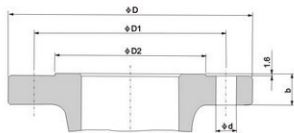




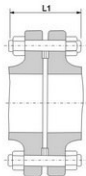
STEEL PIPE FLANGES

150lb/300lb

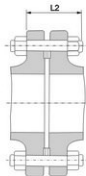
STEEL PIPE FLANGES ASME B 16.5 RF



Class 150 & Class 300 RF Flanges



Length of Stud Bolt



Length of Machine Bolt

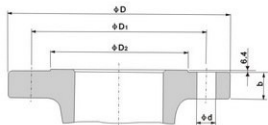
| Class | Nominal Size | | D | | D1 | | D2 | | b | | d | | Bolt | | L1 | | L2 | |
|-------|--------------|-----|-------|------|-------|-------|-------|------|------|------|------|------|------|-------|------|------|------|------|
| | NPS | DN | in | mm | in | mm | in | mm | in | mm | in | mm | NO. | Diam | in | mm | in | mm |
| 150 | 1/2 | 15 | 3.50 | 89 | 2.38 | 60.5 | 1.38 | 35 | 0.38 | 10 | 0.62 | 16 | 4 | 1/2 | 2.25 | 57 | 2.00 | 51 |
| | 3/4 | 20 | 3.88 | 99 | 2.75 | 69.9 | 1.69 | 43 | 0.41 | 10.5 | 0.62 | 16 | 4 | 1/2 | 2.50 | 64 | 2.00 | 51 |
| | 1 | 25 | 4.25 | 108 | 3.12 | 79.2 | 2.00 | 51 | 0.44 | 11.5 | 0.62 | 16 | 4 | 1/2 | 2.50 | 64 | 2.25 | 57 |
| | 1 1/4 | 32 | 4.62 | 117 | 3.50 | 88.9 | 2.50 | 64 | 0.50 | 13 | 0.62 | 16 | 4 | 1/2 | 2.75 | 70 | 2.25 | 57 |
| | 1 1/2 | 40 | 5.00 | 127 | 3.88 | 98.6 | 2.88 | 73 | 0.56 | 14.5 | 0.62 | 16 | 4 | 1/2 | 2.75 | 70 | 2.50 | 64 |
| | 2 | 50 | 6.00 | 152 | 4.75 | 120.7 | 3.62 | 92 | 0.62 | 16 | 0.75 | 19 | 4 | 5/8 | 3.25 | 83 | 2.75 | 70 |
| | 2 1/2 | 65 | 7.00 | 178 | 5.50 | 139.7 | 4.12 | 105 | 0.69 | 18 | 0.75 | 19 | 4 | 5/8 | 3.50 | 89 | 3.00 | 76 |
| | 3 | 80 | 7.50 | 191 | 6.00 | 152.4 | 5.00 | 127 | 0.75 | 19.5 | 0.75 | 19 | 4 | 5/8 | 3.50 | 89 | 3.00 | 76 |
| | 4 | 100 | 9.00 | 229 | 7.50 | 190.5 | 6.19 | 157 | 0.94 | 24 | 0.75 | 19 | 8 | 5/8 | 3.50 | 89 | 3.00 | 76 |
| | 5 | 125 | 10.00 | 254 | 8.50 | 215.9 | 7.31 | 186 | 0.94 | 24 | 0.88 | 22 | 8 | 3/4 | 3.75 | 95 | 3.25 | 83 |
| | 6 | 150 | 11.00 | 279 | 9.50 | 241.3 | 8.50 | 216 | 1.00 | 25.5 | 0.88 | 22 | 8 | 3/4 | 4.00 | 102 | 3.25 | 83 |
| | 8 | 200 | 13.50 | 343 | 11.75 | 298.5 | 10.62 | 270 | 1.12 | 28.5 | 0.88 | 22 | 8 | 3/4 | 4.25 | 108 | 3.50 | 89 |
| | 10 | 250 | 16.00 | 406 | 14.25 | 362.0 | 12.75 | 324 | 1.19 | 30.5 | 1.00 | 25 | 12 | 7/8 | 4.50 | 114 | 4.00 | 102 |
| | 12 | 300 | 19.00 | 483 | 17.00 | 431.8 | 15.00 | 381 | 1.25 | 32 | 1.00 | 25 | 12 | 7/8 | 4.75 | 121 | 4.00 | 102 |
| | 14 | 350 | 21.00 | 533 | 18.75 | 476.3 | 16.25 | 413 | 1.38 | 35.5 | 1.12 | 28 | 12 | 1 | 5.25 | 133 | 4.50 | 114 |
| | 16 | 400 | 23.50 | 597 | 21.25 | 539.8 | 18.50 | 470 | 1.44 | 37 | 1.12 | 28 | 16 | 1 | 5.25 | 133 | 4.50 | 114 |
| | 18 | 450 | 25.00 | 635 | 22.75 | 577.9 | 21.00 | 533 | 1.56 | 40 | 1.25 | 32 | 16 | 1 1/8 | 5.75 | 146 | 5.00 | 127 |
| | 20 | 500 | 27.50 | 699 | 25.00 | 635.0 | 23.00 | 584 | 1.69 | 43 | 1.25 | 32 | 20 | 1 1/8 | 6.25 | 159 | 5.50 | 140 |
| | 24 | 600 | 32.00 | 813 | 29.50 | 749.3 | 27.25 | 692 | 1.88 | 48 | 1.38 | 35 | 20 | 1 1/4 | 6.75 | 171 | 6.00 | 152 |
| | 300 | 1/2 | 15 | 3.75 | 95 | 2.62 | 67.0 | 1.38 | 35 | - | - | 0.62 | 16 | 4 | 1/2 | 2.50 | 64 | 2.25 |
| 3/4 | | 20 | 4.62 | 117 | 3.25 | 83.0 | 1.69 | 43 | - | - | 0.75 | 19 | 4 | 5/8 | 3.00 | 76 | 2.50 | 64 |
| 1 | | 25 | 4.88 | 124 | 3.50 | 89.0 | 2.00 | 51 | 0.69 | 18 | 0.75 | 19 | 4 | 5/8 | 3.00 | 76 | 2.50 | 64 |
| 1 1/4 | | 32 | 5.25 | 133 | 3.88 | 99.0 | 2.50 | 64 | 0.75 | 19.5 | 0.75 | 19 | 4 | 5/8 | 3.25 | 83 | 2.75 | 70 |
| 1 1/2 | | 40 | 6.12 | 155 | 4.50 | 114.0 | 2.88 | 73 | 0.81 | 21 | 0.88 | 22 | 4 | 3/4 | 3.50 | 89 | 3.00 | 76 |
| 2 | | 50 | 6.50 | 165 | 5.00 | 127.0 | 3.62 | 92 | 0.88 | 22.5 | 0.75 | 19 | 8 | 5/8 | 3.50 | 89 | 3.00 | 76 |
| 2 1/2 | | 65 | 7.50 | 191 | 5.88 | 149.4 | 4.12 | 105 | 1.00 | 25.5 | 0.88 | 22 | 8 | 5/8 | 4.00 | 102 | 3.25 | 83 |
| 3 | | 80 | 8.25 | 210 | 6.62 | 168.1 | 5.00 | 127 | 1.12 | 28.5 | 0.88 | 22 | 8 | 5/8 | 4.25 | 108 | 3.50 | 89 |
| 4 | | 100 | 10.00 | 254 | 7.88 | 200.2 | 6.19 | 157 | 1.25 | 32 | 0.88 | 22 | 8 | 5/8 | 4.50 | 114 | 3.75 | 95 |
| 5 | | 125 | 11.00 | 279 | 9.25 | 235.0 | 7.31 | 186 | 1.38 | 35.5 | 0.88 | 22 | 8 | 5/8 | 4.75 | 121 | 4.25 | 108 |
| 6 | | 150 | 12.50 | 318 | 10.62 | 269.7 | 8.50 | 216 | 1.44 | 37 | 0.88 | 22 | 12 | 5/8 | 4.75 | 121 | 4.25 | 108 |
| 8 | | 200 | 15.00 | 381 | 13.00 | 330.2 | 10.62 | 270 | 1.62 | 41.5 | 1.00 | 25 | 12 | 7/8 | 5.50 | 140 | 4.75 | 121 |
| 10 | | 250 | 17.50 | 445 | 15.25 | 387.4 | 12.75 | 324 | 1.88 | 48 | 1.12 | 28 | 16 | 1 | 6.25 | 159 | 5.50 | 140 |
| 12 | | 300 | 20.50 | 521 | 17.75 | 450.9 | 15.00 | 381 | 2.00 | 51 | 1.25 | 32 | 16 | 1 1/8 | 6.75 | 171 | 5.75 | 146 |
| 14 | | 350 | 23.00 | 584 | 20.25 | 514.4 | 16.25 | 413 | 2.12 | 54 | 1.25 | 32 | 20 | 1 1/8 | 7.00 | 178 | 6.25 | 159 |
| 16 | | 400 | 25.50 | 648 | 22.50 | 571.5 | 18.50 | 470 | 2.25 | 57.4 | 1.38 | 35 | 20 | 1 1/4 | 7.50 | 191 | 6.50 | 165 |
| 18 | | 450 | 28.00 | 711 | 24.75 | 628.7 | 21.00 | 533 | 2.38 | 60.5 | 1.38 | 35 | 24 | 1 1/4 | 7.75 | 197 | 6.75 | 171 |
| 20 | | 500 | 30.50 | 775 | 27.00 | 685.8 | 23.00 | 584 | 2.50 | 63.5 | 1.38 | 35 | 24 | 1 1/4 | 8.00 | 203 | 7.25 | 184 |
| 24 | | 600 | 36.00 | 914 | 32.00 | 812.8 | 27.25 | 692 | 2.75 | 70 | 1.62 | 41 | 24 | 1 1/2 | 9.00 | 229 | 8.00 | 203 |



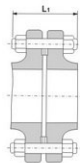
STEEL PIPE FLANGES

600lb/900lb

STEEL PIPE FLANGES ASME B 16.5 R F



Class600-Class2500 RF Flanges



Length of Stud Bolt

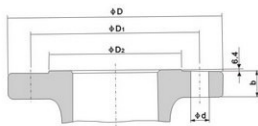
| Class | Nominal Size | D | | D1 | | D2 | | b | | d | | Bolt | | L1 | | |
|-------|--------------|-------|-------|-------|-------|-------|-------|------|------|------|------|--------|-------|-------|-------|-----|
| | | NPS | DN | In | mm | In | mm | In | mm | In | mm | Number | Diam | In | mm | |
| 600 | 1/2 | 15 | 3.75 | 95 | 2.62 | 66.5 | 1.38 | 35 | 0.56 | 14.5 | 0.62 | 16 | 4 | 1/2 | 3.00 | 76 |
| | 1/2 | 20 | 4.62 | 117 | 3.25 | 82.6 | 1.69 | 43 | 0.62 | 16 | 0.75 | 19 | 4 | 5/8 | 3.50 | 89 |
| | 1 | 25 | 4.88 | 124 | 3.50 | 88.9 | 2.00 | 51 | 0.69 | 18 | 0.75 | 19 | 4 | 5/8 | 3.50 | 89 |
| | 1 | 32 | 5.25 | 133 | 3.88 | 98.6 | 2.50 | 64 | 0.81 | 21 | 0.75 | 19 | 4 | 5/8 | 3.75 | 95 |
| | 1 1/4 | 40 | 6.12 | 155 | 4.50 | 114.3 | 2.88 | 73 | 0.88 | 22.5 | 0.88 | 22 | 4 | 3/4 | 4.25 | 108 |
| | 2 | 50 | 6.50 | 165 | 5.00 | 127.0 | 3.62 | 92 | 1.00 | 25.5 | 0.75 | 19 | 8 | 5/8 | 4.25 | 108 |
| | 1 1/2 | 65 | 7.50 | 191 | 5.88 | 149.4 | 4.12 | 105 | 1.12 | 28.5 | 0.88 | 22 | 8 | 3/4 | 4.75 | 121 |
| | 3 | 80 | 8.25 | 210 | 6.62 | 168.1 | 5.00 | 127 | 1.25 | 32 | 0.88 | 22 | 8 | 3/4 | 5.00 | 127 |
| | 4 | 100 | 10.75 | 273 | 8.50 | 215.9 | 6.19 | 157 | 1.50 | 38.5 | 1.00 | 25 | 8 | 7/8 | 5.75 | 146 |
| | 5 | 125 | 13.00 | 330 | 10.50 | 266.7 | 7.31 | 186 | 1.75 | 44.5 | 1.12 | 28 | 8 | 1 | 6.50 | 165 |
| | 6 | 150 | 14.00 | 356 | 11.50 | 292.1 | 8.50 | 216 | 1.88 | 48 | 1.12 | 28 | 12 | 1 | 6.75 | 171 |
| | 8 | 200 | 16.50 | 419 | 13.75 | 349.3 | 10.62 | 270 | 2.19 | 56 | 1.25 | 32 | 12 | 1 1/8 | 7.50 | 191 |
| | 10 | 250 | 20.00 | 508 | 17.00 | 431.8 | 12.75 | 324 | 2.50 | 63.5 | 1.38 | 35 | 16 | 1 1/2 | 8.50 | 216 |
| | 12 | 300 | 22.00 | 559 | 19.25 | 489.0 | 15.00 | 381 | 2.62 | 67 | 1.38 | 35 | 20 | 1 1/2 | 8.75 | 222 |
| | 14 | 350 | 23.75 | 603 | 20.75 | 527.1 | 16.25 | 413 | 2.75 | 70 | 1.50 | 38 | 20 | 1 1/2 | 9.25 | 235 |
| | 16 | 400 | 27.00 | 686 | 23.75 | 603.3 | 18.50 | 470 | 3.00 | 76.5 | 1.62 | 41 | 20 | 1 1/2 | 10.00 | 254 |
| 18 | 450 | 29.25 | 743 | 25.75 | 654.1 | 21.00 | 533 | 3.25 | 83 | 1.75 | 44 | 20 | 1 5/8 | 10.75 | 273 | |
| 20 | 500 | 32.00 | 813 | 28.50 | 723.9 | 23.00 | 584 | 3.50 | 89 | 1.75 | 44 | 24 | 1 5/8 | 11.25 | 286 | |
| 24 | 600 | 37.00 | 940 | 33.00 | 838.2 | 27.25 | 692 | 4.00 | 102 | 2.00 | 51 | 24 | 1 7/8 | 13.00 | 330 | |
| 900 | 1/2 | 15 | 4.75 | 121 | 3.25 | 82.6 | 1.38 | 35 | 0.88 | 22.5 | 0.88 | 22 | 4 | 3/4 | 4.25 | 108 |
| | 3/4 | 20 | 5.12 | 130 | 3.50 | 88.9 | 1.69 | 43 | 1.00 | 25.5 | 0.88 | 22 | 4 | 3/4 | 4.50 | 114 |
| | 1 | 25 | 5.88 | 149 | 4.00 | 101.6 | 2.00 | 51 | 1.12 | 28.5 | 1.00 | 25 | 4 | 7/8 | 5.00 | 127 |
| | 1 1/4 | 32 | 6.25 | 159 | 4.38 | 111.3 | 2.50 | 64 | 1.12 | 28.5 | 1.00 | 25 | 4 | 7/8 | 5.00 | 127 |
| | 1 1/2 | 40 | 7.00 | 178 | 4.88 | 124.0 | 2.88 | 73 | 1.25 | 32 | 1.12 | 28 | 4 | 1 | 5.50 | 140 |
| | 2 | 50 | 8.50 | 216 | 6.50 | 165.1 | 3.62 | 92 | 1.50 | 38.5 | 1.00 | 25 | 8 | 7/8 | 5.75 | 146 |
| | 2 1/2 | 65 | 9.62 | 244 | 7.50 | 190.5 | 4.12 | 105 | 1.62 | 41.5 | 1.12 | 28 | 8 | 1 | 6.25 | 159 |
| | 3 | 80 | 9.50 | 241 | 7.50 | 190.5 | 5.00 | 127 | 1.50 | 38.5 | 1.00 | 25 | 8 | 7/8 | 5.75 | 146 |
| | 4 | 100 | 11.50 | 292 | 9.25 | 235.0 | 6.19 | 157 | 1.75 | 44.5 | 1.25 | 32 | 8 | 1 1/8 | 6.75 | 171 |
| | 5 | 125 | 13.75 | 349 | 11.00 | 279.4 | 7.31 | 186 | 2.00 | 51 | 1.38 | 35 | 8 | 1 1/2 | 7.50 | 191 |
| | 6 | 150 | 15.00 | 381 | 12.50 | 317.5 | 8.50 | 216 | 2.19 | 56 | 1.25 | 32 | 12 | 1 1/8 | 7.50 | 191 |
| | 8 | 200 | 18.50 | 470 | 15.50 | 393.7 | 10.62 | 270 | 2.50 | 63.5 | 1.50 | 38 | 12 | 1 3/8 | 8.75 | 222 |
| | 10 | 250 | 21.50 | 546 | 18.50 | 469.9 | 12.75 | 324 | 2.75 | 70 | 1.50 | 38 | 16 | 1 3/8 | 9.25 | 235 |
| | 12 | 300 | 24.00 | 610 | 21.00 | 533.4 | 15.00 | 381 | 3.12 | 79.5 | 1.50 | 38 | 20 | 1 3/8 | 10.00 | 254 |
| | 14 | 350 | 25.25 | 641 | 22.00 | 558.8 | 16.25 | 413 | 3.38 | 86 | 1.62 | 41 | 20 | 1 1/2 | 10.75 | 273 |
| | 16 | 400 | 27.75 | 705 | 24.25 | 616.0 | 18.50 | 470 | 3.50 | 89 | 1.75 | 44 | 20 | 1 7/8 | 11.25 | 286 |
| 18 | 450 | 31.00 | 787 | 27.00 | 685.8 | 21.00 | 533 | 4.00 | 102 | 2.00 | 51 | 20 | 1 7/8 | 12.75 | 324 | |
| 20 | 500 | 33.75 | 857 | 29.50 | 749.3 | 23.00 | 584 | 4.25 | 108 | 2.12 | 54 | 20 | 2 | 13.75 | 349 | |
| 24 | 600 | 41.00 | 1041 | 35.50 | 901.7 | 27.25 | 692 | 5.50 | 140 | 2.62 | 67 | 20 | 2 1/2 | 17.25 | 438 | |



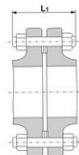
STEEL PIPE FLANGES

1500lb/2500lb

STEEL PIPE FLANGES ASME B 16.5 RF



Class600-Class2500 RF Flanges



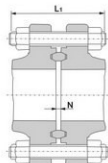
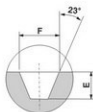
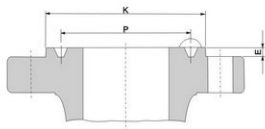
Length of Stud Bolt

| Class | Nominal Size | | D | | D1 | | D2 | | b | | d | | Bolt | | L1 | |
|-------|--------------|-------|-------|-------|-------|-------|-------|------|-------|------|------|----|--------|-------|-------|-----|
| | NPS | DN | in | mm | in | mm | in | mm | in | mm | in | mm | Number | Diam | in | mm |
| 1500 | ½ | 15 | 4.75 | 121 | 3.25 | 82.6 | 1.38 | 35 | 0.88 | 22.5 | 0.88 | 22 | 4 | ¾ | 4.25 | 108 |
| | ¾ | 20 | 5.12 | 130 | 3.50 | 88.9 | 1.69 | 43 | 1.00 | 25.5 | 0.88 | 22 | 4 | ¾ | 4.5.0 | 114 |
| | 1 | 25 | 5.88 | 149 | 4.00 | 101.6 | 2.00 | 51 | 1.12 | 28.5 | 1.00 | 25 | 4 | 7/8 | 5.00 | 127 |
| | 1 ¼ | 32 | 6.25 | 159 | 4.38 | 111.3 | 2.50 | 64 | 1.12 | 28.5 | 1.00 | 25 | 4 | 7/8 | 5.00 | 127 |
| | 1 ½ | 40 | 7.00 | 178 | 4.88 | 124.0 | 2.88 | 73 | 1.25 | 32 | 1.12 | 28 | 4 | 1 | 5.50 | 140 |
| | 2 | 50 | 8.25 | 216 | 6.50 | 165.1 | 3.62 | 92 | 1.50 | 38.5 | 1.00 | 25 | 8 | 7/8 | 5.75 | 146 |
| | 2 ½ | 65 | 9.25 | 244 | 7.50 | 190.5 | 4.12 | 105 | 1.62 | 41.5 | 1.12 | 28 | 8 | 1 | 6.25 | 159 |
| | 3 | 80 | 10.25 | 267 | 8.00 | 203.2 | 5.00 | 127 | 1.88 | 48 | 1.25 | 32 | 8 | 1 1/8 | 7.00 | 178 |
| | 4 | 100 | 12.25 | 311 | 9.50 | 241.3 | 6.19 | 157 | 2.12 | 54 | 1.38 | 35 | 8 | 1 ¼ | 7.75 | 197 |
| | 5 | 125 | 14.75 | 375 | 11.50 | 292.1 | 7.31 | 186 | 2.88 | 73.5 | 1.62 | 41 | 8 | 1 ½ | 9.25 | 248 |
| | 6 | 150 | 15.50 | 394 | 12.50 | 317.5 | 8.50 | 216 | 3.25 | 83 | 1.50 | 38 | 12 | 1 3/8 | 10.25 | 260 |
| | 8 | 200 | 19.00 | 483 | 15.50 | 393.7 | 10.62 | 270 | 3.62 | 92 | 1.75 | 44 | 12 | 1 5/8 | 11.50 | 292 |
| | 10 | 250 | 23.00 | 584 | 19.00 | 482.6 | 12.75 | 324 | 4.25 | 108 | 2.00 | 51 | 12 | 1 7/8 | 13.25 | 337 |
| | 12 | 300 | 26.50 | 673 | 22.50 | 571.5 | 15.00 | 381 | 4.88 | 124 | 2.12 | 54 | 16 | 2 | 14.75 | 375 |
| 14 | 350 | 29.50 | 749 | 25.00 | 635.0 | 16.25 | 413 | 5.25 | 133.5 | 2.38 | 60 | 16 | 2 ½ | 16.00 | 406 | |
| 16 | 400 | 32.50 | 826 | 27.75 | 704.9 | 18.50 | 470 | 5.75 | 146.5 | 2.62 | 67 | 16 | 2 ½ | 17.50 | 445 | |
| 18 | 450 | 36.00 | 914 | 30.50 | 774.7 | 21.00 | 533 | 6.38 | 162 | 2.88 | 73 | 16 | 2 ½ | 19.50 | 495 | |
| 20 | 500 | 38.75 | 984 | 32.75 | 831.9 | 23.00 | 584 | 7.00 | 178 | 3.12 | 79 | 16 | 3 | 21.25 | 540 | |
| 24 | 600 | 46.00 | 1168 | 39.00 | 990.6 | 27.25 | 692 | 8.00 | 203.5 | 3.62 | 92 | 16 | 3 ½ | 24.25 | 616 | |
| 2500 | ½ | 15 | 5.25 | 133 | 3.50 | 88.9 | 1.38 | 35 | 1.19 | 30.5 | 0.88 | 22 | 4 | ¾ | 4.75 | 121 |
| | ¾ | 20 | 5.50 | 140 | 3.75 | 95.3 | 1.69 | 43 | 1.25 | 32 | 0.88 | 22 | 4 | ¾ | 5.00 | 127 |
| | 1 | 25 | 6.25 | 159 | 4.25 | 108.0 | 2.00 | 51 | 1.38 | 35.5 | 1.00 | 25 | 4 | 7/8 | 5.50 | 140 |
| | 1 ¼ | 32 | 7.25 | 184 | 5.12 | 130.0 | 2.50 | 64 | 1.50 | 38.5 | 1.12 | 28 | 4 | 1 | 6.00 | 152 |
| | 1 ½ | 40 | 8.00 | 203 | 5.75 | 146.1 | 2.88 | 73 | 1.75 | 44.5 | 1.25 | 32 | 4 | 1 1/8 | 6.75 | 171 |
| | 2 | 50 | 9.25 | 235 | 6.75 | 171.5 | 3.62 | 92 | 2.00 | 51 | 1.12 | 28 | 8 | 1 | 7.00 | 178 |
| | 2 ½ | 65 | 10.25 | 267 | 7.75 | 196.9 | 4.12 | 105 | 2.25 | 57.5 | 1.25 | 32 | 8 | 1 1/8 | 7.75 | 197 |
| | 3 | 80 | 12.00 | 305 | 9.00 | 228.6 | 5.00 | 127 | 2.62 | 67 | 1.38 | 35 | 8 | 1 ½ | 8.75 | 222 |
| | 4 | 100 | 14.00 | 356 | 10.75 | 273.1 | 6.19 | 157 | 3.00 | 76.5 | 1.62 | 41 | 8 | 1 ½ | 10.00 | 254 |
| | 5 | 125 | 16.50 | 419 | 12.75 | 323.9 | 7.31 | 186 | 3.62 | 92 | 1.88 | 48 | 8 | 1 ¾ | 11.75 | 298 |
| | 6 | 150 | 19.00 | 483 | 14.50 | 368.3 | 8.50 | 216 | 4.25 | 108 | 2.12 | 54 | 8 | 2 | 13.50 | 343 |
| | 8 | 200 | 21.75 | 552 | 17.25 | 438.2 | 10.62 | 270 | 5.00 | 127 | 2.12 | 54 | 12 | 2 | 15.00 | 381 |
| 10 | 250 | 26.50 | 673 | 21.25 | 539.8 | 12.75 | 324 | 6.50 | 165.5 | 2.62 | 67 | 12 | 2 ½ | 19.25 | 489 | |
| 12 | 300 | 30.00 | 762 | 24.38 | 619.3 | 15.00 | 381 | 7.25 | 184.5 | 2.88 | 73 | 12 | 2 ½ | 21.25 | 540 | |



RING-JOINT FLANGED ENDS

STEEL PIPE FLANGES ASME B 16.5 RTJ



| Class | Nominal Size | | Ring Number | P | | E | | F | | K | | N | | L1 | |
|-------|--------------|-----|-------------|--------|--------|-------|-------|-------|-------|-------|------|------|-------|------|-----|
| | NPS | DN | | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm |
| 150 | 1 | 25 | R15 | 1.875 | 47.63 | 0.25 | 6.35 | 0.344 | 8.74 | 2.50 | 64 | 0.16 | 4 | 3.00 | 76 |
| | 1 1/2 | 32 | R17 | 2.250 | 57.15 | 0.25 | 6.35 | 0.344 | 8.74 | 2.88 | 73 | 0.16 | 4 | 3.25 | 83 |
| | 1 1/2 | 40 | R19 | 2.562 | 65.07 | 0.25 | 6.35 | 0.344 | 8.74 | 3.25 | 83 | 0.16 | 4 | 3.25 | 83 |
| | 2 | 50 | R22 | 3.250 | 82.55 | 0.25 | 6.35 | 0.344 | 8.74 | 4.00 | 102 | 0.16 | 4 | 3.75 | 95 |
| | 2 1/2 | 65 | R25 | 4.000 | 101.60 | 0.25 | 6.35 | 0.344 | 8.74 | 4.75 | 121 | 0.16 | 4 | 4.00 | 102 |
| | 3 | 80 | R29 | 4.500 | 114.30 | 0.25 | 6.35 | 0.344 | 8.74 | 5.25 | 133 | 0.16 | 4 | 4.00 | 102 |
| | 4 | 100 | R36 | 5.875 | 149.23 | 0.25 | 6.35 | 0.344 | 8.74 | 6.75 | 171 | 0.16 | 4 | 4.00 | 102 |
| | 5 | 125 | R40 | 6.750 | 171.45 | 0.25 | 6.35 | 0.344 | 8.74 | 7.62 | 194 | 0.16 | 4 | 4.25 | 108 |
| | 6 | 150 | R43 | 7.625 | 193.68 | 0.25 | 6.35 | 0.344 | 8.74 | 8.62 | 219 | 0.16 | 4 | 4.50 | 114 |
| | 8 | 200 | R48 | 9.750 | 247.65 | 0.25 | 6.35 | 0.344 | 8.74 | 10.75 | 273 | 0.16 | 4 | 4.75 | 121 |
| | 10 | 250 | R52 | 12.000 | 304.80 | 0.25 | 6.35 | 0.344 | 8.74 | 13.00 | 330 | 0.16 | 4 | 5.00 | 127 |
| | 12 | 300 | R56 | 15.000 | 381.00 | 0.25 | 6.35 | 0.344 | 8.74 | 16.00 | 406 | 0.16 | 4 | 5.25 | 133 |
| | 14 | 350 | R59 | 15.625 | 396.88 | 0.25 | 6.35 | 0.344 | 8.74 | 16.75 | 425 | 0.12 | 3 | 5.75 | 146 |
| | 16 | 400 | R64 | 17.875 | 454.03 | 0.25 | 6.35 | 0.344 | 8.74 | 19.00 | 483 | 0.12 | 3 | 5.75 | 146 |
| | 18 | 450 | R68 | 20.375 | 517.53 | 0.25 | 6.35 | 0.344 | 8.74 | 21.50 | 546 | 0.12 | 3 | 6.25 | 159 |
| | 20 | 500 | R72 | 22.000 | 558.80 | 0.25 | 6.35 | 0.344 | 8.74 | 23.50 | 597 | 0.12 | 3 | 6.75 | 171 |
| 300 | 24 | 600 | R76 | 26.500 | 673.10 | 0.25 | 6.35 | 0.344 | 8.74 | 28.00 | 711 | 0.12 | 3 | 7.25 | 184 |
| | 1 | 25 | R16 | 2.000 | 50.80 | 0.25 | 6.35 | 0.344 | 8.74 | 2.75 | 70 | 0.16 | 4 | 3.50 | 89 |
| | 1 1/2 | 32 | R18 | 2.375 | 60.33 | 0.25 | 6.35 | 0.344 | 8.74 | 3.12 | 79 | 0.16 | 4 | 3.75 | 95 |
| | 1 1/2 | 40 | R20 | 2.688 | 68.28 | 0.25 | 6.35 | 0.344 | 8.74 | 3.56 | 90 | 0.16 | 4 | 4.00 | 102 |
| | 2 | 50 | R23 | 3.250 | 82.55 | 0.312 | 7.92 | 0.469 | 11.91 | 4.25 | 108 | 0.22 | 6 | 4.00 | 102 |
| | 2 1/2 | 65 | R26 | 4.000 | 101.60 | 0.312 | 7.92 | 0.469 | 11.91 | 5.00 | 127 | 0.22 | 6 | 4.50 | 114 |
| | 3 | 80 | R31 | 4.875 | 123.83 | 0.312 | 7.92 | 0.469 | 11.91 | 5.75 | 146 | 0.22 | 6 | 4.75 | 121 |
| | 4 | 100 | R37 | 5.875 | 149.23 | 0.312 | 7.92 | 0.469 | 11.91 | 6.88 | 175 | 0.22 | 6 | 5.00 | 127 |
| | 5 | 125 | R41 | 7.125 | 180.98 | 0.312 | 7.92 | 0.469 | 11.91 | 8.25 | 210 | 0.22 | 6 | 5.25 | 133 |
| | 6 | 150 | R45 | 8.312 | 211.12 | 0.312 | 7.92 | 0.469 | 11.91 | 9.50 | 241 | 0.22 | 6 | 5.50 | 140 |
| | 8 | 200 | R49 | 10.625 | 269.88 | 0.312 | 7.92 | 0.469 | 11.91 | 11.88 | 302 | 0.22 | 6 | 6.00 | 152 |
| | 10 | 250 | R53 | 12.750 | 323.85 | 0.312 | 7.92 | 0.469 | 11.91 | 14.00 | 356 | 0.22 | 6 | 6.75 | 171 |
| | 12 | 300 | R57 | 15.000 | 381.00 | 0.312 | 7.92 | 0.469 | 11.91 | 16.25 | 413 | 0.22 | 6 | 7.25 | 184 |
| | 14 | 350 | R61 | 16.500 | 419.10 | 0.312 | 7.92 | 0.469 | 11.91 | 18.00 | 457 | 0.22 | 6 | 7.50 | 191 |
| | 16 | 400 | R65 | 18.500 | 469.90 | 0.312 | 7.92 | 0.469 | 11.91 | 20.00 | 508 | 0.22 | 6 | 8.00 | 203 |
| | 18 | 450 | R69 | 21.000 | 533.40 | 0.312 | 7.92 | 0.469 | 11.91 | 22.62 | 575 | 0.22 | 6 | 8.25 | 210 |
| 20 | 500 | R73 | 23.000 | 584.20 | 0.375 | 9.53 | 0.531 | 13.49 | 25.00 | 635 | 0.22 | 6 | 8.75 | 222 | |
| 24 | 600 | R77 | 27.250 | 692.15 | 0.438 | 11.13 | 0.656 | 16.66 | 29.50 | 749 | 0.25 | 6 | 10.00 | 254 | |



RING-JOINT FLANGED ENDS

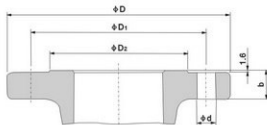
| Class | Nominal Size | | Ring Number | P | | E | | F | | K | | N | | L1 | |
|-------|--------------|-----|-------------|--------|--------|-------|-------|-------|-------|-------|------|------|-------|-------|-----|
| | NPS | DN | | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm |
| 600 | 1 | 25 | R18 | 2.000 | 50.80 | 0.250 | 6.35 | 0.344 | 8.74 | 2.75 | 70 | 0.16 | 4 | 3.50 | 89 |
| | 1 1/2 | 32 | R21 | 2.375 | 60.33 | 0.250 | 6.35 | 0.344 | 8.74 | 3.12 | 79 | 0.16 | 4 | 3.75 | 95 |
| | 1 1/2 | 40 | R23 | 2.688 | 68.28 | 0.250 | 6.35 | 0.344 | 8.74 | 3.56 | 90 | 0.16 | 4 | 4.25 | 108 |
| | 1 | 50 | R26 | 3.250 | 82.55 | 0.312 | 7.92 | 0.469 | 11.91 | 4.25 | 108 | 0.19 | 5 | 4.25 | 108 |
| | 2 1/2 | 65 | R28 | 4.000 | 101.60 | 0.312 | 7.92 | 0.469 | 11.91 | 5.00 | 127 | 0.19 | 5 | 4.75 | 121 |
| | 3 | 80 | R32 | 4.875 | 123.83 | 0.312 | 7.92 | 0.469 | 11.91 | 5.75 | 146 | 0.19 | 5 | 5.00 | 127 |
| | 4 | 100 | R38 | 5.875 | 149.23 | 0.312 | 7.92 | 0.469 | 11.91 | 6.88 | 175 | 0.19 | 5 | 5.75 | 146 |
| | 5 | 125 | R42 | 7.125 | 180.98 | 0.312 | 7.92 | 0.469 | 11.91 | 8.25 | 210 | 0.19 | 5 | 6.50 | 165 |
| | 6 | 150 | R47 | 8.312 | 211.12 | 0.312 | 7.92 | 0.469 | 11.91 | 9.25 | 241 | 0.19 | 5 | 6.75 | 171 |
| | 8 | 200 | R51 | 10.625 | 269.88 | 0.312 | 7.92 | 0.469 | 11.91 | 11.88 | 302 | 0.19 | 5 | 7.75 | 197 |
| | 10 | 250 | R55 | 12.750 | 323.85 | 0.312 | 7.92 | 0.469 | 11.91 | 14.00 | 356 | 0.19 | 5 | 8.50 | 216 |
| | 12 | 300 | R60 | 15.000 | 381.00 | 0.312 | 7.92 | 0.469 | 11.91 | 16.25 | 413 | 0.19 | 5 | 8.75 | 222 |
| | 14 | 350 | R16 | 16.500 | 419.10 | 0.312 | 7.92 | 0.469 | 11.91 | 18.00 | 457 | 0.19 | 5 | 9.25 | 235 |
| | 16 | 400 | R18 | 18.500 | 469.90 | 0.312 | 7.92 | 0.469 | 11.91 | 20.00 | 508 | 0.19 | 5 | 10.00 | 254 |
| | 18 | 450 | R20 | 21.000 | 533.40 | 0.312 | 7.92 | 0.469 | 11.91 | 22.62 | 575 | 0.19 | 5 | 10.75 | 273 |
| | 20 | 500 | R23 | 23.000 | 584.20 | 0.375 | 9.35 | 0.531 | 13.49 | 25.00 | 635 | 0.19 | 6 | 11.50 | 292 |
| 24 | 600 | R26 | 27.250 | 692.15 | 0.438 | 15.88 | 0.656 | 26.97 | 29.50 | 749 | 0.22 | 6 | 13.25 | 337 | |
| 900 | 1 | 25 | R31 | 2.000 | 50.80 | 0.250 | 6.35 | 0.344 | 8.74 | 2.81 | 71 | 0.16 | 4 | 5.00 | 127 |
| | 1 1/2 | 32 | R37 | 2.375 | 60.33 | 0.250 | 6.35 | 0.344 | 8.74 | 3.19 | 81 | 0.16 | 4 | 5.00 | 127 |
| | 1 1/2 | 40 | R41 | 2.688 | 68.28 | 0.250 | 6.35 | 0.344 | 8.74 | 3.62 | 92 | 0.16 | 4 | 5.50 | 140 |
| | 2 | 50 | R45 | 3.750 | 95.25 | 0.312 | 7.92 | 0.469 | 11.91 | 4.88 | 124 | 0.12 | 3 | 5.75 | 146 |
| | 1 1/2 | 65 | R49 | 4.250 | 107.95 | 0.312 | 7.92 | 0.469 | 11.91 | 5.38 | 137 | 0.12 | 3 | 6.25 | 159 |
| | 3 | 80 | R53 | 4.875 | 123.83 | 0.312 | 7.92 | 0.469 | 11.91 | 6.12 | 155 | 0.16 | 4 | 5.75 | 146 |
| | 4 | 100 | R57 | 5.875 | 149.23 | 0.312 | 7.92 | 0.469 | 11.91 | 7.12 | 181 | 0.16 | 4 | 6.75 | 171 |
| | 5 | 125 | R61 | 7.125 | 180.98 | 0.312 | 7.92 | 0.469 | 11.91 | 8.50 | 216 | 0.16 | 4 | 7.50 | 191 |
| | 6 | 150 | R65 | 8.312 | 211.12 | 0.312 | 7.92 | 0.469 | 11.91 | 9.50 | 241 | 0.16 | 4 | 7.75 | 197 |
| | 8 | 200 | R69 | 10.625 | 269.88 | 0.312 | 7.92 | 0.469 | 11.91 | 12.12 | 308 | 0.16 | 4 | 8.75 | 222 |
| | 10 | 250 | R73 | 12.75 | 323.85 | 0.312 | 7.92 | 0.469 | 11.91 | 14.25 | 362 | 0.16 | 4 | 9.25 | 235 |
| | 12 | 300 | R77 | 15.000 | 381.00 | 0.312 | 7.92 | 0.469 | 11.91 | 16.50 | 419 | 0.16 | 4 | 10.00 | 254 |
| | 14 | 350 | R16 | 16.500 | 419.10 | 0.438 | 11.13 | 0.656 | 16.66 | 18.38 | 467 | 0.16 | 4 | 11.00 | 279 |
| | 16 | 400 | R18 | 18.500 | 469.90 | 0.438 | 11.13 | 0.656 | 16.66 | 20.62 | 524 | 0.16 | 4 | 11.50 | 292 |
| | 18 | 450 | R20 | 21.000 | 533.40 | 0.500 | 12.70 | 0.781 | 19.84 | 23.38 | 594 | 0.19 | 5 | 13.25 | 337 |
| | 20 | 500 | R24 | 23.000 | 584.20 | 0.500 | 12.70 | 0.781 | 19.84 | 25.50 | 648 | 0.19 | 5 | 14.25 | 362 |
| 24 | 600 | R27 | 27.250 | 692.15 | 0.625 | 15.88 | 1.062 | 26.97 | 30.38 | 772 | 0.22 | 6 | 18.00 | 457 | |
| 1500 | 1 | 25 | R31 | 2.000 | 50.80 | 0.250 | 6.35 | 0.344 | 8.74 | 2.81 | 71 | 0.16 | 4 | 5.00 | 127 |
| | 1 1/2 | 32 | R37 | 2.375 | 60.33 | 0.250 | 6.35 | 0.344 | 8.74 | 3.19 | 81 | 0.16 | 4 | 5.00 | 127 |
| | 1 1/2 | 40 | R41 | 2.688 | 68.28 | 0.250 | 6.35 | 0.344 | 8.74 | 3.62 | 92 | 0.16 | 4 | 5.00 | 140 |
| | 2 | 50 | R45 | 3.750 | 95.25 | 0.312 | 7.92 | 0.469 | 11.91 | 4.88 | 124 | 0.12 | 3 | 5.75 | 146 |
| | 2 1/2 | 65 | R49 | 4.250 | 107.95 | 0.312 | 7.92 | 0.469 | 11.91 | 5.38 | 137 | 0.12 | 3 | 6.25 | 159 |
| | 3 | 80 | R53 | 4.875 | 123.83 | 0.312 | 7.92 | 0.469 | 11.91 | 6.62 | 168 | 0.12 | 3 | 7.00 | 178 |
| | 4 | 100 | R57 | 6.375 | 161.93 | 0.312 | 7.92 | 0.469 | 11.91 | 7.62 | 194 | 0.12 | 3 | 7.75 | 197 |
| | 5 | 125 | R62 | 7.625 | 193.68 | 0.312 | 7.92 | 0.469 | 11.91 | 9.00 | 229 | 0.12 | 3 | 9.75 | 248 |
| | 6 | 150 | R66 | 8.312 | 211.12 | 0.375 | 9.53 | 0.531 | 13.94 | 9.75 | 248 | 0.12 | 3 | 10.50 | 267 |
| | 8 | 200 | R70 | 10.625 | 269.88 | 0.438 | 11.13 | 0.656 | 16.66 | 12.50 | 318 | 0.16 | 4 | 12.75 | 324 |
| | 10 | 250 | R74 | 12.750 | 323.85 | 0.438 | 11.13 | 0.656 | 16.66 | 14.62 | 371 | 0.16 | 4 | 13.50 | 343 |
| | 12 | 300 | R78 | 15.000 | 381.00 | 0.562 | 14.27 | 0.906 | 23.01 | 17.25 | 438 | 0.19 | 5 | 15.25 | 387 |
| | 14 | 350 | R16 | 16.500 | 419.10 | 0.635 | 15.88 | 1.062 | 26.97 | 19.25 | 489 | 0.22 | 6 | 16.75 | 425 |
| | 16 | 400 | R18 | 18.500 | 469.90 | 0.688 | 17.48 | 1.188 | 30.18 | 21.50 | 546 | 0.31 | 8 | 18.50 | 470 |
| | 18 | 450 | R20 | 21.000 | 533.40 | 0.688 | 17.48 | 1.188 | 30.18 | 24.12 | 613 | 0.31 | 8 | 10.75 | 527 |
| | 20 | 500 | R24 | 23.000 | 584.20 | 0.688 | 17.48 | 1.312 | 33.32 | 26.50 | 673 | 0.38 | 10 | 22.25 | 565 |
| 24 | 600 | R27 | 27.250 | 692.15 | 0.812 | 20.62 | 1.438 | 36.53 | 31.25 | 794 | 0.44 | 11 | 25.50 | 648 | |
| 2500 | 1 | 25 | R35 | 2.375 | 60.33 | 0.250 | 6.35 | 0.344 | 8.74 | 3.25 | 83 | 0.16 | 4 | 5.50 | 140 |
| | 1 1/2 | 32 | R39 | 2.844 | 72.24 | 0.312 | 7.92 | 0.469 | 11.94 | 4.00 | 102 | 0.12 | 3 | 6.00 | 152 |
| | 1 1/2 | 40 | R43 | 3.250 | 82.55 | 0.312 | 7.92 | 0.469 | 11.94 | 4.50 | 114 | 0.12 | 3 | 6.75 | 171 |
| | 2 | 50 | R46 | 4.000 | 101.60 | 0.312 | 7.92 | 0.469 | 11.94 | 5.25 | 133 | 0.12 | 3 | 7.00 | 178 |
| | 2 1/2 | 65 | R50 | 4.375 | 111.13 | 0.375 | 9.53 | 0.531 | 13.49 | 5.88 | 149 | 0.12 | 3 | 8.00 | 203 |
| | 3 | 80 | R54 | 5.000 | 127.00 | 0.375 | 9.53 | 0.531 | 13.49 | 6.62 | 168 | 0.12 | 3 | 9.00 | 229 |
| | 4 | 100 | R58 | 6.188 | 157.18 | 0.438 | 11.13 | 0.656 | 16.66 | 8.00 | 203 | 0.16 | 4 | 10.25 | 260 |
| | 5 | 125 | R63 | 7.500 | 190.50 | 0.500 | 12.70 | 0.781 | 19.84 | 9.50 | 241 | 0.16 | 4 | 12.25 | 311 |
| | 6 | 150 | R67 | 9.000 | 228.60 | 0.500 | 12.70 | 0.781 | 19.84 | 11.00 | 279 | 0.16 | 4 | 14.00 | 356 |
| | 8 | 200 | R71 | 11.000 | 279.40 | 0.562 | 14.27 | 0.906 | 23.01 | 13.38 | 340 | 0.19 | 5 | 15.50 | 394 |
| | 10 | 250 | R75 | 13.500 | 342.90 | 0.688 | 17.48 | 1.188 | 30.18 | 16.75 | 425 | 0.25 | 6 | 20.00 | 508 |
| | 12 | 300 | R79 | 16.000 | 406.40 | 0.688 | 17.48 | 1.312 | 33.32 | 19.50 | 495 | 0.31 | 8 | 22.00 | 559 |



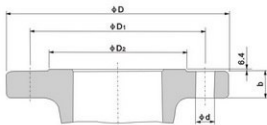
STEEL PIPE FLANGES

150Lb/300Lb/600Lb/900Lb

STEEL PIPE FLANGES ASME B 16.47 SERIES A & MSS SP 44 THEREFORE



Class150 & Class300 RF Flanges



Class600 & Class2500 RF Flanges

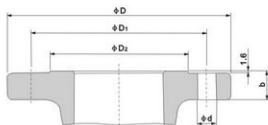
| Class | Nominal Size | | D | | D1 | | D2 | | b | | d | | Bolt | |
|-------|--------------|-------|-------|-------|--------|--------|-------|------|-------|-------|------|----|--------|-------|
| | NPS | DN | in | mm | in | mm | in | mm | in | mm | in | mm | Number | Diam |
| 150 | 26 | 650 | 34.25 | 870 | 31.75 | 806.5 | 29.50 | 749 | 2.69 | 68.5 | 1.38 | 35 | 24 | 1 1/4 |
| | 28 | 700 | 36.50 | 927 | 34.00 | 863.6 | 31.50 | 800 | 2.81 | 71.5 | 1.38 | 35 | 28 | 1 1/2 |
| | 30 | 750 | 38.75 | 984 | 36.00 | 914.4 | 33.75 | 857 | 2.94 | 75 | 1.38 | 35 | 28 | 1 1/2 |
| | 32 | 800 | 41.75 | 1060 | 38.50 | 977.9 | 36.00 | 914 | 3.19 | 81.5 | 1.62 | 41 | 28 | 1 1/2 |
| | 34 | 850 | 43.75 | 1111 | 40.50 | 1028.7 | 38.00 | 965 | 3.25 | 83 | 1.62 | 41 | 32 | 1 1/2 |
| | 36 | 900 | 46.00 | 1168 | 42.75 | 1085.9 | 40.25 | 1022 | 3.56 | 90.5 | 1.62 | 41 | 32 | 1 1/2 |
| | 38 | 950 | 48.75 | 1238 | 45.25 | 1149.4 | 42.25 | 1073 | 3.44 | 87.5 | 1.62 | 41 | 32 | 1 1/2 |
| | 40 | 1000 | 50.75 | 1289 | 47.25 | 1200.2 | 44.25 | 1124 | 3.56 | 90.5 | 1.62 | 41 | 36 | 1 1/2 |
| | 42 | 1050 | 53.00 | 1346 | 49.50 | 1257.3 | 47.00 | 1194 | 3.81 | 97 | 1.62 | 41 | 36 | 1 1/2 |
| | 48 | 1200 | 59.50 | 1511 | 56.00 | 1422.4 | 53.50 | 1359 | 4.25 | 108 | 1.62 | 41 | 44 | 1 1/2 |
| | 54 | 1350 | 66.25 | 1683 | 62.75 | 1593.9 | 59.50 | 1511 | 4.75 | 121 | 1.88 | 48 | 44 | 1 1/2 |
| | 56 | 1400 | 68.75 | 1746 | 65.00 | 1651.0 | 62.00 | 1575 | 4.88 | 124 | 1.88 | 48 | 48 | 1 1/2 |
| | 60 | 1500 | 73.00 | 1854 | 69.25 | 1759.0 | 66.00 | 1676 | 5.19 | 132 | 1.88 | 48 | 52 | 1 1/2 |
| | 26 | 650 | 38.25 | 972 | 34.50 | 876.3 | 29.50 | 749 | 3.12 | 79.5 | 1.75 | 44 | 28 | 1 1/2 |
| 300 | 28 | 700 | 40.75 | 1035 | 37.00 | 939.8 | 31.50 | 800 | 3.38 | 86 | 1.75 | 44 | 28 | 1 1/2 |
| | 30 | 750 | 43.00 | 1092 | 39.25 | 997.0 | 33.75 | 857 | 3.62 | 92 | 1.88 | 48 | 28 | 1 1/2 |
| | 32 | 800 | 45.25 | 1149 | 41.50 | 1054.1 | 36.00 | 914 | 3.88 | 99 | 2.00 | 51 | 28 | 1 1/2 |
| | 34 | 850 | 47.50 | 1207 | 43.50 | 1104.9 | 38.00 | 965 | 4.00 | 102 | 2.00 | 51 | 28 | 1 1/2 |
| | 36 | 900 | 50.00 | 1270 | 46.00 | 1168.4 | 40.25 | 1022 | 4.12 | 105 | 2.12 | 54 | 32 | 2 |
| | 38 | 950 | 46.00 | 1168 | 43.00 | 1092.2 | 40.50 | 1029 | 4.25 | 108 | 1.62 | 41 | 32 | 2 1/2 |
| | 40 | 1000 | 48.75 | 1238 | 45.50 | 1155.7 | 42.75 | 1086 | 4.50 | 114.5 | 1.75 | 44 | 32 | 1 1/2 |
| | 42 | 1050 | 50.75 | 1289 | 47.50 | 1206.5 | 44.75 | 1137 | 4.69 | 119.5 | 1.75 | 44 | 32 | 1 1/2 |
| 48 | 1200 | 57.75 | 1467 | 54.00 | 1371.6 | 51.25 | 1302 | 5.25 | 133.5 | 2.00 | 51 | 32 | 1 1/2 | |
| 600 | 26 | 650 | 40.00 | 1016 | 36.00 | 914.4 | 29.50 | 749 | 4.25 | 108 | 2.00 | 51 | 28 | 1 1/2 |
| | 28 | 700 | 42.25 | 1073 | 38.00 | 965.2 | 31.50 | 800 | 4.38 | 111.5 | 2.12 | 54 | 28 | 2 |
| | 30 | 750 | 44.50 | 1130 | 40.25 | 1022.4 | 33.75 | 857 | 4.50 | 114.5 | 2.12 | 54 | 28 | 2 |
| | 32 | 800 | 47.00 | 1194 | 42.50 | 1079.5 | 36.00 | 914 | 4.62 | 117.5 | 2.38 | 60 | 28 | 2 1/2 |
| | 34 | 850 | 49.00 | 1245 | 44.50 | 1130.3 | 38.00 | 965 | 4.75 | 121 | 2.38 | 60 | 28 | 2 1/2 |
| | 36 | 900 | 51.75 | 1314 | 47.00 | 1193.8 | 40.25 | 1022 | 4.88 | 124 | 2.62 | 67 | 28 | 2 1/2 |
| 900 | 26 | 650 | 42.75 | 1086 | 37.50 | 925.5 | 29.50 | 749 | 5.50 | 140 | 2.88 | 73 | 20 | 2 1/2 |
| | 28 | 700 | 46.00 | 1168 | 40.25 | 1022.4 | 31.50 | 800 | 5.62 | 143 | 3.12 | 79 | 20 | 3 |



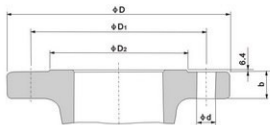
STEEL PIPE FLANGES

150Lb/300Lb/600Lb/900Lb

STEEL PIPE FLANGES ASME B 16.47 SERIES B & API 605RF



Class150 & Class300 RF Flanges



Class600 & Class2500 RF Flanges

| Class | Nominal Size | | D | | D1 | | D2 | | b | | d | | Bolt | |
|-------|--------------|------|-------|------|-------|--------|-------|------|------|-------|------|----|--------|-------|
| | NPS | DN | In | mm | In | mm | In | mm | In | mm | In | mm | Number | Diam |
| 150 | 26 | 650 | 30.94 | 786 | 29.31 | 744.5 | 28.00 | 711 | 1.62 | 41.5 | 0.88 | 22 | 36 | ¾ |
| | 28 | 700 | 32.94 | 837 | 31.31 | 795.3 | 30.00 | 762 | 1.75 | 44.5 | 0.88 | 22 | 40 | ¾ |
| | 30 | 750 | 34.94 | 887 | 33.31 | 846.1 | 32.00 | 813 | 1.75 | 44.5 | 0.88 | 22 | 44 | ¾ |
| | 32 | 800 | 37.06 | 941 | 35.44 | 900.2 | 34.00 | 864 | 1.81 | 46 | 0.88 | 22 | 48 | ¾ |
| | 34 | 850 | 39.56 | 1005 | 37.69 | 957.3 | 36.25 | 921 | 1.94 | 49.5 | 1.00 | 25 | 40 | 7/8 |
| | 36 | 900 | 41.62 | 1057 | 39.75 | 1009.7 | 38.25 | 972 | 2.06 | 52.5 | 1.00 | 25 | 44 | 7/8 |
| | 38 | 950 | 44.25 | 1124 | 42.12 | 1069.8 | 40.25 | 1022 | 2.12 | 54 | 1.12 | 28 | 40 | 1 |
| | 40 | 1000 | 46.25 | 1175 | 44.12 | 1120.6 | 42.50 | 1080 | 2.19 | 56 | 1.12 | 28 | 44 | 1 |
| | 42 | 1050 | 48.25 | 1226 | 46.12 | 1171.4 | 44.50 | 1130 | 2.31 | 59 | 1.12 | 28 | 48 | 1 |
| | 48 | 1200 | 54.81 | 1392 | 52.56 | 1335.0 | 50.75 | 1289 | 2.56 | 65.5 | 1.25 | 32 | 44 | 1 1/8 |
| | 54 | 1350 | 61.00 | 1549 | 58.75 | 1492.3 | 56.75 | 1441 | 2.81 | 71.5 | 1.25 | 32 | 56 | 1 1/8 |
| | 56 | 1400 | 63.00 | 1600 | 60.75 | 1543.1 | 58.75 | 1492 | 2.88 | 73.5 | 1.25 | 32 | 60 | 1 1/8 |
| | 60 | 1500 | 67.94 | 1726 | 65.44 | 1662.2 | 63.00 | 1600 | 3.00 | 76.5 | 1.38 | 35 | 52 | 1 ¼ |
| | 66 | 650 | 34.12 | 867 | 31.62 | 803.1 | 29.00 | 737 | 3.50 | 89 | 1.38 | 35 | 32 | 1 ¼ |
| 300 | 28 | 700 | 36.25 | 921 | 33.75 | 857.3 | 31.00 | 787 | 3.50 | 89 | 1.38 | 35 | 36 | 1 ¼ |
| | 30 | 750 | 39.00 | 991 | 36.25 | 920.8 | 33.25 | 845 | 3.69 | 94 | 1.50 | 38 | 36 | 1 3/8 |
| | 32 | 800 | 41.50 | 1054 | 38.50 | 977.9 | 35.50 | 902 | 4.06 | 103.5 | 1.62 | 41 | 32 | 1 ½ |
| | 34 | 850 | 43.62 | 1108 | 40.62 | 1031.7 | 37.50 | 953 | 4.06 | 103.5 | 1.62 | 41 | 36 | 1 ½ |
| | 36 | 900 | 46.12 | 1171 | 42.88 | 1098.2 | 39.75 | 1010 | 4.06 | 103.5 | 1.75 | 44 | 32 | 1 5/8 |
| | 38 | 950 | 48.12 | 1222 | 44.88 | 1140.0 | 41.75 | 1060 | 4.38 | 111.5 | 1.75 | 44 | 36 | 1 5/8 |
| | 40 | 1000 | 50.12 | 1273 | 46.88 | 1190.8 | 43.88 | 1115 | 4.56 | 116 | 1.75 | 44 | 40 | 1 5/8 |
| | 42 | 1050 | 52.50 | 1334 | 49.00 | 1244.6 | 46.00 | 1168 | 4.69 | 119.5 | 1.88 | 48 | 36 | 1 ¾ |
| | 48 | 1200 | 59.50 | 1511 | 55.75 | 1416.1 | 52.25 | 1327 | 5.06 | 129 | 2.00 | 51 | 40 | 1 7/8 |
| | 26 | 650 | 35.00 | 889 | 31.75 | 806.5 | 28.62 | 727 | 4.38 | 111.5 | 1.75 | 44 | 28 | 1 5/8 |
| 600 | 28 | 700 | 37.50 | 953 | 34.00 | 863.6 | 30.88 | 784 | 4.56 | 116 | 1.88 | 48 | 28 | 1 ¾ |
| | 30 | 750 | 40.25 | 1022 | 36.50 | 927.1 | 33.12 | 841 | 4.94 | 125.5 | 2.00 | 51 | 28 | 1 7/8 |
| | 32 | 800 | 42.75 | 1086 | 38.75 | 984.3 | 35.25 | 895 | 5.12 | 130.5 | 2.12 | 54 | 28 | 2 |
| | 34 | 850 | 45.75 | 1162 | 41.50 | 1054.1 | 37.5 | 953 | 5.56 | 141.5 | 2.38 | 60 | 24 | 2 ¼ |
| | 36 | 900 | 47.75 | 1213 | 43.50 | 1104.9 | 39.75 | 1010 | 5.75 | 146.5 | 2.38 | 60 | 28 | 2 ¼ |
| 900 | 26 | 650 | 40.25 | 1022 | 35.50 | 901.7 | 30.00 | 762 | 5.31 | 135 | 2.62 | 67 | 20 | 2 ½ |
| | 28 | 700 | 43.50 | 1105 | 38.25 | 971.6 | 32.25 | 819 | 5.81 | 148 | 2.88 | 73 | 20 | 2 ½ |