography

The following references are included for the definition of pressure classes, flange dimensions, material identification, and cross-reference information. They were developed by the American Society of Mechanical Engineers (ASME).

4.1 American National Standards Institute, Inc. (ANSI), Standard ANSI/ASME B16.34-1988, "Valves — Flanged, Threaded, and Welding End."

4.2 American National Standards Institute, Inc., Standard ANSI/ASME B16.5-1988, "Pipe Flanges and Flanged Fittings."

4.3 American National Standards Institute, Inc., Standard ANSI/ASME B16.10-1986,"Face-to-Face and End-to-End Dimensions of Valves."