

## 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 Groove     | Raised Face    | Welding End    | Ring Groove     | Raised Face    | Welding End    | Ring Groove     | Raised Face | Welding End | Ring 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 (435.0)  |             |             |             |
| 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 (562.0)  |             |             |             |
| 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* (635.0)     | 24 1/2 (622.3)  | 25 1/2 (647.7) | 25 (635.0)     | 26 1/8 (663.6)  | 33 (838.2)     | 33 (838.2)     | 33 1/8 (841.4)  |             |             |             |
| 14 (350)   | 27 (685.8)            | 30 (762.0)      | 27 1/2 (698.5)  | 30 (762.0)     | 30 (762.0)     | 30 5/8 (777.9)  | 35 (889.0)     | 35 (889.0)     | 35 1/8 (892.2)  |             |             |             |
| 16 (400)   | 30 (762.0)            | 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 (1092.2)    | 43 7/8 (1114.4) | 51 (1295.4)    | 51 (1295.4)    | 51 3/8 (1304.9) |             |             |             |
| 24 (600)   | 42 (1066.8)           | 45 (1143.0)     | 42 1/2 (1079.5) | 45 (1143.0)    | 45 (1143.0)    | 45 7/8 (1165.2) | 55 (1397.0)    | 55 (1397.0)    | 55 3/8 (1406.5) |             |             |             |
| 26 (650)   | 45 (1143.0)           | 49 (1244.6)     | —               | 49 (1244.6)    | 49 (1244.6)    | 50 (1270.0)     | 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 (1397.0)     | —               | 55 (1397.0)    | 55 (1397.0)    | 56 (1422.4)     | 65 (1651.0)    | 65 (1651.0)    | 65 1/2 (1663.7) |             |             |             |
| 32 (800)   | 54 (1371.6)           | 60 (1524.0)     | —               | 60 (1524.0)    | 60 (1524.0)    | 61 1/8 (1522.6) | 70 (1778.0)    | 70 (1778.0)    | 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 (1524.0)           | 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) |             |             |             |

\* Also available short pattern

### BALL VALVES (FULL BORE)

| Valve Size | CLASS 900       |                 |                 |                 |                 |                 | CLASS 1500      |                 |                 | CLASS 2500  |             |             |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------|-------------|-------------|
|            | Raised Face     | Welding End     | Ring Groove     | Raised Face     | Welding End     | Ring Groove     | Raised Face     | Welding End     | Ring Groove     | Raised Face | Welding End | Ring 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)     | 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 (454.0)  |             |             |             |
| 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 (508.0)      | 20 (508.0)      | 21 1/4 (539.8)  |             |             |             |
| 3 (80)     | 15 (381.0)      | 15 (381.0)      | 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 (1270.0)     | 50 (1270.0)     | 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 (1276.4) | —               | —               | —               |             |             |             |
| 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 (1231.9) | —               | —               | —               | —               | —               | —               |             |             |             |
| 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) | —               | —               | —               | —               | —               | —               |             |             |             |

### GATE VALVES

| Valve Size | CLASS 150      |                |                |                |                |                 | CLASS 300      |                |                 | CLASS 600   |             |             |
|------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|----------------|-----------------|-------------|-------------|-------------|
|            | Raised Face    | Welding End    | Ring Groove    | Raised Face    | Welding End    | Ring Groove     | Raised Face    | Welding End    | Ring Groove     | Raised Face | Welding End | Ring 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 (435.0)  |             |             |             |
| 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 (562.0)  |             |             |             |
| 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 (435.0)  | 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 (381.0)     | 22 1/2 (571.5) | 15 1/2 (393.7) | 30 (762.0)     | 30 (762.0)     | 30 5/8 (777.9)  | 35 (889.0)     | 35 (889.0)     | 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 (508.0)     | 32 (812.8)     | 20 1/2 (520.7) | 45 (1143.0)    | 45 (1143.0)    | 45 7/8 (1165.2) | 55 (1397.0)    | 55 (1397.0)    | 55 3/8 (1406.5) |             |             |             |
| 26 (650)   | 22 (558.6)     | 34 (863.6)     | —              | 49 (1244.6)    | 49 (1244.6)    | 50 (1270.0)     | 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 (1397.0)    | 55 (1397.0)    | 56 (1422.4)     | 65 (1651.0)    | 65 (1651.0)    | 65 1/2 (1663.7) |             |             |             |
| 32 (800)   | —              | —              | —              | —              | —              | —               | —              | —              | —               |             |             |             |
| 34 (850)   | —              | —              | —              | —              | —              | —               | —              | —              | —               |             |             |             |
| 36 (900)   | 28 (711.2)     | 40 (1016.0)    | —              | —              | —              | —               | —              | —              | —               |             |             |             |

## GATE VALVES

| CLASS 900  |       |                 |                 | CLASS 1500      |                 |                 |                 | CLASS 2500      |                 |                 |  |
|------------|-------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|
| Valve Size |       | Raised Face     | Welding End     | Ring Groove     | Raised Face     | Welding End     | Ring Groove     | Raised Face     | Welding End     | Ring Groove     |  |
| Inches     | (mm)  | Inches (mm)     | Inches (mm)     | Inches (mm)     | Inches (mm)     | Inches (mm)     | Inches (mm)     | Inches (mm)     | Inches (mm)     | Inches (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 (454.0)  |  |
| 2 1/2      | (65)  | 15 (381.0)      | 15 (381.0)      | 15 1/8 (384.2)  | 16 1/2 (419.1)  | 16 1/2 (419.1)  | 16 5/8 (422.3)  | 20 (508.0)      | 20 (508.0)      | 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 (1270.0)     | 50 (1270.0)     | 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 (1276.4) | —               | —               | —               |  |
| 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 (1231.9) | 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 (1685.0) | —               | —               | —               |  |
| 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 (1971.7) | —               | —               | —               |  |

# GLOBE VALVES

[illegible]

## SWING CHECK VALVES

| Valve Size |       | CLASS 150   |          |             |          |             |          | CLASS 300   |          |             |          |             |          | CLASS 600   |          |             |          |             |          |
|------------|-------|-------------|----------|-------------|----------|-------------|----------|-------------|----------|-------------|----------|-------------|----------|-------------|----------|-------------|----------|-------------|----------|
|            |       | Raised Face |          | Welding End |          | Ring Groove |          | Raised Face |          | Welding End |          | Ring Groove |          | Raised Face |          | Welding End |          | Ring Groove |          |
| Inches     | (mm)  | Inches      | (mm)     | Inches      | (mm)     | Inches      | (mm)     | Inches      | (mm)     | Inches      | (mm)     | Inches      | (mm)     | Inches      | (mm)     | Inches      | (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 1/8      | (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      | (308.0)  | 13          | (330.2)  | 13          | (330.2)  | 13 1/8      | (333.4)  |
| 3          | (80)  | 9 1/2       | (241.3)  | 9 1/2       | (241.3)  | 10          | (254.0)  | 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      | (435.0)  |
| 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      | (562.0)  |
| 8          | (200) | 19 1/2      | (495.3)  | 19 1/2      | (495.3)  | 20          | (508.0)  | 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          | (635.0)  | 24 1/2      | (622.3)  | 24 1/2      | (622.3)  | 25 1/8      | (638.2)  | 31          | (787.3)  | 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          | (889.0)  | 35          | (889.0)  | 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          | (1016.0) | 40          | (1016.0) | 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          | (1397.0) | 55          | (1397.0) | 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          | (1524.0) | 63          | (1600.2) | 63          | (1600.2) | 63 1/2      | (1612.9) |
| 30         | (750) | 60          | (1524.0) | 60          | (1524.0) | —           | —        | 62 3/4      | (1593.9) | 62 3/4      | (1593.9) | 63 3/4      | (1619.3) | 65          | (1651.0) | 65          | (1651.0) | 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) | —           | —        |

## SWING CHECK VALVES

| Valve Size  | CLASS 900       |                 |                 | CLASS 1500      |                 |                 | CLASS 2500      |                 |                 |
|-------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|             | Raised Face     | Welding End     | Ring Groove     | Raised Face     | Welding End     | Ring Groove     | Raised Face     | Welding End     | Ring Groove     |
| Inches (mm) | Inches (mm)     | Inches (mm)     | Inches (mm)     | Inches (mm)     | Inches (mm)     | Inches (mm)     | Inches (mm)     | Inches (mm)     | Inches (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 (454.0)  |
| 2 1/2 (65)  | 15 (381.0)      | 15 (381.0)      | 15 1/8 (384.2)  | 16 1/2 (419.1)  | 16 1/2 (419.1)  | 16 5/8 (422.3)  | 20 (508.0)      | 20 (508.0)      | 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 (1270.0)     | 50 (1270.0)     | 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 (1276.4) | —               | —               | —               |
| 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 (1231.9) | 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 (1685.0) | —               | —               | —               |
| 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 (1971.7) | —               | —               | —               |

## WAFER CHECK VALVES (SHORT PATTERN)

| Valve Size |       | Class 150 |        | Class 300 |        | Class 600 |        | Class 900 |        | Class 1500 |        |
|------------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|------------|--------|
| Inches     | (mm)  | Inches    | (mm)   | Inches    | (mm)   | Inches    | (mm)   | Inches    | (mm)   | Inches     | (mm)   |
| 2          | (50)  | 3/4       | (19.1) | 3/4       | (19.1) | 3/4       | (19.1) | 3/4       | (19.1) | 3/4        | (19.1) |
| 2 1/2      | (65)  | 3/4       | (19.1) | 3/4       | (19.1) | 3/4       | (19.1) | 3/4       | (19.1) | 3/4        | (19.1) |
| 3          | (80)  | 3/4       | (19.1) | 3/4       | (19.1) | 3/4       | (19.1) | 3/4       | (19.1) | 7/8        | (22.2) |
| 4          | (100) | 3/4       | (19.1) | 3/4       | (19.1) | 7/8       | (22.2) | 7/8       | (22.2) | 1 1/4      | (31.8) |
| 6          | (150) | 3/4       | (19.1) | 7/8       | (22.2) | 1 1/8     | (28.6) | 1 3/8     | (34.9) | 1 3/4      | (44.5) |
| 8          | (200) | 1 1/8     | (28.6) | 1 1/8     | (28.6) | 1 1/2     | (38.1) | 1 3/4     | (44.5) | 2 1/4      | (57.2) |
| 10         | (250) | 1 1/8     | (28.6) | 1 1/2     | (38.1) | 2 1/4     | (57.2) | 2 1/4     | (57.2) | 2 7/8      | (73.1) |
| 12         | (300) | 1 1/2     | (38.1) | 2         | (50.8) | 2 3/8     | (60.3) | —         | —      | —          | —      |
| 14         | (350) | 1 3/4     | (44.5) | 2         | (50.8) | 2 5/8     | (66.7) | —         | —      | —          | —      |
| 16         | (400) | 2         | (50.8) | 2         | (50.8) | 2 7/8     | (73.0) | —         | —      | —          | —      |
| 18         | (450) | 2 3/8     | (60.3) | 3         | (76.2) | 3 1/4     | (82.6) | —         | —      | —          | —      |
| 20         | (500) | 2 1/2     | (63.5) | 3 1/4     | (82.6) | 3 5/8     | (92.1) | —         | —      | —          | —      |

## OTHER COMMON FACE TO FACE DIMENSIONS

### KNIFE GATE, GATE, BUTTERFLY & DIAPHRAGM VALVES

| Inches | (mm)  | Diaphragm<br>(BS 5156) | Butterfly<br>(ISO 5752-Short) | Knife Gate | Gate<br>(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                         |