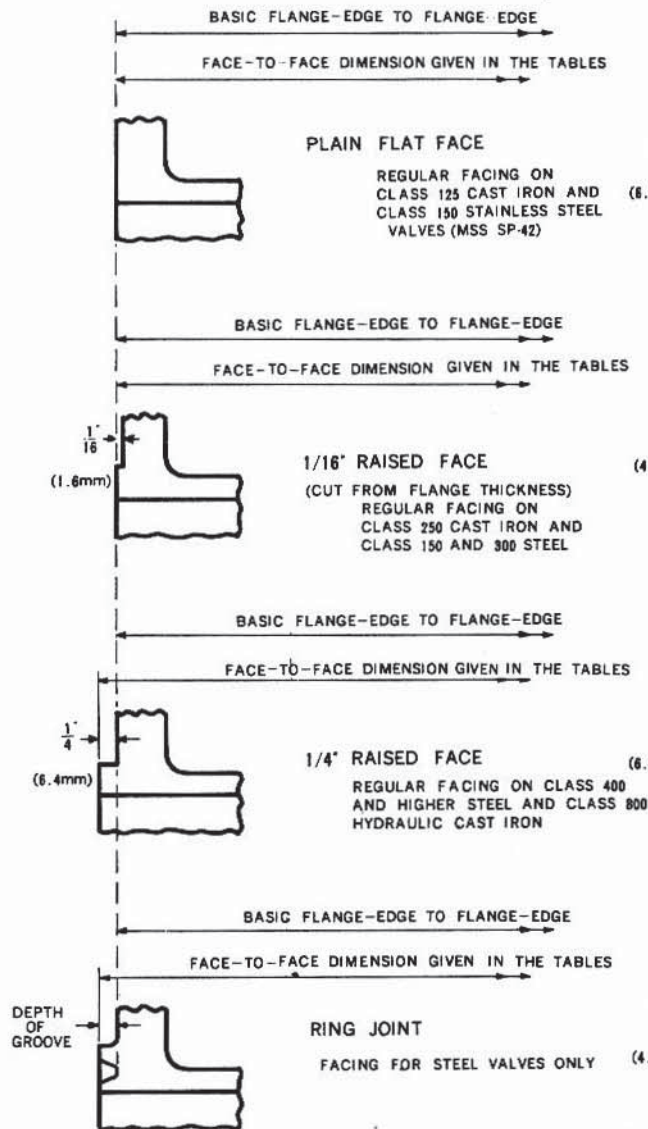
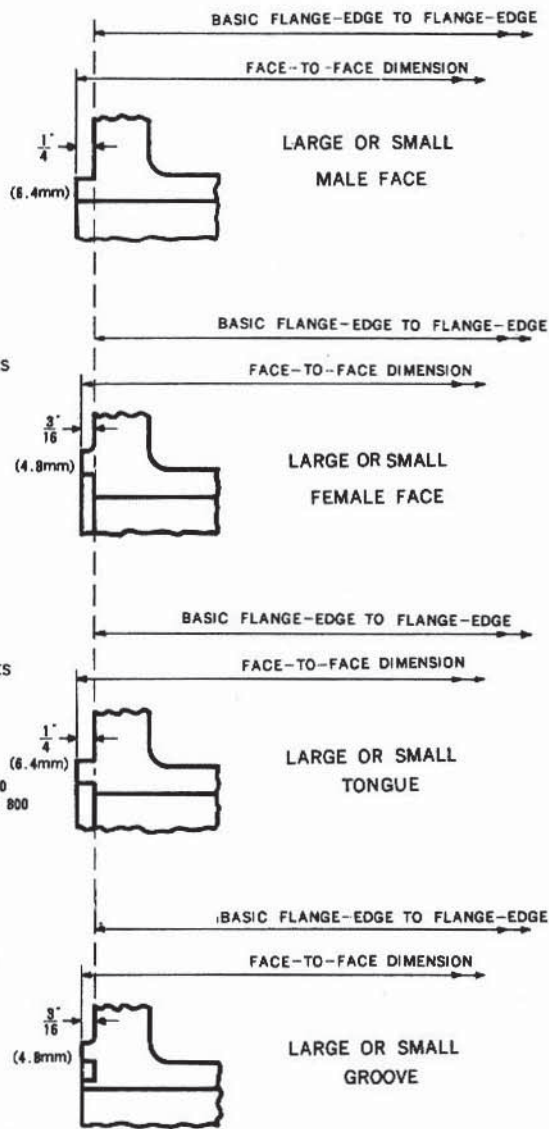


Regular Standard Facings

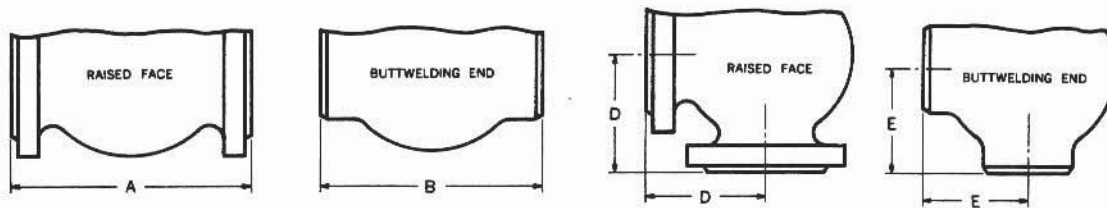
Other Standard Facings
(Special Facings)

When a special facing is applied to a valve having a plain face, or a 1/16 in. raised face, no deductions are made from the dimensions in the tables. The additions for the special facing are applied directly to the table dimensions. 1/16 in. raised faces are cut from the basic flange thickness and, therefore, face-to-face and basic flange-edge to flange-edge is the same dimension.

When a special facing is applied to a valve having 1/4 in. raised face, the height of the two raised faces (1/2 in.) must be deducted from the dimensions given in the tables. The additions for the special facing are added to this dimension (basic flange-edge to flange-edge), to determine the new face-to-face dimension.

FACE TO FACE AND END TO END DIMENSIONS | ANSI B16.10-1973

CLASS 150 STEEL VALVES



Dimensions shown in parentheses must be added to the nominal face-to-face or center of valve body-to-face dimensions for Ring-joint face flanges.

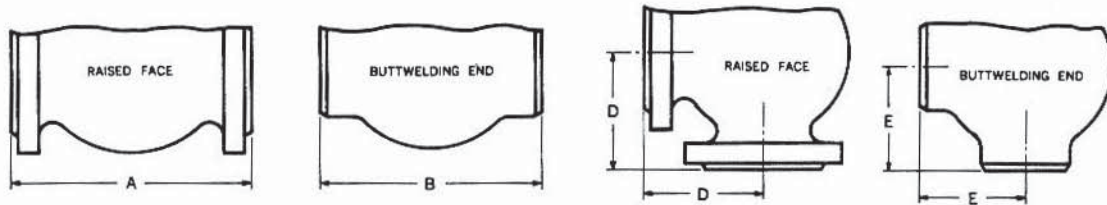
Dimensions in mm

1	2	3	4	5	6	7	8	9
Nominal Size	$\frac{1}{16}$ " Raised Face Flanged End (Ring-Joint Face) and Welding End							
	Gate			Plug				
	Solid Wedge and Double Disc A	Conduit A	Solid Wedge, Double Disc and Conduit B	Short Pattern A	Regular Pattern A	Short and Regular Pattern B	Venturi Pattern A	Round Port Full Bore A
$\frac{1}{4}$	102		102					
$\frac{3}{8}$	102		102					
$\frac{1}{2}$	108 (11)		108					
$\frac{3}{4}$	117 (13)		117					
1	127 (13)		127	140 (12)				178 (12)
$1\frac{1}{4}$	140 (12)		140					
$1\frac{1}{2}$	165 (13)		165	165 (13)				222 (13)
2	178 (12)	178 (12)	216	178 (12)		267	178 (12)	267 (12)
$2\frac{1}{2}$	190 (13)	190 (13)	241	190 (13)		305		298 (13)
3	203 (13)	203 (13)	283	203 (13)		330	203 (13)	343 (13)
$3\frac{1}{2}$								
4	229 (12)	229 (12)	305	229 (12)	305 (13)	356	229 (12)	432 (12)
5	254 (13)		381	254 (13)	381 (13)	381		
6	267 (12)	267 (12)	403	267 (12)	394 (12)	457	394 (12)	533 (13)
8	292 (13)	292 (13)	419	292 (13)	457 (13)	521	457 (13)	635 (13)
10	330 (13)	330 (13)	457	330 (13)	533 (13)	559	533 (13)	787 (13)
12	356 (12)	356 (12)	502	356 (12)	610 (12)	635	610 (12)	914 (13)
14	381 (13)	381 (13)	572		686 (13)		686 (13)	
16	406 (13)	406 (13)	610		762 (13)		762 (13)	
18	432 (12)	432 (12)	660		864 (12)		864 (12)	
20	457 (13)	457 (13)	711		914 (13)		914 (13)	
22	485 ² (13)		762					
24	508 (13)	508 (13)	813		1067 (13)		1067 (13)	
26	559	559	864 ¹					
28	610	610	914 ¹					
30	610	660	914 ¹					
32	660 ²	711	965 ¹					
34	711 ²	762	1016 ¹					
36	711	813	1016 ¹					
38	762 ²							
40	762 ²							
42	813 ²							
44	864 ²							
46	864 ²							
48	889 ²							
50	914 ²							

¹ Double Disc and Conduit only

² KINKA Standard

CLASS 150 STEEL VALVES—continued



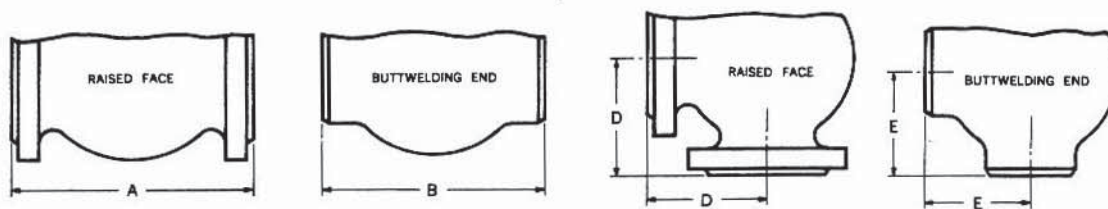
Dimensions shown in parentheses must be added to the nominal face-to-face or center of valve body-to-face dimensions for Ring-joint face flanges.

Dimensions in mm

10	11	12	13	14	15	16	17	1
½" Raised Face Flanged End (Ring-Joint Face) and Welding End								Nominal Size
Globe and Lift Check A & B	Swing Check A & B	Angle and Lift Check D & E	Y-Globe and Y-Swing Check A & B	Ball				
				Long Pattern A	Short Pattern A	Long Pattern B	Short Pattern B	
102	102	51						¼
102	102	51						⅜
108 (11)	108 (11)	57 (6)	140 (11)	108 (11)	108 (11)			½
117 (13)	117 (13)	64 (6)	152 (13)	117 (13)	117 (13)			¾
127 (13)	127 (13)	70 (6)	165 (13)	127 (13)	127 (13)			1
140 (12)	140 (12)	76 (7)	184 (13)	140 (12)	140 (12)			1¼
165 (13)	165 (13)	83 (6)	203 (13)	165 (13)	165 (13)	190	190	1½
203 (13)	203 (13)	102 (6)	229 (12)	178 (12)	178 (12)	216	216	2
216 (13)	216 (13)	108 (6)	279 (13)	190 (13)	190 (13)	241	241	2½
241 (13)	241 (13)	121 (6)	318 (12)	203 (13)	203 (13)	283	283	3
292 (13)	292 (13)	146 (6)	368 (13)	229 (12)	229 (12)	305	305	3½
356 (12)	330 (13)	178 (6)						4
406 (13)	356 (12)	203 (7)	470 (13)	394 (12)	267 (12)	457	403	5
495 (13)	495 (13)	248 (6)	597 (13)	457 (13)	292 (13)	521	419	6
622 (13)	622 (13)	311 (7)	673 (13)	533 (13)	330 (13)	559	457	8
698 (13)	698 (13)	349 (7)	775 (12)	610 (12)	356 (12)	635	502	10
787 (13)	787 (13)	394 (6)		686 (13)	381 (13)	762	572	12
914 (13)	864 (12)	457 (7)		762 (13)	406 (13)	838	610	14
978 ² (13)	978 (13)			864 (12)		914	660	16
978 ² (13)	978 (13)			914 (13)		991	711	18
	1067 (13)					1092		20
1295 ² (13)	1295 (13)			1067 (13)		1143	813	22
	1295					1245		24
	1448					1346		26
								28
	1524					1397		30
						1524		32
						1626		34
	1956					1727		36

² KINKA Standard

CLASS 300 STEEL VALVES



Dimensions shown in parentheses must be added to the nominal face-to-face or center of valve body-to-face dimensions for Ring-joint face flanges.

Dimensions in mm

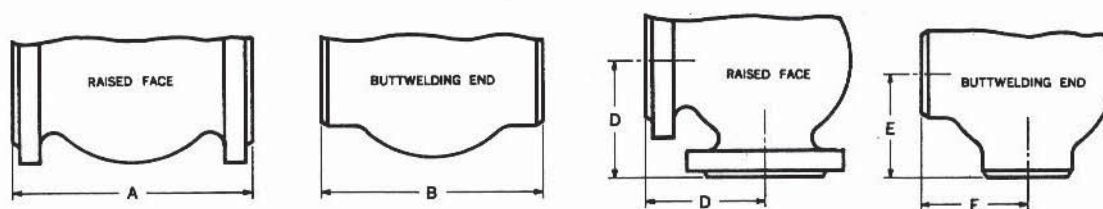
1	2	3	4	5	6	7	8
Nominal Size	$\frac{1}{16}$ " Raised Face Flanged End (Ring-Joint Face) and Welding End						
	Gate Solid Wedge, Double Disc and Conduit A & B	Plug					
		Short Pattern A	Short Pattern B	Venturi Pattern A	Venturi Pattern B	Regular Pattern A	Round Port Full Bore A & B
$\frac{1}{2}$	140 (11)						
$\frac{3}{4}$	152 (13)						
1	165 ¹ (13)	159 (12)					190 (13)
1 $\frac{1}{4}$	178 ¹ (12)						
1 $\frac{1}{2}$	190 (13)	190 (13)					241 (13)
2	216 (16)	216 (16)	267	216 (16)			283 (15)
2 $\frac{1}{2}$	241 (16)	241 (16)	305	241 (16)			330 (16)
3	283 (15)	283 (15)	330	283 (15)			387 (16)
3 $\frac{1}{2}$							
4	305 (16)	305 (16)	356	305 (16)			457 (16)
5	381 (16)						
6	403 (16)	403 (16)	457	403 (16)	457	403 (16)	559 (16)
8	419 (16)	419 (16)	521	419 (16)	521	502 (16)	686 (16)
10	457 (16)	457 (16)	559	457 (16)	559	568 (16)	826 (15)
12	502 (16)	502 (16)	635	502 (16)	635	711 (16)	965 (16)
14	762 (16)			762 (16)	762	762 (16)	
16	838 (16)			838 (16)	838	838 (16)	
18	914 (16)			914 (16)	914	914 (16)	
20	991 (19)			991 (19)	991	991 (19)	
22	1092 (22)			1092 (22)	1092	1092 (22)	
24	1143 (22)			1143 (22)	1143	1143 (22)	
26	1245 (25)			1245 (25)	1245	1245 (25)	
28	1346 (26)			1346 (26)	1346	1346 (26)	
30	1397 (25)			1397 (25)	1397	1397 (25)	
32	1524			1524	1524		
34	1626			1626	1626		
36	1727			1727	1727		
38	1828 ²						
40	1930 ²						
42	1981 ²						

¹ Solid Wedge only

² KINKA Standard

FACE TO FACE AND END TO END DIMENSIONS | ANSI B16.10-1973

CLASS 300 STEEL VALVES—continued



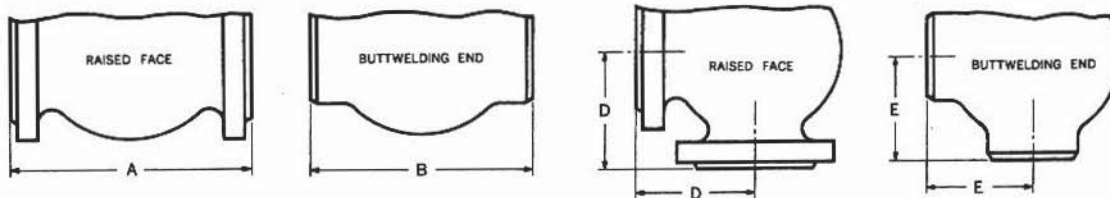
Dimensions shown in Parentheses must be added to the nominal face-to-face or center of valve body-to-face dimensions for Ring-joint face flanges.

Dimensions in mm

9	10	11	12	13	14	1
X ₆ Raised Face Flanged End (Ring-Joint Face) and Welding End						Nominal Size
Globe and Lift Check A & B	Swing Check A & B	Angle and Lift Check D & E	Ball			
			Long Pattern A	Long Pattern B	Short Pattern A & B	
152 (12)		76 (6)	140 (11)			½
178 (12)		89 (6)	152 (13)			¾
203 (13)	216 (13)	102 (6)	165 (13)			1
216 (13)	229 (12)	108 (6)	178 (12)			1¼
229 (12)	241 (13)	114 (7)	190 (13)	190	190 (13)	1½
267 (16)	267 (16)	133 (8)	216 (16)	216	216 (16)	2
292 (16)	292 (16)	146 (8)	241 (16)	241	241 (16)	2½
318 (15)	318 (15)	159 (8)	283 (15)	283	283 (15)	3
						3½
356 (15)	356 (15)	178 (8)	305 (16)	305	305 (16)	4
400 (16)	400 (16)	200 (8)				5
444 (16)	444 (16)	222 (8)	403 (16)	457	403 (16)	6
559 (16)	533 (16)	279 (8)	502 (16)	521	419 (16)	8
622 (16)	622 (16)	311 (8)	568 (16)	559	457 (16)	10
711 (16)	711 (16)	356 (8)	648 (16)	635	502 (16)	12
762 [*] (16)	838 (16)		762 (16)	762	572 (15)	14
864 [*] (15)	864 (15)		838 (16)	838	610 (15)	16
978 [*] (16)	978 (16)		914 (16)	914	660 (16)	18
1016 [*] (19)	1016 (19)		991 (19)	991	711 (19)	20
	1118 (22)		1092 (22)	1092		22
1346 [*] (22)	1346 (22)		1143 (22)	1143	813 (22)	24
	1346 (26)		1245 (25)	1245		26
	1499 (25)		1346 (26)	1346		28
	1594 (25)		1397 (25)	1397		30
			1524	1524		32
			1626	1626		34
	2083		1727	1727		36

* KINKA Standard

CLASS 400 STEEL VALVES



Dimensions shown in parentheses must be added to the nominal face-to-face or center of valve body-to-face dimensions for Ring-joint face flanges.

Dimensions in mm

1	2	3	4	5	6	7	8	9
Nominal Size	¼" Raised Face Flanged End (Ring-Joint Face) and Welding End							
	Gate Solid Wedge, Double Disc and Conduit A & B	Plug			Globe and Lift Check A & B	Swing Check A & B	Angle and Lift Check D & E	Ball Long Pattern A & B
		Regular and Venturi Pattern A & B	Round Port Full Bore A	Round Port Full Bore B				
½	165 ¹ (-1)				165 (-1)	165 (-1)	83 (-1)	165 (-1)
¾	190 ¹ (0)				190 (0)	190 (0)	95 (0)	190 (0)
1	216 (0)	216 ² (0)	254 (0)		216 (0)	216 (0)	108 (0)	216 (0)
1¼	229 (0)	229 ² (0)			229 (0)	229 (0)	114 (0)	229 (0)
1½	241 (0)	241 ² (0)	318 (0)		241 (0)	241 (0)	121 (0)	241 (0)
2	292 (3)	292 ² (3)	330 (3)		292 (3)	292 (3)	146 (2)	292 (3)
2½	330 (3)	330 ² (3)	381 (3)		330 (3)	330 (3)	165 (2)	330 (3)
3	356 (3)	356 ² (3)	445 (3)		356 (3)	356 (3)	178 (1)	356 (3)
3½				559				
4	406 (4)	406 ² (4)	483 (3)		406 (3)	406 (3)	203 (2)	406 (4)
5	457 (3)				457 (3)	457 (3)	229 (1)	457 (3)
6	495 (3)	495 (3)	610 (3)	711	495 (3)	495 (3)	248 (1)	495 (3)
8	597 (3)	597 (3)	737 (3)	845	597 (3)	597 (3)	298 (2)	597 (3)
10	673 (3)	673 (3)	889 (3)	889	673 (3)	673 (3)	337 (1)	673 (3)
12	762 (3)	762 (3)	1016 (3)	1016	762 (3)	762 (3)	381 (2)	762 (3)
14	826 (3)	826 (3)				889 (3)		826 (3)
16	902 (3)	902 (3)				902 (3)		902 (3)
18	978 (3)	978 ⁴ (3)				1016 (3)		978 (3)
20	1054 (6)	1054 ⁴ (6)				1054 (6)		1054 (6)
22	1143 (10)	1143 ⁴ (10)				1143 (10)		1143 (10)
24	1232 (9)	1232 ⁴ (9)				1397 (10)		1232 (9)
26	1308 ² (13)	1308 ⁴ (13)				1397 (13)		1308 (13)
28	1397 ² (13)	1397 ⁴ (13)				1600 (13)		1397 (13)
30	1524 ² (13)	1524 ⁴ (13)				1651 (13)		1524 (13)
32	1651 ²	1651 ⁴						1651
34	1778 ²	1778 ⁴						1778
36	1880 ²	1880 ⁴				2083		1880

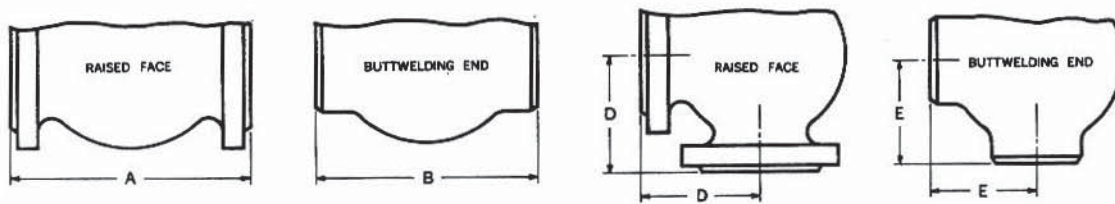
¹ Solid Wedge only

² Double Disc and Conduit only

³ Regular Pattern only

⁴ Venturi Pattern only

CLASS 600 STEEL VALVES



Dimensions shown in parentheses must be added to the nominal face-to-face or center of valve body-to-face dimensions for Ring-joint face flanges.

Dimensions in mm

1	2	3	4	5	6	7	8	9	10	11
Nominal Size	¾" Raised Face Flanged End (Ring-Joint Face) and Welding End									
	Gate		Plug			Globe and Lift Check Regular Pattern A & B	Swing Check Regular Pattern A & B	Globe, Lift Check and Swing Check Short Pattern B	Angle and Lift Check Regular Pattern D & E	Angle and Lift Check Short Pattern E
	Solid Wedge, Double Disc and Conduit A & B	Short Pattern B	Regular and Venturi Pattern A & B	Round Port Full Bore A	Round Port Full Bore B					
½ ¾ 1 1¼ 1½	165 ¹ (—1) 190 ¹ (0) 216 (0) 229 (0) 241 (0)	 133 146 152	 216 ² (0) 229 ² (0) 241 (0)	 254 (0) 318 (0)	 559	165 (—1) 190 (0) 216 (0) 229 (0) 241 (0)	165 (—1) 190 (0) 216 (0) 229 (0) 241 (0)	 133 146 152	83 (—1) 95 (0) 108 (0) 114 (0) 121 (0)	
2 2½ 3 3½ 4	292 (3) 330 (3) 356 (3) 432 (3)	178 216 254 305	292 (3) 330 (3) 356 (3) 432 (3)	330 (3) 381 (3) 444 (4) 508 (3)	 559	292 (3) 330 (3) 356 (3) 432 (3)	292 (3) 330 (3) 356 (3) 432 (3)	178 216 254 305	146 (2) 165 (2) 178 (1) 216 (1)	108 127 152 178
5 6 8 10 12	508 (3) 559 (3) 660 (4) 787 (4) 838 (3)	381 457 584 711 813	 559 (3) 660 (4) 787 (4) 838 (3)	 660 (4) 794 (3) 940 (3) 1067 (3)	 711 845 1016 1067	508 (3) 559 (3) 660 (4) 787 (4) 838 (3)	508 (3) 559 (3) 660 (4) 787 (4) 838 (3)	381 457 584 711 813	254 (2) 279 (2) 330 (2) 394 (1) 419 (2)	216 254
14 16 18 20 22	889 (3) 991 (3) 1092 (3) 1194 (6) 1295 (10)	 991 1092 1194	889 (3) 991 (3) 1092 ² (3) 1194 ² (6) 1295 ² (10)			889 ² (3) 991 ² (3) 1092 ² (3) 1194 ² (6)	889 (3) 991 (3) 1092 (3) 1194 (6) 1295 (10)			
24 26 28 30 32	1397 (10) 1448 (13) 1549 (13) 1651 (13) 1778 ²		1397 ² (10) 1448 ² (13) 1651 ² (13) 1778 ²			1397 ² (10)	1397 (10) 1448 (13) 1600 (13) 1651 (13)			
34 36	1930 ² 2083 ²		1930 ² 2083 ²				2083			

¹ Solid Wedge only

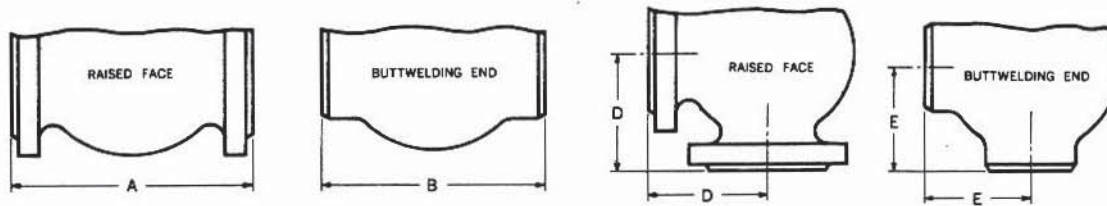
² Double Disc and Conduit only

³ Regular Pattern only

⁴ Venturi Pattern only

⁵ KINKA Standard

CLASS 900 STEEL VALVES



Dimensions shown in parentheses must be added to the nominal face-to-face or center of valve body-to-face dimensions for Ring-joint face flanges.

Dimensions in mm

1	2	3	4	5	6	7	8	9	10
Nominal Size	¾" Raised Face Flanged End (Ring-Joint Face) and Welding End								
	Gate		Plug		Globe and Lift Check Regular Pattern A & B	Swing Check Regular Pattern A & B	Globe, Lift Check and Swing Check Short Pattern B	Angle and Lift Check Regular Pattern D & E	Angle and Lift Check Short Pattern E
	Solid Wedge, Double Disc and Conduit A & B	Short Pattern B	Regular and Venturi Pattern A & B	Round Port Full Bore A					
½									
¾					229 (0)	229 (0)		114 (0)	
1	254 ¹ (0)	140	254 ² (0)		254 (0)	254 (0)		127 (0)	
1¼	279 ¹ (0)	165	279 ² (0)		279 (0)	279 (0)		140 (0)	
1½	305 ¹ (0)	178	305 ² (0)	356 (0)	305 (0)	305 (0)		152 (0)	
2	368 (3)	216	368 ² (3)	381 (3)	368 (3)	368 (3)	216	184 (2)	
2½	419 (3)	254	419 ² (3)	432 (3)	419 (3)	419 (3)	254	210 (1)	
3	381 (3)	305	381 ² (3)	470 (3)	381 (3)	381 (3)	305	190 (2)	152
3½									
4	457 (3)	356	457 ² (3)	559 (3)	457 (3)	457 (3)	356	229 (1)	178
5	559 (3)	432			559 (3)	559 (3)	432	279 (2)	216
6	610 (3)	508	610 (3)	737 (3)	610 (3)	610 (3)	508	305 (1)	254
8	737 (3)	660	737 (3)	813 (3)	737 (3)	737 (3)	660	368 (2)	330
10	838 (3)	787	838 (3)	965 (3)	838 (3)	838 (3)	787	419 (2)	394
12	965 (3)	914	965 (3)	1118 (3)	965 (3)	965 (3)	914	483 (1)	457
14	1029 (9)	991			1029 (9)	1029 (9)	991	514 (5)	495
16	1130 (10)	1092	1130 ² (10)		1130 ⁴ (10)	1130 (10)	1092	660 (5)	
18	1219 (13)					1219 (13)		737 (6)	
20	1321 (13)		1321 ³ (13)			1321 (13)		826 (6)	
22									
24	1549 (19)					1549 (19)		991 (9)	

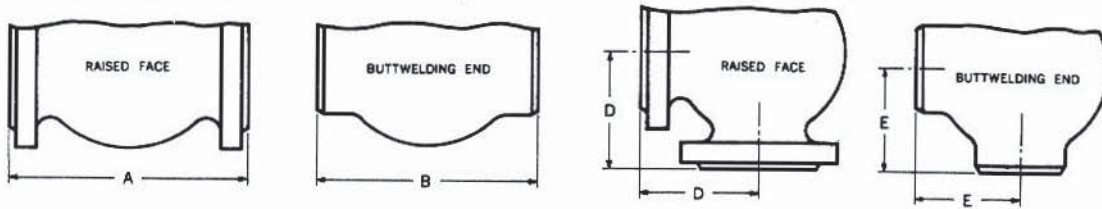
¹ Solid Wedge only

² Regular Pattern only

³ Venturi Pattern only

⁴ KINKA Standard

CLASS 1500 STEEL VALVES



Dimensions shown in parentheses must be added to the nominal face-to-face or center of valve body-to-face dimensions for Ring-joint face flanges.

Dimensions in mm

1	2	3	4	5	6	7	8	9	
Nominal Size	¾" Raised Face Flanged End (Ring-Joint Face) and Welding End								
	Gate		Plug		Globe and Lift Check Regular Pattern A & B	Swing Check Regular Pattern A & B	Swing Check Short Pattern B	Angle and Lift Check Regular Pattern D & E	
	Solid Wedge, Double Disc and Conduit A & B	Short Pattern B	Regular and Venturi Pattern A & B	Round Port Full Bore A					
½					216 (0)			108 (0)	
¾					229 (0)	229 (0)		114 (0)	
1	254 ¹ (0)	140	254 ² (0)		254 (0)	254 (0)		127 (0)	
1¼	279 ¹ (0)	165	279 ² (0)		279 (0)	279 (0)		140 (0)	
1½	305 ¹ (0)	178	305 ² (0)		305 (0)	305 (0)		152 (0)	
2	368 (3)	216	368 ² (3)	391 (3)	368 (3)	368 (3)	216	184 (2)	
2½	419 (3)	254	419 ² (3)	454 (3)	419 (3)	419 (3)	254	210 (1)	
3	470 (3)	305	470 ² (3)	524 (3)	470 (3)	470 (3)	305	235 (2)	
3½									
4	546 (3)	406	546 ² (3)	625 (4)	546 (3)	546 (3)	406	273 (2)	
5	673 (3)	483			673 (3)	673 (3)	483	337 (1)	
6	705 (6)	559	705 (6)	787 (7)	705 (6)	705 (6)	559	352 (4)	
8	832 (9)	711	832 (9)	889 (10)	832 (9)	832 (9)	711	416 (5)	
10	991 (9)	864	991 (9)	1067 (9)	991 (9)	991 (9)	864	495 (5)	
12	1130 (16)	991	1130 (16)	1219 (16)	1130 (16)	1130 (16)	991	565 (8)	
14	1257 (19)	1067			1257 (19)	1257 (19)	1067	629 (9)	
16	1384 (23)	1194	1384 ³ (23)		1384 ⁴ (23)	1384 (23)	1194		
18	1537 (22)	1346				1537 (22)			
20	1664 (22)	1473				1664 (22)			
22									
24	1943 (29)					1943 (29)			

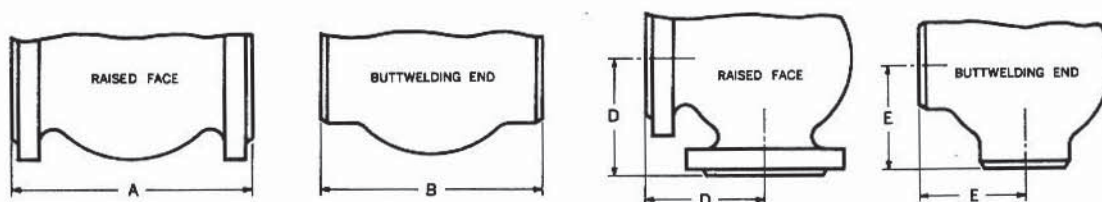
¹ Solid Wedge only

² Regular Pattern only

³ Venturi Pattern only

⁴ KINKA Standard

CLASS 2500 STEEL VALVES



Dimensions shown in Parentheses must be added to the nominal face-to-face or center of valve body-to-face dimensions for Ring-joint face flanges.

Dimensions in mm

1	2	3	4	5	6	7	8
Nominal Size	$\frac{1}{4}$ " Raised Face Flanged End (Ring-Joint Face) and Welding End						
	Gate		Plug Regular Pattern A & B	Globe, Lift Check and Swing Check Regular Pattern A & B	Swing Check Short Pattern B	Angle and Lift Check Regular Pattern D & E	Globe Short Pattern B ²
	Solid Wedge and Double Disc A & B	Short Pattern B					
$\frac{1}{2}$	264 ¹ (0)			264 (0)		132 (0)	
$\frac{3}{4}$	273 ¹ (0)			273 (0)		137 (0)	
1	308 ¹ (0)	186	308 (0)	308 (0)		154 (0)	
1 $\frac{1}{4}$	349 ¹ (3)	232		349 (3)		175 (1)	
1 $\frac{1}{2}$	384 ¹ (3)	232	384 (3)	384 (3)		192 (2)	
2	451 (3)	279	451 (3)	451 (3)	279	225 (2)	370 ²
2 $\frac{1}{2}$	508 (6)	330	508 (6)	508 (6)	330	254 (3)	420 ²
3	578 (6)	368	578 (6)	578 (6)	368	289 (3)	470 ²
3 $\frac{1}{2}$							
4	673 (10)	457	673 (10)	673 (10)	457	337 (4)	570 ²
5	794 (12)	533	794 (12)	794 (12)	533	397 (6)	
6	914 (13)	610	914 (13)	914 (13)	610	457 (7)	760 ²
8	1022 (16)	762	1022 (16)	1022 (16)	762	511 (8)	890 ²
10	1270 (22)	914	1270 (22)	1270 (22)	914	635 (11)	1090 ²
12	1422 (23)	1041	1422 (23)	1422 (23)	1041	711 (11)	1230 ²
14		1118					
16		1245					
18		1397					

¹ Solid Wedge only

² JPI-7S-47-74