

AMERICAN NATIONAL STANDARD

ANSI/ISA-75.08.03-2001 (R2013)

**Face-to-Face Dimensions for Socket Weld-End
and Screwed-End Globe-Style Control Valves
(Classes 150, 300, 600, 900, 1500, and 2500)**

Approved 31 January 2013

ANSI/ISA-75.08.03-2001 (R2013)
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(Classes 150, 300, 600, 900, 1500, and 2500)

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1 Scope

This standard applies to socket weld-end globe-style control valves, sizes 1/2 inch (15 mm) through 4 inches (100 mm), and screwed-end globe-style control valves, sizes 1/2 inch (15 mm) through 2 1/2 inches (65 mm), 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 designs by providing Classes 150 through 2500 socket weld-end control valve dimensions and Classes 150 through 600 screwed-end control dimensions without giving special consideration to the equipment manufacturer to be used.

2.2 The short-long dimensions provided in Tables 1 and 2 clarify 2.1 by consolidating the diversity of existing manufacturers' lengths into two sets of dimensions for each size valve. Before using either the short or long dimensions, the piping designer should confirm with the selected valve manufacturer which dimension is correct for the valve(s) being supplied.

3 Definitions

For definitions of terms used in this standard, see ANSI/ISA-75.05.01-2000 (R2005), *Control Valve Terminology*.

4 Dimensional data

4.1 Face-to-face dimensions for socket weld-end globe-style control valves are listed in Table 1.

Table 1 — Face-to-face dimensions for socket weld-end globe-style control valves

Nominal Valve Size		PN 20, 50, & 100 (Classes 150, 300, & 600)				PN 150 & 250 (Classes 900 & 1500)				PN 420 (Class 2500)				Tolerance	
		Dimension "A"				Dimension "A"				Dimension "A"					
		mm		inches		mm		inches		mm		inches			
mm	inches	Short	Long	Short	Long	Short	Long	Short	Long	Short	Long	Short	Long	mm	inches
15	1/2	170	206	6.69	8.12	178	279	7.00	11.00	216	318	8.50	12.50	±6.4	±0.25
20	3/4	170	210	6.69	8.25	178	279	7.00	11.00	216	318	8.50	12.50	±6.4	±0.25
25	1	197	210	7.75	8.25	178	279	7.00	11.00	216	318	8.50	12.50	±6.4	±0.25
40	1-1/2	235	251	9.25	9.88	235	330	9.25	13.00	260	381	10.25	15.00	±6.4	±0.25
50	2	267	286	10.50	11.25	292	375	11.50	14.75	324	400	12.75	15.75	±6.4	±0.25
65	2-1/2	292	311	11.50	12.25	292		11.50		324		12.75		±6.4	±0.25
80	3	318	337	12.50	13.25	318	533	12.50	21.00	381	660	15.00	26.00	±6.4	±0.25
100	4	368	394	14.50	15.50	368	530	14.50	20.88	406	737	16.00	29.00	±6.4	±0.25