

# STAINLESS FLANGE

Product Catalogue

NPS 1/2 through NPS 24

**ASME B16.5**

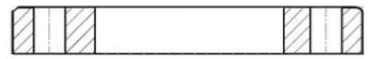
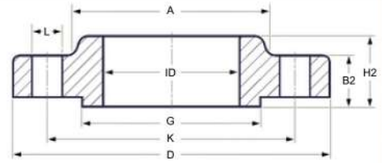
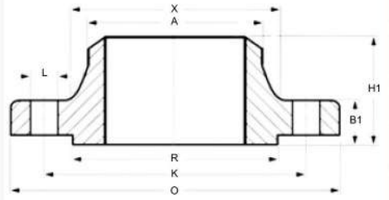
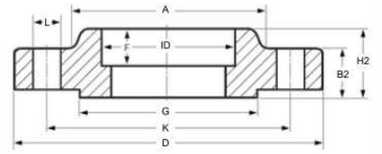
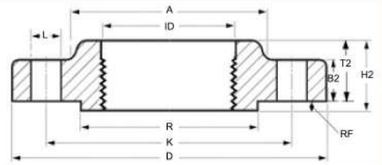
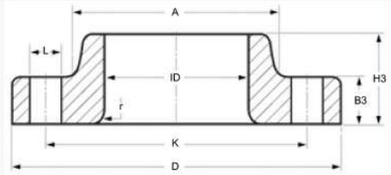
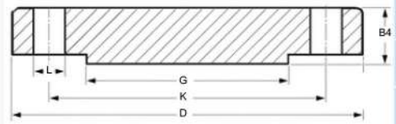
Large Diameter Pipe Fitting

**ASME B16.47**

# OVERVIEW

## SEALING SURFACE TYPES

## PRESSURE CLASSES

| Stainless Steel Flange Overview | | | |
|---|---|---|---|
| Flange Types | | Sealing Surface Types | Pressure Class (Mpa) |
| Plate Flange |  | RF | 0.25-2.5 |
| | | FF | 0.25-1.6 |
| Slip-on Flange |   | RF | 0.6-0.4 |
| | | MFM | 1.0-4.0 |
| | | TG | 0.6-1.6 |
| | | FF | 1.0-25.0 |
| Welding Neck Flange |   | RF | 1.0-16.0 |
| | | MFM | 1.0-16.0 |
| | | TG | 6.3-25.0 |
| | | RJ | 1.0-1.6 |
| | | FF | 1.0-10.0 |
| Socket Welding Flange |   | RF | 1.0-10.0 |
| | | MFM | 1.0-10.0 |
| | | TG | 0.6-0.4 |
| Threaded Flange |   | RF | 0.6-1.6 |
| | | FF | 0.6-0.4 |
| Lap Joint Flange |   | RF | 0.6-1.6 |
| Flat Welding Ring Loose Flange | | RF | 1.6-1.6 |
| | | MFM | 0.6-1.6 |
| | | TG | 0.6-1.6 |
| Blind Flange |   | RF | 0.25-0.25 |
| | | MFM | 1.0-16.0 |
| | | TG | 1.0-16.0 |
| | | RJ | 6.3-25.0 |
| | | FF | 0.25-1.6 |

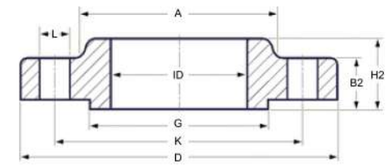
# ASME B16.5

## CLASS 150 / PN 2.0MPA

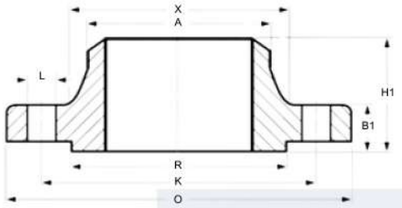
| Nominal Diameter | | Hub Diameter | O.D. of Flange | Diameter of Raised Face | Diameter of Bolt Holes Circle | Diameter of Bolt Holes | Numbers of Bolt Holes | Diameter of Bolt Holes (inch) | Flange Thickness | Hub Diameter | Through Hub Length (H) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DN | NPS | A | D | G, R | K | L | | | B1-B4 | A | H1 | H2 | H3 |
| 15 | ½'' | 21.3 | 90 | 35 | 60.5 | 16 | 4 | M14 | 11.5 | 30 | 48 | 16 | 16 |
| 20 | ¾'' | 26.9 | 100 | 43 | 70 | 16 | 4 | M14 | 13 | 38 | 52 | 16 | 16 |
| 25 | 1'' | 33.7 | 110 | 51 | 79.5 | 16 | 4 | M14 | 14.5 | 49 | 56 | 17 | 17 |
| 32 | 1 ¼'' | 42.4 | 120 | 63.5 | 89 | 16 | 4 | M14 | 16 | 59 | 57 | 21 | 21 |
| 40 | 1 ½'' | 48.3 | 130 | 73 | 98.5 | 16 | 4 | M14 | 17.5 | 65 | 62 | 22 | 22 |
| 50 | 2'' | 60.3 | 150 | 92 | 120.5 | 18 | 4 | M16 | 19.5 | 78 | 64 | 25 | 25 |
| 65 | 2 ½'' | 76.1 | 180 | 105 | 139.5 | 18 | 4 | M16 | 22.5 | 90 | 70 | 29 | 29 |
| 80 | 3'' | 88.9 | 190 | 127 | 152.5 | 18 | 4 | M16 | 24 | 108 | 70 | 30 | 30 |
| 90 | 3 ½'' | 101.6 | 216 | 140 | 178 | 18 | 8 | M20 | 24 | 122 | 71 | - | 32 |
| 100 | 4'' | 114.3 | 230 | 157.5 | 190.5 | 18 | 8 | M20 | 24 | 135 | 76 | 33 | 33 |
| 125 | 5'' | 139.7 | 255 | 186 | 216 | 22 | 8 | M20 | 24 | 164 | 89 | 36 | 36 |
| 150 | 6'' | 168.3 | 280 | 216 | 241.5 | 22 | 8 | M20 | 25.5 | 192 | 89 | 40 | 40 |
| 200 | 8'' | 219.1 | 345 | 270 | 298.5 | 22 | 8 | M20 | 29 | 246 | 102 | 44 | 45 |
| 250 | 10'' | 273 | 405 | 324 | 362 | 26 | 12 | M24 | 30.5 | 305 | 102 | 49 | 49 |
| 300 | 12'' | 323.9 | 485 | 381 | 432 | 26 | 12 | M24 | 32 | 365 | 114 | 56 | 56 |
| 350 | 14'' | 355.6 | 535 | 413 | 476 | 29.5 | 12 | M27 | 35 | 400 | 127 | 57 | 79 |
| 400 | 16'' | 406.4 | 600 | 470 | 540 | 29.5 | 16 | M27 | 37 | 457 | 127 | 64 | 87 |
| 450 | 18'' | 457 | 635 | 533.5 | 578 | 32.5 | 16 | M30 | 40 | 505 | 140 | 68 | 97 |
| 500 | 20'' | 508 | 700 | 584 | 635 | 32.5 | 20 | M30 | 43 | 559 | 145 | 73 | 103 |
| 550 | 22'' | 559 | 750 | 641 | 692 | 35.5 | 20 | M33 | 46 | 610 | 149 | - | - |
| 600 | 24'' | 610 | 816 | 692 | 749.5 | 35.5 | 20 | M33 | 48 | 664 | 152 | 83 | 111 |



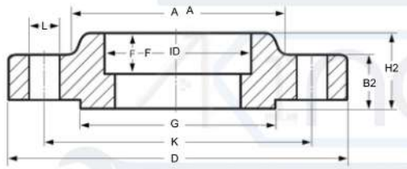
## AVAILABLE FLANGE TYPES



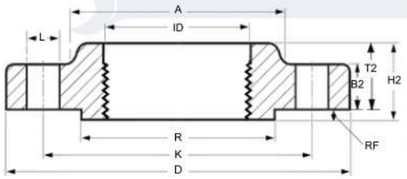

Slip-on Flange(SO)



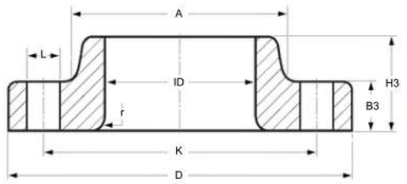

Welding Neck Flange(WN)



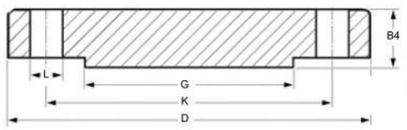

Socket Welding Flange(SW)




Threaded Flange(THD)




Lap Joint Flange(LJ)




Blind Flange(BL)

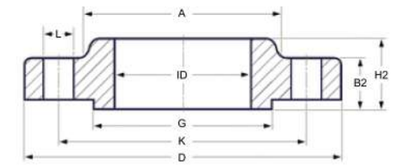
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## CLASS 300 / PN 2.0MPA

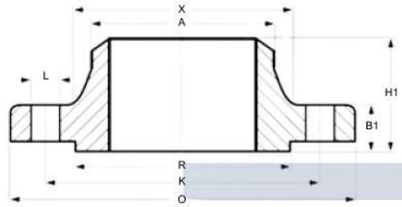
| Nominal Diameter | | Hub Diameter | O.D. of Flange | Diameter of Raised Face | Diameter of Bolt Holes Circle | Diameter of Bolt Holes | Numbers of Bolt Holes | Diameter of Bolt Holes (inch) | Flange Thickness | Hub Diameter | Through Hub Length | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DN | NPS | A | D | G, R | K | L | | | B1-B4 | A | H1 | H2 | H3 |
| 15 | ½'' | 21.3 | 95 | 35 | 66.5 | 16 | 4 | M14 | 14.5 | 38 | 52 | 22 | 22 |
| 20 | ¾'' | 26.9 | 120 | 43 | 82.5 | 18 | 4 | M16 | 16 | 48 | 57 | 25 | 25 |
| 25 | 1'' | 33.7 | 125 | 51 | 89 | 18 | 4 | M16 | 17.5 | 54 | 62 | 27 | 27 |
| 32 | 1 ¼'' | 42.4 | 135 | 63.5 | 98.5 | 18 | 4 | M16 | 19.5 | 64 | 65 | 27 | 27 |
| 40 | 1 ½'' | 48.3 | 155 | 73 | 114.5 | 22 | 4 | M20 | 21 | 70 | 68 | 30 | 30 |
| 50 | 2'' | 60.3 | 165 | 92 | 127 | 18 | 8 | M16 | 22.5 | 84 | 70 | 33 | 33 |
| 65 | 2 ½'' | 76.1 | 190 | 105 | 149 | 22 | 8 | M20 | 25.5 | 100 | 76 | 38 | 38 |
| 80 | 3'' | 88.9 | 210 | 127 | 168.5 | 22 | 8 | M20 | 29 | 118 | 79 | 43 | 43 |
| 90 | 3 ½'' | 101.6 | 229 | 140 | 184 | 22 | 8 | M20 | 30 | 140 | 81 | 45 | 45 |
| 100 | 4'' | 114.3 | 255 | 157.5 | 200 | 22 | 8 | M20 | 32 | 146 | 86 | 48 | 48 |
| 125 | 5'' | 139.7 | 280 | 186 | 235 | 22 | 8 | M20 | 35 | 178 | 98 | 51 | 51 |
| 150 | 6'' | 168.3 | 320 | 216 | 270 | 22 | 12 | M20 | 37 | 206 | 98 | 52 | 52 |
| 200 | 8'' | 219.1 | 380 | 270 | 330 | 26 | 12 | M24 | 41.5 | 260 | 111 | 62 | 62 |
| 250 | 10'' | 273 | 445 | 324 | 387.5 | 29.5 | 16 | M27 | 48 | 321 | 117 | 67 | 95 |
| 300 | 12'' | 323.9 | 520 | 381 | 451 | 32.5 | 16 | M30 | 51 | 275 | 130 | 73 | 102 |
| 350 | 14'' | 355.6 | 585 | 413 | 514.5 | 32.5 | 20 | M30 | 54 | 426 | 143 | 76 | 111 |
| 400 | 16'' | 406.4 | 650 | 470 | 571.5 | 32.5 | 20 | M33 | 57.5 | 483 | 146 | 83 | 121 |
| 450 | 18'' | 457 | 710 | 533.5 | 628.5 | 32.5 | 24 | M33 | 60.5 | 533 | 159 | 89 | 130 |
| 500 | 20'' | 508 | 775 | 584 | 686 | 32.5 | 24 | M33 | 63.5 | 587 | 162 | 95 | 140 |
| 550 | 22'' | 559 | 840 | 641 | 743 | 42 | 24 | M39 | 66.5 | 640 | 165 | - | - |
| 600 | 24'' | 610 | 915 | 692 | 813 | 42 | 24 | M39 | 70 | 702 | 168 | 104 | 152 |



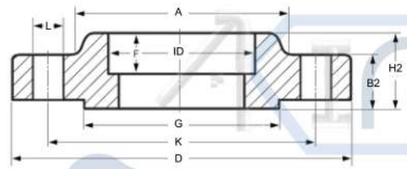
## AVAILABLE FLANGE TYPES



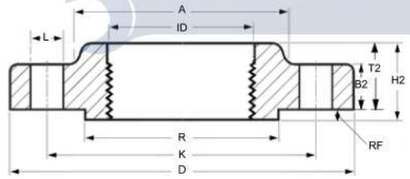

Slip-on Flange(SO)



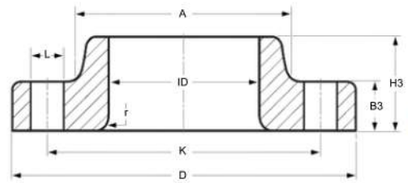

Welding Neck Flange(WN)



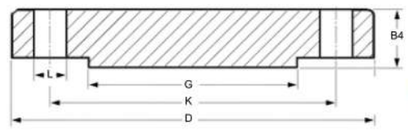

Socket Welding Flange(SW)




Threaded Flange(THD)




Lap Joint Flange(LJ)




Blind Flange(BL)

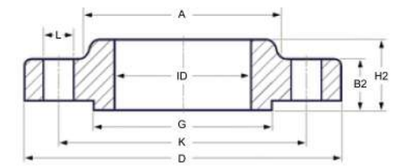
# ASME B16.5

## CLASS 600 / PN 11.0MPA

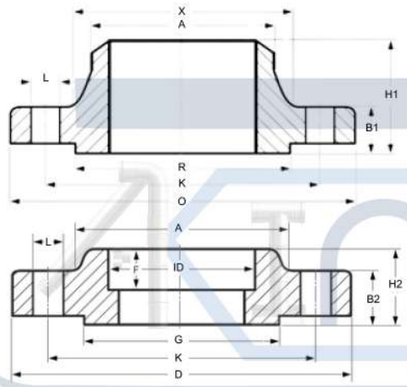
| Nominal Diameter | | Hub Diameter | O.D. of Flange | Diameter of Raised Face | Diameter of Bolt Holes Circle | Diameter of Bolt Holes | Numbers of Bolt Holes | Diameter of Bolt Holes (inch) | Flange Thickness | Hub Diameter | Through Hub Length | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DN | NPS | A | D | G, R | K | L | | | B1-B4 | A | H1 | H2 | H3 |
| 15 | ½'' | 21.3 | 95 | 35 | 66.5 | 16 | 4 | M14 | 14.5 | 38 | 52 | 22 | 22 |
| 20 | ¾'' | 26.9 | 120 | 43 | 82.5 | 18 | 4 | M16 | 16 | 48 | 57 | 25 | 25 |
| 25 | 1'' | 33.7 | 125 | 51 | 89 | 18 | 4 | M16 | 17.5 | 54 | 62 | 27 | 27 |
| 32 | 1 ¼'' | 42.4 | 135 | 63.5 | 98.5 | 18 | 4 | M16 | 21 | 64 | 67 | 29 | 29 |
| 40 | 1 ½'' | 48.3 | 155 | 73 | 114.5 | 22 | 4 | M20 | 22.5 | 70 | 70 | 32 | 32 |
| 50 | 2'' | 60.3 | 165 | 92 | 127 | 18 | 8 | M16 | 22.5 | 84 | 73 | 37 | 37 |
| 65 | 2 ½'' | 76.1 | 190 | 105 | 149 | 22 | 8 | M20 | 29 | 100 | 79 | 41 | 41 |
| 80 | 3'' | 88.9 | 210 | 127 | 168.5 | 22 | 8 | M20 | 32 | 117 | 83 | 46 | 46 |
| 90 | 3 ½'' | 101.6 | 229 | 140 | 184 | 26 | 8 | M24 | 35 | 133 | 86 | 49 | 49 |
| 100 | 4'' | 114.3 | 275 | 157.5 | 216 | 26 | 8 | M24 | 38.5 | 152 | 102 | 54 | 54 |
| 125 | 5'' | 139.7 | 330 | 186 | 267 | 29.5 | 8 | M27 | 44.5 | 189 | 114 | 60 | 60 |
| 150 | 6'' | 168.3 | 355 | 216 | 292 | 29.5 | 12 | M27 | 48 | 222 | 117 | 67 | 67 |
| 200 | 8'' | 219.1 | 420 | 270 | 349 | 32.5 | 12 | M30 | 55.5 | 273 | 133 | 76 | 76 |
| 250 | 10'' | 273 | 510 | 324 | 432 | 35.5 | 16 | M33 | 63.5 | 343 | 152 | 86 | 111 |
| 300 | 12'' | 323.9 | 560 | 381 | 489 | 35.5 | 20 | M33 | 67 | 400 | 156 | 92 | 117 |
| 350 | 14'' | 355.6 | 605 | 413 | 527 | 39 | 20 | M36 | 70 | 432 | 165 | 94 | 127 |
| 400 | 16'' | 406.4 | 685 | 470 | 603 | 42 | 20 | M39 | 76.5 | 495 | 178 | 106 | 140 |
| 450 | 18'' | 457 | 745 | 533.5 | 654 | 45 | 20 | M42 | 83 | 546 | 184 | 117 | 152 |
| 500 | 20'' | 508 | 815 | 584 | 724 | 45 | 24 | M42 | 89 | 610 | 190 | 127 | 165 |
| 550 | 22'' | 559 | 870 | 641 | 778 | 48 | 24 | M45 | 95 | 665 | 197 | - | - |
| 600 | 24'' | 610 | 940 | 692 | 838 | 51 | 24 | M48 | 102 | 718 | 203 | 140 | 184 |



## AVAILABLE FLANGE TYPES

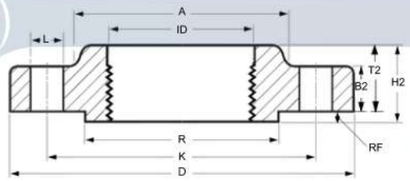



Slip-on Flange(SO)

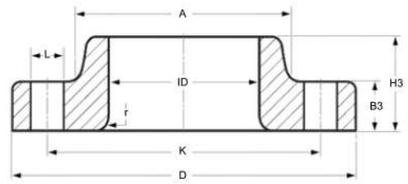



Welding Neck Flange(WN)

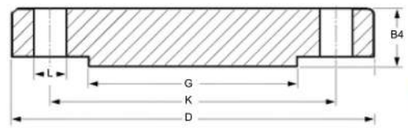
Socket Welding Flange(SW)




Threaded Flange(THD)




Lap Joint Flange(LJ)



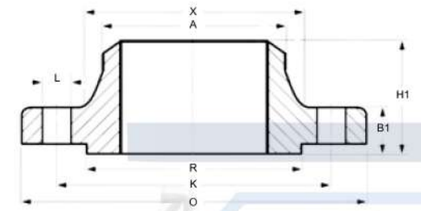

Blind Flange(BL)

# ASME B16.5

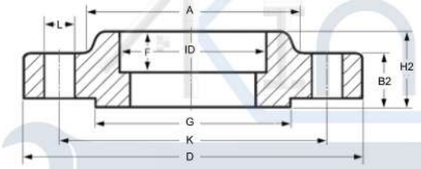
## CLASS 900 / PN15.0MPA

| Nominal Diameter | | Hub Diameter | O.D. of Flange | Diameter of Raised Face | Diameter of Bolt Holes Circle | Diameter of Bolt Holes | Numbers of Bolt Holes | Diameter of Bolt Holes (inch) | Flange Thickness | Hub Diameter | Through Hub Length | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DN | NPS | A | D | G, R | K | L | | | B1, B2, B4 | A | H1 | H2 |
| 15 | ½'' | 21.3 | 120 | 35 | 82.5 | 22 | 4 | M20 | 22.5 | 38 | 60 | 32 |
| 20 | ¾'' | 26.9 | 130 | 43 | 89 | 22 | 4 | M20 | 25.5 | 44 | 70 | 35 |
| 25 | 1'' | 33.7 | 150 | 51 | 101.5 | 26 | 4 | M24 | 29 | 52 | 73 | 41 |
| 32 | 1 ¼'' | 42.4 | 160 | 63.5 | 111 | 26 | 4 | M24 | 29 | 64 | 73 | 41 |
| 40 | 1 ½'' | 48.3 | 180 | 73 | 124 | 29.5 | 4 | M27 | 32 | 70 | 83 | 44 |
| 50 | 2'' | 60.3 | 215 | 92 | 165 | 26 | 8 | M24 | 38.5 | 105 | 102 | 57 |
| 65 | 2 ½'' | 76.1 | 245 | 105 | 190.5 | 29.5 | 8 | M27 | 41.5 | 124 | 105 | 64 |
| 80 | 3'' | 88.9 | 240 | 127 | 190.5 | 26 | 8 | M24 | 38.6 | 127 | 102 | 54 |
| 100 | 4'' | 114.3 | 290 | 157.5 | 235 | 32.5 | 8 | M30 | 44.5 | 159 | 114 | - |
| 125 | 5'' | 139.7 | 350 | 186 | 279.5 | 35.5 | 8 | M33 | 51 | 190 | 127 | - |
| 150 | 6'' | 168.3 | 380 | 216 | 317.5 | 32.5 | 12 | M30 | 56 | 235 | 140 | - |
| 200 | 8'' | 219.1 | 470 | 270 | 393.5 | 39 | 12 | M36 | 63.5 | 298 | 162 | - |
| 250 | 10'' | 273 | 545 | 324 | 470 | 39 | 16 | M36 | 70 | 368 | 184 | - |
| 300 | 12'' | 323.9 | 610 | 381 | 533.5 | 39 | 20 | M36 | 79.5 | 419 | 200 | - |
| 350 | 14'' | 355.6 | 640 | 413 | 559 | 42 | 20 | M39 | 86 | 451 | 213 | - |
| 400 | 16'' | 406.4 | 705 | 470 | 616 | 45 | 20 | M42 | 89 | 508 | 216 | - |
| 450 | 18'' | 457 | 785 | 533.5 | 686 | 51 | 20 | M48 | 102 | 565 | 229 | - |
| 500 | 20'' | 508 | 855 | 584 | 749.5 | 55 | 20 | M52 | 108 | 672 | 248 | - |
| 600 | 24'' | 610 | 1040 | 692 | 901.5 | 68 | 20 | M64 | 140 | 749 | 267 | - |

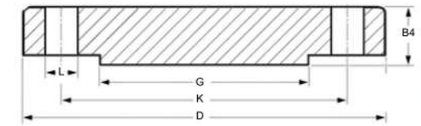
## AVAILABLE FLANGE TYPES




Welding Neck Flange(WN)




Socket Welding Flange(SW)




Blind Flange(BL)

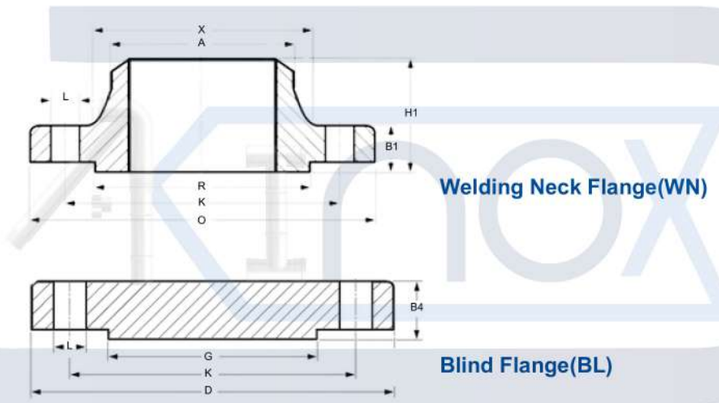
# ASME B16.5

## CLASS 1500 / PN26.0MPA

| Nominal Diameter | | Hub Diameter | O.D. of Flange | Diameter of Raised Face | Diameter of Bolt Holes Circle | Diameter of Bolt Holes | Numbers of Bolt Holes | Diameter of Bolt Holes (inch) | Flange Thickness | Hub Diameter | Through Hub Length | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DN | NPS | A | D | G, R | K | L | | | B1, B4 | A | H1 | H2 |
| 15 | ½'' | 21.3 | 120 | 35 | 82.5 | 22 | 4 | M20 | 22.5 | 38 | 60 | - |
| 20 | ¾'' | 26.9 | 130 | 43 | 89 | 22 | 4 | M20 | 22.5 | 44 | 70 | - |
| 25 | 1'' | 33.7 | 150 | 51 | 101.5 | 26 | 4 | M24 | 29 | 52 | 73 | 82.5 |
| 32 | 1 ¼'' | 42.4 | 160 | 63.5 | 111 | 26 | 4 | M24 | 29 | 64 | 73 | - |
| 40 | 1 ½'' | 48.3 | 180 | 73 | 124 | 29.5 | 4 | M27 | 32 | 70 | 83 | 89 |
| 50 | 2'' | 60.3 | 215 | 92 | 165 | 26 | 8 | M24 | 38.5 | 105 | 102 | 102 |
| 65 | 2 ½'' | 76.1 | 245 | 105 | 190.5 | 29.5 | 8 | M27 | 41.5 | 124 | 105 | 105 |
| 80 | 3'' | 88.9 | 265 | 127 | 203 | 32.5 | 8 | M30 | 48 | 133 | 117 | 117 |
| 100 | 4'' | 114.3 | 310 | 157.5 | 241.5 | 35.5 | 8 | M33 | 54 | 162 | 124 | 124 |
| 125 | 5'' | 139.7 | 375 | 186 | 292 | 42 | 8 | M39 | 73.5 | 197 | 155 | - |
| 150 | 6'' | 168.3 | 395 | 216 | 317.5 | 39 | 12 | M36 | 83 | 229 | 171 | 171 |
| 200 | 8'' | 219.1 | 485 | 270 | 393.5 | 45 | 12 | M42 | 92 | 292 | 213 | 213 |
| 250 | 10'' | 273 | 585 | 324 | 482.5 | 51 | 12 | M48 | 108 | 368 | 254 | 254 |
| 300 | 12'' | 323.9 | 675 | 381 | 571.5 | 55 | 16 | M52 | 124 | 451 | 283 | 283 |
| 350 | 14'' | 355.6 | 750 | 413 | 635 | 60 | 16 | M56 | 133.5 | 495 | 298 | 298 |
| 400 | 16'' | 406.4 | 825 | 470 | 705 | 68 | 16 | M64 | 146.5 | 552 | 311 | 311 |
| 450 | 18'' | 457 | 915 | 533.5 | 774.5 | 74 | 16 | M70 | 162 | 597 | 327 | 327 |
| 500 | 20'' | 508 | 985 | 584 | 832 | 80 | 16 | M76 | 178 | 641 | 356 | 356 |
| 600 | 24'' | 610 | 1170 | 692 | 990.5 | 94 | 16 | M90 | 203.5 | 762 | 406 | 406 |



## AVAILABLE FLANGE TYPES




Welding Neck Flange(WN)

Blind Flange(BL)

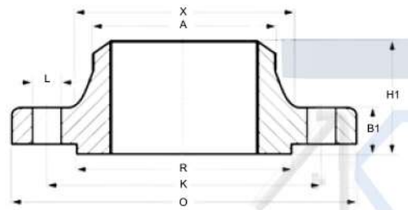
# ASME B16.47A

## TYPE A / CLASS 150

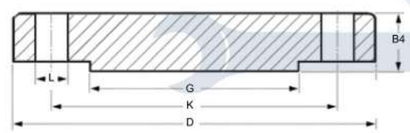
| Nominal Diameter | | Hub Diameter | O.D. of Flange | Diameter of Raised Face | Diameter of Bolt Holes Circle | Diameter of Bolt Holes | Numbers of Bolt Holes | Diameter of Bolt (inch) | Minimum Flange Thickness | | Hub Diameter | Through Hub Length |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DN | NPS | A | D | G, R | K | L | | | B1 | B4 | A | H1 |
| 650 | 26" | 660.4 | 870 | 749 | 806.4 | 1 ⅜ | 24 | M33 (1 ¼) | 66.7 | 66.7 | 676 | 119 |
| 700 | 28" | 711.2 | 925 | 800 | 863.6 | 1 ⅜ | 28 | M33 (1 ¼) | 69.9 | 69.9 | 727 | 124 |
| 750 | 30" | 762 | 985 | 857 | 914.4 | 1 ⅜ | 28 | M33 (1 ¼) | 73.1 | 73.1 | 781 | 135 |
| 800 | 32" | 812.8 | 1060 | 914 | 977.9 | 1 ⅝ | 28 | M39 (1 ½) | 79.4 | 79.4 | 832 | 143 |
| 850 | 34" | 863.6 | 1110 | 965 | 1028.7 | 1 ⅝ | 32 | M39 (1 ½) | 81.0 | 81.0 | 883 | 148 |
| 900 | 36" | 914.4 | 1170 | 1022 | 1085.5 | 1 ⅝ | 32 | M39 (1 ½) | 88.9 | 88.9 | 933 | 156 |
| 950 | 38" | 965.2 | 1240 | 1073 | 1149.4 | 1 ⅝ | 32 | M39 (1 ½) | 85.8 | 85.8 | 991 | 156 |
| 1000 | 40" | 1016.0 | 1290 | 1124 | 1200.2 | 1 ⅝ | 36 | M39 (1 ½) | 88.9 | 88.9 | 1041 | 162 |
| 1050 | 42" | 1066.8 | 1345 | 1194 | 1257.3 | 1 ⅝ | 36 | M39 (1 ½) | 95.3 | 95.3 | 1092 | 170 |
| 1100 | 44" | 1117.6 | 1405 | 1245 | 1314.4 | 1 ⅝ | 40 | M39 (1 ½) | 100.1 | 100.1 | 1143 | 176 |
| 1150 | 46" | 1168.4 | 1455 | 1295 | 1365.2 | 1 ⅝ | 40 | M39 (1 ½) | 101.6 | 101.6 | 1197 | 184 |
| 1200 | 48" | 1219.20 | 1510 | 1359 | 1422.4 | 1 ⅝ | 44 | M39 (1 ½) | 106.4 | 106.4 | 1248 | 191 |
| 1250 | 50" | 2700.0 | 1570 | 1410 | 1479.6 | 1 ⅞ | 44 | M45 (1 ¾) | 109.6 | 109.6 | 1302 | 202 |
| 1300 | 52" | 1320.8 | 1625 | 1461 | 1536.7 | 1 ⅞ | 44 | M45 (1 ¾) | 114.3 | 114.3 | 1353 | 208 |
| 1350 | 54" | 1371.6 | 1685 | 1511 | 1593.8 | 1 ⅞ | 44 | M45 (1 ¾) | 119.1 | 119.1 | 1403 | 214 |
| 1400 | 56" | 1422.4 | 1745 | 1575 | 1651.0 | 1 ⅞ | 48 | M45 (1 ¾) | 122.3 | 122.3 | 1457 | 227 |
| 1450 | 58" | 1473.2 | 1805 | 1626 | 1708.2 | 1 ⅞ | 48 | M45 (1 ¾) | 127.0 | 127.0 | 1508 | 233 |
| 1500 | 60" | 1524.0 | 1855 | 1676 | 1759.0 | 1 ⅞ | 52 | M45 (1 ¾) | 130.2 | 130.2 | 1559 | 238 |



## AVAILABLE FLANGE TYPES




Welding Neck Flange(WN)




Blind Flange(BL)

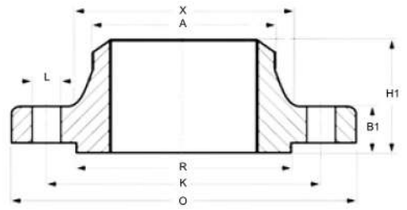
# ASME B16.47A

## TYPE A / CLASS 300

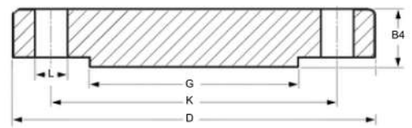
| Nominal Diameter | | Hub Diameter | O.D. of Flange | Diameter of Raised Face | Diameter of Bolt Holes Circle | Diameter of Bolt Holes | Numbers of Bolt Holes | Diameter of Bolt (inch) | Minimum Flange Thickness | | Hub Diameter | Through Hub Length |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DN | NPS | A | D | G, R | K | L | | | B1 | B4 | A | H1 |
| 650 | 26" | 660.4 | 970 | 749 | 876.3 | 1 ¾ | 28 | M42 (1 ⅝) | 77.8 | 82.6 | 721 | 183 |
| 700 | 28" | 711.2 | 1305 | 800 | 839.8 | 1 ¾ | 28 | M42 (1 ⅝) | 84.2 | 88.9 | 775 | 195 |
| 750 | 30" | 762 | 1090 | 857 | 997.0 | 1 ⅞ | 28 | M45 (1 ¾) | 90.5 | 93.7 | 827 | 208 |
| 800 | 32" | 812.8 | 1150 | 914 | 1054.1 | 2 | 28 | M48 (1 ⅞) | 96.9 | 98.5 | 881 | 221 |
| 850 | 34" | 863.6 | 1205 | 965 | 1104.9 | 2 | 28 | M48 (1 ⅞) | 100.1 | 103.2 | 937 | 230 |
| 900 | 36" | 914.4 | 1270 | 1022 | 1168.4 | 2 ⅛ | 32 | M52 (2) | 103.2 | 109.6 | 991 | 240 |
| 950 | 38" | 965.2 | 1170 | 1029 | 1092.2 | 1 ⅝ | 32 | M39 (1 ½) | 106.4 | 106.4 | 994 | 179 |
| 1000 | 40" | 1016.0 | 1240 | 1086 | 1155.7 | 1 ¾ | 32 | M42 (1 ⅝) | 112.8 | 112.8 | 1048 | 192 |
| 1050 | 42" | 1066.8 | 1290 | 1137 | 1206.5 | 1 ¾ | 32 | M42 (1 ⅝) | 117.5 | 117.5 | 1099 | 198 |
| 1100 | 44" | 1117.6 | 1355 | 1194 | 1263.6 | 1 ⅞ | 32 | M45 (1 ¾) | 122.3 | 122.3 | 1149 | 205 |
| 1150 | 46" | 1168.4 | 1415 | 1245 | 1320.8 | 2 | 28 | M48 (1 ⅞) | 127.0 | 127.0 | 1203 | 214 |
| 1200 | 48" | 1219.20 | 1465 | 1302 | 1371.6 | 2 | 32 | M48 (1 ⅞) | 131.8 | 131.8 | 1254 | 222 |
| 1250 | 50" | 2700.0 | 1530 | 1359 | 1429.8 | 2 ⅛ | 32 | M52 (2) | 138.4 | 138.2 | 1305 | 230 |
| 1300 | 52" | 1320.8 | 1580 | 1410 | 1479.6 | 2 ⅛ | 32 | M52 (2) | 142.9 | 142.9 | 1356 | 237 |
| 1350 | 54" | 1371.6 | 1660 | 1467 | 1549.4 | 2 ⅜ | 28 | M56 (2 ¼) | 150.9 | 150.9 | 1410 | 251 |
| 1400 | 56" | 1422.4 | 1710 | 1518 | 1600.2 | 2 ⅜ | 28 | M56 (2 ¼) | 152.4 | 152.4 | 1464 | 259 |
| 1450 | 58" | 1473.2 | 1760 | 1575 | 1651.0 | 2 ⅜ | 32 | M56 (2 ¼) | 157.2 | 157.2 | 1514 | 265 |
| 1500 | 60" | 1524.0 | 1810 | 1626 | 1701.8 | 2 ⅜ | 32 | M56 (2 ¼) | 162.0 | 162.0 | 1565 | 271 |



## AVAILABLE FLANGE TYPES




Welding Neck Flange(WN)




Blind Flange(BL)

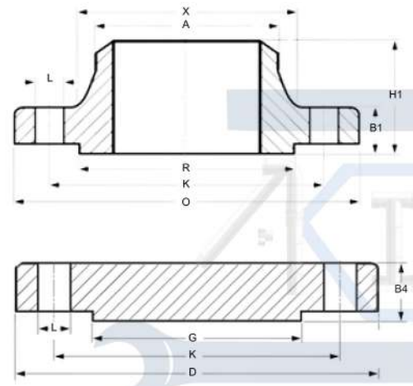
# ASME B16.47A

## TYPE A / CLASS 600

| Nominal Diameter | | Hub Diameter | O.D. of Flange | Diameter of Raised Face | Diameter of Bolt Holes Circle | Diameter of Bolt Holes | Numbers of Bolt Holes | Diameter of Bolt (inch) | Minimum Flange Thickness | | Hub Diameter | Through Hub Length |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DN | NPS | A | D | G, R | K | L | | | B1 | B4 | A | H1 |
| 650 | 26" | 660.4 | 1015 | 749 | 914.4 | 2 | 28 | M48 (1 ⅞) | 108.0 | 125.5 | 748 | 222 |
| 700 | 28" | 711.2 | 1075 | 800 | 965.2 | 2 ⅛ | 28 | M52 (2) | 111.2 | 131.8 | 803 | 235 |
| 750 | 30" | 762 | 1130 | 857 | 1022.4 | 2 ⅛ | 28 | M52 (2) | 114.3 | 139.7 | 862 | 248 |
| 800 | 32" | 812.8 | 1195 | 914 | 1079.5 | 2 ⅜ | 28 | M56 (2 ¼) | 117.5 | 148.0 | 918 | 260 |
| 850 | 34" | 863.6 | 1245 | 965 | 1130.3 | 2 ⅜ | 28 | M56 (2 ¼) | 120.7 | 154.0 | 973 | 270 |
| 900 | 36" | 914.4 | 1315 | 1022 | 1193.8 | 2 ⅝ | 28 | M64 (2 ½) | 123.9 | 162.0 | 1032 | 283 |
| 950 | 38" | 965.2 | 1270 | 1054 | 1162.0 | 2 ⅜ | 28 | M56 (2 ¼) | 152.4 | 155.0 | 1022 | 254 |
| 1000 | 40" | 1016.0 | 1320 | 1111 | 1212.8 | 2 ⅜ | 32 | M56 (2 ¼) | 158.8 | 162.0 | 1073 | 264 |
| 1050 | 42" | 1066.8 | 1405 | 1168 | 1282.7 | 2 ⅝ | 28 | M64 (2 ½) | 168.3 | 171.5 | 1127 | 279 |
| 1100 | 44" | 1117.6 | 1455 | 1226 | 1333.5 | 2 ⅝ | 32 | M64 (2 ½) | 173.1 | 177.8 | 1181 | 289 |
| 1150 | 46" | 1168.4 | 1510 | 1276 | 1390.6 | 2 ⅝ | 32 | M64 (2 ½) | 179.4 | 185.8 | 1235 | 300 |
| 1200 | 48" | 1219.20 | 1595 | 1334 | 1460.5 | 2 ⅞ | 32 | M70 (2 ¾) | 189.0 | 195.3 | 1289 | 316 |
| 1250 | 50" | 2700.0 | 1670 | 1384 | 1524.0 | 3 ⅛ | 28 | M76 (3) | 196.9 | 203.2 | 1343 | 329 |
| 1300 | 52" | 1320.8 | 1720 | 1435 | 1574.8 | 3 ⅛ | 32 | M76 (3) | 203.2 | 209.6 | 1394 | 337 |
| 1350 | 54" | 1371.6 | 1780 | 1492 | 1632.0 | 3 ⅛ | 32 | M76 (3) | 209.6 | 217.5 | 1448 | 349 |
| 1400 | 56" | 1422.4 | 1855 | 1543 | 1695.4 | 3 ⅜ | 32 | M82 (3 ¼) | 217.5 | 225.5 | 1502 | 362 |
| 1450 | 58" | 1473.2 | 1905 | 1600 | 1746.2 | 3 ⅜ | 32 | M82 (3 ¼) | 222.3 | 231.8 | 1553 | 370 |
| 1500 | 60" | 1524.0 | 1995 | 1657 | 1822.4 | 3 ⅝ | 28 | M82 (3 ¼) | 233.4 | 242.9 | 1610 | 389 |



## AVAILABLE FLANGE TYPES




Welding Neck Flange(WN)

Blind Flange(BL)

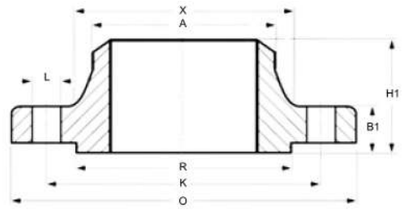
# TYPE A / CLASS 900

## ASME B16.47A

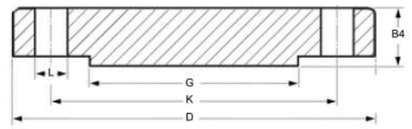
| Nominal Diameter | | Hub Diameter | O.D. of Flange | Diameter of Raised Face | Diameter of Bolt Holes Circle | Diameter of Bolt Holes | Numbers of Bolt Holes | Diameter of Bolt (inch) | Minimum Flange Thickness | | Hub Diameter | Through Hub Length |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DN | NPS | A | D | G, R | K | L | | | B1 | B4 | A | H1 |
| 650 | 26" | 660.4 | 1085 | 749 | 952.2 | 2 ⅞ | 20 | M70 (2 ¾) | 139.7 | 160.4 | 775 | 286 |
| 700 | 28" | 711.2 | 1170 | 800 | 1022.4 | 3 ⅛ | 20 | M76 (3) | 142.9 | 171.5 | 832 | 298 |
| 750 | 30" | 762 | 1230 | 857 | 1085.5 | 3 ⅛ | 20 | M76 (3) | 149.3 | 182.6 | 889 | 311 |
| 800 | 32" | 812.8 | 1315 | 914 | 1155.7 | 3 ⅜ | 20 | M82 (3 ¼) | 158.8 | 193.7 | 946 | 330 |
| 850 | 34" | 863.6 | 1395 | 965 | 1225.6 | 3 ⅝ | 20 | M90 (3 ½) | 165.1 | 204.8 | 1006 | 349 |
| 900 | 36" | 914.4 | 1460 | 1022 | 1289.0 | 3 ⅝ | 20 | M90 (3 ½) | 171.5 | 214.4 | 1064 | 362 |
| 950 | 38" | 965.2 | 1460 | 1099 | 1289.0 | 3 ⅝ | 20 | M90 (3 ½) | 190.5 | 215.9 | 1073 | 352 |
| 1000 | 40" | 1016.0 | 1510 | 1162 | 1339.8 | 3 ⅝ | 24 | M90 (3 ½) | 196.9 | 223.9 | 1127 | 364 |
| 1050 | 42" | 1066.8 | 1560 | 1213 | 1390.6 | 3 ⅝ | 24 | M90 (3 ½) | 206.4 | 231.8 | 1176 | 371 |
| 1100 | 44" | 1117.6 | 1650 | 1270 | 1463.7 | 3 ⅞ | 24 | M95 (3 ¾) | 214.4 | 242.9 | 1235 | 391 |
| 1150 | 46" | 1168.4 | 1735 | 1334 | 1536.7 | 4 ⅛ | 24 | M100 (4) | 225.5 | 255.6 | 1292 | 411 |
| 1200 | 48" | 1219.20 | 1735 | 1384 | 1587.5 | 4 ⅛ | 24 | M70 (2 ¾) | 233.4 | 263.6 | 1343 | 419 |



## AVAILABLE FLANGE TYPES




Welding Neck Flange(WN)




Blind Flange(BL)

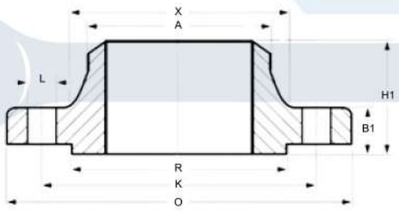
# ASME B16.47B

## TYPE B / CLASS 75

| Nominal Diameter | | Hub Diameter | O.D. of Flange | Diameter of Raised Face | Diameter of Bolt Holes Circle | Diameter of Bolt Holes | Numbers of Bolt Holes | Diameter of Bolt (inch) | Minimum Flange Thickness | | Hub Diameter | Through Hub Length |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DN | NPS | A | D | R | K | L | | | B1 | B2 | A | H1 |
| 650 | 26" | 661.9 | 760 | 705 | 723.9 | ¾ | 36 | M16 (⅝) | 31.9 | 31.9 | 676 | 57 |
| 700 | 28" | 712.7 | 815 | 756 | 744.7 | ¾ | 40 | M16 (⅝) | 31.9 | 31.9 | 727 | 60 |
| 750 | 30" | 763.5 | 865 | 806 | 825.5 | ¾ | 44 | M16 (⅝) | 31.9 | 31.9 | 778 | 64 |
| 800 | 32" | 814.3 | 915 | 857 | 876.3 | ¾ | 48 | M16 (⅝) | 33.5 | 35.0 | 829 | 68 |
| 850 | 34" | 865.1 | 965 | 908 | 927.1 | ¾ | 52 | M16 (⅝) | 33.5 | 36.6 | 879 | 72 |
| 900 | 36" | 915.9 | 1035 | 965 | 992.2 | ⅞ | 40 | M20 (¾) | 35.0 | 40.9 | 935 | 84 |
| 950 | 38" | 966.7 | 1085 | 1016 | 1043.0 | ⅞ | 40 | M20 (¾) | 36.6 | 43.0 | 986 | 87 |
| 1000 | 40" | 1017.5 | 1135 | 1067 | 1093.8 | ⅞ | 44 | M20 (¾) | 36.6 | 43.0 | 1037 | 91 |
| 1050 | 42" | 1068.3 | 1185 | 1118 | 1144.6 | ⅞ | 48 | M20 (¾) | 38.2 | 46.3 | 1087 | 94 |
| 1100 | 44" | 1119.1 | 1250 | 1175 | 1203.3 | 1 | 36 | M24 (⅞) | 41.4 | 47.7 | 1140 | 103 |
| 1150 | 46" | 1169.9 | 1300 | 1226 | 1254.1 | 1 | 40 | M24 (⅞) | 43.0 | 49.3 | 1191 | 106 |
| 1200 | 48" | 1220.7 | 1355 | 1276 | 1304.9 | 1 | 44 | M24 (⅞) | 44.6 | 52.5 | 1241 | 110 |
| 1250 | 50" | 1271.5 | 1405 | 1327 | 1355.7 | 1 | 44 | M24 (⅞) | 46.2 | 54.1 | 1294 | 114 |
| 1300 | 52" | 1322.3 | 1455 | 1378 | 1409.7 | 1 | 48 | M24 (⅞) | 44.2 | 55.7 | 1345 | 119 |
| 1350 | 54" | 1373.1 | 1510 | 1429 | 1406.5 | 1 | 48 | M24 (⅞) | 47.8 | 58.9 | 1397 | 124 |
| 1400 | 56" | 1423.9 | 1575 | 1486 | 1520.8 | 1 ⅛ | 40 | M27 (1) | 49.3 | 60.4 | 1451 | 133 |
| 1450 | 58" | 1474.7 | 1625 | 1537 | 1571.6 | 1 ⅛ | 44 | M27 (1) | 50.9 | 62.0 | 1502 | 137 |
| 1500 | 60" | 1525.5 | 1675 | 1588 | 1622.4 | 1 ⅛ | 44 | M27 (1) | 54.1 | 65.2 | 1553 | 143 |



## AVAILABLE FLANGE TYPES




Welding Neck Flange(WN)

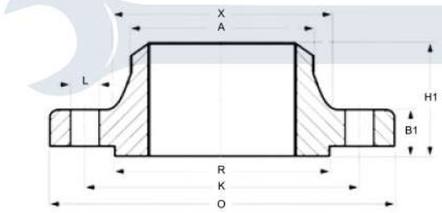
# ASME B16.47B

## TYPE B / CLASS 150

| Nominal Diameter | | Hub Diameter | O.D. of Flange | Diameter of Raised Face | Diameter of Bolt Holes Circle | Diameter of Bolt Holes | Numbers of Bolt Holes | Diameter of Bolt (inch) | Minimum Flange Thickness | | Hub Diameter | Through Hub Length |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DN | NPS | A | D | R | K | L | | | B1 | B2 | A | H1 |
| 650 | 26" | 661.9 | 785 | 711 | 744.5 | ⅞ | 36 | M20 (¾) | 39.8 | 43.0 | 684 | 87 |
| 700 | 28" | 712.7 | 835 | 762 | 795.3 | ⅞ | 40 | M20 (¾) | 43.0 | 46.2 | 735 | 94 |
| 750 | 30" | 763.5 | 885 | 813 | 846.1 | ⅞ | 44 | M20 (¾) | 43.0 | 49.3 | 787 | 98 |
| 800 | 32" | 814.3 | 940 | 864 | 900.1 | ⅞ | 48 | M20 (¾) | 44.6 | 52.5 | 840 | 106 |
| 850 | 34" | 865.1 | 1005 | 921 | 957.3 | 1 | 40 | M24 (⅞) | 47.7 | 55.7 | 892 | 109 |
| 900 | 36" | 915.9 | 1055 | 972 | 1009.6 | 1 | 44 | M24 (⅞) | 50.9 | 57.3 | 945 | 116 |
| 950 | 38" | 966.7 | 1124 | 1022 | 1070.0 | 1 ⅛ | 40 | M27 (1) | 52.9 | 62.0 | 997 | 122 |
| 1000 | 40" | 1017.5 | 1175 | 1080 | 1120.8 | 1 ⅛ | 44 | M27 (1) | 54.1 | 65.2 | 1049 | 127 |
| 1050 | 42" | 1068.3 | 1225 | 1130 | 1171.6 | 1 ⅛ | 48 | M27 (1) | 57.3 | 66.8 | 1102 | 132 |
| 1100 | 44" | 1119.1 | 1275 | 1181 | 1222.4 | 1 ⅛ | 52 | M27 (1) | 58.9 | 70.0 | 1153 | 135 |
| 1150 | 46" | 1169.9 | 1340 | 1235 | 1284.3 | 1 ¼ | 40 | M30 (1 ⅛) | 60.4 | 73.1 | 1205 | 143 |
| 1200 | 48" | 1220.7 | 1390 | 1289 | 1335.1 | 1 ¼ | 44 | M30 (1 ⅛) | 63.6 | 76.3 | 1257 | 148 |
| 1250 | 50" | 1271.5 | 1445 | 1340 | 1385.9 | 1 ¼ | 48 | M30 (1 ⅛) | 66.8 | 79.5 | 1308 | 152 |
| 1300 | 52" | 1322.3 | 1495 | 1391 | 1436.7 | 1 ¼ | 52 | M30 (1 ⅛) | 68.4 | 82.7 | 1360 | 156 |
| 1350 | 54" | 1373.1 | 1550 | 1441 | 1492.2 | 1 ¼ | 56 | M30 (1 ⅛) | 70.0 | 85.8 | 1413 | 160 |
| 1400 | 56" | 1423.9 | 1600 | 1492 | 1543.0 | 1 ¼ | 60 | M30 (1 ⅛) | 71.6 | 89.0 | 1465 | 165 |
| 1450 | 58" | 1474.7 | 1675 | 1543 | 1611.3 | 1 ⅜ | 48 | M33 (1 ¼) | 73.1 | 91.9 | 1516 | 173 |
| 1500 | 60" | 1525.5 | 1725 | 1600 | 1662.1 | 1 ⅜ | 52 | M33 (1 ¼) | 74.7 | 95.4 | 1570 | 178 |



## AVAILABLE FLANGE TYPES




Welding Neck Flange(WN)

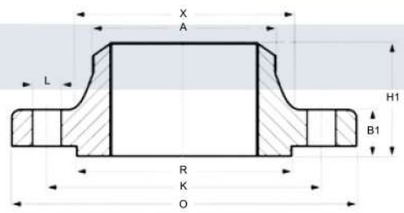
# ASME B16.47B

## TYPE B / CLASS 300

| Nominal Diameter | | Hub Diameter | O.D. of Flange | Diameter of Raised Face | Diameter of Bolt Holes Circle | Diameter of Bolt Holes | Numbers of Bolt Holes | Diameter of Bolt (inch) | Minimum Flange Thickness | | Hub Diameter | Through Hub Length |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DN | NPS | A | D | R | K | L | | | B1 | B2 | A | H1 |
| 650 | 26" | 665.2 | 865 | 737 | 803.3 | 1 ⅜ | 32 | M33 (1 ¼) | 87.4 | 87.4 | 702 | 168 |
| 700 | 28" | 716.0 | 920 | 787 | 857.2 | 1 ⅜ | 36 | M33 (1 ¼) | 87.4 | 87.4 | 756 | 148 |
| 750 | 30" | 768.4 | 990 | 845 | 920.8 | 1 ½ | 36 | M36 (1 ⅜) | 92.1 | 92.1 | 813 | 156 |
| 800 | 32" | 819.2 | 1055 | 902 | 977.9 | 1 ⅝ | 32 | M39 (1 ½) | 101.6 | 101.6 | 864 | 167 |
| 850 | 34" | 870.0 | 1110 | 953 | 1031.9 | 1 ⅝ | 36 | M39 (1 ½) | 101.6 | 101.6 | 918 | 171 |
| 900 | 36" | 920.8 | 1170 | 1010 | 1089.0 | 1 ¾ | 32 | M42 (1 ⅝) | 101.6 | 101.6 | 965 | 179 |
| 950 | 38" | 971.6 | 1220 | 1060 | 1139.8 | 1 ¾ | 36 | M42 (1 ⅝) | 109.6 | 109.6 | 1016 | 165 |
| 1000 | 40" | 1022.4 | 1275 | 1114 | 1190.6 | 1 ¾ | 40 | M42 (1 ⅝) | 114.3 | 114.3 | 1067 | 197 |
| 1050 | 42" | 1074.7 | 1335 | 1168 | 1244.6 | 1 ⅞ | 36 | M45 (1 ¾) | 117.5 | 117.5 | 1118 | 203 |
| 1100 | 44" | 1125.5 | 1385 | 1219 | 1295.4 | 1 ⅞ | 40 | M45 (1 ¾) | 125.5 | 125.5 | 1173 | 213 |
| 1150 | 46" | 1176.3 | 1460 | 1270 | 1365.2 | 2 | 36 | M48 (1 ⅞) | 127.0 | 128.6 | 1229 | 221 |
| 1200 | 48" | 1227.1 | 1510 | 1327 | 1416.0 | 2 | 40 | M48 (1 ⅞) | 127.0 | 133.4 | 1278 | 222 |
| 1250 | 50" | 1277.9 | 1560 | 1378 | 1466.8 | 2 | 44 | M48 (1 ⅞) | 136.6 | 138.2 | 1330 | 233 |
| 1300 | 52" | 1328.7 | 1615 | 1429 | 1517.6 | 2 | 48 | M48 (1 ⅞) | 141.3 | 142.6 | 1383 | 241 |
| 1350 | 54" | 1379.5 | 1675 | 1480 | 1578.0 | 2 | 48 | M48 (1 ⅞) | 145.0 | 147.7 | 1435 | 238 |
| 1400 | 56" | 1430.3 | 1765 | 1537 | 1651.0 | 2 ⅜ | 36 | M56 (2 ¼) | 152.4 | 155.4 | 1494 | 267 |
| 1450 | 58" | 1481.1 | 1825 | 1594 | 1712.9 | 2 ⅜ | 40 | M56 (2 ¼) | 152.4 | 160.4 | 1548 | 273 |
| 1500 | 60" | 1557.3 | 1880 | 1651 | 1763.7 | 2 ⅜ | 40 | M56 (2 ¼) | 149.3 | 165.1 | 1599 | 270 |



## AVAILABLE FLANGE TYPES



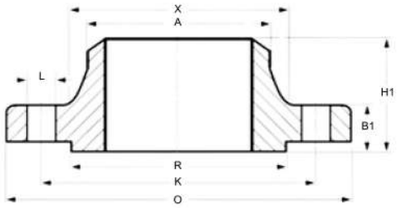

Welding Neck Flange(WN)

# ASME B16.47B

## TYPE B / CLASS 600

| Nominal Diameter | | Hub Diameter | O.D. of Flange | Diameter of Raised Face | Diameter of Bolt Holes Circle | Diameter of Bolt Holes | Numbers of Bolt Holes | Diameter of Bolt (inch) | Minimum Flange Thickness | | Hub Diameter | Through Hub Length |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DN | NPS | A | D | R | K | L | | | B1 | B2 | A | H1 |
| 650 | 26" | 660.4 | 890 | 727 | 806.4 | 1 ¾ | 28 | M42 (1 ⅝) | 111.2 | 111.3 | 698 | 181 |
| 700 | 28" | 711.2 | 950 | 784 | 863.6 | 1 ⅜ | 28 | M45 (1 ¾) | 115.9 | 125.9 | 752 | 190 |
| 750 | 30" | 762 | 1020 | 841 | 927.1 | 2 | 28 | M48 (1 ⅞) | 125.5 | 127.0 | 806 | 205 |
| 800 | 32" | 812.8 | 1085 | 985 | 984.2 | 2 ⅛ | 28 | M52 (2) | 130.2 | 134.9 | 860 | 216 |
| 850 | 34" | 863.6 | 1160 | 953 | 1054.1 | 3 ⅜ | 24 | M56 (2 ¼) | 141.3 | 144.2 | 914 | 233 |
| 900 | 36" | 914.4 | 1215 | 1010 | 1104.9 | 2 ⅝ | 28 | M56 (2 ¼) | 146.1 | 150.9 | 968 | 243 |

## AVAILABLE FLANGE TYPES



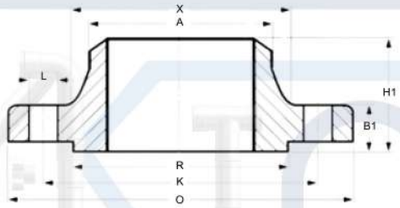

Welding Neck Flange(WN)



## TYPE B / CLASS 900

| Nominal Diameter | | Hub Diameter | O.D. of Flange | Diameter of Raised Face | Diameter of Bolt Holes Circle | Diameter of Bolt Holes | Numbers of Bolt Holes | Diameter of Bolt (inch) | Minimum Flange Thickness | | Hub Diameter | Through Hub Length |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DN | NPS | A | D | R | K | L | | | B1 | B2 | A | H1 |
| 650 | 26" | 660.4 | 1020 | 762 | 901.7 | 2 ⅝ | 20 | M64 (2 ½) | 135.0 | 154.0 | 743 | 259 |
| 700 | 28" | 711.2 | 1105 | 819 | 971.6 | 2 ⅞ | 20 | M72 (2 ¾) | 147.7 | 166.7 | 797 | 276 |
| 750 | 30" | 762 | 1180 | 876 | 1035.0 | 3 ⅛ | 20 | M76 (3) | 155.6 | 176.1 | 851 | 289 |
| 800 | 32" | 812.8 | 1240 | 927 | 1092.2 | 3 ⅛ | 20 | M76 (3) | 160.4 | 186.0 | 908 | 303 |
| 850 | 34" | 863.6 | 1315 | 991 | 1155.7 | 3 ⅜ | 20 | M85 (3 ¼) | 171.5 | 195.0 | 962 | 319 |
| 900 | 36" | 914.4 | 1345 | 1029 | 1200.2 | 3 ⅛ | 24 | M76 (3) | 173.1 | 201.7 | 1016 | 325 |

## AVAILABLE FLANGE TYPES




Welding Neck Flange(WN)

# ASME B16.5

## DIMENSION TOLERANCE

Thread Flange
Socket-Welding Flange
Slip-on Flange
Lap-Joint Flange
Blind Flanges

| Dimensions | | | Tolerance |
|---|---|---|---|
| Outside Diameter | O.D. ≤ 24" | | ± 1/16" (16mm) |
| | O.D. >24 | | ± 1/8" (3.2mm) |
| Inside Diameter | Threaded | | Within limits of boring gauge |
| | Socket-Welding<br>Slip-on<br>Lap Joint | ≤ 10" | + 1/32'' (0.8mm) / - 0'' |
| | | ≥ 12" | +1/16'' (1.6mm) / - 0 |
| Hub Outside Diameter | ≤ 12'' | | ± 3/32" (2.4mm)<br>-1/16" (1.6mm) |
| | ≥ 14'' | | ± 1/8'' (3.2mm) |
| Diameter of Contact Face | 1/16" Raised Face | | ± 1/32" (0.8mm) |
| | 1/4" Raised Face | | ± 1/64" (0.4mm) |
| Diameter of Counterbore | Same for Inside Diameter | | |
| Drilling | Bolt Circle | | ± 1/16" (1.6mm) |
| | Bolt Hole Spacing | | ± 1/32" (0.8mm) |
| | Eccentricity of Bolt Circle with Respect to Facing | ≤ 2 1/2" | 1/32" (0.8mm) max |
| | | ≥ 3" | 1/16" (1.6mm) max |
| Thickness | ≤ 18" | | +1/8" (3.2mm) / - 0" |
| | ≥ 20" | | +3/16" (4.8mm) / - 0 |
| Length Through Hub | ≤ 18" | | +1/8"(3.2mm)<br>-1/32" (0.8mm) |
| | ≥ 20" | | +3/16" (4.8mm)<br>-1/16" (1.6mm) |

# ASME B16.5

## DIMENSION TOLERANCE

Welding Neck Flange

| Dimensions | | Tolerance |
|---|---|---|
| Outside Diameter | O.D. ≤ 24" | ± 1/16" (1.6mm) |
| | O.D. >24 | ± 1/8" (3.2mm) |
| Inside Diameter | ≤ 10" | ± 1/32" (0.8mm) |
| | 12" - 18" | ± 1/16" (16mm) |
| | ≥ 20" | +1/8" (3.2mm)<br>-1/16" (1.6mm) |
| Diameter of Contact Face | 1/16" Raised Face | ± 1/32" (0.8mm) |
| | 1/4" Raised Face | ± 1/64" (0.4mm) |
| Diameter of Hub at Base | ≤ 24" | ± 1/6" (1.6mm) |
| | >24 | ± 1/8" (3.2mm) |
| Diameter of Hub at Point of Welding | ≤ 5" | +3/32" (4.0mm)<br>-1/32" (0.8mm) |
| | ≥ 6" | +5/32" (4.0mm)<br>-1/32" (0.8mm) |
| Drilling | Bolt Circle | ± 1/16" (1.6mm) |
| | Bolt Hole Spacing | ± 1/32" (0.8mm) |
| | Eccentricity of Bolt Circle with Respect to Facing | 1/32" (0.8mm) max |
| | | 1/16" (1.6mm) max |
| Thickness | ≤ 18" | +1/8" (3.2mm) / - 0" |
| | ≥ 20" | +3/16" (4.8mm) / - 0 |
| Length Through Hub | ≤ 18" | +1/8"(3.2mm)<br>-1/32" (0.8mm) |
| | ≥ 20" | +3/16" (4.8mm)<br>-1/16" (1.6mm) |

# ASME B16.47

## DIMENSION TOLERANCE

| Dimensions | | Tolerance |
|---|---|---|
| Outside Diameter | | +5mm / -2mm |
| Bore | Without Backing Rings | +3.0mm / -2.0mm |
| | With Backing Rings | +0mm / -2.0mm |
| Backing Ring Contact Furface | With Backing Rings | +0.25 mm / -0mm |
| Diameter of Contact Face | | ± 2.0mm |
| Raised Face | 2mm | ± 0.5mm |
| | 7mm | ± 2.0mm |
| Diameter of Hub at Base | | ± 3.0mm |
| Hub Thickness | | no less than 87.5% of the nominal pipe thickness |
| Diameter of Hub at Point of Welding | | +5.0mm / -2.0mm |
| Drilling | Bolt Circle Diameter | ± 1.5mm |
| | Bolt Hot to Bolt Hole | ± 0.8mm |
| | Bolt Circle Concentricity | 1.5 max |
| Thickness | ≤ 25" | +3.0mm / -0mm |
| | >25" to ≤ 50" | +5.0mm / -0mm |
| | >50" to ≤ 75" | +8.0mm / -0mm |
| | >75" | +10mm / -0mm |
| Length Through Hub | | +3.0mm / -5.0mm |




**Precision Fittings, Seamless Connection.**

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