

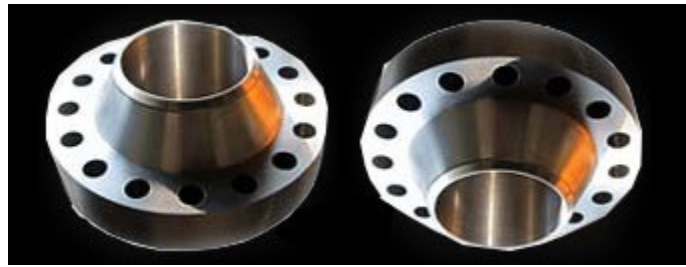
150 LB. FLANGES

| Normal pipe size | Outside dia. of flange | Minimum thickness of flange | Overall Length | | | Bolt Circle | No. and Size of Holes | | O.D. of raised face |
|------------------|------------------------|-----------------------------|----------------|--------------------------|-----------|-------------|-----------------------|------|---------------------|
| | | | Welding neck | Slip-on & socket welding | Lap Joint | | No. | dia. | |
| | O | Q | Y | | | Diam. | | R | |
| 1/2 | 89 | 11.2 | 47.6 | 15.9 | 15.9 | 60.5 | 4 | 15 | 35 |
| 3/4 | 117 | 15.9 | 57.2 | 25.4 | 25.4 | 82.5 | 4 | 15 | 43 |
| 1 | 108 | 14.3 | 55.6 | 17.5 | 17.5 | 79.5 | 4 | 15 | 51 |
| 1.1/4 | 117 | 15.9 | 57.2 | 20.6 | 20.6 | 89.0 | 4 | 15 | 64 |
| 1.1/2 | 127 | 17.5 | 61.9 | 22.2 | 22.2 | 98.5 | 4 | 15 | 73 |
| 2 | 152 | 19.1 | 63.5 | 25.4 | 25.4 | 120.5 | 4 | 19 | 92 |
| 2.1/2 | 178 | 22.3 | 69.8 | 28.6 | 28.6 | 139.5 | 4 | 19 | 105 |
| 3 | 190 | 23.9 | 69.8 | 30.2 | 30.2 | 152.5 | 4 | 19 | 127 |
| 3.1/2 | 216 | 23.9 | 71.4 | 31.8 | 31.8 | 178.0 | 8 | 19 | 140 |
| 4 | 229 | 23.9 | 86.2 | 33.3 | 33.3 | 190.5 | 8 | 19 | 157 |
| 5 | 254 | 23.9 | 88.9 | 36.5 | 36.5 | 216.0 | 8 | 22 | 186 |
| 6 | 279 | 25.4 | 88.9 | 39.7 | 39.7 | 241.5 | 8 | 22 | 216 |
| 8 | 343 | 28.6 | 101.6 | 44.4 | 44.4 | 298.5 | 8 | 22 | 270 |
| 10 | 406 | 30.2 | 101.6 | 49.2 | 49.2 | 362.0 | 12 | 25 | 324 |
| 12 | 483 | 31.8 | 114.3 | 55.6 | 55.6 | 432.0 | 12 | 25 | 381 |
| 14 | 533 | 35.0 | 127.0 | 57.2 | 79.4 | 476.0 | 12 | 29 | 413 |
| 16 | 597 | 36.6 | 127.0 | 63.5 | 87.3 | 539.5 | 16 | 29 | 470 |
| 18 | 635 | 39.7 | 139.7 | 68.3 | 96.8 | 578.0 | 16 | 32 | 533 |
| 20 | 698 | 42.9 | 144.5 | 73.0 | 103.2 | 635.0 | 20 | 32 | 584 |
| 24 | 813 | 47.7 | 152.4 | 82.6 | 111.1 | 749.5 | 20 | 35 | 692 |



300 LB. FLANGES

| Normal pipe size | Outside dia. of flange | Minimum thickness of flange | Overall Length | | | Bolt Circle | No. and Size of Holes | | O.D. of raised face |
|------------------|------------------------|-----------------------------|----------------|--------------------------|-----------|-------------|-----------------------|------|---------------------|
| | | | Welding neck | Slip-on & socket welding | Lap Joint | | No. | dia. | |
| | O | Q | Y | | | Diam. | | | R |
| 1/2 | 95 | 14.3 | 52.4 | 22.2 | 22.2 | 666.5 | 4 | 15 | 35 |
| 3/4 | 117 | 15.9 | 57.2 | 25.4 | 25.4 | 82.4 | 4 | 19 | 43 |
| 1 | 124 | 17.5 | 61.9 | 27.0 | 27.0 | 89.0 | 4 | 19 | 51 |
| 1-1/4 | 133 | 19.1 | 65.1 | 27.0 | 27.0 | 98.5 | 4 | 19 | 64 |
| 1-1/2 | 156 | 20.7 | 68.3 | 30.2 | 30.2 | 114.5 | 4 | 22 | 73 |
| 2 | 165 | 22.3 | 69.8 | 33.3 | 33.3 | 127.0 | 8 | 19 | 92 |
| 2-1/2 | 190 | 25.4 | 76.2 | 38.1 | 38.1 | 149.0 | 8 | 22 | 105 |
| 3 | 210 | 28.6 | 79.4 | 42.9 | 42.9 | 168.0 | 8 | 22 | 127 |
| 4 | 254 | 31.8 | 85.7 | 47.6 | 47.6 | 200.0 | 8 | 22 | 157 |
| 5 | 279 | 35.0 | 98.4 | 50.8 | 50.8 | 235.0 | 8 | 22 | 186 |
| 6 | 313 | 36.6 | 98.4 | 52.4 | 52.4 | 270.0 | 12 | 22 | 216 |
| 6 | 381 | 41.3 | 111.1 | 61.9 | 91.9 | 330.0 | 12 | 25 | 270 |
| 10 | 444 | 47.7 | 117.5 | 66.7 | 95.3 | 387.5 | 16 | 29 | 324 |
| 12 | 521 | 50.8 | 130.2 | 73.0 | 101.6 | 451.0 | 16 | 32 | 381 |
| 14 | 584 | 54.0 | 142.9 | 76.2 | 111.1 | 514.5 | 20 | 32 | 413 |
| 16 | 648 | 57.2 | 146.0 | 82.6 | 120.7 | 571.5 | 20 | 35 | 470 |
| 18 | 711 | 60.4 | 158.8 | 88.9 | 130.2 | 628.5 | 24 | 35 | 533 |
| 20 | 775 | 63.5 | 161.9 | 95.2 | 139.7 | 686.0 | 24 | 35 | 584 |
| 24 | 914 | 69.9 | 168.3 | 106.4 | 152.4 | 843.0 | 24 | 41 | 692 |



600 LB. FLANGES

| Normal pipe size | Outside dia. of flange | Minimum thickness of flange | Overall Length | | | Bolt Circle | No. and Size of Holes | | O.D. of raised face |
|------------------|------------------------|-----------------------------|----------------|--------------------------|-----------|-------------|-----------------------|-----|---------------------|
| | | | Welding neck | Slip-on & socket welding | Lap Joint | | Diam. | No. | |
| | O | Q | Y | | | | | R | |
| 1/2 | 95 | 14.3 | 52.4 | 22.2 | 22.2 | 66.5 | 4 | 15 | 35 |
| 3/4 | 117 | 15.9 | 57.2 | 25.4 | 25.4 | 82.5 | 4 | 19 | 43 |
| 1 | 124 | 17.5 | 61.9 | 27.0 | 27.0 | 89.0 | 4 | 19 | 51 |
| 1-1/4 | 133 | 20.7 | 66.7 | 28.6 | 28.6 | 98.5 | 4 | 19 | 64 |
| 1-1/2 | 156 | 22.3 | 69.8 | 31.8 | 31.8 | 114.5 | 4 | 22 | 73 |
| 2 | 165 | 25.4 | 73.0 | 36.5 | 36.5 | 127.0 | 8 | 19 | 92 |
| 2-1/2 | 190 | 28.6 | 79.4 | 41.3 | 41.3 | 149.0 | 8 | 22 | 105 |
| 3 | 210 | 31.8 | 82.6 | 46.0 | 46.0 | 168.0 | 8 | 22 | 127 |
| 3-1/2 | 229 | 35.0 | 85.7 | 49.2 | 49.2 | 184.0 | 8 | 25 | 140 |
| 4 | 273 | 38.1 | 101.6 | 54.0 | 54.0 | 216.0 | 8 | 25 | 157 |
| 5 | 330 | 44.5 | 114.3 | 60.3 | 60.3 | 266.5 | 8 | 29 | 186 |
| 6 | 356 | 47.7 | 117.5 | 66.7 | 66.7 | 292.0 | 12 | 29 | 216 |
| 8 | 419 | 55.6 | 133.4 | 76.2 | 76.2 | 349.0 | 12 | 32 | 270 |
| 10 | 508 | 63.5 | 152.4 | 85.7 | 115.1 | 432.0 | 16 | 85 | 324 |
| 12 | 559 | 66.7 | 155.6 | 92.1 | 111.1 | 489.0 | 20 | 35 | 381 |
| 14 | 603 | 69.9 | 165.1 | 93.7 | 117.5 | 527.0 | 20 | 38 | 413 |
| 16 | 686 | 76.2 | 177.8 | 106.4 | 127.0 | 603.0 | 20 | 41 | 470 |
| 18 | 743 | 82.6 | 184.2 | 117.6 | 139.7 | 654.0 | 20 | 45 | 533 |
| 20 | 813 | 88.9 | 190.5 | 127.0 | 165.1 | 724.0 | 24 | 45 | 584 |
| 24 | 940 | 101.6 | 203.2 | 139.7 | 184.2 | 838.0 | 24 | 51 | 692 |



900 LB. FLANG

| Normal pipe size | Outside dia. of flange | Minimum thickness of flange | Overall Length | | | Bolt Circle | No. and Size of Holes | | O.D. of raised face |
|------------------|------------------------|-----------------------------|----------------|--------------------------|-----------|-------------|-----------------------|------|---------------------|
| | | | Welding neck | Slip-on & socket welding | Lap Joint | | No. | dia. | |
| | O | Q | Y | | | Diam. | | R | |
| 1/2 | 121 | 22.3 | 60.3 | 31.8 | 31.8 | 82.5 | 4 | 22 | 35 |
| 3/4 | 130 | 25.4 | 69.8 | 34.9 | 34.9 | 89.0 | 4 | 22 | 43 |
| 1 | 149 | 28.6 | 78.0 | 41.3 | 41.3 | 101.5 | 4 | 25 | 51 |
| 1-1/4 | 159 | 28.6 | 78.0 | 41.3 | 41.3 | 111.0 | 4 | 25 | 64 |
| 1-1/2 | 178 | 31.8 | 82.6 | 44.4 | 44.4 | 124.0 | 4 | 29 | 78 |
| 2 | 216 | 38.1 | 101.6 | 57.2 | 57.2 | 165.0 | 8 | 25 | 92 |
| 2-1/2 | 244 | 41.3 | 104.8 | 63.5 | 63.5 | 190.5 | 8 | 29 | 105 |
| 8 | 241 | 38.1 | 101.6 | 54.0 | 54.0 | 190.5 | 8 | 25 | 127 |
| 3-1/2 | | | | | | | | | |
| 4 | 292 | 44.5 | 114.3 | 69.8 | 69.8 | 235.0 | 8 | 32 | 157 |
| 5 | 349 | 50.8 | 127.0 | 79.4 | 79.4 | 279.5 | 8 | 35 | 186 |
| 6 | 381 | 55.6 | 189.7 | 85.7 | 85.7 | 317.5 | 12 | 32 | 216 |
| 8 | 470 | 68.5 | 161.9 | 101.8 | 114.3 | 393.5 | 12 | 38 | 270 |
| 10 | 546 | 69.9 | 184.2 | 108.0 | 127.0 | 470.0 | 16 | 38 | 324 |
| 12 | 610 | 79.4 | 200.0 | 117.5 | 142.9 | 533.5 | 20 | 38 | 381 |
| 14 | 584 | 54.0 | 142.9 | 76.2 | 111.1 | 514.5 | 20 | 32 | 413 |
| 16 | 711 | 60.4 | 158.8 | 88.9 | 130.2 | 628.5 | 24 | 35 | 533 |
| 20 | 775 | 63.5 | 161.9 | 95.2 | 139.7 | 686.0 | 24 | 35 | 584 |
| 24 | 914 | 69.9 | 168.3 | 106.4 | 152.4 | 843.0 | 24 | 41 | 692 |



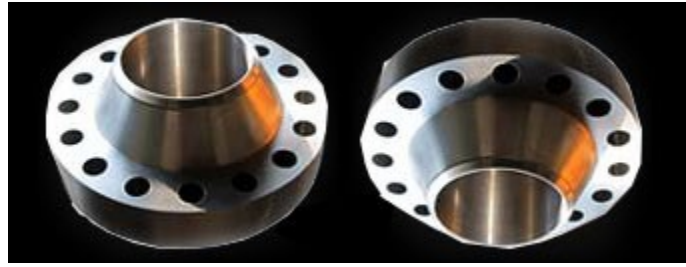
1500 LB. FLANGES

| Normal pipe size | Outside dia. of flange | Minimum thickness of flange | Overall Length | | | Bolt Circle | No. and Size of Holes | | O.D. of raised face |
|------------------|------------------------|-----------------------------|----------------|--------------------------|-----------|-------------|-----------------------|------|---------------------|
| | | | Welding neck | Slip-on & socket welding | Lap Joint | | No. | dia. | |
| | O | Q | Y | | | Diam. | | | R |
| 1/2 | 12.1 | 22.3 | 60.3 | 31.8 | 31.8 | 82.5 | 4 | 22 | 35 |
| 3/4 | 130 | 25.4 | 69.8 | 34.9 | 34.9 | 89.0 | 4 | 22 | 43 |
| 1 | 149 | 28.6 | 73.0 | 41.3 | 41.3 | 101.5 | 4 | 25 | 51 |
| 1-1/4 | 159 | 28.6 | 73.0 | 41.3 | 41.3 | 111.0 | 4 | 25 | 64 |
| 1-1/2 | 178 | 31.8 | 82.6 | 44.4 | 44.4 | 124.0 | 4 | 29 | 73 |
| 2 | 216 | 38.1 | 101.6 | 57.2 | 57.2 | 165.0 | 8 | 25 | 92 |
| 2-1/2 | 244 | 41.3 | 104.8 | 63.5 | 63.5 | 190.5 | 8 | 29 | 105 |
| 3 | 267 | 47.7 | 117.5 | 73.0 | 73.0 | 203.0 | 8 | 32 | 127 |
| 3-1/2 | | | | | | | | | |
| 4 | 311 | 54.0 | 123.8 | 90.5 | 90.5 | 241.5 | 8 | 35 | 157 |
| 5 | 375 | 73.1 | 155.5 | 104.8 | 104.8 | 292.0 | 8 | 41 | 186 |
| 6 | 394 | 82.6 | 171.4 | 119.1 | 119.1 | 317.5 | 12 | 38 | 216 |
| 8 | 483 | 92.1 | 212.7 | 142.9 | 142.9 | 393.5 | 12 | 45 | 270 |
| 10 | 584 | 108.0 | 254.0 | 158.8 | 177.8 | 482.5 | 12 | 51 | 324 |
| 12 | 673 | 123.9 | 282.9 | 181.0 | 219.1 | 571.5 | 16 | 54 | 381 |
| 14 | 749 | 133.4 | 298.4 | ----- | 241.3 | 635.0 | 16 | 60 | 413 |
| 16 | 826 | 146.1 | 311.2 | ----- | 260.4 | 705.0 | 16 | 51 | 470 |
| 18 | 914 | 162.0 | 327.0 | ----- | 276.2 | 474.5 | 16 | 73 | 538 |
| 20 | 984 | 117.8 | 355.4 | ----- | 292.1 | 832.0 | 16 | 80 | 584 |
| 24 | 1168 | 203.2 | 406.4 | ----- | 330.2 | 990.5 | 16 | 92 | 692 |



2500 LB. FLANGES

| Normal pipe size | Outside dia. of flange | Minimum thickness of flange | Overall Length | | | Bolt Circle | No. and Size of Holes | | O.D. of raised face |
|------------------|------------------------|-----------------------------|----------------|--------------------------|-----------|-------------|-----------------------|------|---------------------|
| | | | Welding neck | Slip-on & socket welding | Lap Joint | | No. | dia. | |
| | O | Q | Y | | | Diam. | No. | dia. | R |
| 1/2 | 133.4 | 30.2 | 73.0 | 39.7 | 39.7 | 88.9 | 4 | 22 | 34.9 |
| 3/4 | 139.7 | 31.8 | 79.4 | 42.9 | 42.9 | 95.3 | 4 | 22 | 42.9 |
| 1 | 158.8 | 34.9 | 88.9 | 47.6 | 47.6 | 108.0 | 4 | 25 | 50.8 |
| 1-1/4 | 184.2 | 38.1 | 95.3 | 52.4 | 52.4 | 130.2 | 4 | 29 | 63.5 |
| 1-1/2 | 203.2 | 44.5 | 111.1 | 60.3 | 60.3 | 146.0 | 4 | 32 | 73.0 |
| 2 | 235.0 | 50.8 | 127.0 | 69.9 | 69.9 | 171.5 | 8 | 29 | 92.1 |
| 2-1/2 | 266.7 | 57.2 | 142.9 | 79.4 | 79.4 | 196.9 | 8 | 32 | 104.8 |
| 3 | 304.8 | 66.7 | 168.3 | 92.1 | 92.1 | 228.6 | 8 | 35 | 127.0 |
| 3-1/2 | | | | | | | | | |
| 4 | 355.6 | 76.2 | 190.5 | 108.0 | 108.0 | 273.0 | 8 | 41 | 157.2 |
| 5 | 419.1 | 92.1 | 228.6 | 130.2 | 130.2 | 323.9 | 8 | 48 | 185.7 |
| 6 | 482.6 | 108.0 | 273.1 | 152.4 | 152.4 | 268.3 | 8 | 54 | 215.9 |
| 8 | 552.5 | 127.0 | 317.5 | 177.8 | 177.8 | 438.2 | 12 | 54 | 269.9 |
| 10 | 673.1 | 165.1 | 419.1 | 228.6 | 228.6 | 539.8 | 12 | 67 | 323.9 |
| 12 | 762.0 | 184.2 | 463.6 | 254.0 | 254.0 | 619.1 | 12 | 73 | 381.03 |
| 14 | --- | --- | --- | --- | --- | --- | -- | --- | --- |
| 16 | --- | --- | --- | --- | --- | --- | -- | --- | --- |
| 18 | --- | --- | --- | --- | --- | --- | -- | --- | -- |
| 20 | --- | --- | --- | --- | --- | --- | -- | --- | -- |
| 24 | --- | --- | --- | --- | --- | --- | -- | --- | -- |



DIN 2527

| | NW | D | Flange | | Raised Face | | Number | Bolts | Bolts | Dia. of Bolt Hole | Weight of One Flange (7.85 kg/dm ³) | |
|--|-------|-----|--------|-----|----------------|----|--------|--------|--------|-------------------|---|-----------|
| | | | b | k | d ₄ | f | | | | | d ₂ | Type-B kg |
| ND-6 | 10 | 75 | 12 | 50 | 35 | 2 | 4 | M10 | - | 11.5 | 0.38 | 0.33 |
| | 15 | 80 | 12 | 55 | 40 | 2 | 4 | M10 | - | 11.5 | 0.44 | 0.38 |
| | 20 | 90 | 14 | 65 | 50 | 2 | 4 | M10 | - | 11.5 | 0.65 | 0.59 |
| | 25 | 100 | 14 | 75 | 60 | 2 | 4 | M10 | - | 11.5 | 0.82 | 0.74 |
| | 32 | 120 | 14 | 90 | 70 | 2 | 4 | M12 | (1/2") | 14.0 | 1.17 | 1.07 |
| | 40 | 130 | 14 | 100 | 80 | 3 | 4 | M12 | (1/2") | 14.0 | 1.39 | 1.21 |
| | 50 | 140 | 14 | 110 | 90 | 3 | 4 | M12 | (1/2") | 14 | 1.62 | 1.43 |
| | 65 | 160 | 14 | 130 | 110 | 3 | 4 | M12 | (1/2") | 14 | 2.44 | 2.21 |
| | 80 | 190 | 16 | 150 | 128 | 3 | 4 | M16 | (3/8") | 18 | 3.43 | 3.09 |
| | 100 | 210 | 16 | 170 | 148 | 3 | 4 | M16 | (5/8") | 18 | 4.76 | 4.37 |
| | 125 | 240 | 18 | 200 | 178 | 3 | 8 | M16 | (5/8") | 18 | 6.11 | 5.68 |
| | 150 | 265 | 18 | 225 | 202 | 3 | 8 | M16 | (5/8") | 18 | 7.51 | 7.02 |
| | (175) | 295 | 20 | 255 | 232 | 3 | 8 | M16 | (5/8") | 18 | 10.4 | 9.85 |
| | 200 | 320 | 20 | 280 | 258 | 3 | 8 | M16 | (5/8") | 18 | 12.3 | 11.7 |
| | 250 | 375 | 22 | 335 | 312 | 3 | 12 | M16 | (5/8") | 18 | 18.3 | 17.6 |
| | 300 | 440 | 22 | 395 | 365 | 4 | 12 | M20 | (3/4") | 23 | 25.3 | 24.0 |
| 350 | 490 | 22 | 445 | 415 | 4 | 12 | M20 | (3/4") | 23 | 31.6 | 30.1 | |
| 400 | 540 | 22 | 495 | 465 | 4 | 16 | M20 | (3/4") | 23 | 38.4 | 36.4 | |
| 500 | 645 | 24 | 600 | 570 | 4 | 20 | M20 | (3/4") | 23 | 60.4 | 58.1 | |
| ND-10 (Note from 10 mm to 175 mm see ND-16) | 200 | 340 | 24 | 295 | 268 | 3 | 8 | M20 | (3/4") | 23 | 16.5 | 15.6 |
| | 250 | 395 | 26 | 350 | 320 | 3 | 12 | M20 | (3/4") | 23 | 24.0 | 23.1 |
| | 300 | 445 | 26 | 400 | 370 | 4 | 12 | M20 | (3/4") | 23 | 30.9 | 29.4 |
| | 350 | 505 | 26 | 460 | 430 | 4 | 16 | M20 | (3/4") | 23 | 40.6 | 38.0 |
| | 400 | 565 | 26 | 515 | 482 | 4 | 16 | M24 | (3/4") | 27 | 49.4 | 47.5 |
| 500 | 670 | 28 | 620 | 585 | 4 | 20 | M24 | (3/4") | 27 | 75.0 | 72.7 | |
| ND-16 Note : For DIN 2527 ND-10-4 Holes | 10 | 90 | 14 | 60 | 40 | 2 | 4 | M12 | (1/2") | 14 | 0.63 | 0.56 |
| | 15 | 95 | 14 | 65 | 45 | 2 | 4 | M12 | (1/2") | 14 | 0.72 | 0.64 |
| | 20 | 105 | 16 | 75 | 58 | 2 | 4 | M12 | (1/2") | 14 | 1.01 | 0.93 |
| | 25 | 115 | 14 | 60 | 40 | 2 | 4 | M12 | (1/2") | 14 | 1.23 | 1.13 |

| | | | | | | | | | | | | |
|---|-------|-----|-----|-----|-----|----|-----|----------|----------|------|------|------|
| | 32 | 140 | 14 | 65 | 45 | 2 | 4 | M16 | (5/8") | 18 | 1.80 | 1.66 |
| | 40 | 150 | 16 | 75 | 58 | 2 | 4 | M16 | (5/8") | 18 | 2.09 | 1.85 |
| | 50 | 165 | 18 | 125 | 102 | 3 | 4 | M16 | (5/8") | 18 | 2.88 | 2.59 |
| | 65 | 185 | 18 | 145 | 122 | 3 | 4 | M16 | (5/8") | 18 | 3.66 | 3.33 |
| | 80 | 200 | 20 | 160 | 138 | 3 | 4/8 | M16 | (5/8") | 18 | 4.77 | 4.34 |
| | 100 | 220 | 20 | 180 | 158 | 3 | 8 | M16 | (5/8") | 18 | 2.88 | 2.59 |
| | 125 | 250 | 22 | 210 | 188 | 3 | 8 | M16 | (5/8") | 18 | 3.66 | 3.33 |
| | 150 | 285 | 22 | 240 | 212 | 3 | 8 | M16 | (5/8") | 18 | 4.77 | 4.34 |
| | 100 | 220 | 20 | 180 | 158 | 3 | 8 | M16 | (5/8") | 18 | 5.65 | 5.26 |
| | 125 | 250 | 22 | 210 | 188 | 3 | 8 | M16 | (5/8") | 18 | 8.42 | 7.67 |
| | 150 | 285 | 22 | 240 | 212 | 3 | 8 | M20 | (3/4") | 23 | 10.4 | 9.85 |
| | | | | | | | | | (3/4") | | | |
| | (175) | 315 | 24 | 270 | 242 | 3 | 8 | M20 | (3/4") | 23 | 14.0 | 13.5 |
| | 200 | 340 | 24 | 295 | 268 | 3 | 12 | M20 | | 23 | 16.1 | 15.6 |
| | 250 | 405 | 26 | 355 | 320 | 3 | 12 | M20 | (7/8") | 27 | 24.9 | 23.9 |
| 300 | 460 | 28 | 410 | 378 | 4 | 12 | M24 | (7/8") | 27 | 35.1 | 33.6 | |
| 350 | 520 | 30 | 470 | 438 | 4 | 16 | M24 | (7/8") | 27 | 47.8 | 46.2 | |
| 400 | 580 | 32 | 525 | 490 | 4 | 16 | M27 | (1") | 30 | 63.5 | 61.5 | |
| 500 | 715 | 34 | 650 | 610 | 4 | 20 | M30 | (1-1/8") | 33 | 102 | 99.5 | |
| ND-25 Note: From 10mm to 150 mm see ND-40 | (175) | 330 | 28 | 280 | 248 | 3 | 12 | M24 | (7/8") | 27 | 17.3 | 16.5 |
| | 200 | 360 | 30 | 310 | 278 | 3 | 12 | M24 | (7/8") | 27 | 22.3 | 21.5 |
| | 250 | 425 | 32 | 370 | 335 | 3 | 12 | M24 | (1") | 30 | 33.5 | 32.5 |
| | 300 | 485 | 34 | 430 | 395 | 4 | 16 | M27 | (1") | 30 | 46.3 | 44.7 |
| | 350 | 555 | 38 | 490 | 450 | 4 | 16 | M30 | (1-1/8") | 33 | 68.0 | 65.9 |
| | 400 | 620 | 40 | 550 | 505 | 4 | 16 | M33 | (1-1/4") | 36 | 89.7 | 87.0 |
| | 500 | 730 | 44 | 660 | 615 | 4 | 20 | M33 | (1-1/4") | 36 | 138 | 134 |
| | 10 | 90 | 16 | 60 | 40 | 2 | 4 | M12 | | | | |
| | 15 | 95 | 16 | 65 | 45 | 2 | 4 | M12 | (1/2") | 14 | 0.72 | 0.62 |
| | 20 | 105 | 16 | 75 | 58 | 2 | 4 | M12 | (1/2") | 14 | 0.81 | 0.74 |
| 25 | 115 | 18 | 85 | 68 | 2 | 4 | M12 | (1/2") | 14 | 1.24 | 1.05 | |
| 32 | 140 | 18 | 100 | 78 | 2 | 4 | M12 | (1/2") | 14 | 1.38 | 1.31 | |
| 40 | 150 | 18 | 110 | 88 | 2 | 4 | M12 | (5/8") | 18 | 2.03 | 1.82 | |
| | | | | | | | | (5/8") | | | | |
| 50 | 165 | 20 | 125 | 102 | 3 | 4 | M16 | (5/8") | 18 | 2.35 | 2.11 | |
| 65 | 185 | 22 | 145 | 122 | 3 | 8 | M16 | | 18 | 3.20 | 2.91 | |
| 80 | 200 | 24 | 160 | 138 | 3 | 8 | M16 | (5/8") | 18 | 4.29 | 4.13 | |
| 100 | 235 | 24 | 190 | 162 | 3 | 8 | M16 | | 18 | 5.88 | 5.21 | |
| 125 | 270 | 26 | 220 | 188 | 3 | 8 | M20 | (3/4") | 23 | 7.54 | 7.08 | |
| | | | | | | | | (7/8") | 27 | 10.8 | 10.4 | |

| | | | | | | | | | | | | |
|--|-----|-----|----|-----|-----|---|----|-----|----------|----|------|------|
| | 150 | 300 | 28 | 250 | 218 | 3 | 8 | M24 | (7/8") | 27 | 14.5 | 13.9 |
| | 175 | 350 | 32 | 295 | 260 | 3 | 12 | M27 | (1") | 30 | 22.1 | 21.3 |
| | 200 | 375 | 34 | 320 | 285 | 3 | 12 | M27 | (1-1/8") | 30 | 27.2 | 26.2 |
| | 250 | 450 | 38 | 385 | 345 | 3 | 12 | M27 | (1-1/8") | 30 | 43.8 | 43.1 |
| | 300 | 515 | 42 | 450 | 410 | 4 | 16 | M30 | (1-1/8") | 33 | 63.3 | 62.2 |
| | 350 | 580 | 46 | 510 | 465 | 4 | 16 | M33 | (1-1/8") | 36 | 89.5 | 87.2 |
| | 400 | 660 | 50 | 585 | 535 | 4 | 16 | M36 | (1-1/8") | 39 | 127 | 124 |
| | 500 | 755 | 52 | 670 | 615 | 4 | 20 | M39 | (1-1/2") | 42 | 172 | 168 |



DIN 2576

FLANGES, SLIP-ON TYPE FOR BRITISH OR WELDING NOMINAL PRESSURE 10

| Pipe | | Flange | | | | Bolts | | | Weight of one flange 7.85 kg/dm ³ kg |
|------|----------------|--------------|-----|----|-----|--------|---------------|----|--|
| NW | d1 | ds | D | b1 | k | Number | Thread | d2 | |
| 10 | 14 (17.2) | 14.5 17.7 | 90 | 14 | 60 | 4 | M12 (1/2") | 14 | 0.613 0.605 |
| 15 | 20 (21.3) | 20.5 21.8 | 95 | 14 | 65 | 4 | M12 (1/2") | 14 | 0.675 0.669 |
| 20 | 25 (26.9) | 25.5 27.4 | 105 | 16 | 75 | 4 | M12 (1/2") | 14 | 0.947 0.936 |
| 25 | 30 (33.7) | 30.5 34.2 | 115 | 16 | 85 | 4 | M12 (1/2") | 14 | 1.14 1.11 |
| 32 | 38 (42.4) | 38.5 42.9 | 140 | 16 | 100 | 4 | M16 (5/8") | 18 | 1.66 1.62 |
| 40 | 44.5 (48.3) | 45 48.8 | 150 | 16 | 110 | 4 | M16 (5/8") | 18 | 1.89 1.86 |

| | | | | | | | | | | |
|-----|---------------|----------------|-----|----|-----|----|-----|--------|----|--------------|
| 50 | 57 60.3) | 57.5 60.8 | 165 | 18 | 125 | 4 | M16 | (5/8") | 18 | 2.51 2.47 |
| 65 | 76.1) | 76.6 | 185 | 18 | 145 | 4 | M16 | (5/8") | 18 | 3.00 |
| 80 | 88.9) | 89.4 | 200 | 20 | 160 | 4 | M16 | (5/8") | 18 | 3.79 |
| 100 | 108 114.3) | 108.5 114.8 | 220 | 20 | 180 | 8 | M16 | (5/8") | 18 | 4.20 4.03 |
| 125 | 133 139.7) | 133.5 140.2 | 250 | 22 | 210 | 8 | M16 | (5/8") | 18 | 5.71 5.46 |
| 150 | 159 168.3) | 159.5 168.8 | 285 | 22 | 210 | 8 | M16 | (3/4") | 23 | 6.72 6.57 |
| 175 | 191 193.7) | 192 194.7 | 315 | 24 | 270 | 8 | M20 | (3/4") | 23 | 8.60 8.45 |
| 200 | 216 219.1) | 216 220.1 | 340 | 24 | 295 | 8 | M20 | (3/4") | 23 | 9.50 9.31 |
| 250 | 267 273) | 268 274 | 395 | 26 | 350 | 12 | M20 | (3/4") | 23 | 12.5 11.9 |
| 400 | 406.4 419 | 407.4 420 | 565 | 32 | 515 | 16 | M24 | (7/8") | 27 | 27.9 25.9 |
| 500 | 508) 521 | 509 522 | 670 | 38 | 620 | 20 | M24 | (7/8") | 27 | 37.9 41.1 |



DIN 2632

WELDING NECK FLANGES FOR NOMINAL PRESSURE 10

| Pipe | | Flange | | | | Neck | | | | Raised face | | Bolts | | Weight of one flange 7.85 kg/dm ³ kg | | |
|------|-------|--------|----|-----|----|------|-----|----|----|-------------|---|-------|--------|---|----|------|
| NW | d1 | D | b | k | h1 | d3 | s | f | h2 | d4 | f | No. | Thread | | d2 | |
| 200 | 216 | 340 | 24 | 295 | 62 | 232 | 5.9 | 10 | 16 | 268 | 3 | 8 | M20 | (3/4") | 23 | 11.3 |
| | 219.1 | | | | | 235 | | | | | | | | | | 11.3 |
| 250 | 267 | 395 | 26 | 350 | 68 | 285 | 6.3 | 12 | 16 | 320 | 3 | 12 | | | | 14.7 |
| | 273 | | | | | 295 | | | | | | | | | | 14.7 |
| 300 | 318 | 445 | 26 | 400 | 68 | 335 | 7.1 | 12 | 16 | 370 | 4 | 12 | | | | 17.6 |

| | | | | | | | | | | | | | | | | | | |
|-----|-------|-----|----|-----|----|-----|-----|----|----|-----|---|----|-----|--------|----|--|--|--|
| | 323.9 | | | | | 344 | | | | | | | | | | | | |
| 350 | 355.6 | 505 | 26 | 460 | 68 | 385 | 7.1 | 12 | 16 | 430 | 4 | 16 | | | | | | |
| | 368 | | | | | | | | | | | | | | | | | |
| 400 | 406.4 | 565 | 26 | 515 | 72 | 440 | 7.1 | 12 | 16 | 482 | 4 | | | | | | | |
| | 419 | | | | | | | | | | | | | | | | | |
| 500 | 508 | 670 | 28 | 620 | 75 | 542 | 7.1 | 12 | 16 | 585 | 4 | 20 | M24 | (3/8") | 27 | | | |
| | 521 | | | | | | | | | | | | | | | | | |
| 600 | 609.6 | 780 | 28 | 725 | 80 | 642 | 7.1 | 12 | 18 | 685 | 5 | | M27 | (1") | 30 | | | |
| | 622 | | | | | | | | | | | | | | | | | |



DIN 2633
WELDING NECK FLANGES NOMINAL PRESSURE 16

| Pipe | | Flange | | | | Neck | | | | Raised face | Bolts | | Weight of one flange | | | |
|------|------|--------|----|-----|----|------|-----|---|----|-------------|-------|-----|----------------------|--------|------------------------------|-------|
| NW | d1 | D | b | k | h1 | d3 | s | r | h2 | d4 | f | No. | Thread | d2 | 7.85 kg/dm ³) kg | |
| 10 | 14 | 90 | 14 | 60 | 35 | 25 | 1.8 | 4 | 6 | 40 | 2 | 4 | M12 | (1/2") | 14 | 0.580 |
| | 17.2 | | | | | 28 | | | | | | | | | | 0.648 |
| 15 | 20 | 95 | 14 | 65 | 35 | 30 | 2 | 4 | 6 | 45 | 2 | 4 | M12 | (1/2") | 14 | 0.648 |
| | 21.3 | | | | | 32 | | | | | | | | | | 0.952 |
| 20 | 25 | 105 | 16 | 85 | 38 | 42 | 2.3 | 4 | 6 | 58 | 2 | 4 | M12 | (1/2") | 14 | 0.952 |
| | 26.9 | | | | | 45 | | | | | | | | | | 1.14 |
| 25 | 30 | 115 | 16 | 85 | 38 | 42 | 2.6 | 4 | 6 | 68 | 2 | 4 | M12 | (1/2") | 14 | 1.14 |
| | 33.7 | | | | | 45 | | | | | | | | | | 1.69 |
| 32 | 38 | 140 | 16 | 100 | 40 | 52 | 2.6 | 4 | 6 | 78 | 2 | 4 | M16 | (5/8") | 18 | 1.69 |
| | 42.4 | | | | | 56 | | | | | | | | | | 1.86 |
| 40 | 44.5 | 150 | 16 | 100 | 40 | 60 | 2.6 | 6 | 6 | 88 | 3 | 4 | M16 | (5/8") | 18 | 1.86 |
| | 48.3 | | | | | 64 | | | | | | | | | | 2.53 |
| 50 | 57 | 165 | 18 | 125 | 45 | 72 | 2.9 | 6 | 8 | 102 | 3 | 4 | M16 | (5/8") | 18 | 2.53 |



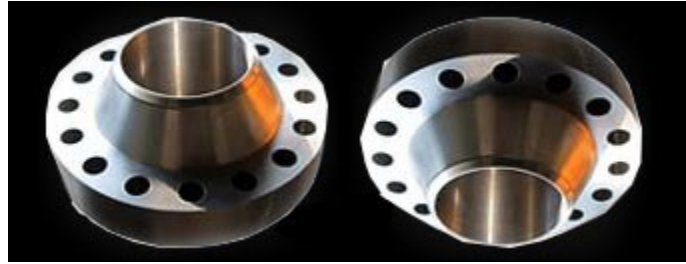
**DIN 2634
WELDING NECK FLANGE NOMINAL PRESSURE 25**

| Pipe | | Flange | | | | Neck | | | | Raised face | | Bolts | | | Weight of one flange (7.85 kg/dm ³) kg. | |
|------|-------|--------|----|-----|-----|-------|-----|----|----|-------------|---|-------|--------|----------|---|------|
| NW | d1 | D | b | k | h1 | d3 | s | r | h2 | d4 | f | No. | Thread | d2 | | |
| 175 | (191) | 330 | 28 | 280 | 75 | 215 | 5.6 | 10 | 15 | 248 | 3 | 12 | M24 | (7/8") | 27 | 13.4 |
| | 193.7 | | | | | 218 | | | | | | | | | | 17.0 |
| 200 | 216 | 360 | 30 | 310 | 80 | 240 | 6.3 | 10 | 16 | 278 | 3 | 16 | M27 | (1") | 30 | 24.4 |
| | 219.1 | | | | | 244 | | | | | | | | | | 29.8 |
| 250 | 267 | 425 | 32 | 370 | 88 | 292 | 7.1 | 12 | 18 | 335 | 3 | 16 | M30 | (1-1/8") | 33 | 31.2 |
| | 273 | | | | | 298 | | | | | | | | | | 45.0 |
| 300 | 318 | 485 | 34 | 430 | 92 | 345 | 8 | 12 | 18 | 395 | 4 | 20 | M33 | (1-1/4") | 36 | 58.7 |
| | 323.9 | | | | | 352 | | | | | | | | | | 86.1 |
| 350 | 355.6 | 555 | 38 | 490 | 100 | 398 | 8 | 12 | 20 | 450 | 4 | 20 | M36 | (1-3/8") | 39 | 101 |
| | 368 | | | | | 406.4 | | | | | | | | | | 58.7 |
| 400 | 406.4 | 620 | 40 | 550 | 110 | 452 | 8.8 | 12 | 20 | 505 | 4 | 20 | M33 | (1-1/4") | 36 | 86.1 |
| | 419 | | | | | 508 | | | | | | | | | | 86.1 |
| 500 | 508 | 730 | 44 | 660 | 125 | 558 | 10 | 12 | 20 | 615 | 4 | 20 | M36 | (1-3/8") | 39 | 101 |
| | 521 | | | | | 609.6 | | | | | | | | | | 101 |
| 600 | 609.6 | 845 | 46 | 770 | 125 | 660 | 11 | 12 | 20 | 720 | 5 | 20 | M36 | (1-3/8") | 39 | 101 |
| | 622 | | | | | 622 | | | | | | | | | | 101 |



**DIN 2642, DIN Connections
LOOSE FLANGE FOR FLANGE COLLAR PN 10**

| Nom Pipe size | Flange D mm | d5 mm | b mm | r mm | k mm | Drilling Number | d2 mm | Weight kg | Collar g mm |
|---------------|-------------|-------|------|------|------|-----------------|-------|-----------|-------------|
| 10 | 90 | 16 | 16 | 5 | 60 | 4 | 15 | 0.23 | 45 |
| 15 | 95 | 23 | 16 | 5 | 65 | 4 | 15 | 0.26 | 50 |
| 20 | 105 | 28 | 16 | 5 | 75 | 4 | 15 | 0.30 | 60 |
| 25 | 115 | 33 | 16 | 5 | 85 | 4 | 15 | 0.37 | 70 |
| 32 | 140 | 42 | 16 | 5 | 100 | 4 | 18 | 0.54 | 82 |
| 40 | 150 | 50 | 16 | 5 | 110 | 4 | 18 | 0.5 | 0.92 |
| 50 | 165 | 62 | 18 | 5 | 125 | 4 | 18 | 0.80 | 107 |
| 65 | 185 | 81 | 18 | 5 | 145 | 4 | 18 | 0.90 | 127 |
| 80 | 200 | 94 | 20 | 5 | 160 | 4 | 18 | 1.28 | 142 |
| 100 | 220 | 113 | 20 | 5 | 180 | 8 | 18 | 1.37 | 162 |
| 125 | 250 | 138 | 22 | 6 | 210 | 8 | 18 | 1.78 | 192 |
| 150 | 285 | 164 | 22 | 6 | 240 | 8 | 22 | 2.27 | 218 |
| 175 | 315 | 195 | 24 | 6 | 270 | 8 | 22 | 2.90 | 248 |
| 200 | 340 | 222 | 24 | 7 | 295 | 8 | 22 | 3.16 | 273 |
| 250 | 395 | 273 | 26 | 7 | 350 | 12 | 22 | 4.22 | 328 |
| 300 | 445 | 324 | 26 | 7 | 400 | 12 | 22 | 4.80 | 378 |
| 350 | 505 | 374 | 26 | 8 | 460 | 16 | 22 | 5.85 | 438 |
| 400 | 565 | 426 | 32 | 8 | 515 | 16 | 25 | 8.45 | 490 |
| 450 | 615 | 475 | 32 | 8 | 565 | 20 | 25 | 9.45 | 540 |
| 500 | 670 | 530 | 34 | 8 | 620 | 20 | 25 | 11.35 | 595 |
| 600 | 780 | 630 | 36 | 10 | 725 | 20 | 30 | 15.30 | 695 |
| 700 | 895 | 730 | 40 | 10 | 840 | 24 | 30 | 21.40 | 810 |
| 800 | 1015 | 832 | 44 | 10 | 950 | 24 | 34 | 30.50 | 916 |



**DIN 2635
WELDING NECK FLANGES NOMINAL PRESSURE 40**

| Pipe | | Flange | | | | Neck | | | | Raised | | Bolts | | Weight of one flange 7.85 kg/dm ³) kg | | |
|------|-------|--------|----|-----|----|------|-----|----|----|--------|---|-------|--------|---|----|-------|
| NW | d1 | D | b | k | h1 | d3 | s | r | h2 | d4 | f | No. | Thread | | d2 | |
| 10 | 14 | 90 | 16 | 60 | 35 | 25 | 1.8 | 4 | 6 | 40 | 2 | 4 | M12 | (1/2") | 14 | 0.661 |
| | 17.2 | | | | | 28 | | | | | | | | | | |
| 15 | 20 | 95 | 16 | 65 | 38 | 30 | 2 | 4 | 6 | 45 | 2 | | | | | 0.746 |
| | 21.3 | | | | | 32 | | | | | | | | | | |
| 20 | 25 | 105 | 18 | 75 | 40 | 38 | 2.3 | 4 | 6 | 58 | 2 | | | | | 1.06 |
| | 26.9 | | | | | 40 | | | | | | | | | | |
| 25 | 30 | 115 | 18 | 85 | 40 | 42 | 2.6 | 4 | 6 | 68 | 2 | | | | | 1.29 |
| | 33.7 | | | | | 46 | | | | | | | | | | |
| 32 | 38 | 140 | 18 | 100 | 42 | 52 | 2.6 | 6 | 6 | 78 | 2 | | | | | 1.88 |
| | 42.4 | | | | | 56 | | | | | | | | | | |
| 40 | 44.5 | 150 | 18 | 110 | 45 | 60 | 2.6 | 6 | 7 | 88 | 3 | | | | | 2.33 |
| | 48.3 | | | | | 64 | | | | | | | | | | |
| 50 | 57 | 165 | 20 | 125 | 48 | 72 | 2.9 | 6 | 8 | 102 | 3 | | M16 | (5/8") | 18 | 2.82 |
| | 60.3 | | | | | 75 | | | | | | | | | | |
| 65 | 76.1 | 185 | 22 | 145 | 52 | 90 | 2.9 | 6 | 10 | 122 | 3 | | | | | 3.74 |
| 80 | 88.9 | 200 | 24 | 160 | 58 | 105 | 3.2 | 8 | 12 | 138 | 3 | | | | | 4.75 |
| 100 | 108 | 235 | 24 | 190 | 65 | 128 | 3.6 | 8 | 12 | 138 | 3 | 8 | M20 | (3/4") | 23 | 6.52 |
| | 114.3 | | | | | 134 | | | | | | | | | | |
| 125 | 133 | 270 | 26 | 220 | 68 | 155 | 4 | 8 | 12 | 188 | 3 | 8 | M24 | (7/8") | 27 | 9.07 |
| | 139.7 | | | | | 162 | | | | | | | | | | |
| 150 | 159 | 300 | 28 | 250 | 75 | 182 | 4.5 | 10 | 12 | 188 | 3 | | M24 | (7/8") | | 11.8 |
| | 168.3 | | | | | 192 | | | | | | | | | | |
| 175 | 191 | 350 | 32 | 295 | 82 | 215 | 5.6 | 10 | 16 | 285 | 3 | 12 | M27 | (1") | 30 | 18.2 |
| | 193.7 | | | | | 218 | | | | | | | | | | |
| 200 | 216 | 375 | 34 | 320 | 88 | 240 | 6.3 | 10 | 16 | 285 | 3 | | | | | 21.5 |
| | 219.1 | | | | | 244 | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | |
|-----|-------|-----|----|-----|-----|-----|------|----|----|-----|---|----|-----|----------|----|--|------|
| 250 | 267 | 450 | 38 | 385 | 105 | 298 | 7.1 | 12 | 18 | 345 | 3 | | | | | | 34.9 |
| | 273 | | | | | 306 | | | | | | | | | | | |
| 300 | 318 | 515 | 42 | 450 | 115 | 352 | 8 | 12 | 18 | 410 | 4 | 16 | M30 | (1-1/8") | 33 | | 49.7 |
| | 323.9 | | | | | 362 | | | | | | | | | | | |
| 350 | 355.6 | 580 | 46 | 510 | 125 | 408 | 8.8 | 12 | 20 | 460 | 4 | | M33 | (1-1/4") | 36 | | 68.1 |
| | 368 | | | | | | | | | | | | | | | | |
| 400 | 406.4 | 660 | 50 | 585 | 135 | 462 | 11 | 12 | 20 | 535 | 4 | | M36 | (1-3/8") | 39 | | 96.5 |
| | 419 | | | | | | | | | | | | | | | | |
| 500 | 508 | 755 | 52 | 670 | 140 | 562 | 14.2 | 12 | 20 | 615 | 4 | 20 | M39 | (1-1/2") | 42 | | 117 |
| | 521 | | | | | | | | | | | | | | | | |