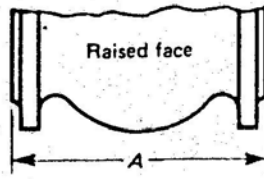
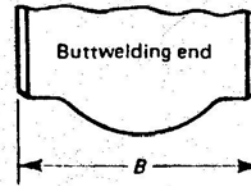


Class 125 Cast Iron



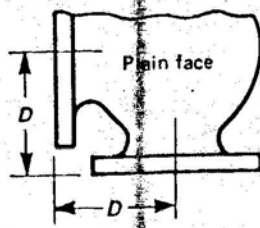
Class 150 Steel



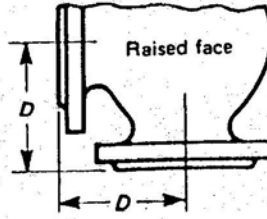
Class 150 Steel

TABLE 1 CLASS 125 CAST IRON FLANGED AND CLASS 150 STEEL FLANGED AND BUTTWELDING END VALVES, FACE-TO-FACE AND END-TO-END DIMENSIONS

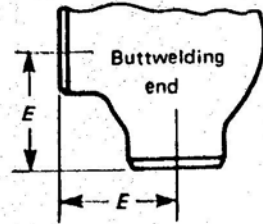
Nom. Valve Size, NPS	1	2	4	5	6	7	8	9	10	11	
	Class 125 Cast Iron						Class 150 Steel				
	Flanged End (Flat Face)						Flanged End (0.06 in. Raised Face) and Welding End				
	Gate, Solid Wedge and Double Disc A	Plug			Globe, Lift Check, and Swing Check (1) A	Angle and Lift Check D	Globe Style Control (2) A	Gate			Plug Short Pattern A
Short Pattern A		Regular and Venturi Pattern A	Round Port, Full Bore A	Solid Wedge and Double Disc A				Conduit A	Solid Wedge, Double Disc, and Conduit B		
1/2	...	...	...	...	...	...	4.00	...	4.00	...	
3/8	...	...	...	...	...	...	4.00	...	4.00	...	
1/2	...	...	...	...	...	...	4.25	...	4.25	...	
3/4	...	...	...	...	...	...	4.62	...	4.62	...	
1	...	5.50	5.50 (4)	5.50	...	7.25	5.00	...	5.00	5.50	
1 1/4	...	...	6.50 (4)	6.00	...	...	5.50	...	5.50	...	
1 1/2	...	6.50	6.50 (4)	6.50	...	8.75	6.50	...	6.50	6.50	
2	7.00	7.00	7.50 (4)	7.50	8.00	4.00	10.00	7.00	7.00	8.50	7.00
2 1/2	7.50	7.50	8.25 (4)	8.25	8.50	4.25	10.88	7.50	7.50	9.50	7.50
3	8.00	8.00	9.00 (4)	9.00	9.50	4.75	11.75	8.00	8.00	11.12	8.00
4	9.00	9.00	9.00 (4)	12.00	11.50	5.75	13.88	9.00	9.00	12.00	9.00
5	10.00	10.00	14.00 (4)	15.00	13.00	6.50	...	10.00	...	15.00	10.00
6	10.50	10.50	15.50	18.00	14.00	7.00	17.75	10.50	10.50	15.88	10.50
8	11.50	11.50	18.00	22.00	19.50	9.75	21.38	11.50	11.50	16.50	11.50
10	13.00	13.00	21.00	26.00	24.50	12.25	26.50	13.00	13.00	18.00	13.00
12	14.00	14.00	24.00	30.00	27.50	13.75	29.00	14.00	14.00	19.75	14.00
14	15.00 (3)	...	27.00	...	31.00	15.50	35.00	15.00	15.00	22.50	...
16	16.00 (3)	...	30.00	...	36.00 (6)	18.00	40.00	16.00	16.00	24.00	...
18	17.00 (3)	...	34.00	...	...	...	...	17.00	17.00	26.00	...
20	18.00 (3)	...	36.00	...	...	...	...	18.00	18.00	28.00	...
22	...	...	...	...	...	...	...	...	20.00	30.00	...
24	20.00 (3)	...	42.00 (5)	...	...	...	...	20.00	20.00	32.00	...
26	...	...	...	...	...	...	...	22.00	22.00	34.00 (7)	...
28	...	...	...	...	...	...	...	24.00	24.00	36.00 (7)	...
30	...	...	51.00 (5)	...	...	...	...	24.00	26.00	36.00 (7)	...
32	...	...	...	...	...	...	...	...	28.00	38.00 (7)	...
34	...	...	...	...	...	...	...	...	30.00	40.00 (7)	40.00
36	...	...	63.00 (5)	...	...	...	...	28.00	32.00	40.00 (7)	...



Class 125 Cast Iron



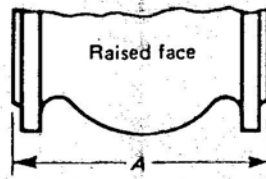
Class 150 Steel



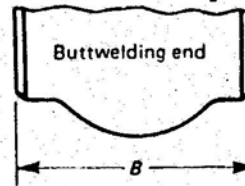
Class 150 Steel

TABLE 1 CLASS 125 CAST IRON FLANGED AND CLASS 150 STEEL FLANGED AND BUTTWELDING END VALVES, FACE-TO-FACE AND END-TO-END DIMENSIONS

Nom. Valve Size, NPS	12	13	14	15	16	17	18	19	20	21	22	23	
	Class 150 Steel												
	Flanged End (0.06 in. Raised Face) and Welding End									Flanged End		Welding End	
	Plug				Globe, Lift Check, and Swing Check (1) A and B	Angle and Lift Check D and E	Y-Globe and Y-Swing Check A and B	Globe Style Control (2) A	Ball				
	Regular Pattern A	Short and Regular Pattern B	Venturi Pattern A	Round Port, Full Bore A					Long Pattern A	Short Pattern A	Long Pattern B	Short Pattern B	
1/4	...	...	...	...	4.00	2.00	...	...	...	...	...	...
3/8	...	...	...	...	4.00	2.00	...	...	...	...	...	...
1/2	...	...	...	...	4.25	2.25	5.50	...	4.25	4.25	...	5.50
3/4	...	...	...	...	4.62	2.50	6.00	...	4.62	4.62	...	6.00
1	...	...	...	7.00	5.00	2.75	6.50	7.25	5.00	5.00	...	6.50
1 1/4	...	...	...	...	5.50	3.00	7.25	...	5.50	5.50	...	7.00
1 1/2	...	...	...	8.75	6.50	3.25	8.00	8.75	6.50	6.50	7.50	7.50
2	...	10.50	7.00	10.50	8.00	4.00	9.00	10.00	7.00	7.00	8.50	8.50	
2 1/2	...	12.00	...	11.75	8.50	4.25	11.00	10.88	7.50	7.50	9.50	9.50	
3	...	13.00	8.00	13.50	9.50	4.75	12.50	11.75	8.00	8.00	11.12	11.12	
4	12.00	14.00	9.00	17.00	11.50	5.75	14.50	13.88	9.00	9.00	12.00	12.00	
5	15.00	15.00	...	...	14.00 (8)	7.00	...	...	...	...	...	...
6	15.50	18.00	15.50	...	16.00 (8)	8.00	18.50	17.75	15.50	10.50	18.00	15.88	
8	18.00	20.50	18.00	...	19.50	9.75	23.50	21.38	18.00	11.50	20.50	16.50	
10	21.00	22.00	21.00	...	24.50	12.25	26.50	26.50	21.00	13.00	22.00	18.00	
12	24.00	25.00	24.00	...	27.50	13.75	30.50	29.00	24.00	14.00	25.00	19.75	
14	27.00	...	27.00	...	31.00	15.50	...	35.00	27.00	15.00	30.00	22.50	
16	30.00	...	30.00	...	36.00 (9)	18.00	...	40.00	30.00	16.00	33.00	24.00	
18	34.00	...	34.00	...	38.50 (10)	...	...	...	34.00	...	36.00	26.00
20	36.00	...	36.00	...	38.50 (10)	...	...	...	36.00	...	39.00	28.00
22	...	...	...	...	42.00 (10)	...	...	...	...	...	43.00	...
24	42.00	...	42.00	...	51.00 (10)	...	...	...	42.00	...	45.00	32.00
26	...	...	...	...	51.00 (10)	...	...	...	...	...	49.00	...
28	...	...	...	...	57.00 (10)	...	...	...	...	...	53.00	...
30	...	...	...	...	60.00 (10)	...	...	...	...	...	55.00	...
32	...	...	...	...	...	...	...	...	...	...	60.00	...
34	...	...	...	...	...	...	...	...	...	...	64.00	...
36	...	...	...	...	77.00 (10)	...	...	...	...	...	68.00	...



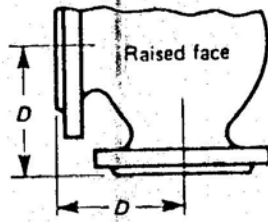
Class 250 Cast Iron and Class 300 Steel



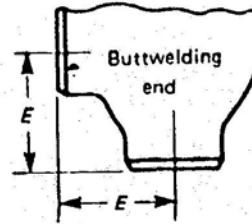
Class 300 Steel

TABLE 2 CLASS 250 CAST IRON FLANGED AND CLASS 300 STEEL FLANGED AND BUTTWELDING END VALVES, FACE-TO-FACE AND END-TO-END DIMENSIONS

Nom. Valve Size, NPS	1	2	3	4	5	6	7	8	9	10	
	Class 250 Cast Iron							Class 300 Steel			
	Flanged End (0.06 in. Raised Face)							Flanged and Welding End			
	Gate, Solid Wedge and Double Disc A	Plug			Globe, Lift Check, and Swing Check A	Angle and Lift Check D	Globe Style Control (1) A	Ball			
Short Pattern A		Regular Pattern A	Venturi Pattern A	Long Pattern A				Short Pattern A and B	Long Pattern B		
1/2	...	...	...	...	...	...	7.50	5.50	5.50	...
3/4	...	...	...	...	...	...	7.62	6.00	6.00	...
1	...	...	6.25	...	...	...	7.75	6.50	6.50	...
1 1/4	...	...	...	...	...	...	...	7.00	7.00	...
1 1/2	...	...	7.50	...	...	...	9.25	7.50	7.50	7.50
2	8.50	7.25	8.50	...	10.50	5.25	10.50	8.50	8.50	8.50	
2 1/2	9.50	8.00	9.50	...	11.50	5.75	11.50	9.50	9.50	9.50	
3	11.12	9.25	11.12	...	12.50	6.25	12.50	11.12	11.12	11.12	
4	12.00	10.50	12.00	...	14.00	7.00	14.50	12.00	12.00	12.00	
5	15.00	...	15.25	...	15.75	7.88	...	...	...	...
6	15.88	14.88	16.75	15.88	17.50	8.75	18.62	15.88	15.88	18.00	
8	16.50	...	19.75	16.50	21.00	10.50	22.38	19.75	16.50	20.50	
10	18.00	22.38	23.50	18.00	24.50	12.25	27.88	22.38	18.00	22.00	
12	19.75	25.50	28.00	19.75	28.00	14.00	30.50	25.50	19.75	25.00	
14	22.50	...	...	30.00	...	...	36.50	30.00	22.50	30.00
16	24.00	...	...	33.00	...	...	41.62	33.00	24.00	33.00
18	26.00	...	...	36.00	...	...	...	36.00	26.00	36.00
20	28.00	...	...	39.00	...	...	...	39.00	28.00	39.00
22	...	...	...	44.00	...	...	...	43.00	...	43.00
24	31.00	...	...	45.00	...	...	...	45.00	32.00	45.00
26	...	...	...	...	...	...	...	49.00	...	49.00
28	...	...	...	...	...	...	...	53.00	...	53.00
30	...	...	...	...	...	...	...	55.00	...	55.00
32	...	...	...	...	...	...	...	60.00	...	60.00
34	...	...	...	...	...	...	...	64.00	...	64.00
36	...	...	...	...	...	...	...	68.00	...	68.00



Class 250 Cast Iron
and Class 300 Steel



Class 300 Steel

TABLE 2 CLASS 250 CAST IRON FLANGED AND CLASS 300 STEEL FLANGED AND BUTTWELDING END VALVES, FACE-TO-FACE AND END-TO-END DIMENSIONS

	11	12	13	14	15	16	17	18	19
Class 300 Steel									
Flanged End (0.06 in. Raised Face) and Welding End									
Nom. Valve Size, NPS	Gate, Solid Wedge, Double Disc, and Conduit A and B	Plug				Globe and Lift Check A and B	Angle and Lift Check D and E	Swing Check A and B	Globe Style Control (1) A
		Short and Venturi Pattern A	Short and Venturi Pattern B	Regular Pattern A	Round Port, Full Bore A and B				
1/2	5.50 (2)	...	...	...	...	6.00	3.00	...	7.50
3/4	6.00 (2)	...	...	...	...	7.00	3.50	...	7.62
1	6.50 (2)	6.25 (3)	...	...	7.50	8.00	4.00	8.50	7.75
1 1/4	7.00 (2)	...	...	...	...	8.50	4.25	9.00	...
1 1/2	7.50	7.50 (3)	...	...	9.50	9.00	4.50	9.50	9.25
2	8.50	8.50	10.50 (3)	...	11.12	10.50	5.25	10.50	10.50
2 1/2	9.50	9.50	12.00 (3)	...	13.00	11.50	5.75	11.50	11.50
3	11.12	11.12	13.00 (3)	...	15.25	12.50	6.25	12.50	12.50
4	12.00	12.00	14.00 (3)	...	18.00	14.00	7.00	14.00	14.50
5	15.00	...	...	...	...	15.75	7.88	15.75	...
6	15.88	15.88	18.00	15.88	22.00	17.50	8.75	17.50	18.62
8	16.50	16.50	20.50	19.75	27.00	22.00	11.00	21.00	22.38
10	18.00	18.00	22.00	22.38	32.50	24.50	12.25	24.50	27.88
12	19.75	19.75	25.00	28.00	38.00	28.00	14.00	28.00	30.50
14	30.00	30.00 (4)	30.00 (4)	30.00	...	...	...	33.00	36.50
16	33.00	33.00 (4)	33.00 (4)	33.00	...	...	...	34.00	41.62
18	36.00	36.00 (4)	36.00 (4)	36.00	...	...	...	38.50	...
20	39.00	39.00 (4)	39.00 (4)	39.00	...	...	...	40.00	...
22	43.00	43.00 (4)	43.00 (4)	43.00	...	...	...	44.00	...
24	45.00	45.00 (4)	45.00 (4)	45.00	...	...	...	53.00	...
26	49.00	49.00 (4)	49.00 (4)	49.00	...	...	...	53.00	...
28	53.00	53.00 (4)	53.00 (4)	53.00	...	...	...	59.00	...
30	55.00	55.00 (4)	55.00 (4)	55.00	...	...	...	62.75	...
32	60.00	60.00 (4)	60.00 (4)	60.00	...	...	...	...	...
34	64.00	64.00 (4)	64.00 (4)	64.00	...	...	...	...	...
36	68.00	68.00 (4)	68.00 (4)	68.00	...	...	...	82.00	...

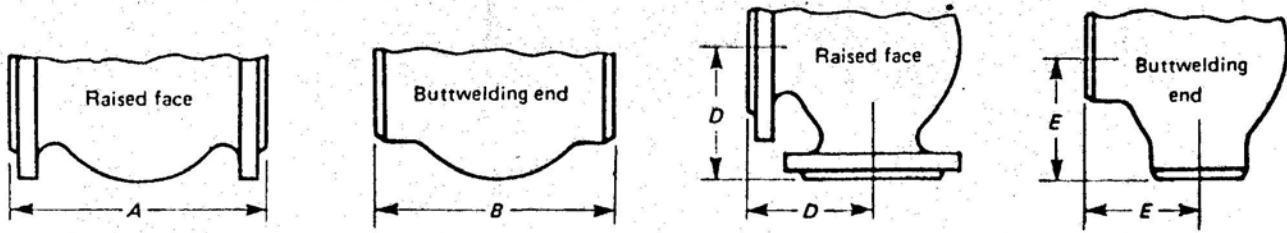
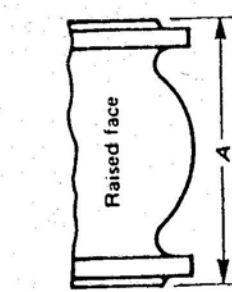
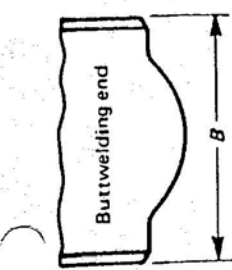
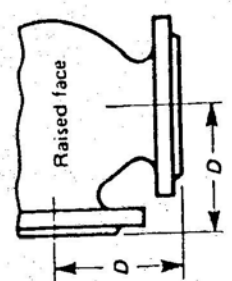
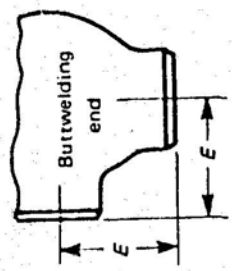


TABLE 3 CLASS 400 STEEL FLANGED AND BUTTWELDING END VALVES, FACE-TO-FACE AND END-TO-END DIMENSIONS

Nominal Valve Size, NPS	1	2	3	4	5	6	7
	Class 400 Steel						
	Flanged End (0.25 in. Raised Face) and Welding End						
	Gate, Solid Wedge, Double Disc, and Conduit A and B	Plug			Globe, Lift Check, and Swing Check A and B	Angle and Lift Check D and E	Ball
Regular and Venturi Pattern A and B		Round Port, Full Bore A	Round Port, Full Bore B	Long Pattern A and B			
1/2 (1)	6.50 (2)	...	...	...	6.50	3.25	6.50
3/4 (1)	7.50 (2)	...	...	...	7.50	3.75	7.50
1 (1)	8.50	8.50 (4)	10.00	...	8.50	4.25	8.50
1 1/4 (1)	9.00	9.00 (4)	...	...	9.00	4.50	9.00
1 1/2 (1)	9.50	9.50 (4)	12.50	...	9.50	4.75	9.50
2 (1)	11.50	11.50 (4)	13.00	...	11.50	5.75	11.50
2 1/2 (1)	13.00	13.00 (4)	15.00	...	13.00	6.50	13.00
3 (1)	14.00	14.00 (4)	17.50	...	14.00	7.00	14.00
4	16.00	16.00 (4)	19.00	22.00	16.00	8.00	16.00
5	18.00	...	...	...	18.00	9.00	...
6	19.50	19.50	24.00	28.00	19.50	9.75	19.50
8	23.50	23.50	29.00	33.25	23.50	11.75	23.50
10	26.50	26.50	35.00	35.00	26.50	13.25	26.50
12	30.00	30.00	40.00	40.00	30.00	15.00	30.00
14	32.50	32.50	...	...	35.00 (6)	...	32.50
16	35.50	35.50	...	...	35.50 (6)	...	35.50
18	38.50	38.50 (5)	...	...	40.00 (6)	...	38.50
20	41.50	41.50 (5)	...	...	41.50 (6)	...	41.50
22	45.00	45.00 (5)	...	...	45.00 (6)	...	45.00
24	48.50	48.50 (5)	...	...	55.00 (6)	...	48.50
26	51.50 (3)	51.50 (5)	...	...	55.00 (6)	...	51.50
28	55.00 (3)	55.00 (5)	...	...	63.00 (6)	...	55.00
30	60.00 (3)	60.00 (5)	...	...	65.00 (6)	...	60.00
32	65.00 (3)	65.00 (5)	...	...	...	...	65.00
34	70.00 (3)	70.00 (5)	...	...	...	...	70.00
36	74.00 (3)	74.00 (5)	...	...	82.00 (6)	...	74.00



**TABLE 4 CLASS 800 CAST IRON FLANGED AND CLASS 600 STEEL FLANGED AND BUTTWELDING
END VALVES, FACE-TO-FACE AND END-TO-END DIMENSIONS**

Nom. Valve Size, NPS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
	Class 600 Steel														
	Flanged End (0.25 in. Raised Face) and Welding End														
	Class 800 Cast Iron														
	Flanged End (0.25 in. Raised Face)		Swing Check A	Ball Long Pattern A and B	Gate				Plug			Globe, Lift Check, and Swing Check, Short Pattern A and B	Globe, Lift Check, and Swing Check, Long Pattern D and E	Angle and Lift Check, Short Pattern (1) E	Globe Style Control (2) A
	Gate, Solid Wedge and Double Disc A	Plug A			Solid Wedge, Double Disc, and Conduit, Long Pattern A and B	Short Pattern (1) B	Regular and Venturi Pattern A and B	Round Bore, Full Port A	Round Bore, Full Port B	Globe, Lift Check, and Swing Check, Long Pattern B	Angle and Lift Check, Long Pattern D and E					Globe Style Control (2) A
1/2	...	...	...	6.50	6.50 (3)	...	...	...	...	6.50	...	3.25	...	8.00
3/4	...	...	...	7.50	7.50 (3)	...	...	...	...	7.50	...	3.75	...	8.12
1	...	...	...	8.50	8.50	5.25	8.50 (5)	10.00	...	8.50	...	4.25	...	8.25
1 1/4	...	...	...	9.00	9.00	5.75	9.00 (5)	...	...	9.00	...	4.50	...	...
1 1/2	...	...	...	9.50	9.50	6.00	9.50	12.50	...	9.50	...	4.75	...	9.88
2	11.50	11.50	11.50	11.50	11.50	7.00	11.50	13.00	...	11.50	7.00	5.75	4.25	11.25	
2 1/2	13.00	13.00	13.00	13.00	13.00	8.50	13.00	15.00	...	13.00	8.50	6.50	5.00	12.25	
3	14.00	14.00	14.00	14.00	14.00	10.00	14.00	17.50	...	14.00	10.00	7.00	6.00	13.25	
4	17.00	17.00	17.00	17.00	17.00	12.00	17.00	20.00	22.00	17.00	12.00	8.50	7.00	15.50	
5	...	...	...	...	20.00	15.00	...	...	...	20.00	15.00	10.00	8.50	...

TABLE 4 CLASS 800 CAST IRON FLANGED AND CLASS 600 STEEL FLANGED AND BUTTWELDING END VALVES, FACE-TO-FACE AND END-TO-END DIMENSIONS (CONT'D)

Nom. Valve Size, NPS	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	Class 800 Cast Iron													
	Flanged End (0.25 in. Raised Face)													
Gate, Solid Wedge and Double Disc A	Gate, Solid Wedge and Double Disc A	Plug A	Swing Check A	Long Pattern A and B	Gate		Regular and Venturi Pattern A and B	Plug		Globe, Lift Check, and Swing Check, Long Pattern A and B	Globe, Lift Check, and Swing Check, Short Pattern (1) B	Angle and Lift Check, Long Pattern D and E	Angle and Lift Check, Short Pattern (1) E	Globe Style Control (2) A
					Solid Wedge, Double Disc, and Conduit, Long Pattern A and B	Short Pattern (1) B		Round Bore, Full Port A	Round Bore, Full Port B					
6	22.00	22.00	22.00	22.00	22.00	18.00	22.00	26.00	28.00	22.00	18.00	11.00	10.00	20.00
8	26.00	26.00	26.00	26.00	26.00	23.00	26.00	31.25	33.25	26.00	23.00	13.00	...	24.00
10	31.00	31.00	31.00	31.00	31.00	28.00	31.00	37.00	40.00	31.00	28.00	15.50	...	29.62
12	33.00	33.00	33.00	33.00	33.00	32.00	33.00	42.00	42.00	33.00	32.00	16.50	...	32.25
14	...	...	...	35.00	35.00	35.00	35.00	...	...	35.00 (7)	...	...	...	38.25
16	...	...	...	39.00	39.00	39.00	39.00	...	...	39.00 (7)	...	...	...	43.62
18	...	...	...	43.00	43.00	43.00	43.00 (6)	...	...	43.00 (7)	...	...	...	...
20	...	...	...	47.00	47.00	47.00	47.00 (6)	...	...	47.00 (7)	...	...	...	...
22	...	...	...	51.00	51.00	...	51.00 (6)	...	...	51.00 (7)	...	...	...	...
24	...	...	...	55.00	55.00	55.00	55.00 (6)	...	...	55.00 (7)	...	...	...	...
26	...	...	...	57.00	57.00	...	57.00 (6)	...	...	57.00 (7)	...	...	...	...
28	...	...	...	61.00	61.00	...	...	...	...	63.00 (7)	...	...	...	...
30	...	...	...	65.00	65.00	...	65.00 (6)	...	...	65.00 (7)	...	...	...	...
32	...	...	...	70.00	70.00 (4)	...	70.00 (6)	...	...	...	...	...	...	...
34	...	...	...	76.00	76.00 (4)	...	76.00 (6)	...	...	...	...	...	...	...
36	...	...	...	82.00	82.00 (4)	...	82.00 (6)	...	...	82.00 (7)	...	...	...	...

GENERAL NOTES:

- (a) Dimensions are in inches.
- (b) See Table 11 for adjustments to tabulated dimensions which may be required for certain flange fittings.

NOTES:

- (1) These dimensions apply to pressure seal or flangeless bonnet valves. They may be applied at the manufacturer's option to valves with flanged bonnets.
- (2) The data for control valves, column 14, are extracted from ISA S75.03.
- (3) Solid wedge only.
- (4) Double disc and conduit only.
- (5) Regular pattern only.
- (6) Venturi pattern only.
- (7) Swing check only.

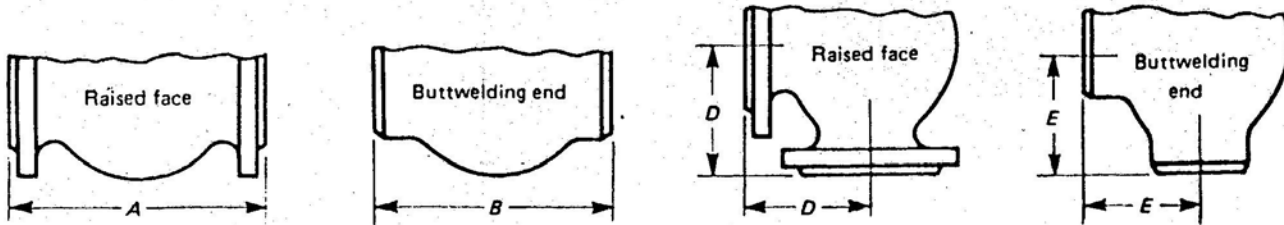


TABLE 5 CLASS 900 STEEL FLANGED AND BUTTWELDING END VALVES, FACE-TO-FACE AND END-TO-END DIMENSIONS

	1	2	3	4	5	6	7	8	9
Class 900 Steel Valves									
Flanged End (0.25 in. Raised Face) and Welding End									
Nom. Valve Size, NPS	Gate		Plug		Globe, Lift Check, and Swing Check, Long Pattern A and B	Globe, Lift Check, and Swing Check, Short Pattern (1) B	Angle and Lift Check, Long Pattern D and E	Angle and Lift Check, Short Pattern (1) E	Ball
	Solid Wedge, Double Disc, and Conduit, Long Pattern A and B	Short Pattern (1) B	Regular and Venturi Pattern A and B	Round Port, Full Bore A					Long Pattern A and B
3/4 (2)	...	...	...	...	9.00	...	4.50	...	...
1 (2)	10.00 (3)	5.50	10.00 (4)	...	10.00	...	5.00	...	10.00
1 1/4 (2)	11.00 (3)	6.50	11.00 (4)	...	11.00	...	5.50	...	11.00
1 1/2 (2)	12.00 (3)	7.00	12.00 (4)	14.00	12.00	...	6.00	...	12.00
2 (2)	14.50	8.50	14.50 (4)	15.00	14.50	...	7.25	...	14.50
2 1/2 (2)	16.50	10.00	16.50 (4)	17.00	16.50	10.00	8.25	...	16.50
3	15.00	12.00	15.00 (4)	18.50	15.00	12.00	7.50	6.00	15.00
4	18.00	14.00	18.00 (5)	22.00	18.00	14.00	9.00	7.00	18.00
5	22.00	17.00	...	...	22.00	17.00	11.00	8.50	...
6	24.00	20.00	24.00	29.00	24.00	20.00	12.00	10.00	24.00
8	29.00	26.00	29.00	32.00	29.00	26.00	14.50	13.00	29.00
10	33.00	31.00	33.00	38.00	33.00	31.00	16.50	15.50	33.00
12	38.00	36.00	38.00	44.00	38.00	36.00	19.00	18.00	38.00
14	40.50	39.00	...	...	40.50	39.00	20.25	19.50	40.50
16	44.50	43.00	44.50 (5)	...	44.50 (6)	43.00	26.00	...	44.50
18	48.00	...	...	...	48.00 (6)	...	29.00	...	48.00
20	52.00	...	52.00 (5)	...	52.00 (6)	...	32.50	...	52.00
22	...	...	...	...	...	...	...	...	...
24	61.00	...	...	...	61.00 (6)	...	39.00	...	61.00