

## Approx weight of forged flanges - ASME B16.5

**Class 150** unit: kg

| DN  | NPS | Slip On | Welding Neck | Socket<br>Welding | Threaded | Lapped | Blind |
|-----|-----|---------|--------------|-------------------|----------|--------|-------|
| 15  | 1/2 | 0.41    | 0.5          | 0.42              | 0.42     | 0.47   | 0.43  |
| 20  | 3/4 | 0.59    | 0.74         | 0.6               | 0.61     | 0.66   | 0.64  |
| 25  | 1   | 0.82    | 1.06         | 0.83              | 0.84     | 0.89   | 0.9   |
| 32  | 1 ¼ | 0.99    | 1.31         | 1.02              | 1.02     | 1.06   | 1.13  |
| 40  | 1 ½ | 1.29    | 1.69         | 1.32              | 1.33     | 1.35   | 1.5   |
| 50  | 2   | 2.02    | 2.55         | 2.07              | 2.08     | 2.08   | 2.38  |
| 65  | 2 ½ | 3.42    | 4.26         | 3.52              | 3.54     | 3.56   | 4.09  |
| 80  | 3   | 3.89    | 4.98         | 4.02              | 4.05     | 3.96   | 4.96  |
| 100 | 4   | 5.46    | 7.13         | --                | 5.7      | 5.55   | 7.18  |
| 125 | 5   | 6.24    | 8.93         | --                | 6.61     | 6.38   | 8.83  |
| 150 | 6   | 7.6     | 10.8         | --                | 8.14     | 7.69   | 11.6  |
| 200 | 8   | 12.5    | 18.1         | --                | 13.2     | 12.6   | 20.1  |
| 250 | 10  | 16.4    | 24.1         | --                | 17.7     | 16.5   | 28.8  |
| 300 | 12  | 26.8    | 37.7         | --                | 28.4     | 27.1   | 44.1  |
| 350 | 14  | 35.2    | 49.7         | --                | 37.5     | 39.7   | 59    |
| 400 | 16  | 44.6    | 60.6         | --                | 47.6     | 50.9   | 76.2  |
| 450 | 18  | 49.2    | 69.5         | --                | 53       | 56.8   | 94.4  |
| 500 | 20  | 62.6    | 86.6         | --                | 67.3     | 71.8   | 123.8 |
| 600 | 24  | 88.2    | 118.4        | --                | 95.4     | 99.8   | 187.7 |

**Class 300** unit: kg

| DN  | NPS | Slip On | Welding Neck | Socket<br>Welding | Threaded | Lapped | Blind |
|-----|-----|---------|--------------|-------------------|----------|--------|-------|
| 15  | 1/2 | 0.65    | 0.75         | 0.67              | 0.65     | 0.71   | 0.64  |
| 20  | 3/4 | 1.08    | 1.24         | 1.11              | 1.09     | 1.12   | 1.06  |
| 25  | 1   | 1.39    | 1.64         | 1.43              | 1.41     | 1.47   | 1.42  |
| 32  | 1 ¼ | 1.74    | 2.13         | 1.8               | 1.77     | 1.83   | 1.86  |
| 40  | 1 ½ | 2.5     | 2.94         | 2.58              | 2.54     | 2.6    | 2.67  |
| 50  | 2   | 2.91    | 3.47         | 3.02              | 2.97     | 2.94   | 3.21  |
| 65  | 2 ½ | 4.37    | 5.28         | 4.57              | 4.48     | 4.33   | 4.88  |
| 80  | 3   | 5.91    | 7.11         | 6.2               | 6.06     | 5.88   | 6.9   |
| 100 | 4   | 9.8     | 11.6         | --                | 10       | 9.71   | 11.7  |
| 125 | 5   | 12.3    | 15.5         | --                | 12.8     | 12.2   | 15.8  |
| 150 | 6   | 16.1    | 19.9         | --                | 16.7     | 15.8   | 21.4  |
| 200 | 8   | 24      | 30.1         | --                | 24.8     | 23.5   | 34.3  |
| 250 | 10  | 34.3    | 43.6         | --                | 35.7     | 36.3   | 53.8  |
| 300 | 12  | 49.7    | 62.7         | --                | 51.5     | 53.8   | 79    |
| 350 | 14  | 70      | 87.7         | --                | 72.5     | 74.5   | 106.1 |
| 400 | 16  | 89.5    | 109.8        | --                | 92.7     | 96.3   | 139.2 |
| 450 | 18  | 108     | 133.4        | --                | 111.9    | 114.8  | 175.6 |
| 500 | 20  | 134.8   | 162.2        | --                | 139.6    | 142.5  | 222.6 |
| 600 | 24  | 201.9   | 235.4        | --                | 209.4    | 209.3  | 340.6 |

### Approx weight of forged flanges - ASME B16.5

**Class 600** unit: kg

| DN  | NPS | Slip On | Welding Neck | Socket<br>Welding | Threaded | Lapped | Blind |
|-----|-----|---------|--------------|-------------------|----------|--------|-------|
| 15  | 1/2 | 0.74    | 0.86         | 0.74              | 0.74     | 0.71   | 0.76  |
| 20  | 3/4 | 1.21    | 1.39         | 1.21              | 1.22     | 1.17   | 1.23  |
| 25  | 1   | 1.57    | 1.83         | 1.57              | 1.58     | 1.5    | 1.64  |
| 32  | 1 ¼ | 2.11    | 2.52         | 2.12              | 2.14     | 1.95   | 2.32  |
| 40  | 1 ½ | 2.97    | 3.46         | 2.98              | 3.01     | 2.83   | 3.27  |
| 50  | 2   | 3.65    | 4.28         | 3.65              | 3.71     | 3.41   | 4.18  |
| 65  | 2 ½ | 5.29    | 6.3          | 5.36              | 5.39     | 4.99   | 6.16  |
| 80  | 3   | 7.11    | 8.44         | 7.22              | 5.39     | 6.68   | 8.58  |
| 100 | 4   | 14.8    | 17.3         | --                | 15       | 14.2   | 17.6  |
| 125 | 5   | 24.4    | 28.7         | --                | 24.9     | 23.7   | 29.5  |
| 150 | 6   | 28.7    | 33.6         | --                | 29.3     | 27.8   | 36.1  |
| 200 | 8   | 43.7    | 52           | --                | 44.6     | 42.4   | 59.4  |
| 250 | 10  | 71.3    | 85.6         | --                | 72.9     | 75.9   | 98.7  |
| 300 | 12  | 84.9    | 102.3        | --                | 86.7     | 90.7   | 125.2 |
| 350 | 14  | 99.4    | 121          | --                | 102.1    | 108.7  | 152   |
| 400 | 16  | 141.1   | 167.5        | --                | 144.5    | 154.2  | 213.4 |
| 450 | 18  | 174.6   | 202.8        | --                | 178.8    | 189.2  | 274.3 |
| 500 | 20  | 222.1   | 253.3        | --                | 227.4    | 242.7  | 352.2 |
| 600 | 24  | 313.3   | 354.9        | --                | 321.8    | 345.7  | 535.1 |

**Class 900** unit: kg

| DN  | NPS | Slip On | Welding Neck | Socket<br>Welding | Threaded | Lapped | Blind |
|-----|-----|---------|--------------|-------------------|----------|--------|-------|
| 15  | 1/2 | 1.74    | 1.88         | --                | 1.74     | 1.7    | 1.7   |
| 20  | 3/4 | 2.34    | 2.58         | --                | 2.35     | 2.29   | 2.29  |
| 25  | 1   | 3.46    | 3.78         | --                | 3.48     | 3.39   | 3.39  |
| 32  | 1 ¼ | 3.98    | 4.42         | --                | 4.01     | 3.87   | 3.87  |
| 40  | 1 ½ | 5.52    | 6.17         | --                | 5.57     | 5.38   | 5.38  |
| 50  | 2   | 9.74    | 10.9         | --                | 9.8      | 9.49   | 9.49  |
| 65  | 2 ½ | 13.8    | 15.3         | --                | 13.9     | 13.5   | 14    |
| 80  | 3   | 11.5    | 13.7         | --                | 11.6     | 11     | 13.1  |
| 100 | 4   | 19.5    | 22.6         | --                | 19.7     | 18.9   | 26.9  |
| 125 | 5   | 32.1    | 37           | --                | 32.6     | 31.4   | 36.5  |
| 150 | 6   | 41      | 48.3         | --                | 41.7     | 40     | 47.4  |
| 200 | 8   | 70.6    | 80.4         | --                | 71.6     | 72.2   | 82.5  |
| 250 | 10  | 99.8    | 120.5        | --                | 101.5    | 104.9  | 122   |
| 300 | 12  | 132.5   | 160.9        | --                | 134.4    | 141.1  | 173   |
| 350 | 14  | 151.9   | 186.9        | --                | 154.7    | 161.2  | 206   |
| 400 | 16  | 184.5   | 235.1        | --                | 188.2    | 199.2  | 259   |
| 450 | 18  | 255.9   | 319.3        | --                | 260.5    | 276.9  | 367   |
| 500 | 20  | 313.5   | 389.3        | --                | 319.3    | 347.1  | 463   |
| 600 | 24  | 602.7   | 721.3        | --                | 612.4    | 676.9  | 876   |

## Approx weight of forged flanges - ASME B16.5

**Class 1500** unit: kg

| DN  | NPS | Slip On | Welding Neck | Socket<br>Welding | Threaded | Lapped | Blind  |
|-----|-----|---------|--------------|-------------------|----------|--------|--------|
| 15  | 1/2 | 1.74    | 1.87         | 1.76              | 1.74     | 1.7    | 1.77   |
| 20  | 3/4 | 2.34    | 2.58         | 2.37              | 2.35     | 2.29   | 2.42   |
| 25  | 1   | 3.46    | 3.78         | 3.53              | 3.48     | 3.39   | 3.6    |
| 32  | 1 ¼ | 3.98    | 4.42         | 4.06              | 4.01     | 3.87   | 4.21   |
| 40  | 1 ½ | 5.52    | 6.17         | 5.62              | 5.57     | 5.38   | 5.92   |
| 50  | 2   | 9.74    | 11           | 9.96              | 9.8      | 9.49   | 9.95   |
| 65  | 2 ½ | 13.8    | 15.3         | 14.2              | 13.9     | 13.5   | 14.1   |
| 80  | 3   | --      | 19.9         | --                | --       | 19.5   | 18.9   |
| 100 | 4   | --      | 30.2         | --                | --       | 30     | 29.8   |
| 125 | 5   | --      | 57.8         | --                | --       | 57.3   | 58.5   |
| 150 | 6   | --      | 69.5         | --                | --       | 68.8   | 72.2   |
| 200 | 8   | --      | 119.6        | --                | --       | 115.8  | 122.9  |
| 250 | 10  | --      | 207.5        | --                | --       | 200.3  | 211.6  |
| 300 | 12  | --      | 312.9        | --                | --       | 317.9  | 317.3  |
| 350 | 14  | --      | 413.6        | --                | --       | 428.1  | 422.6  |
| 400 | 16  | --      | 528.3        | --                | --       | 551.3  | 577.9  |
| 450 | 18  | --      | 675.1        | --                | --       | 717.8  | 763.3  |
| 500 | 20  | --      | 860.8        | --                | --       | 870.8  | 968.8  |
| 600 | 24  | --      | 1376.7       | --                | --       | 1390.3 | 1562.3 |

**Class 2500** unit: kg

| DN  | NPS | Slip On | Welding Neck | Socket<br>Welding | Threaded | Lapped | Blind |
|-----|-----|---------|--------------|-------------------|----------|--------|-------|
| 15  | 1/2 | --      | 3.27         | --                | 3.07     | 3.02   | 3.09  |
| 20  | 3/4 | --      | 3.82         | --                | 3.5      | 3.44   | 3.54  |
| 25  | 1   | --      | 5.44         | --                | 4.94     | 4.85   | 5.05  |
| 32  | 1 ¼ | --      | 7.98         | --                | 7.25     | 7.1    | 7.42  |
| 40  | 1 ½ | --      | 11.4         | --                | 10.3     | 10.1   | 10.6  |
| 50  | 2   | --      | 16.8         | --                | 14.9     | 14.6   | 15.6  |
| 65  | 2 ½ | --      | 24.2         | --                | 21.3     | 20.8   | 22.4  |
| 80  | 3   | --      | 37.6         | --                | --       | 32.2   | 34.9  |
| 100 | 4   | --      | 56.8         | --                | --       | 48.8   | 53.6  |
| 125 | 5   | --      | 96.3         | --                | --       | 82.6   | 91.2  |
| 150 | 6   | --      | 149.5        | --                | --       | 127.9  | 142.5 |
| 200 | 8   | --      | 224.4        | --                | --       | 183.5  | 211.6 |
| 250 | 10  | --      | 436.8        | --                | --       | 355.7  | 413.5 |
| 300 | 12  | --      | 622.9        | --                | --       | 498.3  | 589.6 |