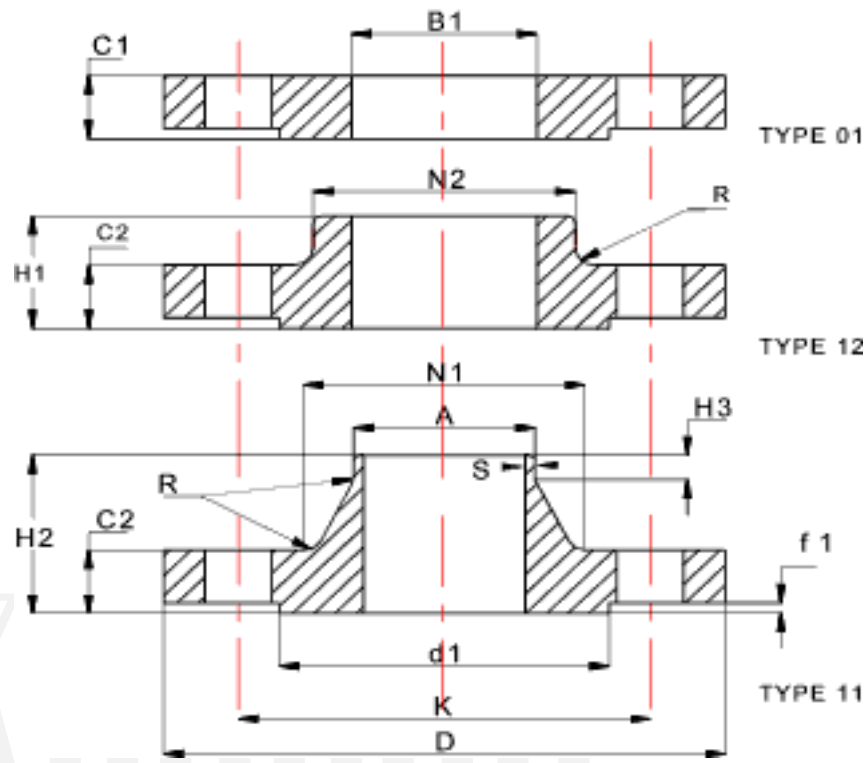


EN 1092-1 PN 16 Dimensions



Note : All Dimensions in mm

| DN | D | C1 | C2 | H1 | H2 | H3 | R | A | N1 | N2 | B1 | d1 | f1 | S |
|------|------|----|----|-----|-----|----|----|--------|------|------|-------|------|----|------|
| 10 | 90 | 14 | 14 | 20 | 35 | 6 | 4 | 17,2 | 28 | 30 | 18 | 40 | 2 | 1,8 |
| 15 | 95 | 14 | 14 | 20 | 35 | 6 | 4 | 21,3 | 32 | 35 | 22 | 45 | 2 | 2,0 |
| 20 | 105 | 14 | 14 | 24 | 38 | 6 | 4 | 26,9 | 39 | 45 | 27,5 | 58 | 2 | 2,3 |
| 25 | 115 | 16 | 16 | 24 | 38 | 6 | 4 | 33,7 | 46 | 52 | 34,5 | 68 | 2 | 2,6 |
| 32 | 140 | 18 | 16 | 26 | 40 | 6 | 6 | 42,4 | 56 | 60 | 43,5 | 78 | 2 | 2,6 |
| 40 | 150 | 18 | 16 | 26 | 42 | 7 | 6 | 48,3 | 64 | 70 | 49,5 | 88 | 2 | 2,6 |
| 50 | 165 | 19 | 18 | 28 | 45 | 8 | 6 | 60,3 | 75 | 84 | 61,5 | 102 | 2 | 2,9 |
| 65 | 185 | 20 | 18 | 32 | 45 | 10 | 6 | 76,1 | 90 | 104 | 77,5 | 122 | 2 | 2,9 |
| 80 | 200 | 20 | 20 | 34 | 50 | 10 | 8 | 88,9 | 105 | 118 | 90,5 | 138 | 2 | 3,2 |
| 100 | 220 | 22 | 20 | 40 | 52 | 12 | 8 | 114,3 | 131 | 140 | 116 | 158 | 2 | 3,6 |
| 125 | 250 | 22 | 22 | 44 | 55 | 12 | 8 | 139,7 | 156 | 168 | 141,5 | 188 | 2 | 4,0 |
| 150 | 285 | 24 | 22 | 44 | 55 | 12 | 10 | 168,3 | 192 | 195 | 170,5 | 212 | 2 | 4,5 |
| 200 | 340 | 26 | 24 | 44 | 62 | 16 | 10 | 219,1 | 235 | 246 | 221,5 | 268 | 2 | 5,6 |
| 250 | 405 | 29 | 26 | 46 | 70 | 16 | 12 | 273 | 292 | 298 | 276,5 | 320 | 2 | 6,3 |
| 300 | 460 | 32 | 28 | 46 | 78 | 16 | 12 | 323,9 | 344 | 350 | 327,5 | 378 | 2 | 7,1 |
| 350 | 520 | 35 | 30 | 57 | 82 | 16 | 12 | 355,6 | 390 | 400 | 359 | 438 | 2 | 8,0 |
| 400 | 580 | 38 | 32 | 63 | 85 | 16 | 12 | 406,4 | 445 | 456 | 411,0 | 490 | 2 | 8,0 |
| 450 | 640 | 42 | 40 | 68 | 87 | 16 | 12 | 457,0 | 490 | 502 | 462,0 | 550 | 2 | 8,0 |
| 500 | 715 | 46 | 44 | 73 | 90 | 16 | 12 | 508,0 | 548 | 559 | 513,5 | 610 | 2 | 8,0 |
| 600 | 840 | 52 | 54 | 83 | 95 | 18 | 12 | 610,0 | 652 | 658 | 616,5 | 725 | 2 | 8,8 |
| 700 | 910 | - | 36 | 83 | 100 | 18 | 12 | 711,0 | 755 | 760 | - | 795 | 2 | 8,8 |
| 800 | 1025 | - | 38 | 90 | 105 | 20 | 12 | 813,0 | 855 | 864 | - | 900 | 2 | 10,0 |
| 900 | 1125 | - | 40 | 94 | 110 | 20 | 12 | 914,0 | 955 | 968 | - | 1000 | 2 | 10,0 |
| 1000 | 1255 | - | 42 | 100 | 120 | 22 | 16 | 1016,0 | 1058 | 1072 | - | 1115 | 2 | 10,0 |

| | | | | | | | | | | | | | | |
|------|------|----|----|----|-----|----|----|--------|------|----|----|------|----|------|
| 1200 | 1485 | - | 48 | - | 130 | 30 | 16 | 1219,0 | 1262 | - | - | 1330 | 2 | 12,5 |
| 1400 | 1685 | - | 52 | - | 145 | 30 | 16 | 1420,0 | 1465 | - | - | 1530 | 2 | 14,2 |
| 1600 | 1930 | - | 58 | - | 160 | 35 | 16 | 1620,0 | 1668 | - | - | 1750 | 2 | 16,0 |
| DN | D | C1 | C2 | H1 | H2 | H3 | R | A | N1 | N2 | B1 | d1 | f1 | S |

Note: in EN 1092-1:2002 f1= 2 for all sizes.

In the latest versions of the relevant DIN standard. f1 varies as follow

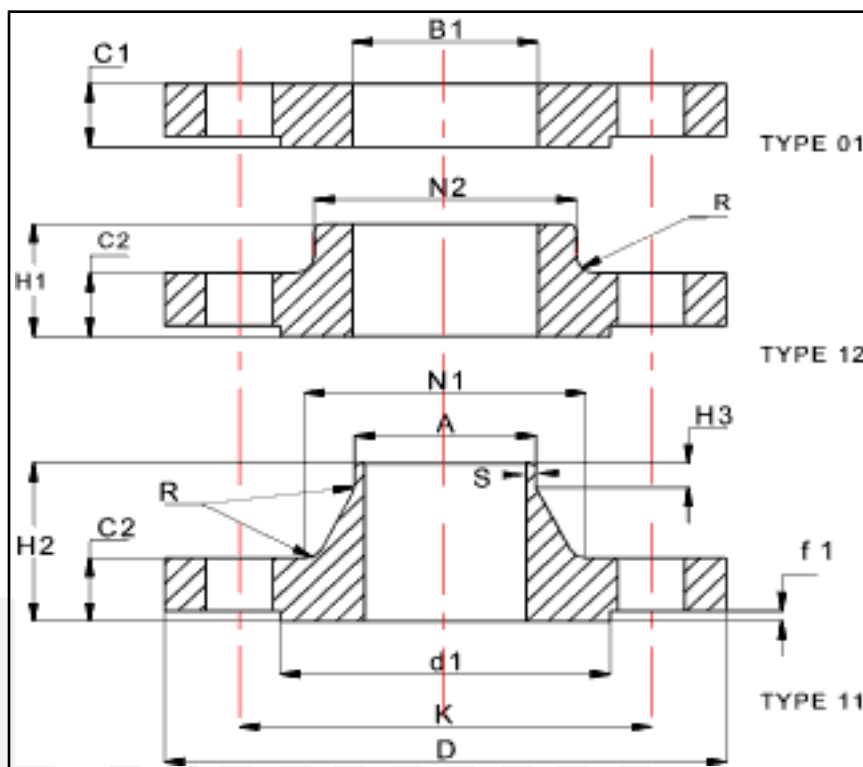
(DN =< 32 f1 = 1-2, DN 32->250(inc) f1= 1-3, DN 250->500(inc) f1= 1-4, Dn >500 f1= 1-5)..

Flange Bolting

K = Bolt Circle Diameter, L = Dia Of Bolt Hole,
No = Number of Holes , Size = Size of Bolts

| DN | K | L | No | Size |
|------|------|----|----|------|
| mm | mm | mm | - | mm |
| 10 | 60 | 14 | 4 | M12 |
| 15 | 65 | 14 | 4 | M12 |
| 20 | 75 | 14 | 4 | M12 |
| 25 | 85 | 14 | 4 | M12 |
| 32 | 100 | 18 | 4 | M16 |
| 40 | 110 | 18 | 4 | M16 |
| 50 | 125 | 18 | 4 | M16 |
| 65 | 145 | 18 | 8 | M16 |
| 80 | 160 | 18 | 8 | M16 |
| 100 | 180 | 18 | 8 | M16 |
| 125 | 210 | 18 | 8 | M16 |
| 150 | 240 | 22 | 8 | M20 |
| 200 | 295 | 22 | 12 | M20 |
| 250 | 355 | 26 | 12 | M24 |
| 300 | 410 | 26 | 12 | M24 |
| 350 | 470 | 26 | 16 | M24 |
| 400 | 525 | 30 | 16 | M27 |
| 450 | 585 | 30 | 20 | M27 |
| 500 | 650 | 33 | 20 | M30 |
| 600 | 770 | 36 | 20 | M33 |
| 700 | 840 | 36 | 24 | M33 |
| 800 | 950 | 39 | 24 | M36 |
| 900 | 1050 | 39 | 28 | M36 |
| 1000 | 1170 | 42 | 28 | M39 |
| 1200 | 1390 | 48 | 32 | M45 |
| 1400 | 1590 | 48 | 36 | M45 |
| 1600 | 1820 | 56 | 40 | M52 |

EN 1092-1 PN 25 Dimensions



Note : All Dimensions in mm

| DN | D | C1 | C2 | H1 | H2 | H3 | R | A | N1 | N2 | B1 | d1 | f1 | S |
|------|------|----|----|-----|-----|----|----|--------|------|-----|-------|------|----|------|
| 10 | 90 | 14 | 14 | 20 | 35 | 6 | 4 | 17,2 | 28 | 30 | 18 | 40 | 2 | 1,8 |
| 15 | 95 | 14 | 14 | 20 | 35 | 6 | 4 | 21,3 | 32 | 35 | 22 | 45 | 2 | 2,0 |
| 20 | 105 | 14 | 14 | 24 | 38 | 6 | 4 | 26,9 | 39 | 45 | 27,5 | 58 | 2 | 2,3 |
| 25 | 115 | 16 | 16 | 24 | 38 | 6 | 4 | 33,7 | 46 | 52 | 34,5 | 68 | 2 | 2,6 |
| 32 | 140 | 18 | 16 | 26 | 40 | 6 | 6 | 42,4 | 56 | 60 | 43,5 | 78 | 2 | 2,6 |
| 40 | 150 | 18 | 16 | 26 | 42 | 7 | 6 | 48,3 | 64 | 70 | 49,5 | 88 | 2 | 2,6 |
| 50 | 165 | 20 | 20 | 34 | 48 | 8 | 6 | 60,3 | 75 | 84 | 61,5 | 102 | 2 | 2,9 |
| 65 | 185 | 22 | 22 | 38 | 52 | 10 | 6 | 76,1 | 90 | 104 | 77,5 | 122 | 2 | 2,9 |
| 80 | 200 | 24 | 24 | 40 | 58 | 12 | 8 | 88,9 | 105 | 118 | 90,5 | 138 | 2 | 3,2 |
| 100 | 235 | 26 | 24 | 44 | 65 | 12 | 8 | 114,3 | 134 | 145 | 116 | 162 | 2 | 3,6 |
| 125 | 270 | 28 | 26 | 48 | 68 | 12 | 10 | 139,7 | 162 | 170 | 141,5 | 188 | 2 | 4,2 |
| 150 | 300 | 30 | 28 | 52 | 75 | 12 | 10 | 168,3 | 192 | 200 | 170,5 | 218 | 2 | 4,5 |
| 200 | 360 | 32 | 30 | 52 | 80 | 16 | 10 | 219,1 | 244 | 256 | 221,5 | 278 | 2 | 6,3 |
| 250 | 425 | 35 | 32 | 60 | 88 | 18 | 12 | 273,0 | 298 | 310 | 276,5 | 335 | 2 | 7,1 |
| 300 | 485 | 38 | 34 | 67 | 92 | 18 | 12 | 323,9 | 352 | 364 | 327,5 | 295 | 2 | 8,0 |
| 350 | 555 | 42 | 38 | 72 | 100 | 20 | 12 | 355,6 | 398 | 418 | 359,5 | 450 | 2 | 8,0 |
| 400 | 620 | 46 | 40 | 78 | 110 | 20 | 12 | 406,4 | 452 | 472 | 411,0 | 505 | 2 | 8,8 |
| 450 | 670 | 50 | 46 | 84 | 110 | 20 | 12 | 457,0 | 500 | 520 | 462,0 | 555 | 2 | 8,8 |
| 500 | 730 | 56 | 48 | 90 | 125 | 20 | 12 | 508,0 | 558 | 580 | 513,5 | 615 | 2 | 10,0 |
| 600 | 845 | 68 | 58 | 100 | 125 | 20 | 12 | 610,0 | 660 | 684 | 616,5 | 720 | 2 | 11,0 |
| 700 | 960 | - | 46 | - | 125 | 20 | 12 | 711,0 | 760 | - | - | 820 | 2 | 12,5 |
| 800 | 1085 | - | 50 | - | 135 | 22 | 12 | 813,0 | 864 | - | - | 930 | 2 | 14,2 |
| 900 | 1185 | - | 54 | - | 145 | 24 | 12 | 914,0 | 968 | - | - | 1030 | 2 | 16,0 |
| 1000 | 1320 | - | 58 | - | 155 | 24 | 16 | 1016,0 | 1070 | - | - | 1140 | 2 | 17,5 |

| | | | | | | | | | | | | | | |
|-----------|----------|-----------|-----------|-----------|-----------|-----------|----------|----------|-----------|-----------|-----------|-----------|-----------|----------|
| 1200 | 1530 | - | - | - | - | - | 18 | 1219,0 | - | - | - | 1350 | 2 | - |
| 1400 | 1755 | - | - | - | - | - | 18 | 1422,0 | - | - | - | 1560 | 2 | - |
| 1600 | 1975 | - | - | - | - | - | 20 | 1626,0 | - | - | - | 1780 | 2 | - |
| DN | D | C1 | C2 | H1 | H2 | H3 | R | A | N1 | N2 | B1 | d1 | f1 | S |

Note: in EN 1092-1:2002 f1= 2 for all sizes.

In the latest versions of the relevant DIN standard. f1 varies as follow

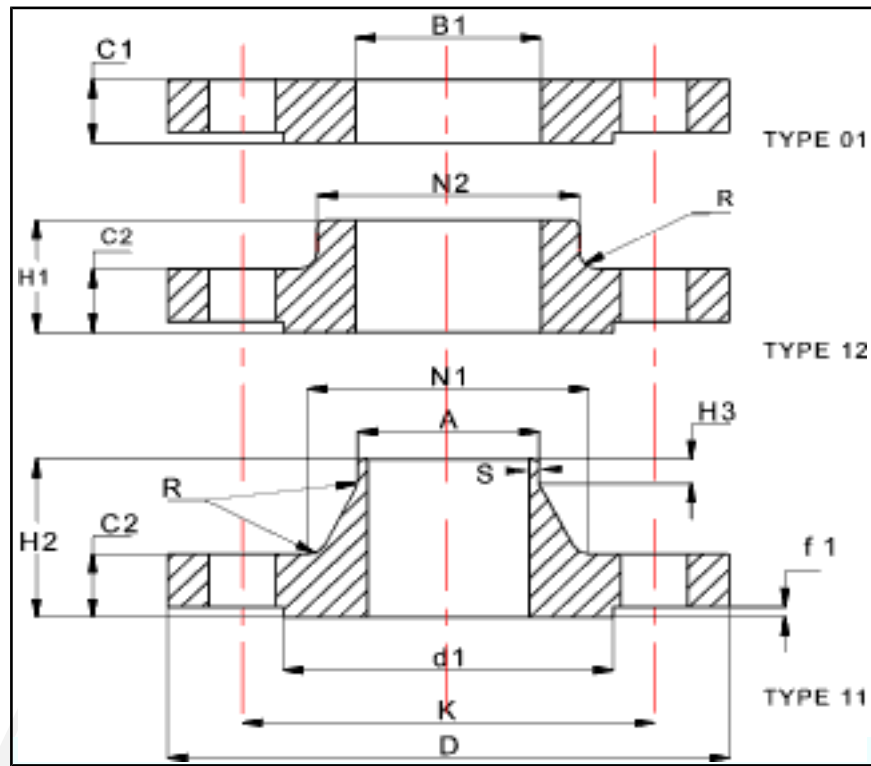
(DN =< 32 f1 = 1-2, DN 32->250(inc) f1= 1-3, DN 250->500(inc) f1= 1-4, Dn >500 f1= 1-5)..

Flange Bolting

K = Bolt Circle Diameter, L = Dia Of Bolt Hole,
No = Number of Holes , Size = Size of Bolts

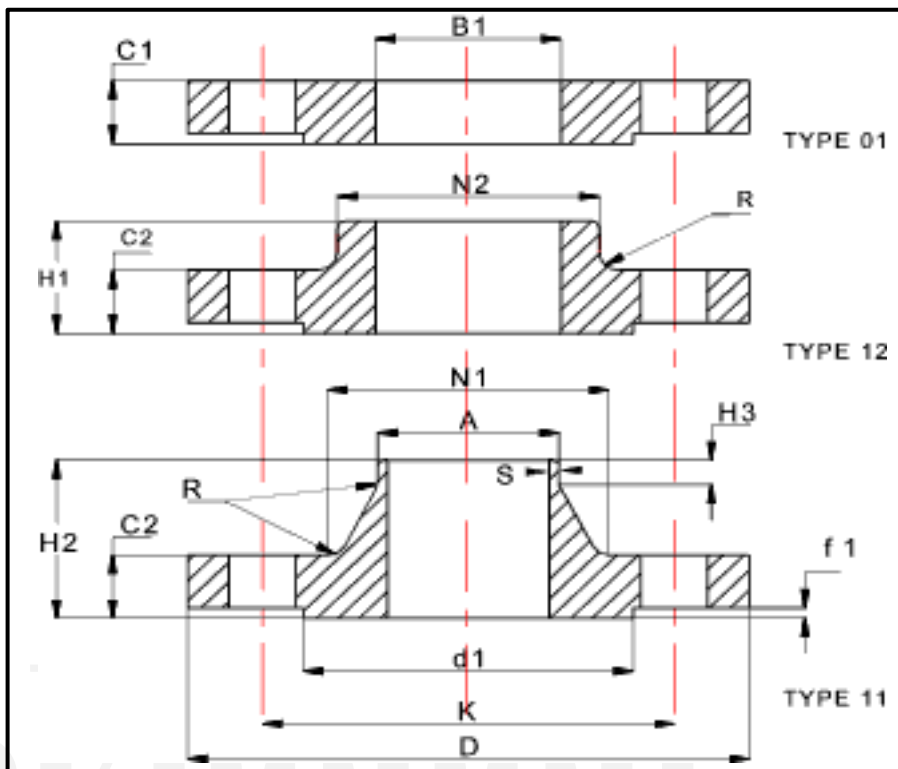
| DN | K | L | No | Size |
|------|------|----|----|------|
| mm | mm | mm | - | mm |
| 10 | 60 | 14 | 4 | M12 |
| 15 | 65 | 14 | 4 | M12 |
| 20 | 75 | 14 | 4 | M12 |
| 25 | 85 | 14 | 4 | M12 |
| 32 | 100 | 18 | 4 | M16 |
| 40 | 110 | 18 | 4 | M16 |
| 50 | 125 | 18 | 4 | M16 |
| 65 | 145 | 18 | 8 | M16 |
| 80 | 160 | 18 | 8 | M16 |
| 100 | 190 | 22 | 8 | M20 |
| 125 | 220 | 26 | 8 | M24 |
| 150 | 250 | 26 | 8 | M24 |
| 200 | 310 | 26 | 12 | M24 |
| 250 | 370 | 30 | 12 | M27 |
| 300 | 430 | 30 | 16 | M27 |
| 350 | 490 | 33 | 16 | M30 |
| 400 | 550 | 36 | 16 | M33 |
| 450 | 600 | 36 | 20 | M33 |
| 500 | 660 | 36 | 20 | M33 |
| 600 | 770 | 39 | 20 | M36 |
| 700 | 875 | 42 | 24 | M39 |
| 800 | 990 | 48 | 24 | M45 |
| 900 | 1090 | 48 | 28 | M45 |
| 1000 | 1210 | 56 | 28 | M52 |
| 1200 | 1420 | 56 | 32 | M52 |
| 1400 | 1640 | 62 | 36 | M56 |
| 1600 | 1860 | 62 | 40 | M56 |

EN 1092-1 PN 40 Dimensions



Note : All Dimensions in mm

| DN | D | C1 | C2 | H1 | H2 | H3 | R | A | N1 | N2 | B1 | d1 | f1 | S |
|-----|-----|----|----|-----|-----|----|----|-------|-----|-----|-------|-----|----|------|
| 10 | 90 | 14 | 14 | 20 | 35 | 6 | 4 | 17,2 | 28 | 30 | 18 | 40 | 2 | 1,8 |
| 15 | 95 | 14 | 14 | 20 | 35 | 6 | 4 | 21,3 | 32 | 35 | 22 | 45 | 2 | 2,0 |
| 20 | 105 | 14 | 14 | 24 | 38 | 6 | 4 | 26,9 | 39 | 45 | 27,5 | 58 | 2 | 2,3 |
| 25 | 115 | 16 | 16 | 24 | 38 | 6 | 4 | 33,7 | 46 | 52 | 34,5 | 68 | 2 | 2,6 |
| 32 | 140 | 18 | 16 | 26 | 40 | 6 | 6 | 42,4 | 56 | 60 | 43,5 | 78 | 2 | 2,6 |
| 40 | 150 | 18 | 16 | 26 | 42 | 7 | 6 | 48,3 | 64 | 70 | 49,5 | 88 | 2 | 2,6 |
| 50 | 165 | 20 | 20 | 34 | 48 | 8 | 6 | 60,3 | 75 | 84 | 61,5 | 102 | 2 | 2,9 |
| 65 | 185 | 22 | 22 | 38 | 52 | 10 | 6 | 76,1 | 90 | 104 | 77,5 | 122 | 2 | 2,9 |
| 80 | 200 | 24 | 24 | 40 | 58 | 12 | 8 | 88,9 | 105 | 118 | 90,5 | 138 | 2 | 3,2 |
| 100 | 235 | 26 | 24 | 44 | 65 | 12 | 8 | 114,3 | 134 | 145 | 116 | 162 | 2 | 3,6 |
| 125 | 270 | 28 | 26 | 48 | 68 | 12 | 10 | 139,7 | 162 | 170 | 141,5 | 188 | 2 | 4,2 |
| 150 | 300 | 30 | 28 | 52 | 75 | 12 | 10 | 168,3 | 192 | 200 | 170,5 | 218 | 2 | 4,5 |
| 200 | 375 | 36 | 34 | 52 | 88 | 16 | 10 | 219,1 | 244 | 260 | 221,5 | 285 | 2 | 6,3 |
| 250 | 450 | 42 | 38 | 60 | 105 | 18 | 12 | 273 | 306 | 312 | 276,5 | 345 | 2 | 7,1 |
| 300 | 515 | 48 | 42 | 67 | 115 | 18 | 12 | 323,9 | 362 | 380 | 327,5 | 410 | 2 | 8,0 |
| 350 | 580 | 54 | 46 | 72 | 125 | 20 | 12 | 355,6 | 408 | 424 | 359,5 | 465 | 2 | 8,8 |
| 400 | 660 | 60 | 50 | 78 | 135 | 20 | 12 | 406,4 | 462 | 478 | 411,0 | 535 | 2 | 11,0 |
| 450 | 685 | 66 | 57 | 84 | 135 | 20 | 12 | 457,0 | 500 | 522 | 462,0 | 560 | 2 | 12,5 |
| 500 | 755 | 72 | 57 | 90 | 140 | 20 | 12 | 508,0 | 562 | 576 | 513,5 | 615 | 2 | 14,2 |
| 600 | 890 | 84 | 72 | 100 | 150 | 20 | 12 | 610,0 | 666 | 686 | 616,5 | 735 | 2 | 16,0 |
| DN | D | C1 | C2 | H1 | H2 | H3 | R | A | N1 | N2 | B1 | d1 | f1 | S |



Note : All Dimensions in mm

K = Bolt Circle Diameter, L = Dia Of Bolt Hole,
No = Number of Holes , Size = Size of Bolts

| DN | K | L | No | Size |
|-----|-----|----|----|------|
| mm | mm | mm | - | mm |
| 10 | 60 | 14 | 4 | M12 |
| 15 | 65 | 14 | 4 | M12 |
| 20 | 75 | 14 | 4 | M12 |
| 25 | 85 | 14 | 4 | M12 |
| 32 | 100 | 18 | 4 | M16 |
| 40 | 110 | 18 | 4 | M16 |
| 50 | 125 | 18 | 4 | M16 |
| 65 | 145 | 18 | 8 | M16 |
| 80 | 160 | 18 | 8 | M16 |
| 100 | 190 | 22 | 8 | M20 |
| 125 | 220 | 26 | 8 | M24 |
| 150 | 250 | 26 | 8 | M24 |
| 200 | 320 | 30 | 12 | M27 |
| 250 | 385 | 33 | 12 | M30 |
| 300 | 450 | 33 | 16 | M30 |
| 350 | 510 | 36 | 16 | M33 |
| 400 | 585 | 39 | 16 | M36 |
| 450 | 610 | 39 | 20 | M36 |
| 500 | 670 | 42 | 20 | M39 |
| 600 | 795 | 48 | 20 | M45 |