



| Nominal Pipe Size (NPS) | Flange Type    | Diameter of Flange (OD) | Diameter of Bolt Circle (BC) | Number of Bolts (Bolt Holes) | Diameter of Bolts (Bolt Holes) | Thickness of Flange (T) | Raised Face Diameter (RF) |
|-------------------------|----------------|-------------------------|------------------------------|------------------------------|--------------------------------|-------------------------|---------------------------|
| 1/2"                    | WN, SO, BL, TH | 3.50"<br>(88.9 mm)      | 2.38"<br>(60.5 mm)           | 4                            | 0.62"<br>(15.7 mm)             | 0.38"<br>(9.6 mm)       | 1.38"<br>(35 mm)          |
| 3/4"                    | WN, SO, BL, TH | 3.88"<br>(98.4 mm)      | 2.75"<br>(69.9 mm)           | 4                            | 0.62"<br>(15.7 mm)             | 0.44"<br>(11.2 mm)      | 1.69"<br>(43 mm)          |
| 1"                      | WN, SO, BL, TH | 4.25"<br>(108 mm)       | 3.12"<br>(79.4 mm)           | 4                            | 0.62"<br>(15.7 mm)             | 0.50"<br>(12.7 mm)      | 2.00"<br>(51 mm)          |
| 1-1/2"                  | WN, SO, BL, TH | 5.00"<br>(127 mm)       | 3.88"<br>(98.4 mm)           | 4                            | 0.75"<br>(19.1 mm)             | 0.56"<br>(14.2 mm)      | 2.88"<br>(73 mm)          |
| 2"                      | WN, SO, BL, TH | 6.00"<br>(152 mm)       | 4.75"<br>(121 mm)            | 4                            | 0.75"<br>(19.1 mm)             | 0.62"<br>(15.7 mm)      | 3.62"<br>(92 mm)          |
| 3"                      | WN, SO, BL, TH | 7.50"<br>(191 mm)       | 6.00"<br>(152 mm)            | 4                            | 0.75"<br>(19.1 mm)             | 0.75"<br>(19.1 mm)      | 5.00"<br>(127 mm)         |
| 4"                      | WN, SO, BL, TH | 9.00"<br>(229 mm)       | 7.50"<br>(191 mm)            | 8                            | 0.75"<br>(19.1 mm)             | 0.94"<br>(23.9 mm)      | 6.19"<br>(157 mm)         |
| 6"                      | WN, SO, BL, TH | 11.00"<br>(279 mm)      | 9.50"<br>(241 mm)            | 8                            | 0.88"<br>(22.2 mm)             | 1.00"<br>(25.4 mm)      | 8.50"<br>(216 mm)         |
| 8"                      | WN, SO, BL, TH | 13.50"<br>(343 mm)      | 11.75"<br>(298 mm)           | 8                            | 0.88"<br>(22.2 mm)             | 1.12"<br>(28.4 mm)      | 10.62"<br>(270 mm)        |
| 10"                     | WN, SO, BL, TH | 16.00"<br>(406 mm)      | 14.25"<br>(362 mm)           | 12                           | 1.00"<br>(25.4 mm)             | 1.19"<br>(30.2 mm)      | 12.75"<br>(324 mm)        |
| 12"                     | WN, SO, BL, TH | 19.00"<br>(483 mm)      | 17.00"<br>(432 mm)           | 12                           | 1.00"<br>(25.4 mm)             | 1.25"<br>(31.8 mm)      | 15.00"<br>(381 mm)        |
| 14"                     | WN, SO, BL, TH | 21.00"<br>(533 mm)      | 18.75"<br>(476 mm)           | 12                           | 1.13"<br>(28.7 mm)             | 1.38"<br>(35.1 mm)      | 16.25"<br>(413 mm)        |
| 16"                     | WN, SO, BL, TH | 23.50"<br>(597 mm)      | 21.25"<br>(540 mm)           | 16                           | 1.13"<br>(28.7 mm)             | 1.44"<br>(36.5 mm)      | 18.50"<br>(470 mm)        |
| 18"                     | WN, SO, BL, TH | 25.00"<br>(635 mm)      | 22.75"<br>(578 mm)           | 16                           | 1.25"<br>(31.8 mm)             | 1.56"<br>(39.7 mm)      | 21.00"<br>(533 mm)        |
| 20"                     | WN, SO, BL, TH | 27.50"<br>(699 mm)      | 25.00"<br>(635 mm)           | 20                           | 1.25"<br>(31.8 mm)             | 1.69"<br>(42.9 mm)      | 23.00"<br>(584 mm)        |
| 24"                     | WN, SO, BL, TH | 32.00"<br>(813 mm)      | 29.50"<br>(749 mm)           | 20                           | 1.38"<br>(35.1 mm)             | 1.88"<br>(47.8 mm)      | 27.25"<br>(692 mm)        |