

Robert-James Sales, Inc.

ASME B16.47 Ser. A, Ser. B
INDUSTRY STANDARD
and AWWA Flanges

Weld Neck, Slip-On, Blind.

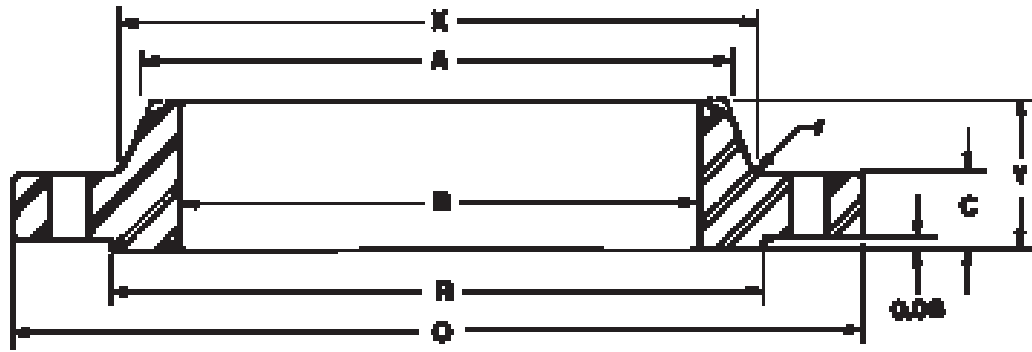
Class 150 to Class 900

The following section is in order by pressure class due to the overlapping dimensions of some standards.

Simply turn to the pressure class required and find the dimensional standard of your choice.

Class 75

B16.47, Ser. B (formerly API-605)

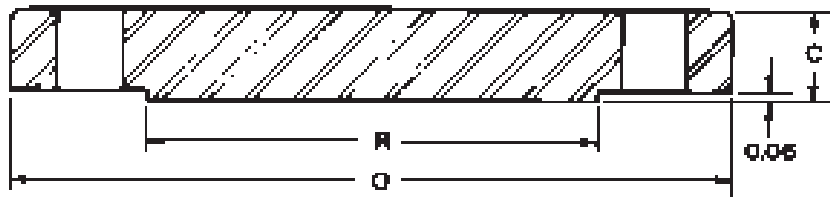


WELDING NECK

| Nominal Size | Outside Dia. O | Thickness C | | Raised Face Dia. R | Fillet Radius r | Bore B | Length Thru Hub Y | Dia. Hub at Bevel A | Hub Dia. X |
|--------------|----------------|--------------|-------|--------------------|-----------------|-------------------------------|-------------------|---------------------|------------|
| | | Welding Neck | Blind | | | | | | |
| 26 | 30.00 | 1.31 | 1.31 | 27.75 | 0.31 | To be specified by purchaser. | 2.31 | 26.06 | 26.62 |
| 28 | 32.00 | 1.31 | 1.31 | 29.75 | 0.31 | | 2.44 | 28.06 | 28.62 |
| 30 | 34.00 | 1.31 | 1.31 | 31.75 | 0.31 | | 2.56 | 30.06 | 30.62 |
| 32 | 36.00 | 1.38 | 1.44 | 33.75 | 0.31 | | 2.75 | 32.06 | 32.62 |
| 34 | 38.00 | 1.38 | 1.50 | 35.75 | 0.31 | | 2.88 | 34.06 | 34.62 |
| 36 | 40.69 | 1.44 | 1.67 | 38.00 | 0.38 | | 3.38 | 36.06 | 36.81 |
| 38 | 42.69 | 1.50 | 1.75 | 40.00 | 0.38 | | 3.50 | 38.06 | 38.81 |
| 40 | 44.69 | 1.50 | 1.75 | 42.00 | 0.38 | | 3.62 | 40.06 | 40.81 |
| 42 | 46.69 | 1.56 | 1.88 | 44.00 | 0.38 | | 3.75 | 42.06 | 42.81 |
| 44 | 49.25 | 1.69 | 1.94 | 46.25 | 0.38 | | 4.12 | 44.06 | 44.88 |
| 46 | 51.25 | 1.75 | 2.00 | 48.25 | 0.38 | | 4.25 | 46.06 | 46.88 |
| 48 | 53.25 | 1.81 | 2.12 | 50.25 | 0.38 | | 4.38 | 48.06 | 48.88 |
| 50 | 55.25 | 1.88 | 2.18 | 52.25 | 0.38 | | 4.56 | 50.06 | 50.94 |
| 52 | 57.38 | 1.88 | 2.25 | 54.25 | 0.38 | | 4.75 | 52.06 | 52.94 |
| 54 | 59.38 | 1.94 | 2.38 | 56.25 | 0.38 | | 4.94 | 54.06 | 55.00 |
| 56 | 62.00 | 2.00 | 2.44 | 58.50 | 0.44 | | 5.31 | 56.06 | 57.12 |
| 58 | 64.00 | 2.06 | 2.50 | 60.50 | 0.44 | 5.44 | 58.06 | 59.12 | |
| 60 | 66.00 | 2.19 | 2.62 | 62.50 | 0.44 | 5.69 | 60.06 | 61.12 | |

Class 75

B16.47, Ser. B

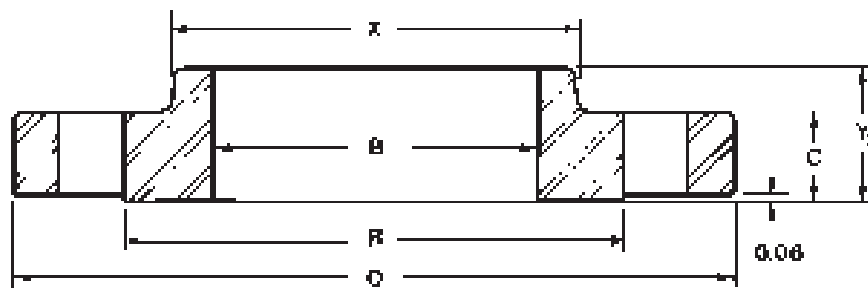


BLIND

| Drilling | | | Approx. Weight | | Nominal Size |
|-------------|------------|-----------|----------------|-------|--------------|
| Bolt Circle | Dia. Holes | No. Holes | Welding Neck | Blind | |
| 28.50 | 0.75 | 36 | 80 | 225 | 26 |
| 30.50 | 0.75 | 40 | 80 | 290 | 28 |
| 32.50 | 0.75 | 44 | 90 | 330 | 30 |
| 34.50 | 0.75 | 48 | 105 | 390 | 32 |
| 36.50 | 0.75 | 52 | 110 | 430 | 34 |
| 39.06 | 0.88 | 40 | 145 | 518 | 36 |
| 41.06 | 0.88 | 40 | 160 | 595 | 38 |
| 43.06 | 0.88 | 44 | 170 | 760 | 40 |
| 45.06 | 0.88 | 48 | 185 | 895 | 42 |
| 47.38 | 1.00 | 36 | 230 | 1065 | 44 |
| 49.38 | 1.00 | 40 | 245 | 1185 | 46 |
| 51.38 | 1.00 | 44 | 270 | 1315 | 48 |
| 53.38 | 1.00 | 44 | 290 | 1505 | 50 |
| 55.50 | 1.00 | 48 | 310 | 1665 | 52 |
| 57.50 | 1.00 | 48 | 340 | 1840 | 54 |
| 59.88 | 1.12 | 40 | 400 | 2110 | 56 |
| 61.88 | 1.12 | 44 | 430 | 2300 | 58 |
| 63.88 | 1.12 | 44 | 475 | 2500 | 60 |

Class 75

INDUSTRY STANDARD

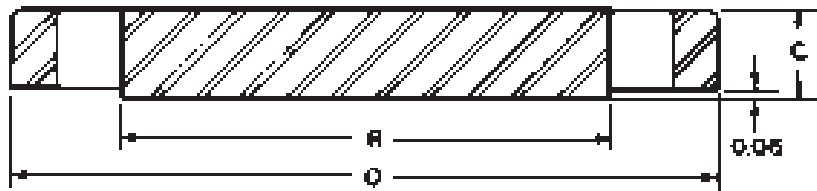


SLIP-ON

| Nominal Size | Outside Dia. O | Thickness C | | O.D. Raised Face R | Dia. at Base of Hub X | Bore B | Length Thru Hub Y |
|--------------|----------------|-------------|-------|--------------------|-----------------------|--------|-------------------|
| | | Slip-On | Blind | | | | |
| 26 | 33.00 | 1.25 | 1.25 | 30.00 | 28.50 | 26.25 | 2.25 |
| 28 | 35.00 | 1.25 | 1.38 | 32.00 | 30.50 | 28.25 | 2.25 |
| 30 | 37.00 | 1.25 | 1.38 | 34.00 | 32.50 | 30.25 | 2.25 |
| 32 | 39.50 | 1.25 | 1.50 | 36.25 | 34.63 | 32.25 | 2.50 |
| 34 | 41.50 | 1.25 | 1.63 | 38.25 | 36.63 | 34.25 | 2.50 |
| 36 | 43.50 | 1.25 | 1.63 | 40.25 | 38.63 | 36.25 | 2.50 |
| 42 | 50.00 | 1.25 | 1.88 | 46.50 | 44.75 | 42.25 | 2.75 |
| 48 | 56.00 | 1.25 | 2.13 | 52.50 | 50.75 | 48.25 | 2.88 |
| 54 | 62.50 | 1.38 | 2.38 | 59.00 | 57.25 | 54.25 | 3.13 |
| 60 | 68.50 | 1.63 | 2.63 | 65.00 | 63.25 | 60.25 | 3.63 |
| 66 | 75.50 | 1.75 | 2.88 | 71.63 | 69.50 | 66.25 | 4.00 |
| 72 | 81.50 | 2.00 | 3.13 | 77.63 | 75.50 | 72.25 | 4.50 |

Class 75

INDUSTRY STANDARD

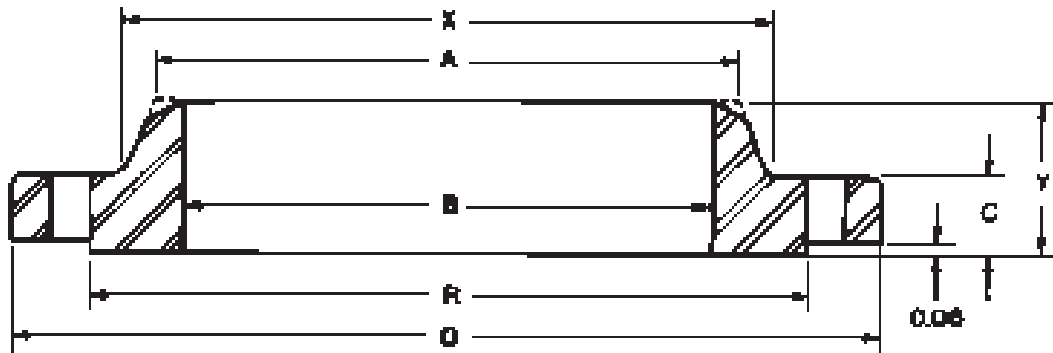


BLIND

| Drilling | | | Approx. Weight | | Nominal Size |
|------------------|------------|-----------|----------------|-------|--------------|
| Bolt Circle Dia. | Dia. Holes | No. Holes | Slip-On | Blind | |
| 31.00 | 1.00 | 32 | 120 | 290 | 26 |
| 33.00 | 1.00 | 36 | 140 | 360 | 28 |
| 35.00 | 1.00 | 36 | 150 | 405 | 30 |
| 37.38 | 1.13 | 40 | 170 | 500 | 32 |
| 39.38 | 1.13 | 40 | 180 | 600 | 34 |
| 41.38 | 1.13 | 44 | 190 | 660 | 36 |
| 47.75 | 1.25 | 48 | 235 | 1000 | 42 |
| 53.75 | 1.25 | 56 | 270 | 1450 | 48 |
| 60.25 | 1.25 | 68 | 335 | 2000 | 54 |
| 66.25 | 1.25 | 72 | 450 | 2675 | 60 |
| 73.00 | 1.38 | 72 | 590 | 3550 | 66 |
| 79.00 | 1.38 | 80 | 730 | 4500 | 72 |

Class 75

INDUSTRY STANDARD

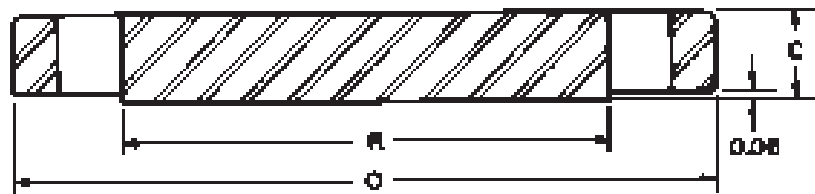


WELDING NECK

| Nominal Size | Outside Dia. O | Thickness C | | O.D. Raised Face R | Dia. at Base of Hub X | Bore B | Length Thru Hub Y | Dia. Hub at Bevel A |
|--------------|----------------|--------------|-------|--------------------|-----------------------|-------------------------------|-------------------|-------------------------------|
| | | Welding Neck | Blind | | | | | |
| 26 | 31.50 | 1.15 | 1.25 | 28.63 | 27.13 | To be specified by purchaser. | 3.00 | To be specified by purchaser. |
| 28 | 33.50 | 1.25 | 1.25 | 30.63 | 29.13 | | 3.00 | |
| 30 | 35.50 | 1.25 | 1.38 | 32.63 | 31.13 | | 3.00 | |
| 32 | 38.25 | 1.25 | 1.50 | 35.00 | 33.38 | | 3.25 | |
| 34 | 40.25 | 1.25 | 1.50 | 37.00 | 35.38 | | 3.25 | |
| 36 | 42.25 | 1.25 | 1.63 | 39.00 | 37.38 | | 3.25 | |
| 42 | 49.00 | 1.25 | 1.88 | 45.50 | 43.75 | | 3.50 | |
| 48 | 55.00 | 1.25 | 2.13 | 51.50 | 49.75 | | 3.75 | |
| 54 | 61.25 | 1.38 | 2.38 | 57.75 | 56.00 | | 4.00 | |
| 60 | 67.25 | 1.63 | 2.63 | 63.75 | 62.00 | | 4.38 | |
| 66 | 74.00 | 1.88 | 2.88 | 70.13 | 68.00 | | 4.88 | |
| 72 | 80.00 | 2.25 | 3.13 | 76.13 | 74.00 | | 5.25 | |

Class 75

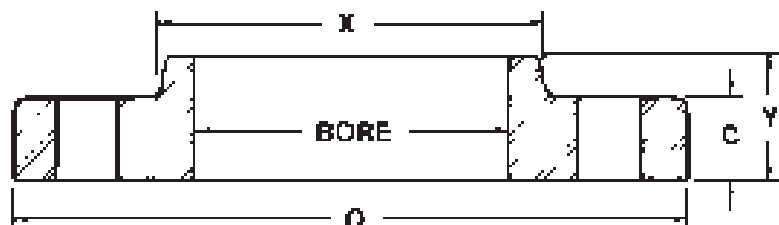
INDUSTRY STANDARD



BLIND

| Drilling | | | Approx. Weight | | Nominal Size |
|-------------|------------|-----------|----------------|-------|--------------|
| Bolt Circle | Dia. Holes | No. Holes | Welding Neck | Blind | |
| 29.63 | 1.00 | 32 | 98 | 265 | 26 |
| 31.63 | 1.00 | 36 | 105 | 300 | 28 |
| 33.63 | 1.00 | 36 | 110 | 370 | 30 |
| 36.13 | 1.13 | 36 | 140 | 470 | 32 |
| 38.13 | 1.13 | 40 | 150 | 520 | 34 |
| 40.13 | 1.13 | 40 | 160 | 620 | 36 |
| 46.75 | 1.25 | 48 | 210 | 970 | 42 |
| 52.75 | 1.25 | 52 | 240 | 1375 | 48 |
| 59.00 | 1.25 | 64 | 310 | 1925 | 54 |
| 65.00 | 1.25 | 72 | 400 | 2575 | 60 |
| 71.50 | 1.38 | 72 | 560 | 3400 | 66 |
| 77.50 | 1.38 | 80 | 700 | 4350 | 72 |

Class 125 LW, AWWA C207 CLASSES B, D



SLIP-ON

| Nominal Size | Outside Dia. O | Thickness C | | | Hub Dia. X | Bore | Length Thru Hub |
|--------------|----------------|----------------------|------|------|------------|-------|-----------------|
| | | Slip-On 125 LW, B, D | B | D | X | | Y ₂ |
| 6 | 11.00 | 0.56 | 0.69 | 0.69 | 7.56 | 6.72 | 1.25 |
| 8 | 13.50 | 0.56 | 0.69 | 0.69 | 9.68 | 8.72 | 1.25 |
| 10 | 16.00 | 0.68 | 0.69 | 0.69 | 12.00 | 10.88 | 1.25 |
| 12 | 19.00 | 0.68 | 0.69 | 0.81 | 14.38 | 12.88 | 1.25 |
| 14 | 21.00 | 0.75 | 0.69 | 0.94 | 15.75 | 14.14 | 1.25 |
| 16 | 23.50 | 0.75 | 0.69 | 1.00 | 18.00 | 16.16 | 1.25 |
| 18 | 25.00 | 0.75 | 0.69 | 1.06 | 19.88 | 18.18 | 1.25 |
| 20 | 27.50 | 0.75 | 0.69 | 1.13 | 22.00 | 20.20 | 1.25 |
| 22 | 29.50 | 1.00 | 0.75 | 1.19 | 24.25 | 22.22 | 1.75 |
| 24 | 32.00 | 1.00 | 0.75 | 1.25 | 26.13 | 24.25 | 1.75 |
| 26 | 34.25 | 1.00 | 0.81 | 1.31 | 28.50 | 26.25 | 1.75 |
| 28 | 36.50 | 1.00 | 0.88 | 1.31 | 30.50 | 28.25 | 1.75 |
| 30 | 38.75 | 1.00 | 0.88 | 1.38 | 32.50 | 30.25 | 1.75 |
| 32 | 41.75 | 1.13 | 0.94 | 1.50 | 34.75 | 32.25 | 1.75 |
| 34 | 43.75 | 1.13 | 0.94 | 1.50 | 36.75 | 34.25 | 1.75 |
| 36 | 46.00 | 1.13 | 1.00 | 1.63 | 38.75 | 36.25 | 1.75 |
| 38 | 48.75 | 1.13 | 1.00 | 1.63 | 40.75 | 38.25 | 1.75 |
| 40 | 50.75 | 1.13 | 1.00 | 1.63 | 43.00 | 40.25 | 1.75 |
| 42 | 53.00 | 1.25 | 1.13 | 1.75 | 45.00 | 42.25 | 1.75 |
| 44 | 55.25 | 1.25 | 1.13 | 1.75 | 47.00 | 44.25 | 2.25 |
| 46 | 57.25 | 1.25 | 1.13 | 1.75 | 49.00 | 46.25 | 2.25 |
| 48 | 59.50 | 1.38 | 1.25 | 1.75 | 51.00 | 48.25 | 2.50 |
| 50 | 61.75 | 1.38 | 1.25 | 2.00 | 53.00 | 50.25 | 2.50 |
| 52 | 64.00 | 1.38 | 1.25 | 2.00 | 55.00 | 52.25 | 2.50 |
| 54 | 66.25 | 1.38 | 1.33 | 2.13 | 57.00 | 54.25 | 2.50 |
| 60 | 73.00 | 1.50 | 1.50 | 2.25 | 63.00 | 60.25 | 2.75 |
| 66 | 80.00 | 1.50 | 1.63 | 2.50 | 69.00 | 66.25 | 2.75 |
| 72 | 86.50 | 1.50 | 1.75 | 2.63 | 75.00 | 72.25 | 2.75 |
| 84 | 99.75 | 1.75 | 2.00 | 2.75 | 87.50 | 84.25 | 3.00 |
| 96 | 113.25 | 2.00 | 2.25 | 3.00 | 100.00 | 96.25 | 3.25 |

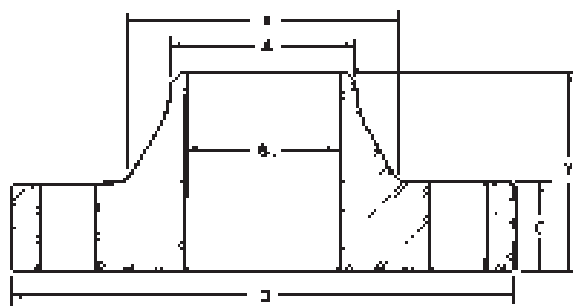
Class 125 LW, AWWA C207 CLASSES B, D



RING

| Drilling | | | | Approx. Weight | | | Nominal Size |
|-------------|----------------|-------------|-----------|-----------------------------|-----------|------|--------------|
| Bolt Circle | Bolt Hole Dia. | | No. Holes | Slip-On 125 LW, B & D | Ring | | |
| | B | 125 LW D | | | Size B | D | |
| 9.50 | 3/4 | 0.88 | 8 | 13 | 11 | 12 | 6 |
| 11.75 | 3/4 | 0.88 | 8 | 18 | 14 | 15 | 8 |
| 14.25 | 3/4 | 1.00 | 12 | 26 | 20 | 20 | 10 |
| 17.00 | 3/4 | 1.00 | 12 | 42 | 30 | 33 | 12 |
| 18.75 | 7/8 | 1.13 | 12 | 44 | 36 | 50 | 14 |
| 21.25 | 7/8 | 1.13 | 16 | 58 | 43 | 60 | 16 |
| 22.75 | 7/8 | 1.25 | 16 | 59 | 45 | 65 | 18 |
| 25.00 | 7/8 | 1.25 | 20 | 69 | 50 | 80 | 20 |
| 27.25 | 7/8 | 1.38 | 20 | 76 | 60 | 90 | 22 |
| 29.50 | 7/8 | 1.38 | 20 | 115 | 70 | 110 | 24 |
| 31.75 | 7/8 | 1.38 | 24 | 125 | 85 | 130 | 26 |
| 34.00 | 7/8 | 1.38 | 28 | 140 | 100 | 145 | 28 |
| 36.00 | 1 | 1.38 | 28 | 150 | 110 | 165 | 30 |
| 38.50 | 1 | 1.63 | 28 | 205 | 145 | 210 | 32 |
| 40.50 | 1 | 1.63 | 32 | 215 | 150 | 220 | 34 |
| 42.75 | 1 | 1.63 | 32 | 235 | 175 | 265 | 36 |
| 45.25 | 1 | 1.63 | 32 | 265 | 200 | 300 | 38 |
| 47.25 | 1 | 1.63 | 36 | 280 | 205 | 315 | 40 |
| 49.50 | 1 1/8 | 1.63 | 36 | 330 | 250 | 365 | 42 |
| 51.75 | 1 1/8 | 1.63 | 40 | 350 | 265 | 385 | 44 |
| 53.75 | 1 1/8 | 1.63 | 40 | 365 | 275 | 400 | 46 |
| 56.00 | 1 1/8 | 1.63 | 44 | 425 | 325 | 430 | 48 |
| 58.25 | 1 1/4 | 1.88 | 44 | 450 | 340 | 500 | 50 |
| 60.50 | 1 1/4 | 1.88 | 44 | 475 | 360 | 540 | 52 |
| 62.75 | 1 3/8 | 1.88 | 44 | 500 | 420 | 615 | 54 |
| 69.25 | 1 3/8 | 1.88 | 52 | 640 | 535 | 760 | 60 |
| 76.00 | 1 3/8 | 1.88 | 52 | 750 | 700 | 1025 | 66 |
| 82.50 | 1 3/8 | 1.88 | 60 | 850 | 840 | 1200 | 72 |
| 95.50 | 1 5/8 | 2.13 | 64 | 1225 | 1200 | 1575 | 84 |
| 108.50 | 1 7/8 | 2.38 | 68 | 1725 | 1665 | 2125 | 96 |

Class 125 & AWWA C207 CLASS E

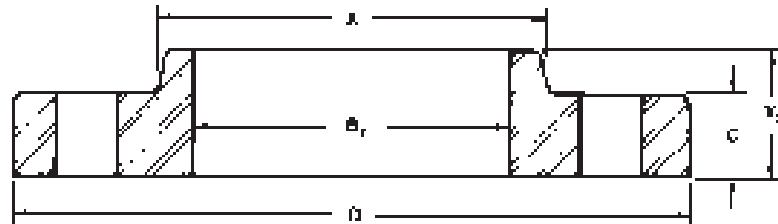


WELDING NECK

| Nominal Size | Outside Dia. O | Thickness C | Hub Dia. X | Bore | | Length Thru Hub | |
|--------------|----------------|-------------|------------|-----------------------------|------------------------|------------------------|-----------------------------|
| | | C | X | Welding Neck B ₁ | Slip-On B ₂ | Slip-On Y ₂ | Welding Neck Y ₁ |
| 6 | 11.00 | 1.00 | 7.56 | | 6.72 | 1.56 | 3.50 |
| 8 | 13.50 | 1.13 | 9.68 | | 8.72 | 1.75 | 4.00 |
| 10 | 16.00 | 1.19 | 12.00 | | 10.88 | 1.94 | 4.00 |
| 12 | 19.00 | 1.25 | 14.38 | | 12.88 | 2.19 | 4.50 |
| 14 | 21.00 | 1.38 | 15.75 | | 14.14 | 2.25 | 5.00 |
| 16 | 23.50 | 1.44 | 18.00 | | 16.16 | 2.50 | 5.00 |
| 18 | 25.00 | 1.56 | 19.88 | | 18.18 | 2.68 | 5.50 |
| 20 | 27.50 | 1.68 | 22.00 | | 20.20 | 2.88 | 5.69 |
| 22 | 29.50 | 1.81 | 24.25 | | 22.22 | 3.13 | 5.88 |
| 24 | 32.00 | 1.88 | 26.13 | | 24.25 | 3.25 | 6.00 |
| 26 | 34.25 | 2.00 | 28.50 | | 26.25 | 3.38 | 5.00 |
| 28 | 36.50 | 2.06 | 30.75 | | 28.25 | 3.44 | 5.06 |
| 30 | 38.75 | 2.13 | 32.75 | | 30.25 | 3.50 | 5.13 |
| 32 | 41.75 | 2.25 | 35.00 | | 32.25 | 3.63 | 5.25 |
| 34 | 43.75 | 2.31 | 37.00 | | 34.25 | 3.68 | 5.31 |
| 36 | 46.00 | 2.38 | 39.25 | | 36.25 | 3.75 | 5.38 |
| 38 | 48.75 | 2.38 | 41.75 | | 38.25 | 3.75 | 5.38 |
| 40 | 50.75 | 2.50 | 43.75 | | 40.25 | 3.88 | 5.50 |
| 42 | 53.00 | 2.63 | 46.00 | | 42.25 | 4.00 | 5.63 |
| 44 | 55.25 | 2.63 | 48.00 | | 44.25 | 4.00 | 5.63 |
| 46 | 57.25 | 2.68 | 50.00 | | 46.25 | 4.06 | 5.68 |
| 48 | 59.50 | 2.75 | 52.25 | | 48.25 | 4.13 | 5.75 |
| 50 | 61.75 | 2.75 | 54.25 | | 50.25 | 4.13 | 5.75 |
| 52 | 64.00 | 2.88 | 56.50 | | 52.25 | 4.25 | 5.88 |
| 54 | 66.25 | 3.00 | 58.75 | | 54.25 | 4.38 | 6.00 |
| 60 | 73.00 | 3.13 | 65.25 | | 60.25 | 4.50 | 6.13 |
| 66 | 80.00 | 3.38 | 71.50 | | 66.25 | 4.88 | 6.38 |
| 72 | 86.50 | 3.50 | 78.50 | | 72.25 | 5.00 | 6.50 |
| 84 | 99.75 | 3.88 | 90.50 | | 84.25 | 5.38 | 6.88 |
| 96 | 113.25 | 4.25 | 102.75 | | 96.25 | 5.75 | 7.25 |

To be specified by purchaser.

Class 125 & AWWA C207 CLASS E

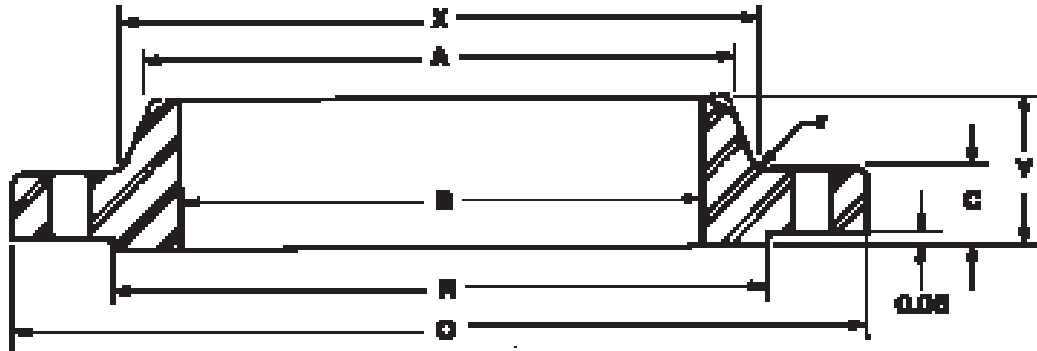


SLIP-ON

| Dia. Hub at Bevel A | Drilling | | | Approx. Weight | | Nominal Size |
|---------------------|-------------|------------|-----------|----------------|--------------|--------------|
| | Bolt Circle | Dia. Holes | No. Holes | Slip-On | Welding Neck | |
| 6.63 | 9.50 | 0.88 | 8 | 19 | 24 | 6 |
| 8.63 | 11.75 | 0.88 | 8 | 30 | 39 | 8 |
| 10.75 | 14.25 | 1.00 | 12 | 43 | 52 | 10 |
| 12.75 | 17.00 | 1.00 | 12 | 64 | 80 | 12 |
| 14.00 | 18.75 | 1.13 | 12 | 85 | 110 | 14 |
| 16.00 | 21.25 | 1.13 | 16 | 93 | 140 | 16 |
| 18.00 | 22.75 | 1.25 | 16 | 120 | 150 | 18 |
| 20.00 | 25.00 | 1.25 | 20 | 155 | 180 | 20 |
| 22.00 | 27.25 | 1.38 | 20 | 175 | 225 | 22 |
| 24.00 | 29.50 | 1.38 | 20 | 210 | 255 | 24 |
| 26.00 | 31.75 | 1.38 | 24 | 235 | 265 | 26 |
| 28.00 | 34.00 | 1.38 | 28 | 270 | 295 | 28 |
| 30.00 | 36.00 | 1.38 | 28 | 305 | 340 | 30 |
| 32.00 | 38.50 | 1.63 | 28 | 375 | 410 | 32 |
| 34.00 | 40.50 | 1.63 | 32 | 400 | 440 | 34 |
| 36.00 | 42.75 | 1.63 | 32 | 450 | 495 | 36 |
| 38.00 | 45.25 | 1.63 | 32 | 530 | 570 | 38 |
| 40.00 | 47.25 | 1.63 | 36 | 570 | 620 | 40 |
| 42.00 | 49.50 | 1.63 | 36 | 650 | 710 | 42 |
| 44.00 | 51.75 | 1.63 | 40 | 690 | 750 | 44 |
| 46.00 | 53.75 | 1.63 | 40 | 730 | 800 | 46 |
| 48.00 | 56.00 | 1.63 | 44 | 800 | 870 | 48 |
| 50.00 | 58.25 | 1.88 | 44 | 830 | 900 | 50 |
| 52.00 | 60.50 | 1.88 | 44 | 920 | 1000 | 52 |
| 54.00 | 62.75 | 1.88 | 44 | 1025 | 1100 | 54 |
| 60.00 | 69.25 | 1.88 | 52 | 1250 | 1350 | 60 |
| 66.00 | 76.00 | 1.88 | 52 | 1625 | 1775 | 66 |
| 72.00 | 82.50 | 1.88 | 60 | 1925 | 2100 | 72 |
| 84.00 | 95.50 | 2.13 | 64 | 2600 | 2825 | 84 |
| 96.00 | 108.50 | 2.38 | 68 | 3275 | 3800 | 96 |

Class 150

B16.47, Ser. A



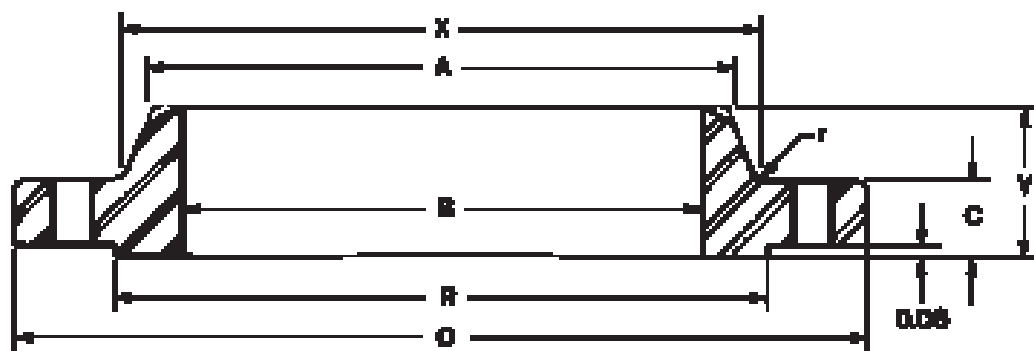
WELDING NECK

| Nominal Size | Outside Dia. O | Thickness (Min.) C | Raised Face Dia. R | Hub Dia. X | Bore B | Length Thru Hub Y | Dia. Hub at Bevel A | Fillet Radius r | Drilling | | | Approx. Wt. WNF |
|--------------|----------------|--------------------|--------------------|------------|-------------------------------|-------------------|---------------------|-----------------|-------------|------------|-----------|-----------------|
| | | | | | | | | | Bolt Circle | Dia. Holes | No. Holes | |
| 26 | 34.25 | 2.69 | 29.50 | 26.62 | To be specified by purchaser. | 4.75 | 26.00 | 0.38 | 31.75 | 1.38 | 24 | 300 |
| 28 | 36.50 | 2.81 | 31.50 | 28.62 | | 4.94 | 28.00 | 0.44 | 34.00 | 1.38 | 28 | 345 |
| 30 | 38.75 | 2.94 | 33.75 | 30.75 | | 5.38 | 30.00 | 0.44 | 36.00 | 1.38 | 28 | 400 |
| 32 | 41.75 | 3.19 | 36.00 | 32.75 | | 5.69 | 32.00 | 0.44 | 38.50 | 1.62 | 28 | 505 |
| 34 | 43.75 | 3.25 | 38.00 | 34.75 | | 5.88 | 34.00 | 0.50 | 40.50 | 1.62 | 32 | 540 |
| 36 | 46.00 | 3.56 | 40.25 | 36.75 | | 6.19 | 36.00 | 0.50 | 42.75 | 1.62 | 32 | 640 |
| 38 | 48.75 | 3.44 | 42.25 | 39.00 | | 6.19 | 38.00 | 0.50 | 45.25 | 1.62 | 32 | 720 |
| 40 | 50.75 | 3.56 | 44.25 | 41.00 | | 6.44 | 40.00 | 0.50 | 47.25 | 1.62 | 36 | 775 |
| 42 | 53.00 | 3.81 | 47.00 | 43.00 | | 6.75 | 42.00 | 0.50 | 49.50 | 1.62 | 36 | 890 |
| 44 | 55.25 | 4.00 | 49.00 | 45.00 | | 7.00 | 44.00 | 0.50 | 51.75 | 1.62 | 40 | 990 |
| 46 | 57.25 | 4.06 | 51.00 | 47.12 | | 7.31 | 46.00 | 0.50 | 53.75 | 1.62 | 40 | 1060 |
| 48 | 59.50 | 4.25 | 53.50 | 49.12 | | 7.56 | 48.00 | 0.50 | 56.00 | 1.62 | 44 | 1185 |
| 50 | 61.75 | 4.38 | 55.50 | 51.25 | | 8.00 | 50.00 | 0.50 | 58.25 | 1.88 | 44 | 1270 |
| 52 | 64.00 | 4.56 | 57.50 | 53.25 | | 8.25 | 52.00 | 0.50 | 60.50 | 1.88 | 44 | 1410 |
| 54 | 66.25 | 4.75 | 59.50 | 55.25 | | 8.50 | 54.00 | 0.50 | 62.75 | 1.88 | 44 | 1585 |
| 56 | 68.75 | 4.88 | 62.00 | 57.38 | | 9.00 | 56.00 | 0.50 | 65.00 | 1.88 | 48 | 1760 |
| 58 | 71.00 | 5.06 | 64.00 | 59.38 | 9.25 | 58.00 | 0.50 | 67.25 | 1.88 | 48 | 1915 | |
| 60 | 73.00 | 5.19 | 66.00 | 61.38 | 9.44 | 60.00 | 0.50 | 69.25 | 1.88 | 52 | 2045 | |

*SP-44 Class 150 blinds and Welding Neck Flanges have the same thickness. Blinds available upon request.

Class 150

B16.47, Ser. B



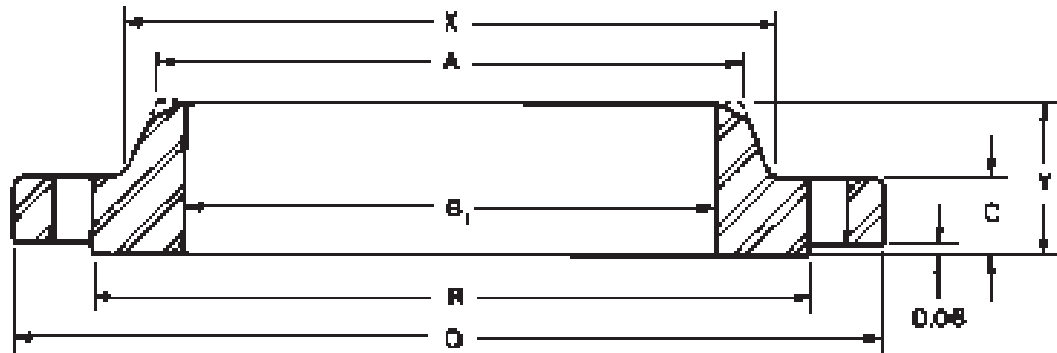
WELDING NECK

| Nominal Size | Outside Dia. O | Thickness (Min.) C | Raised Face Dia. R | Hub Dia. X | Bore B | Length Thru Hub Y | Dia. Hub at Bevel A | Fillet Radius r | Drilling | | | Approx. Wt. WNF |
|--------------|----------------|--------------------|--------------------|------------|-------------------------------|-------------------|---------------------|-----------------|-------------|------------|-----------|-----------------|
| | | | | | | | | | Bolt Circle | Dia. Holes | No. Holes | |
| 26 | 30.94 | 1.62 | 28.00 | 26.94 | To be specified by purchaser. | 3.50 | 26.06 | 0.38 | 29.31 | 0.88 | 36 | 120 |
| 28 | 32.94 | 1.75 | 30.00 | 28.94 | | 3.75 | 28.06 | 0.38 | 31.31 | 0.88 | 40 | 140 |
| 30 | 34.94 | 1.75 | 32.00 | 31.00 | | 3.94 | 30.06 | 0.38 | 33.31 | 0.88 | 44 | 150 |
| 32 | 37.06 | 1.81 | 34.00 | 33.06 | | 4.25 | 32.06 | 0.38 | 35.44 | 0.88 | 48 | 170 |
| 34 | 39.56 | 1.94 | 36.25 | 35.12 | | 4.34 | 34.06 | 0.38 | 37.69 | 1.00 | 40 | 210 |
| 36 | 41.62 | 2.06 | 38.25 | 37.19 | | 4.632 | 36.06 | 0.38 | 39.75 | 1.00 | 44 | 240 |
| 38 | 44.25 | 2.12 | 40.25 | 39.25 | | 4.88 | 38.12 | 0.38 | 42.12 | 1.12 | 40 | 290 |
| 40 | 46.25 | 2.19 | 42.50 | 41.31 | | 5.06 | 40.12 | 0.38 | 44.12 | 1.12 | 44 | 310 |
| 42 | 48.25 | 2.31 | 44.50 | 43.38 | | 5.25 | 42.12 | 0.44 | 46.12 | 1.12 | 48 | 345 |
| 44 | 50.25 | 2.38 | 46.50 | 45.38 | | 5.38 | 44.12 | 0.44 | 48.12 | 1.12 | 52 | 370 |
| 46 | 52.81 | 2.44 | 48.62 | 47.44 | | 5.69 | 46.12 | 0.44 | 50.56 | 1.25 | 40 | 435 |
| 48 | 54.81 | 2.56 | 50.75 | 49.50 | | 5.88 | 48.12 | 0.44 | 52.56 | 1.25 | 44 | 480 |
| 50 | 56.81 | 2.69 | 52.75 | 51.50 | | 6.06 | 50.12 | 0.44 | 54.56 | 1.25 | 48 | 520 |
| 52 | 58.81 | 2.75 | 54.75 | 53.56 | | 6.19 | 52.12 | 0.44 | 56.56 | 1.25 | 52 | 550 |
| 54 | 61.00 | 2.81 | 56.75 | 55.62 | | 6.38 | 54.12 | 0.44 | 58.75 | 1.25 | 56 | 620 |
| 56 | 63.00 | 2.88 | 58.75 | 57.69 | | 6.56 | 56.12 | 0.56 | 60.75 | 1.25 | 60 | 650 |
| 58 | 65.94 | 2.94 | 60.75 | 59.69 | 6.88 | 58.12 | 0.56 | 63.44 | 1.38 | 48 | 780 | |
| 60 | 67.94 | 3.00 | 63.00 | 61.81 | 7.06 | 60.12 | 0.56 | 65.44 | 1.38 | 52 | 850 | |

Blinds available upon request.

Class 175

INDUSTRY STANDARD



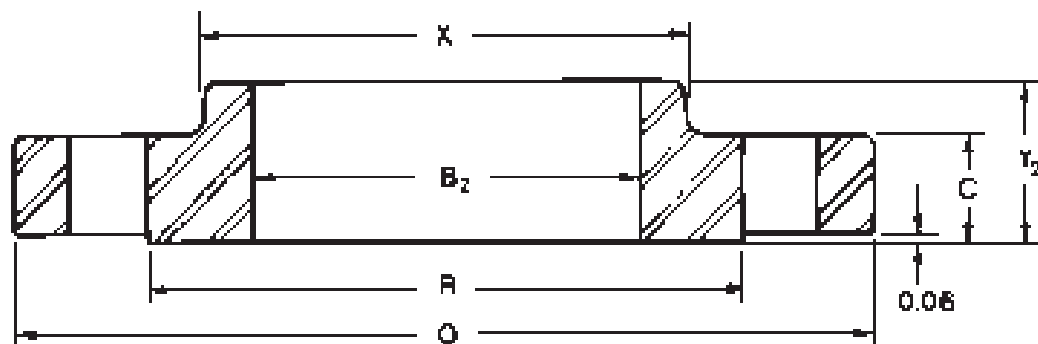
WELDING NECK

| Nominal Size | Outside Dia. O | Thickness C | | | Raised Face Dia. R | Hub Dia. X | Bore | | Length Thru Hub Y | | Dia. Hub at Bevel A |
|--------------|----------------|--------------|---------|-------|--------------------|------------|----------------|----------------|-------------------|-------------------------------|---------------------|
| | | Welding Neck | Slip-On | Blind | | | B ₁ | B ₂ | Welding Neck | Slip-On | |
| 26 | 31.50 | 1.38 | 1.38 | 1.78 | 29.00 | 27.63 | 26.25 | 3.38 | 2.75 | To be specified by purchaser. | |
| 28 | 33.50 | 1.38 | 1.38 | 2.00 | 31.00 | 29.63 | 28.25 | 3.38 | 2.75 | | |
| 30 | 35.75 | 1.38 | 1.38 | 2.13 | 33.25 | 31.88 | 30.25 | 3.63 | 2.75 | | |
| 32 | 37.75 | 1.38 | 1.38 | 2.25 | 35.25 | 33.88 | 32.25 | 3.63 | 2.75 | | |
| 34 | 40.25 | 1.50 | 1.75 | 2.38 | 37.38 | 35.88 | 34.25 | 3.75 | 3.38 | | |
| 36 | 42.25 | 1.50 | 1.75 | 2.50 | 39.38 | 37.88 | 36.25 | 3.75 | 3.38 | | |
| 38 | 44.25 | 1.75 | 2.00 | 2.63 | 41.38 | 39.88 | 38.25 | 4.13 | 3.75 | | |
| 40 | 46.25 | 1.75 | 2.00 | 2.75 | 43.38 | 41.88 | 40.25 | 4.13 | 4.00 | | |
| 42 | 49.00 | 2.00 | 2.38 | 2.88 | 45.75 | 44.13 | 42.25 | 4.50 | 4.38 | | |
| 44 | 51.00 | 2.00 | 2.38 | 3.00 | 47.75 | 46.13 | 44.25 | 4.50 | 4.38 | | |
| 46 | 53.00 | 2.00 | 2.38 | 3.13 | 49.75 | 48.13 | 46.25 | 4.50 | 4.63 | | |
| 48 | 55.00 | 2.25 | 2.63 | 3.38 | 51.75 | 50.13 | 48.25 | 4.88 | 4.88 | | |
| 50 | 57.00 | 2.25 | 2.63 | 3.38 | 53.75 | 52.13 | 50.25 | 4.88 | 4.88 | | |
| 52 | 59.50 | 2.63 | 3.00 | 3.63 | 56.00 | 54.25 | 52.25 | 5.38 | 5.38 | | |
| 54 | 61.50 | 2.63 | 3.00 | 3.63 | 58.00 | 56.25 | 54.25 | 5.38 | 5.38 | | |
| 60 | 67.50 | 2.75 | 3.13 | 4.00 | 64.00 | 62.25 | 60.25 | 5.75 | 5.88 | | |
| 66 | 73.50 | 3.13 | 4.00 | 4.38 | 70.00 | 68.50 | 66.25 | 6.13 | 6.88 | | |
| 72 | 80.00 | 3.63 | 5.00 | 4.75 | 76.50 | 74.50 | 72.25 | 6.63 | 8.00 | | |

Notes: Sizes are nominal **inside** diameters of pipe or shell used with Welding Neck flanges, and nominal **outside** diameters of pipe or shell used with Slip-On Flanges.

Class 175

INDUSTRY STANDARD

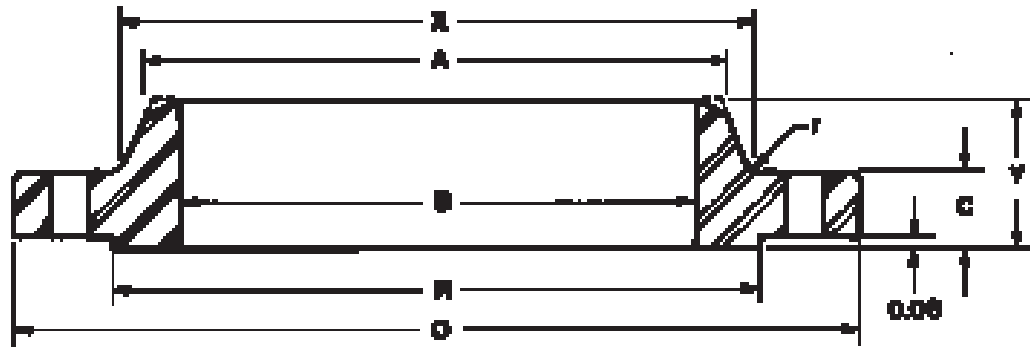


SLIP-ON

| Drilling | | | Approx. Weight | | | Nominal Size |
|------------------|------------|-----------|----------------|---------|-------|--------------|
| Bolt Circle Dia. | Dia. Holes | No. Holes | Welding Neck | Slip-On | Blind | |
| 29.88 | 0.88 | 28 | 120 | 105 | 405 | 26 |
| 31.88 | 0.88 | 28 | 130 | 115 | 490 | 28 |
| 34.13 | 0.88 | 36 | 150 | 130 | 590 | 30 |
| 36.13 | 0.88 | 36 | 160 | 140 | 700 | 32 |
| 38.38 | 1.00 | 36 | 195 | 200 | 840 | 34 |
| 40.38 | 1.00 | 36 | 205 | 210 | 970 | 36 |
| 42.38 | 1.00 | 36 | 245 | 250 | 1125 | 38 |
| 44.38 | 1.00 | 40 | 255 | 270 | 1300 | 40 |
| 46.88 | 1.13 | 40 | 340 | 365 | 1500 | 42 |
| 48.88 | 1.13 | 40 | 360 | 380 | 1700 | 44 |
| 50.88 | 1.13 | 40 | 375 | 410 | 1925 | 46 |
| 52.88 | 1.13 | 44 | 430 | 460 | 2225 | 48 |
| 54.88 | 1.13 | 44 | 450 | 480 | 2400 | 50 |
| 57.25 | 1.25 | 44 | 560 | 600 | 2800 | 52 |
| 59.25 | 1.25 | 44 | 580 | 620 | 3000 | 54 |
| 65.25 | 1.25 | 48 | 680 | 730 | 4000 | 60 |
| 74.25 | 1.25 | 56 | 830 | 1000 | 5175 | 66 |
| 77.75 | 1.25 | 64 | 1075 | 1400 | 6650 | 72 |

Class 300

B16.47, Ser. A



WELDING NECK

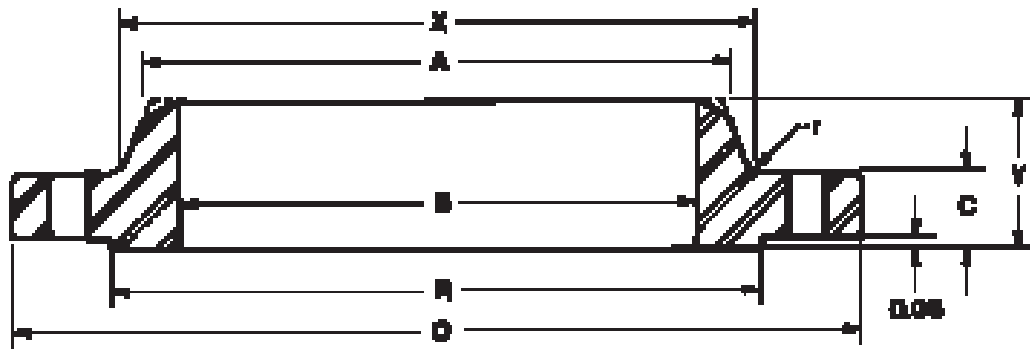
| Nominal Size | Outside Dia. O | Thickness C | | Raised Face Dia. R | Hub Dia. X | Bore B | Length Thru Hub Y | Dia. Hub at Bevel A | Fillet Radius r | Drilling | | | Approx. Wt. WNF |
|--------------|----------------|-------------|------|--------------------|------------|--------|-------------------|---------------------|-----------------|-------------|------------|-----------|-----------------|
| | | WNF | BF | | | | | | | Bolt Circle | Dia. Holes | No. Holes | |
| 26 | 38.25 | 3.12 | 3.31 | 29.50 | 28.38 | | 7.25 | 26.00 | 0.38 | 34.50 | 1.75 | 28 | 605 |
| 28 | 40.75 | 3.38 | 3.56 | 31.50 | 30.50 | | 7.75 | 28.00 | 0.44 | 37.00 | 1.75 | 28 | 745 |
| 30 | 43.00 | 3.62 | 3.75 | 33.75 | 32.56 | | 8.25 | 30.00 | 0.44 | 39.25 | 1.88 | 28 | 870 |
| 32 | 45.25 | 3.88 | 3.94 | 36.00 | 34.69 | | 8.75 | 32.00 | 0.44 | 41.50 | 2.00 | 28 | 1005 |
| 34 | 47.50 | 4.00 | 4.12 | 38.00 | 36.88 | | 9.12 | 34.00 | 0.50 | 43.50 | 2.00 | 28 | 1145 |
| 36 | 50.00 | 4.12 | 4.38 | 40.25 | 39.00 | | 9.50 | 36.00 | 0.50 | 46.00 | 2.12 | 32 | 1275 |
| 38 | 46.00 | 4.25 | 4.25 | 40.50 | 39.12 | | 7.12 | 38.00 | 0.50 | 43.00 | 1.62 | 32 | 695 |
| 40 | 48.75 | 4.50 | 4.50 | 42.75 | 41.25 | | 7.63 | 40.00 | 0.50 | 45.50 | 1.75 | 32 | 840 |
| 42 | 50.75 | 4.69 | 4.69 | 44.75 | 43.25 | | 7.88 | 42.00 | 0.50 | 47.50 | 1.75 | 32 | 950 |
| 44 | 53.25 | 4.88 | 4.88 | 47.00 | 45.25 | | 8.12 | 44.00 | 0.50 | 49.75 | 1.88 | 32 | 1055 |
| 46 | 55.75 | 5.06 | 5.06 | 49.00 | 47.38 | | 8.50 | 46.00 | 0.50 | 52.00 | 2.00 | 28 | 1235 |
| 48 | 57.75 | 5.25 | 5.25 | 51.25 | 49.38 | | 8.81 | 48.00 | 0.50 | 54.00 | 2.00 | 32 | 1380 |
| 50 | 60.25 | 5.50 | 5.50 | 53.50 | 51.38 | | 9.12 | 50.00 | 0.50 | 56.25 | 2.12 | 32 | 1530 |
| 52 | 62.25 | 5.69 | 5.69 | 55.50 | 53.38 | | 9.38 | 52.00 | 0.50 | 58.25 | 2.12 | 32 | 1660 |
| 54 | 65.25 | 6.00 | 6.00 | 57.75 | 55.50 | | 9.94 | 54.00 | 0.50 | 61.00 | 2.38 | 28 | 2050 |
| 56 | 67.25 | 6.06 | 6.06 | 59.75 | 57.62 | | 10.25 | 56.00 | 0.50 | 63.00 | 2.38 | 28 | 2155 |
| 58 | 69.25 | 6.25 | 6.25 | 62.00 | 59.62 | | 10.50 | 58.00 | 0.50 | 65.00 | 2.38 | 32 | 2270 |
| 60 | 71.25 | 6.44 | 6.44 | 64.00 | 61.62 | | 10.75 | 60.00 | 0.50 | 67.00 | 2.38 | 32 | 2470 |

To be specified by purchaser.

Sizes 12" thru 24" identical to ASME B16.5 except when a single taper hub is required.

Class 300

B16.47, Ser. B

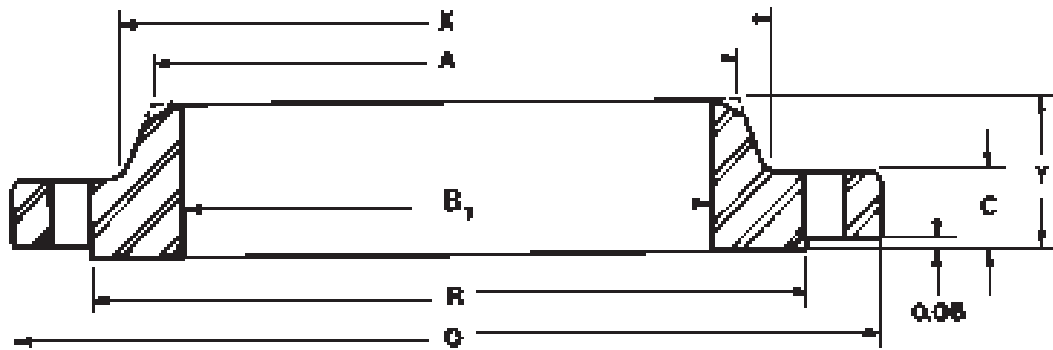


WELDING NECK

| Nominal Size | Outside Dia. O | Thickness (Min.) C | Raised Face Dia. R | Hub Dia. X | Bore B | Length Thru Hub Y | Dia. Hub at Bevel A | Fillet Radius r | Drilling | | | Approx. Wt. WNF |
|--------------|----------------|--------------------|--------------------|------------|-------------------------------|-------------------|---------------------|-----------------|-------------|------------|-----------|-----------------|
| | | | | | | | | | Bolt Circle | Dia. Holes | No. Holes | |
| 26 | 34.12 | 3.50 | 29.00 | 27.62 | To be specified by purchaser. | 5.69 | 26.19 | 0.56 | 31.62 | 1.38 | 32 | 400 |
| 28 | 36.25 | 3.50 | 31.00 | 29.75 | | 5.88 | 28.19 | 0.56 | 33.75 | 1.38 | 36 | 450 |
| 30 | 39.00 | 3.69 | 33.25 | 32.00 | | 6.22 | 30.25 | 0.56 | 36.25 | 1.50 | 36 | 550 |
| 32 | 41.50 | 4.06 | 35.50 | 34.00 | | 6.62 | 32.25 | 0.63 | 38.50 | 1.62 | 32 | 685 |
| 34 | 43.62 | 4.06 | 37.50 | 36.12 | | 6.81 | 34.25 | 0.63 | 40.62 | 1.62 | 36 | 750 |
| 36 | 46.12 | 4.06 | 39.75 | 38.00 | | 7.12 | 36.25 | 0.63 | 42.88 | 1.75 | 32 | 840 |
| 38 | 48.12 | 4.38 | 41.75 | 40.00 | | 7.56 | 38.25 | 0.63 | 44.88 | 1.75 | 36 | 915 |
| 40 | 50.12 | 4.56 | 43.88 | 42.00 | | 7.81 | 40.25 | 0.63 | 46.88 | 1.75 | 40 | 990 |
| 42 | 52.50 | 4.69 | 46.00 | 44.00 | | 8.06 | 42.31 | 0.63 | 49.00 | 1.88 | 36 | 1135 |
| 44 | 54.50 | 5.00 | 48.00 | 46.19 | | 8.44 | 44.31 | 0.63 | 51.00 | 1.88 | 40 | 1235 |
| 46 | 57.50 | 5.06 | 50.00 | 48.38 | | 8.75 | 46.31 | 0.63 | 53.75 | 2.00 | 36 | 1470 |
| 48 | 59.50 | 5.06 | 52.25 | 50.31 | | 8.81 | 48.31 | 0.63 | 55.75 | 2.00 | 40 | 1575 |
| 50 | 61.50 | 5.44 | 54.25 | 52.38 | | 9.25 | 50.31 | 0.63 | 57.75 | 2.00 | 44 | 1710 |
| 52 | 63.50 | 5.62 | 56.25 | 54.44 | | 9.56 | 52.31 | 0.63 | 59.75 | 2.00 | 48 | 1840 |
| 54 | 65.88 | 5.38 | 58.25 | 56.50 | 9.44 | 54.31 | 0.63 | 62.12 | 2.00 | 48 | 1980 | |
| 56 | 69.50 | 6.06 | 60.50 | 58.81 | 10.56 | 56.31 | 0.69 | 65.00 | 2.38 | 36 | 2595 | |
| 58 | 71.94 | 6.06 | 62.75 | 60.94 | 10.81 | 58.31 | 0.69 | 67.44 | 2.38 | 40 | 2770 | |
| 60 | 73.94 | 5.94 | 65.00 | 62.94 | 10.69 | 60.31 | 0.69 | 69.44 | 2.38 | 40 | 2870 | |

Class 350

INDUSTRY STANDARD



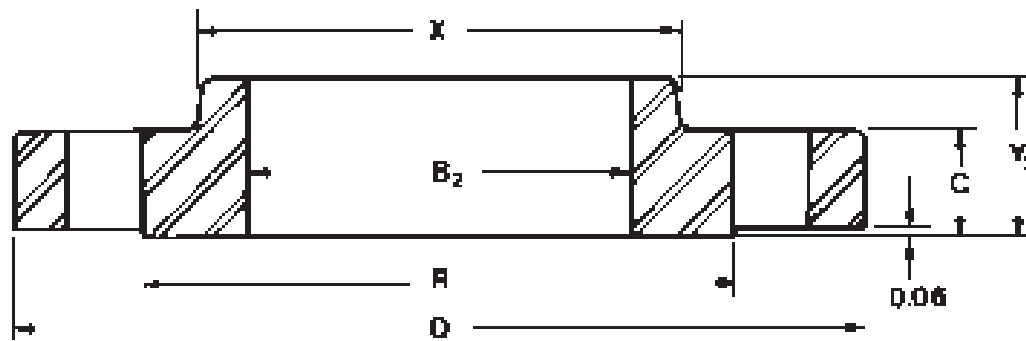
WELDING NECK

| Nominal Size | Outside Dia. O | Thickness C | | | Raised Face Dia. R | Hub Dia. X | Bore | | Length Thru Hub Y | |
|--------------|----------------|--------------|---------|-------|--------------------|------------|-------------------------------|----------------|-------------------|---------|
| | | Welding Neck | Slip-On | Blind | | | B ₁ | B ₂ | Welding Neck | Slip-On |
| 26 | 32.75 | 2.50 | 2.50 | 2.75 | 29.50 | 27.88 | To be specified by purchaser. | 26.25 | 5.00 | 4.50 |
| 28 | 34.75 | 2.50 | 2.50 | 2.88 | 31.50 | 29.88 | | 28.25 | 5.00 | 4.50 |
| 30 | 37.00 | 2.63 | 2.63 | 3.00 | 33.75 | 32.13 | | 30.25 | 5.25 | 4.75 |
| 32 | 39.00 | 2.75 | 2.75 | 3.25 | 35.75 | 34.13 | | 32.25 | 5.50 | 5.00 |
| 34 | 41.00 | 2.88 | 2.88 | 3.38 | 37.75 | 36.13 | | 34.25 | 5.75 | 5.13 |
| 36 | 43.75 | 3.13 | 3.13 | 3.63 | 40.25 | 38.50 | | 36.25 | 6.13 | 5.63 |
| 38 | 45.75 | 3.13 | 3.13 | 3.75 | 42.25 | 40.50 | | 38.25 | 6.13 | 5.63 |
| 40 | 47.75 | 3.25 | 3.25 | 4.00 | 44.25 | 42.50 | | 40.25 | 6.25 | 5.88 |
| 42 | 50.00 | 3.50 | 3.50 | 4.13 | 46.50 | 44.75 | | 42.25 | 6.50 | 6.13 |
| 44 | 52.75 | 3.75 | 3.75 | 4.38 | 48.88 | 46.75 | | 44.25 | 6.75 | 6.75 |
| 46 | 54.75 | 4.25 | 4.25 | 4.75 | 50.88 | 48.75 | | 46.25 | 7.25 | 7.25 |
| 48 | 56.75 | 4.25 | 4.25 | 4.75 | 52.88 | 50.75 | | 48.25 | 7.25 | 7.25 |
| 52 | 61.50 | 4.25 | — | — | 57.25 | 55.00 | | 52.25 | 7.50 | — |
| 54 | 63.50 | 4.50 | 4.75 | — | 59.25 | 57.00 | | 54.25 | 7.75 | 8.25 |
| 60 | 69.50 | 4.50 | 5.00 | — | 65.25 | 63.00 | 60.25 | 8.00 | 8.50 | |
| 66 | 77.00 | 4.00 | — | — | 72.38 | 70.00 | 66.25 | 8.50 | — | |
| 72 | 83.00 | 4.00 | — | — | 78.38 | 76.00 | 72.25 | 9.00 | — | |

Notes: Sizes are nominal **inside** diameters of pipe or shell used with Welding Neck Flanges, and nominal **outside** diameters of pipe or shell used with Slip-On Flanges. Diameter of hub at Bevel to be specified by purchaser.

Class 350

INDUSTRY STANDARD

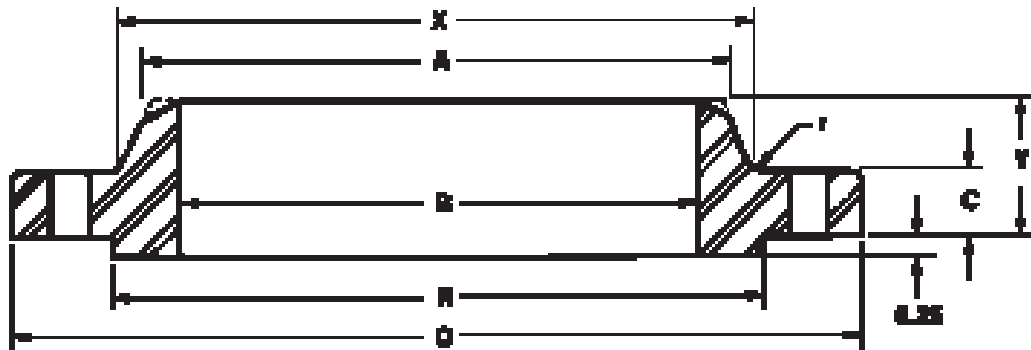


SLIP-ON

| Drilling | | | Approx. Weight | | | Nominal Size |
|------------------|------------|-----------|----------------|---------|-------|--------------|
| Bolt Circle Dia. | Dia. Holes | No. Holes | Welding Neck | Slip-On | Blind | |
| 30.63 | 1.13 | 28 | 245 | 225 | 580 | 26 |
| 32.63 | 1.13 | 28 | 260 | 250 | 750 | 28 |
| 34.88 | 1.13 | 32 | 305 | 295 | 890 | 30 |
| 36.88 | 1.13 | 36 | 340 | 325 | 1050 | 32 |
| 38.88 | 1.13 | 40 | 375 | 355 | 1225 | 34 |
| 41.50 | 1.25 | 40 | 480 | 465 | 1500 | 36 |
| 43.50 | 1.25 | 40 | 510 | 490 | 1700 | 38 |
| 45.50 | 1.25 | 44 | 540 | 530 | 1975 | 40 |
| 47.75 | 1.25 | 48 | 640 | 620 | 2225 | 42 |
| 50.25 | 1.38 | 44 | 760 | 760 | 2625 | 44 |
| 52.25 | 1.38 | 48 | 880 | 880 | 2950 | 46 |
| 54.25 | 1.38 | 48 | 920 | 920 | 3300 | 48 |
| 58.75 | 1.50 | 52 | 1025 | — | — | 52 |
| 60.75 | 1.50 | 52 | 1200 | 1150 | — | 54 |
| 66.75 | 1.50 | 60 | 1325 | 1450 | — | 60 |
| 74.00 | 1.63 | 60 | 1675 | — | — | 66 |
| 80.00 | 1.63 | 72 | 1850 | — | — | 72 |

Class 400

B16.47 Series A B16.47 Series B



WELDING NECK

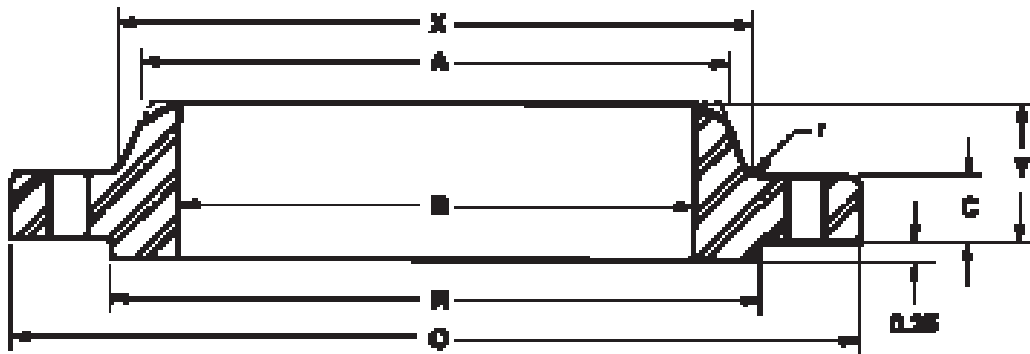
| Nominal Size | Outside Dia. O | Thickness C | | Raised Face Dia. R | Hub Dia. X | Bore B | Length Thru Hub Y | Dia. Hub at Bevel A | Fillet Radius r | Drilling | | | Approx. Wt. WNF |
|--|----------------|-------------|------|--------------------|------------|-------------------------------|-------------------|---------------------|-----------------|-------------|------------|-----------|-----------------|
| | | WNF | BF | | | | | | | Bolt Circle | Dia. Holes | No. Holes | |
| B16.47 Ser A Sizes 12" thru 24" identical to ASME B16.5 except when a single taper hub is required. | | | | | | | | | | | | | |
| 26 | 38.25 | 3.50 | 3.88 | 29.50 | 28.62 | To be specified by purchaser. | 7.62 | 26.00 | 0.44 | 34.50 | 1.88 | 28 | 650 |
| 28 | 40.75 | 3.75 | 4.12 | 31.50 | 30.81 | | 8.12 | 28.00 | 0.50 | 37.00 | 2.00 | 28 | 785 |
| 30 | 43.00 | 4.00 | 4.38 | 33.75 | 32.94 | | 8.62 | 30.00 | 0.50 | 39.25 | 2.12 | 28 | 905 |
| 32 | 45.25 | 4.25 | 4.56 | 36.00 | 35.00 | | 9.12 | 32.00 | 0.50 | 41.50 | 2.12 | 28 | 1065 |
| 34 | 47.50 | 4.38 | 4.81 | 38.00 | 37.18 | | 9.50 | 34.00 | 0.56 | 43.50 | 2.12 | 28 | 1200 |
| 36 | 50.00 | 4.50 | 5.06 | 40.25 | 39.38 | | 9.88 | 36.00 | 0.56 | 46.00 | 2.12 | 32 | 1340 |
| B16.47 Ser B | | | | | | | | | | | | | |
| 26 | 33.50 | 3.50 | — | 28.00 | 27.12 | To be specified by purchaser. | 5.88 | 26.00 | 0.44 | 30.75 | 1.50 | 28 | 360 |
| 28 | 36.00 | 3.75 | — | 30.00 | 29.12 | | 6.25 | 28.00 | 0.50 | 33.00 | 1.62 | 24 | 450 |
| 30 | 38.25 | 4.00 | — | 32.25 | 31.25 | | 6.69 | 30.00 | 0.50 | 35.25 | 1.62 | 28 | 530 |
| 32 | 40.75 | 4.25 | — | 34.38 | 33.25 | | 7.06 | 32.00 | 0.50 | 37.50 | 1.75 | 28 | 635 |
| 34 | 42.75 | 4.38 | — | 36.50 | 35.38 | | 7.38 | 34.00 | 0.56 | 39.50 | 1.75 | 32 | 690 |
| 36 | 45.50 | 4.69 | — | 38.62 | 37.50 | | 7.88 | 36.00 | 0.56 | 42.00 | 1.75 | 28 | 855 |

Length thru Hub does not include 1/4" Raised Face.

Class 400

B16.47 Series A

B16.47 Series B



WELDING NECK

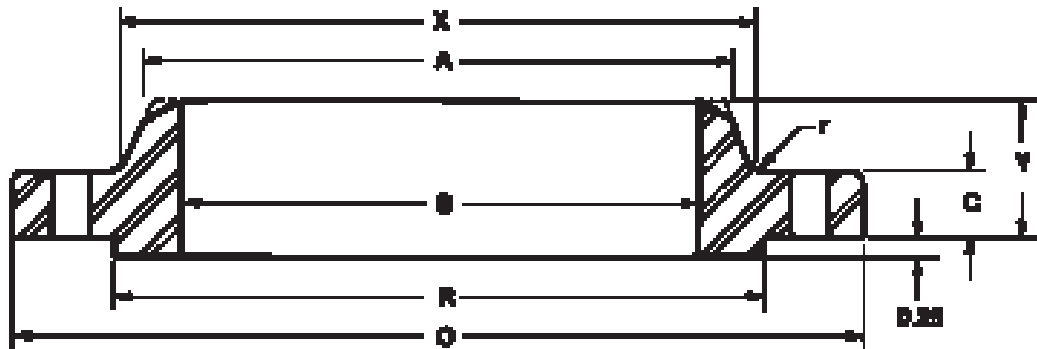
| Nominal Size | Outside Dia. O | Thickness C | | Raised Face Dia. R | Hub Dia. X | Bore B | Length Thru Hub Y | Dia. Hub at Bevel A | Fillet Radius r | Drilling | | | Approx. Wt. WNF |
|--|----------------|-------------|------|--------------------|------------|-------------------------------|-------------------|---------------------|-----------------|-------------|------------|-----------|-----------------|
| | | WNF | BF | | | | | | | Bolt Circle | Dia. Holes | No. Holes | |
| B16.47 Ser A and Ser B are identical in sizes 38" thru 60". | | | | | | | | | | | | | |
| 38 | 47.50 | 4.88 | 4.88 | 40.75 | 39.50 | To be specified by purchaser. | 8.12 | 38.00 | 0.56 | 44.00 | 1.88 | 32 | 935 |
| 40 | 50.00 | 5.12 | 5.12 | 43.00 | 41.50 | | 8.50 | 40.00 | 0.56 | 46.25 | 2.00 | 32 | 1090 |
| 42 | 52.00 | 5.25 | 5.25 | 45.00 | 43.62 | | 8.81 | 42.00 | 0.56 | 48.25 | 2.00 | 32 | 1190 |
| 44 | 54.50 | 5.50 | 5.50 | 47.25 | 45.62 | | 9.18 | 44.00 | 0.56 | 50.50 | 2.12 | 32 | 1375 |
| 46 | 56.75 | 5.75 | 5.75 | 49.50 | 47.75 | | 9.62 | 46.00 | 0.56 | 52.75 | 2.12 | 36 | 1525 |
| 48 | 59.50 | 6.00 | 6.00 | 51.50 | 49.88 | | 10.12 | 48.00 | 0.56 | 55.25 | 2.38 | 28 | 1790 |
| 50 | 61.75 | 6.19 | 6.25 | 53.62 | 52.00 | | 10.56 | 50.00 | 0.56 | 57.50 | 2.38 | 32 | 1950 |
| 52 | 63.75 | 6.38 | 6.44 | 55.62 | 54.00 | | 10.88 | 52.00 | 0.56 | 59.50 | 2.38 | 32 | 2125 |
| 54 | 67.00 | 6.69 | 6.75 | 57.88 | 56.12 | | 11.38 | 54.00 | 0.56 | 62.25 | 2.62 | 28 | 2565 |
| 56 | 69.00 | 6.88 | 6.94 | 60.12 | 58.25 | | 11.75 | 56.00 | 0.56 | 64.25 | 2.62 | 32 | 2710 |
| 58 | 71.00 | 7.00 | 7.12 | 62.12 | 60.25 | | 12.06 | 58.00 | 0.56 | 66.25 | 2.62 | 32 | 3230 |
| 60 | 74.25 | 7.31 | 7.44 | 64.38 | 62.38 | 12.56 | 60.00 | 0.56 | 69.00 | 2.88 | 32 | 3820 | |

Length thru Hub does not include 1/4" Raised Face.

Class 600

B16.47 Series A

B16.47 Series B



WELDING NECK

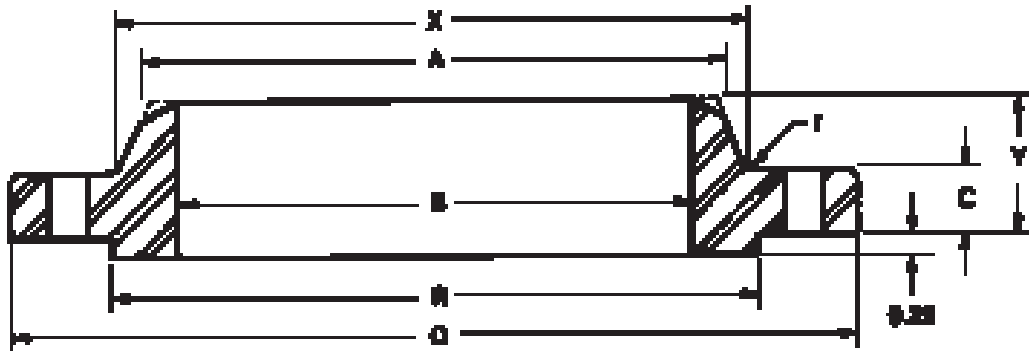
| Nominal Size | Outside Dia. O | Thickness C | | Raised Face Dia. R | Hub Dia. X | Bore B | Length Thru Hub Y | Dia. Hub at Bevel A | Fillet Radius r | Drilling | | | Approx. Wt. WNF |
|--|----------------|-------------|------|--------------------|------------|-------------------------------|-------------------|---------------------|-----------------|-------------|------------|-----------|-----------------|
| | | WNF | BF | | | | | | | Bolt Circle | Dia. Holes | No. Holes | |
| B16.47 Ser A Sizes 12" thru 24" identical to ASME B16.5 except when a single taper hub is required. | | | | | | | | | | | | | |
| 26 | 40.00 | 4.25 | 4.94 | 29.50 | 29.44 | To be specified by purchaser. | 8.75 | 26.00 | 0.50 | 36.00 | 2.00 | 28 | 940 |
| 28 | 42.25 | 4.38 | 5.18 | 31.50 | 31.62 | | 9.25 | 28.00 | 0.50 | 38.00 | 2.12 | 28 | 1060 |
| 30 | 44.50 | 4.50 | 5.50 | 33.75 | 33.94 | | 9.75 | 30.00 | 0.50 | 40.25 | 2.12 | 28 | 1210 |
| 32 | 47.00 | 4.62 | 5.81 | 36.00 | 36.12 | | 10.25 | 32.00 | 0.50 | 42.50 | 2.12 | 28 | 1375 |
| 34 | 49.00 | 4.75 | 6.06 | 38.00 | 38.31 | | 10.62 | 34.00 | 0.56 | 44.50 | 2.38 | 28 | 1540 |
| 36 | 51.75 | 4.88 | 6.38 | 40.25 | 40.62 | | 11.12 | 36.00 | 0.56 | 47.00 | 2.62 | 28 | 1705 |
| B16.47 Ser B | | | | | | | | | | | | | |
| 26 | 35.00 | 4.38 | 4.38 | 28.62 | 27.50 | 7.12 | 26.00 | 0.50 | 31.75 | 1.75 | 28 | 550 | |
| 28 | 37.50 | 4.56 | 4.56 | 30.88 | 29.62 | 7.50 | 28.00 | 0.50 | 34.00 | 1.88 | 28 | 650 | |
| 30 | 40.25 | 4.94 | 5.00 | 33.12 | 31.75 | 8.06 | 30.00 | 0.50 | 36.50 | 2.00 | 28 | 810 | |
| 32 | 42.75 | 5.12 | 5.31 | 35.25 | 33.88 | 8.50 | 33.00 | 0.50 | 38.75 | 2.12 | 28 | 950 | |
| 34 | 45.75 | 5.56 | 5.68 | 37.50 | 36.00 | 9.19 | 34.00 | 0.56 | 41.50 | 2.38 | 24 | 1205 | |
| 36 | 47.75 | 5.75 | 5.94 | 39.75 | 38.12 | 9.56 | 36.00 | 0.56 | 43.50 | 2.38 | 28 | 1340 | |

Length thru Hub does not include 1/4" Raised Face.

Class 600

B16.47 Series A

B16.47 Series B



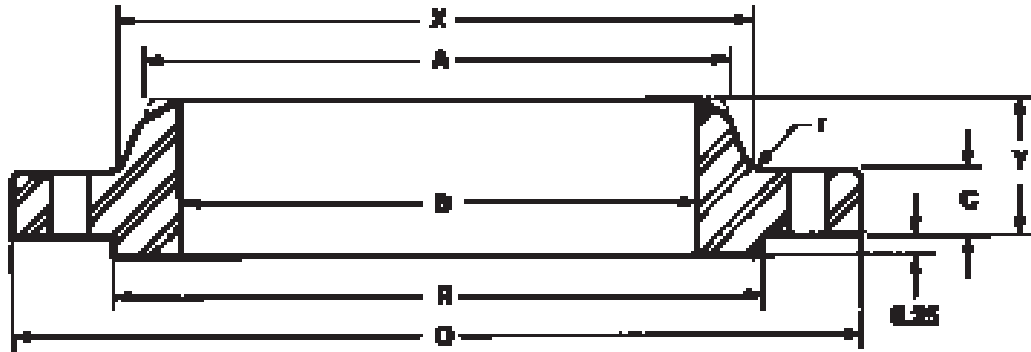
WELDING NECK

| Nominal Size | Outside Dia. O | Thickness C | | Raised Face Dia. R | Hub Dia. X | Bore B | Length Thru Hub Y | Dia. Hub at Bevel A | Fillet Radius r | Drilling | | | Approx. Wt. WNF |
|--|----------------|-------------|------|--------------------|------------|-------------------------------|-------------------|---------------------|-----------------|-------------|------------|-----------|-----------------|
| | | WNF | BF | | | | | | | Bolt Circle | Dia. Holes | No. Holes | |
| B16.47 Ser A and Ser B are identical in sizes 38" thru 60". | | | | | | | | | | | | | |
| 38 | 50.00 | 6.00 | 6.12 | 41.50 | 40.25 | To be specified by purchaser. | 10.00 | 38.00 | 0.56 | 45.75 | 2.38 | 28 | 1470 |
| 40 | 52.00 | 6.25 | 6.38 | 43.75 | 42.25 | | 10.38 | 40.00 | 0.56 | 47.75 | 2.38 | 32 | 1630 |
| 42 | 55.25 | 6.62 | 6.75 | 46.00 | 44.38 | | 11.00 | 42.00 | 0.56 | 50.50 | 2.62 | 28 | 2030 |
| 44 | 57.25 | 6.81 | 7.00 | 48.25 | 46.50 | | 11.38 | 44.00 | 0.56 | 52.50 | 2.62 | 32 | 2160 |
| 46 | 59.50 | 7.06 | 7.31 | 50.25 | 48.62 | | 11.81 | 46.00 | 0.56 | 54.75 | 2.62 | 32 | 2410 |
| 48 | 62.75 | 7.44 | 7.69 | 52.50 | 50.75 | | 12.44 | 48.00 | 0.56 | 57.50 | 2.88 | 32 | 2855 |
| 50 | 65.75 | 7.75 | 8.00 | 54.50 | 52.88 | | 12.94 | 50.00 | 0.56 | 60.00 | 3.12 | 28 | 3330 |
| 52 | 67.75 | 8.00 | 8.25 | 56.50 | 54.88 | | 13.25 | 52.00 | 0.56 | 62.00 | 3.12 | 32 | 3560 |
| 54 | 70.00 | 8.25 | 8.56 | 58.75 | 57.00 | | 13.75 | 54.00 | 0.56 | 64.25 | 3.12 | 32 | 3920 |
| 56 | 73.00 | 8.56 | 8.88 | 60.75 | 59.12 | | 14.25 | 56.00 | 0.62 | 66.75 | 3.38 | 32 | 4280 |
| 58 | 75.00 | 8.75 | 9.12 | 63.00 | 61.12 | | 14.56 | 58.00 | 0.62 | 68.75 | 3.38 | 32 | 4640 |
| 60 | 78.50 | 9.19 | 9.56 | 65.25 | 63.38 | 15.31 | 60.00 | 0.69 | 71.75 | 3.62 | 28 | 5000 | |

Length thru Hub does not include 1/4" Raised Face.

Class 900

B16.47 Series A B16.47 Series B



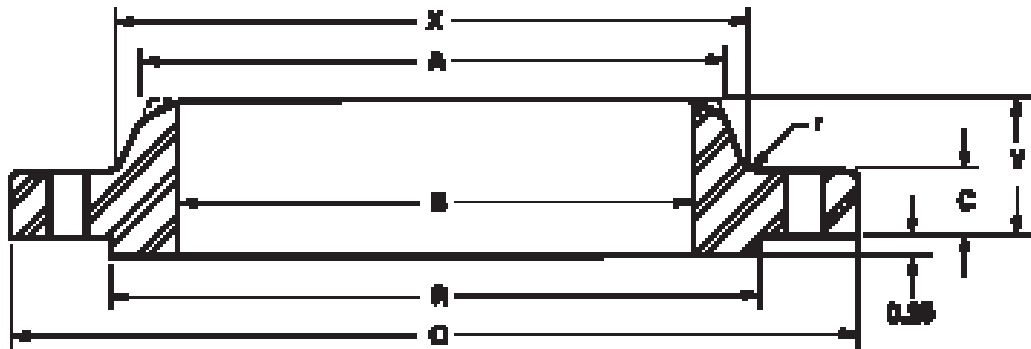
WELDING NECK

| Nominal Size | Outside Dia. O | Thickness C | | Raised Face Dia. R | Hub Dia. X | Bore B | Length Thru Hub Y | Dia. Hub at Bevel A | Fillet Radius r | Drilling | | | Approx. Wt. WNF |
|--|----------------|-------------|------|--------------------|------------|-------------------------------|-------------------|---------------------|-----------------|-------------|------------|-----------|-----------------|
| | | WNF | BF | | | | | | | Bolt Circle | Dia. Holes | No. Holes | |
| B16.47 Ser A Sizes 12" thru 24" identical to ASME B16.5 except when a single taper hub is required. | | | | | | | | | | | | | |
| 26 | 42.75 | 5.50 | 6.31 | 29.50 | 30.50 | To be specified by purchaser. | 11.25 | 26.00 | 0.44 | 37.50 | 2.88 | 20 | 1525 |
| 28 | 46.00 | 5.62 | 6.75 | 31.50 | 32.75 | | 11.75 | 28.00 | 0.50 | 40.25 | 3.12 | 20 | 1810 |
| 30 | 48.50 | 5.88 | 7.18 | 33.75 | 35.00 | | 12.25 | 30.00 | 0.50 | 42.75 | 3.12 | 20 | 2120 |
| 32 | 51.75 | 6.25 | 7.62 | 36.00 | 37.25 | | 13.00 | 32.00 | 0.50 | 45.50 | 3.38 | 20 | 2545 |
| 34 | 55.00 | 6.50 | 8.06 | 38.00 | 39.62 | | 13.75 | 34.00 | 0.56 | 48.25 | 3.62 | 20 | 2970 |
| 36 | 57.50 | 6.75 | 8.44 | 40.25 | 41.88 | | 14.25 | 36.00 | 0.56 | 50.75 | 3.62 | 20 | 3395 |
| B16.47 Ser B | | | | | | | | | | | | | |
| 26 | 40.25 | 5.31 | 6.06 | 30.00 | 29.25 | 10.19 | 26.00 | 0.44 | 35.50 | 2.62 | 20 | 1050 | |
| 28 | 43.50 | 5.81 | 6.56 | 32.25 | 31.38 | 10.88 | 28.00 | 0.50 | 38.25 | 2.88 | 20 | 1520 | |
| 30 | 46.50 | 6.12 | 6.93 | 34.50 | 33.50 | 11.38 | 30.00 | 0.50 | 40.75 | 3.12 | 20 | 1820 | |
| 32 | 48.75 | 6.31 | 7.31 | 36.50 | 35.75 | 11.94 | 32.00 | 0.50 | 43.00 | 3.12 | 20 | 2065 | |
| 34 | 51.75 | 6.75 | 7.68 | 39.00 | 37.88 | 12.56 | 34.00 | 0.56 | 45.50 | 3.38 | 20 | 2450 | |
| 36 | 53.00 | 6.81 | 7.94 | 40.50 | 40.00 | 12.81 | 36.00 | 0.56 | 47.25 | 3.12 | 24 | 2520 | |

Length thru Hub does not include 1/4" Raised Face.

Class 900

B16.47 Series A B16.47 Series B



WELDING NECK

| Nominal Size | Outside Dia. O | Thickness C | | Raised Face Dia. R | Hub Dia. X | Bore B | Length Thru Hub Y | Dia. Hub at Bevel A | Fillet Radius r | Drilling | | | Approx. Wt. WNF |
|--|----------------|-------------|-------|--------------------|------------|-------------------------------|-------------------|---------------------|-----------------|-------------|------------|-----------|-----------------|
| | | WNF | BF | | | | | | | Bolt Circle | Dia. Holes | No. Holes | |
| B16.47 Ser A and Ser B are identical in sizes 38" thru 48". | | | | | | | | | | | | | |
| 38 | 57.50 | 7.50 | 8.50 | 43.25 | 42.25 | To be specified by purchaser. | 13.88 | 38.00 | 0.75 | 50.75 | 3.62 | 20 | 3385 |
| 40 | 59.50 | 7.75 | 8.81 | 45.75 | 44.38 | | 14.31 | 40.00 | 0.81 | 52.75 | 3.62 | 24 | 3620 |
| 42 | 61.50 | 8.12 | 9.12 | 47.75 | 46.31 | | 14.63 | 42.00 | 0.81 | 54.75 | 3.62 | 24 | 3960 |
| 44 | 64.88 | 8.44 | 9.56 | 50.00 | 48.62 | | 15.38 | 44.00 | 0.88 | 57.62 | 3.88 | 24 | 4300 |
| 46 | 68.25 | 8.88 | 10.06 | 52.50 | 50.88 | | 16.18 | 46.00 | 0.88 | 60.50 | 4.12 | 24 | 4640 |
| 48 | 70.25 | 9.19 | 10.38 | 54.50 | 52.88 | | 16.50 | 48.00 | 0.94 | 62.50 | 4.12 | 24 | 4980 |

Length thru Hub does not include 1/4" Raised Face.