

**ANSI/ISA-S75.20-1991**

Approved February 28, 1993

American National Standard

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**Face-to-Face Dimensions  
for Separable Flanged  
Globe-Style Control Valves  
(ANSI Classes 150, 300, and 600)**



ANSI/ISA-S75.20 — Face-to-Face Dimensions for Separable Flanged Globe-Style Control Valves (ANSI Classes 150, 300, and 600)

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## 1 Scope

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This standard applies to separable flanged globe-style control valves, sizes 1 inch through 4 inches.

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## 2 Purpose

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The purpose of this standard is to aid users in their piping design by providing ANSI Classes 150, 300, and 600 raised face separable flanged control valve dimensions without giving special consideration to the equipment manufacturer to be used.

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## 3 Definition

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**separable flanges:** Non-integral loose flanges held to the vessel/valve by mechanical means such as retaining rings or swaged rims.

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## 4 Bibliography

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The following bibliography is included for the definition of pressure classes, flange dimensions, material identification, and cross reference information. [Items 4.1, 4.2, and 4.3](#) are published by ASME (American Society of Mechanical Engineers).

**4.1** American National Standards Institute, Inc. (ANSI) Standard B16.5-1988, "Pipe Flanges and Flanged Fittings."

**4.2** American National Standards Institute, Inc. (ANSI) Standard B16.10-1986, "Face-to-Face and End-to-End Dimensions of Ferrous Valves."

**4.3** American National Standards Institute, Inc. (ANSI) Standard B16.34-1988, "Valves-Flanged, Threaded, and Welding End."

**4.4** ISA, ANSI/ISA-S75.03-1985, "Face-to-Face Dimensions for Flanged Globe Style Control Valve Bodies."

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## 5 Dimensional data

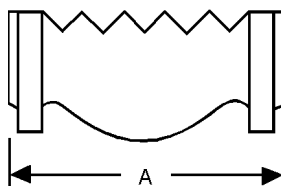
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For face-to-face dimensions for separable flange globe-style control valves, see [Table 1](#).

**Table 1 — Face-to-face dimensions**

Nominal valve size		ANSI Class 150, 300, 600		Tolerance	
		Dimension A			
mm	inches	mm	inches	mm	inches
25	1	216	8.50	±1.6	±0.062
40	1 1/2	241	9.50	±1.6	±0.062
50	2	292	11.50	±1.6	±0.062
80	3	356	14.00	±1.6	±0.062
100	4	432	17.00	±1.6	±0.062

**NOTE:** This standard does not preclude the user from purchasing separable flange control valves with face-to-face dimensions different from those given in ANSI/ISA-S75.03 or ASME/ANSI B16.10.





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