



ANSI B16 VALVE FACE TO FACE DIMENSIONS BALL VALVES

Valve Size	FULL AND REDUCED BORE						FULL BORE					
	CLASS 150			CLASS 300			CLASS 600					
	Raised Face	Welding End	Ring and Groove	Raised Face	Welding End	Ring and Groove	Raised Face	Welding End	Ring and Groove	Raised Face	Welding End	Ring and Groove
Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)
2 50	7 177.8	8 1/2 215.9	7 1/2 190.5	8 1/2 215.9	8 1/2 215.9	9 1/8 231.8	11 1/2 292.1	11 1/2 292.1	11 5/8 295.3			
2 1/2 65	7 1/2 190.5	9 1/2 241.3	8 203.2	9 1/2 241.3	9 1/2 241.3	10 1/8 257.2	13 330.2	13 330.2	13 1/8 333.4			
3 80	8 203.2	11 1/8 282.6	8 1/2 215.9	11 1/8 282.6	11 1/8 282.6	11 3/4 298.5	14 355.6	14 355.6	14 1/8 358.8			
4 100	9 228.6	12 304.8	9 1/2 241.3	12 304.8	12 304.8	12 5/8 320.7	17 431.8	17 431.8	17 1/8 435			
6 150	15 1/2* 393.7	18 457.2	16 406.4	15 7/8 403.2	18 457.2	16 1/2 419.1	22 558.8	22 558.8	22 1/8 562			
8 200	18* 457.2	20 1/2* 520.7	18 1/2 469.9	19 3/4 501.7	20 1/2 520.7	20 3/8 517.5	26 660.4	26 660.4	26 1/8 663.6			
10 250	21* 533.4	22* 558.8	21 1/2 546.1	22 3/8 568.3	22 558.8	23 584.2	31 787.4	31 787.4	31 1/8 790.6			
12 300	24* 609.6	25* 635	24 1/2 622.3	25 1/2 647.7	25 635	26 1/8 663.6	33 838.2	33 838.2	33 1/8 841.4			
14 350	27 685.8	30 762	27 1/2 698.5	30 762	30 762	30 5/8 777.9	35 889	35 889	35 1/8 892.2			
16 400	30 762	33 838.2	30 1/2 774.7	33 838.2	33 838.2	33 5/8 854.1	39 990.6	39 990.6	39 1/8 993.8			
18 450	34 863.6	36 914.4	34 1/2 876.3	36 914.4	36 914.4	36 5/8 930.3	43 1092.2	43 1092.2	43 1/8 1095.4			
20 500	36 914.4	39 990.6	36 1/2 927.1	39 990.6	39 990.6	39 3/4 1009.7	47 1193.8	47 1193.8	47 1/4 1200.2			
22 550	- -	- -	- -	43 1092.2	43 92.2	43 7/8 1114.4	51 1295.4	51 1295.4	51 3/8 1304.9			
24 600	42 1066.8	45 1143	42 1/2 1079.5	45 1143	45 1143	45 7/8 1165.2	55 1397	55 1397	55 3/8 1406.5			
26 650	45 1143	49 1244.6	- -	49 1244.6	49 1244.6	50 1270	57 1447.8	57 1447.8	57 1/2 1460.5			
28 700	49 1244.6	53 1346.2	- -	53 1346.2	53 1346.2	54 1371.6	61 1549.4	61 1549.4	61 1/2 1562.1			
30 750	51 1295.4	55 1397	- -	55 1397	55 1397	56 1422.4	65 1651	65 1651	65 1/2 1663.7			
32 800	54 1371.6	60 1524	- -	60 1524	60 1524	61 1/8 1522.6	70 1778	70 1778	70 5/8 1793.9			
34 850	58 1437.2	64 1625.6	- -	64 1625.6	64 1625.6	65 1/8 1654.2	76 1930.4	76 1930.4	76 5/8 1946.3			
36 900	60 1524	68 1727.2	- -	68 1727.2	68 1727.2	69 1/8 1755.8	82 2082.8	82 2082.8	82 5/8 2098.7			

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BALL VALVES (FULL BORE)

Valve Size	CLASS 900						CLASS 1500						CLASS 2500					
	Raised Face		Welding End		Ring and Groove		Raised Face		Welding End		Ring and Groove		Raised Face		Welding End		Ring and Groove	
Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)
2 50	14 1/2 368.3	14 1/2 368.3	14 5/8 371.5	14 1/2 368.3	14 1/2 368.3	14 5/8 371.5	14 1/2 368.3	14 1/2 368.3	14 5/8 371.5	17 3/4 450.9	17 3/4 450.9	17 7/8 454						
2 1/2 65	16 1/2 419.1	16 1/2 419.1	16 5/8 422.3	16 1/2 419.1	16 1/2 419.1	16 5/8 422.3	20 508	20 508	21 1/4 539.8									
3 80	15 381	15 381	15 1/8 384.2	18 1/2 469.9	18 1/2 469.9	18 5/8 473.1	22 3/4 577.9	22 3/4 577.9	23 584.2									
4 100	18 457.2	18 457.2	18 1/8 460.4	21 1/2 546.1	21 1/2 546.1	21 5/8 549.3	26 1/2 673.1	26 1/2 673.1	26 7/8 682.6									
6 150	24 609.6	24 609.6	24 1/8 612.8	27 3/4 704.9	27 3/4 704.9	28 711.2	36 914.4	36 914.4	36 1/2 927.1									
8 200	29 736.6	29 736.6	29 1/8 739.8	32 3/4 831.9	32 3/4 831.9	33 1/8 841.4	40 1/4 1022.4	40 1/4 1022.4	40 7/8 1038.2									
10 250	33 838.2	33 838.2	33 1/8 841.4	39 990.6	39 990.6	39 3/8 1000.1	50 1270	50 1270	50 7/8 1292.2									
12 300	38 965.2	38 965.2	38 1/8 968.4	44 1/2 1130.3	44 1/2 1130.3	45 1/8 1146.2	56 1422.4	56 1422.4	56 7/8 1444.6									
14 350	40 1/2 1028.7	40 1/2 1028.7	40 7/8 1038.2	49 1/2 1257.3	49 1/2 1257.3	50 1/4 1246.4	- -	- -	- -									
16 400	44 1/2 1130.3	44 1/2 1130.3	44 7/8 1139.8	54 1/2 1384.3	54 1/2 1384.3	55 3/8 1406.5	- -	- -	- -									
18 450	48 1219.2	48 1219.2	48 1/2 12319	- -	- -	- -	- -	- -	- -									
20 500	52 1320.8	52 1320.8	52 1/2 1333.5	- -	- -	- -	- -	- -	- -									
22 550	- -	- -	- -	- -	- -	- -	- -	- -	- -									
24 600	61 1549.4	61 1549.4	61 3/4 1568.5	- -	- -	- -	- -	- -	- -									

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GATE VALVES

Valve Size	CLASS 150						CLASS 300						CLASS 600						
	Raised Face		Welding End		Ring and Groove		Raised Face		Welding End		Ring and Groove		Raised Face		Welding End		Ring and Groove		
Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)		
2	50	7	177.8	8 1/2	215.9	7 1/2	190.5	8 1/2	215.9	8 1/2	215.9	9 1/8	231.8	11 1/2	292.1	11 1/2	292.1	11 5/8	295.3
2 1/2	65	7 1/2	190.5	9 1/2	241.3	8	203.2	9 1/2	241.3	9 1/2	241.3	10 1/8	257.2	13	330.2	13	330.2	13 1/8	333.4
3	80	8	203.2	11 1/8	282.6	8 1/2	215.9	11 1/8	282.6	11 1/8	282.6	11 3/4	298.5	14	355.6	14	355.6	14 1/8	358.8
4	100	9	228.6	12	304.8	9 1/2	241.3	12	304.8	12	304.8	12 5/8	320.7	17	431.8	17	431.8	17 1/8	435
6	150	10 1/2	266.7	15 7/8	403.2	11	279.4	15 7/8	403.2	15 7/8	403.2	16 1/2	419.1	22	558.8	22	558.8	22 1/8	562
8	200	11 1/2	292.1	16 1/2	419.1	12	304.8	16 1/2	419.1	16 1/2	419.1	17 1/8	435	26	660.4	26	660.4	26 1/8	663.6
10	250	13	330.2	18	457.2	13 1/2	342.9	18	457.2	18	457.2	18 5/8	473.1	31	787.4	31	787.4	31 1/8	790.6
12	300	14	355.6	19 3/4	501.7	14 1/2	368.3	19 3/4	501.7	19 3/4	501.7	20 3/8	517.5	33	838.2	33	838.2	33 1/8	841.4
14	350	15	381	22 1/2	571.5	15 1/2	393.7	30	762	30	762	30 5/8	777.9	35	889	35	889	35 1/8	892.2
16	400	16	406.4	24	609.6	16 1/2	419.1	33	838.2	33	838.2	33 5/8	854.1	39	990.6	39	990.6	39 1/8	993.8
18	450	17	431.8	26	660.4	17 1/2	444.5	36	914.4	36	914.4	36 5/8	930.3	43	1092.2	43	1092.2	43 1/8	1095.4
20	500	18	457.2	28	711.2	18 1/2	469.9	39	990.6	39	990.6	39 3/4	1009.7	47	1193.8	47	1193.8	47 1/4	1200.2
22	550	-	-	-	-	-	-	43	1092.2	43	1092.2	43 7/8	1114.4	51	1295.4	51	1295.4	51 3/8	1304.9
24	600	20	508	32	812.8	20 1/2	520.7	45	1143	45	1143	45 7/8	1165.2	55	1397	55	1397	55 3/8	1406.5
26	650	22	558.6	34	863.6	-	-	49	1244.6	49	1244.6	50	1270	57	1447.8	57	1447.8	57 1/2	1460.5
28	700	24	609.6	36	914.4	-	-	53	1346.2	53	1346.2	54	1371.6	61	1549.4	61	1549.4	61 1/2	1562.1
30	750	24	609.6	36	914.4	-	-	55	1397	55	1397	56	1422.4	65	1651	65	1651	65 1/2	1663.7
32	800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	850	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	900	28	711.2	40	1016	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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GATE VALVES

Valve Size	CLASS 900			CLASS 1500			CLASS 2500		
	Raised Face	Welding End	Ring and Groove	Raised Face	Welding End	Ring and Groove	Raised Face	Welding End	Ring and Groove
Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)
2 50	14 1/2 368.3	14 1/2 368.3	14 5/8 371.5	14 1/2 368.3	14 1/2 368.3	14 5/8 371.5	17 3/4 450.9	17 3/4 450.9	17 7/8 454
2 1/2 65	15 381	15 381	15 1/8 384.2	16 1/2 419.1	16 1/2 419.1	16 5/8 422.3	20 508	20 508	20 1/4 514.4
3 80	16 1/2 419.1	16 1/2 419.1	16 5/8 422.3	18 1/2 469.9	18 1/2 469.9	18 5/8 473.1	22 3/4 577.9	22 3/4 577.9	23 584.2
4 100	18 457.2	18 457.2	18 1/8 460.4	21 1/2 546.1	21 1/2 546.1	21 5/8 549.3	26 1/2 673.1	26 1/2 673.1	26 7/8 682.6
6 150	24 609.6	24 609.6	24 1/8 612.8	27 3/4 704.9	27 3/4 704.9	28 711.2	36 914.4	36 914.4	36 1/2 927.1
8 200	29 736.6	29 736.6	29 1/8 739.8	32 3/4 831.9	32 3/4 831.9	33 1/8 841.4	40 1/4 1022.4	40 1/4 1022.4	40 7/8 1038.2
10 250	33 838.2	33 838.2	33 1/8 841.4	39 990.6	39 990.6	39 3/8 1000.1	50 1270	50 1270	50 7/8 1292.2
12 300	38 965.2	38 965.2	38 1/8 968.4	44 1/2 1130.3	44 1/2 1130.3	45 1/8 1146.2	56 1422.4	56 1422.4	56 7/8 1444.6
14 350	40 1/2 1028.7	40 1/2 1028.7	40 7/8 1038.2	49 1/2 1257.3	49 1/2 1257.3	50 1/4 1246.4	- -	- -	- -
16 400	44 1/2 1130.3	44 1/2 1130.3	44 7/8 1139.8	54 1/2 1384.3	54 1/2 1384.3	55 3/8 1406.5	- -	- -	- -
18 450	48 1219.2	48 1219.2	48 1/2 12319	60 1/2 1536.7	60 1/2 1536.7	61 3/8 1558.9	- -	- -	- -
20 500	52 1320.8	52 1320.8	52 1/2 1333.5	65 1/2 1663.7	65 1/2 1663.7	66 3/8 1685	- -	- -	- -
22 550	- -	- -	- -	- -	- -	- -	- -	- -	- -
24 600	61 1549.4	61 1549.4	61 3/4 1568.5	76 1/2 1943.1	76 1/2 1943.1	77 5/8 1917.7	- -	- -	- -

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GLOBE VALVES

RAISED FACE															
Valve Size		Class 150		Class 300		Class 400		Class 600		Class 900		Class 1500		Class 2500	
Inch (mm)		Inch (mm)		Inch (mm)		Inch (mm)		Inch (mm)		Inch (mm)		Inch (mm)		Inch (mm)	
2	50	8	203	10 1/2	267	-	-	11 1/2	292	14 1/2	369	14 1/2	368	17 3/4	451
2 1/2	65	8 1/2	216	11 1/2	292	-	-	16 1/2	330	16 1/2	419	16 1/2	419	20	508
3	80	9 1/2	241	12 1/2	318	-	-	15	356	15	481	18 1/2	470	22 3/4	578
4	100	11 1/2	292	14	356	-	-	18	432	18	457	21 1/2	546	26 1/2	673
6	150	16	406	17 1/2	444	19	485	24	559	24	610	27 3/4	705	36	914
8	200	19 1/2	495	22	559	-	-	29	660	29	737	32 3/4	832	-	-
10	250	24 1/2	622	24 1/2	622	-	-	33	787	33	838	-	-	-	-
12	300	27 1/2	625	28	711	26	660	38	838	38	965	-	-	-	-
14	350	31	787	-	-	-	-	-	-	-	-	-	-	-	-
16	400	36	914	-	-	-	-	-	-	-	-	-	-	-	-
18	450	38 1/2	978	-	-	-	-	-	-	-	-	-	-	-	-

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KNIFE GATE, GATE, BUTTERFLY & DIAPHRAGM VALVES

Inches	(mm)	Diaphragm (BS 5156)	Butterfly (ISO 5752- Short)	Knife Gate	Gate (BS 5150/ AS 3579*)
1/2	15	108	-	-	108
3/4	20	117	-	-	117
1	25	127	-	-	127
1 1/4	32	146	-	-	140
1 1/2	40	159	33	-	165
2	50	190	43	48	178*
2 1/2	65	216	46	48	190*
3	80	254	46	51	203*
4	100	305	52	51	229*
5	125	356	56	57	254*
6	150	406	56	57	267*
8	200	521	60	70	292*
10	250	635	68	70	330*
12	300	749	78	76	356*
14	350	749	78	76	381
16	400	-	102	89	406
18	450	-	114	89	432
20	500	-	127	114	457
22	550	-	154	-	-
24	600	-	154	114	508

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SWING CHECK VALVES

Valve Size	CLASS 150			CLASS 300			CLASS 600		
	Raised Face	Welding End	Ring and Groove	Raised Face	Welding End	Ring and Groove	Raised Face	Welding End	Ring and Groove
Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)
2 50	8 203.2	8 203.2	8 1/2 215.9	10 1/2 266.7	10 1/2 266.7	11 1/8 282.6	11 1/2 292.1	11 1/2 292.1	11 5/8 295.3
2 1/2 65	8 1/2 215.9	8 1/2 215.9	9 228.6	11 1/2 292.1	11 1/2 292.1	12 1/8 308	13 330.2	13 330.2	13 1/8 333.4
3 80	9 1/2 241.3	9 1/2 241.3	10 254	12 1/2 317.5	12 1/2 317.5	13 1/8 333.4	14 355.6	14 355.6	14 1/8 358.8
4 100	11 1/2 292.1	11 1/2 292.1	12 304.8	14 355.6	14 355.6	14 5/8 371.5	17 431.8	17 431.8	17 1/8 435
6 150	14 355.6	14 355.6	14 1/2 368.3	17 1/2 444.5	17 1/2 444.5	18 1/8 460.4	22 558.8	22 558.8	22 1/8 562
8 200	19 1/2 495.3	19 1/2 495.3	20 508	21 533.4	21 533.4	21 5/8 549.3	26 660.4	26 660.4	26 1/8 663.6
10 250	24 1/2 622.3	24 1/2 622.3	25 635	24 1/2 622.3	24 1/2 622.3	25 1/8 638.2	31 787.4	31 787.4	31 1/8 790.6
12 300	27 1/2 698.5	27 1/2 698.5	28 711.2	28 711.2	28 711.2	28 5/8 727.1	33 838.2	33 838.2	33 1/8 841.4
14 350	31 787.4	31 787.4	31 1/2 800.1	33 838.2	33 838.2	33 5/8 854.1	35 889	35 889	35 1/8 892.2
16 400	34 863.6	34 863.6	34 1/2 876.3	34 863.6	34 863.6	34 5/8 879.5	39 990.6	39 990.6	39 1/8 993.8
18 450	38 1/2 977.9	38 1/2 977.9	39 990.6	38 1/2 977.9	38 1/2 977.9	39 1/8 993.8	43 1092.2	43 1092.2	43 1/8 1095.4
20 500	38 1/2 977.9	38 1/2 977.9	39 990.6	40 1016	40 1016	40 3/4 1035.1	47 1193.8	47 1193.8	47 1/4 1200.2
22 550	42 1066.8	42 1066.8	42 1/2 1079.5	44 1117.6	44 1117.6	44 7/8 1139.8	51 1295.4	51 1295.4	51 3/8 1304.9
24 600	51 1295.4	51 1295.4	51 1/2 1308.1	53 1346.2	53 1346.2	53 7/8 1368.4	55 1397	55 1397	55 3/8 1406.5
26 650	51 1295.4	51 1295.4	- -	53 1346.2	53 1346.2	54 1371.6	57 1447.8	57 1447.8	57 1/2 1460.5
28 700	57 1447.8	57 1447.8	- -	59 1498.6	59 1498.6	60 1524	63 1600.2	63 1600.2	63 1/2 1612.9
30 750	60 1524	60 1524	- -	62 3/4 1593.9	62 3/4 1593.9	63 3/4 1619.3	65 1651	65 1651	65 1/2 1663.7
36 900	77 1955.8	77 1955.8	- -	82 2082.8	82 2082.8	- -	82 2082.8	82 2082.8	- -

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SWING CHECK VALVES

Valve Size	CLASS 900			CLASS 1500			CLASS 2500		
	Raised Face	Welding End	Ring and Groove	Raised Face	Welding End	Ring and Groove	Raised Face	Welding End	Ring and Groove
Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)
2 50	14 1/2 368.3	14 1/2 368.3	14 5/8 371.5	14 1/2 368.3	14 1/2 368.3	14 5/8 371.5	17 3/4 450.9	17 3/4 450.9	17 7/8 454
2 1/2 65	15 381	15 381	15 1/8 384.2	16 1/2 419.1	16 1/2 419.1	16 5/8 422.3	20 508	20 508	20 1/4 514.4
3 80	16 1/2 419.1	16 1/2 419.1	16 5/8 422.3	18 1/2 469.9	18 1/2 469.9	18 5/8 473.1	22 3/4 577.9	22 3/4 577.9	23 584.2
4 100	18 457.2	18 457.2	18 1/8 460.4	21 1/2 546.1	21 1/2 546.1	21 5/8 549.3	26 1/2 673.1	26 1/2 673.1	26 7/8 682.6
6 150	24 609.6	24 609.6	24 1/8 612.8	27 3/4 704.9	27 3/4 704.9	28 711.2	36 914.4	36 914.4	36 1/2 927.1
8 200	29 736.6	29 736.6	29 1/8 739.8	32 3/4 831.9	32 3/4 831.9	33 1/8 841.4	40 1/4 1022.4	40 1/4 1022.4	40 7/8 1038.2
10 250	33 838.2	33 838.2	33 1/8 841.4	39 990.6	39 990.6	39 3/8 1000.1	50 1270	50 1270	50 7/8 1292.2
12 300	38 965.2	38 965.2	38 1/8 968.4	44 1/2 1130.3	44 1/2 1130.3	45 1/8 1146.2	56 1422.4	56 1422.4	56 7/8 1444.6
14 350	40 1/2 1028.7	40 1/2 1028.7	40 7/8 1038.2	49 1/2 1257.3	49 1/2 1257.3	50 1/4 1246.4	- -	- -	- -
16 400	44 1/2 1130.3	44 1/2 1130.3	44 7/8 1139.8	54 1/2 1384.3	54 1/2 1384.3	55 3/8 1406.5	- -	- -	- -
18 450	48 1219.2	48 1219.2	48 1/2 12319	60 1/2 1536.7	60 1/2 1536.7	61 3/8 1558.9	- -	- -	- -
20 500	52 1320.8	52 1320.8	52 1/2 1333.5	65 1/2 1663.7	65 1/2 1663.7	66 3/8 1685	- -	- -	- -
24 600	61 1549.4	61 1549.4	61 3/4 1568.5	76 1/2 1943.1	76 1/2 1943.1	77 5/8 1917.7	- -	- -	- -

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