

| ASA 150   |                   |           |                            |              |       |
|-----------|-------------------|-----------|----------------------------|--------------|-------|
| Size (mm) | Flange (Diameter) | Thickness | Diameter & Length of Bolts | No. of Holes | P.C.D |
| 15        | 89                | 11        | 1/2 x 2                    | 4            | 60    |
| 20        | 98                | 14        | 1/2 x 2                    | 4            | 70    |
| 25        | 114               | 11        | 1/2 x 2 1/4                | 4            | 79    |
| 32        | 117               | 13        | 1/2 x 2 1/4                | 4            | 89    |
| 40        | 127               | 14        | 1/2 x 2 1/4                | 4            | 98    |
| 50        | 152               | 16        | 5/8 x 2 3/4                | 4            | 121   |
| 65        | 178               | 17        | 5/8 x 3                    | 4            | 140   |
| 80        | 191               | 19        | 5/8 x 3                    | 4            | 152   |
| 100       | 229               | 24        | 5/8 x 3                    | 8            | 191   |
| 125       | 254               | 24        | 3/4 x 3 1/4                | 8            | 216   |
| 150       | 279               | 25        | 3/4 x 3 1/4                | 8            | 241   |
| 200       | 343               | 29        | 3/4 x 3 1/4                | 8            | 298   |
| 250       | 406               | 30        | 7/8 x 4                    | 12           | 362   |
| 300       | 483               | 32        | 7/8 x 4                    | 12           | 432   |

| ASA 300   |                   |           |                            |              |       |
|-----------|-------------------|-----------|----------------------------|--------------|-------|
| Size (mm) | Flange (Diameter) | Thickness | Diameter & Length of Bolts | No. of Holes | P.C.D |
| 15        | 95                | 13        | 1/2 x 2                    | 4            | 67    |
| 20        | 117               | 16        | 5/8 x 2 1/2                | 4            | 83    |
| 25        | 124               | 17        | 5/8 x 2 1/2                | 4            | 89    |
| 32        | 133               | 19        | 5/8 x 2 3/4                | 4            | 98    |
| 40        | 156               | 21        | 3/4 x 3                    | 4            | 114   |
| 50        | 165               | 22        | 5/8 x 3                    | 8            | 127   |
| 65        | 191               | 25        | 3/4 x 3 1/4                | 8            | 149   |
| 80        | 210               | 29        | 3/4 x 3 1/2                | 8            | 168   |
| 100       | 254               | 32        | 3/4 x 3 3/4                | 8            | 200   |
| 125       | 279               | 35        | 3/4 x 4 1/4                | 12           | 235   |
| 150       | 318               | 37        | 3/4 x 4 1/4                | 12           | 270   |
| 200       | 381               | 41        | 7/8 x 4 3/4                | 12           | 330   |
| 250       | 445               | 41        | 1 x 5 1/2                  | 16           | 387   |
| 300       | 521               | 51        | 1 1/8 x 5 3/4              | 16           | 451   |

| BS4504 PN6 |                   |           |                            |              |       |
|------------|-------------------|-----------|----------------------------|--------------|-------|
| Size (mm)  | Flange (Diameter) | Thickness | Diameter & Length of Bolts | No. of Holes | P.C.D |
| 15         | 80                | 12        | M10 x 40                   | 4            | 55    |
| 20         | 90                | 14        | M10 x 45                   | 4            | 65    |
| 25         | 100               | 14        | M12 x 45                   | 4            | 75    |
| 32         | 120               | 14        | M12 x 50                   | 4            | 90    |
| 40         | 130               | 14        | M12 x 50                   | 4            | 100   |
| 50         | 140               | 14        | M12 x 50                   | 4            | 110   |
| 65         | 160               | 14        | M12 x 50                   | 4            | 130   |
| 80         | 190               | 16        | M16 x 60                   | 4            | 150   |
| 100        | 210               | 16        | M16 x 60                   | 4            | 170   |
| 125        | 240               | 18        | M16 x 60                   | 8            | 200   |
| 150        | 265               | 18        | M16 x 60                   | 8            | 225   |
| 200        | 320               | 20        | M16 x 65                   | 8            | 280   |
| 250        | 375               | 22        | M16 x 70                   | 12           | 335   |
| 300        | 440               | 22        | M20 x 70                   | 12           | 395   |

| BS4504 PN10 |                   |           |                            |              |       |
|-------------|-------------------|-----------|----------------------------|--------------|-------|
| Size (mm)   | Flange (Diameter) | Thickness | Diameter & Length of Bolts | No. of Holes | P.C.D |
| 15          | 95                | 14        | M12 x 45                   | 4            | 65    |
| 20          | 105               | 16        | M12 x 50                   | 4            | 75    |
| 25          | 115               | 16        | M12 x 50                   | 4            | 85    |
| 32          | 140               | 16        | M16 x 60                   | 4            | 100   |
| 40          | 150               | 16        | M16 x 60                   | 4            | 110   |
| 50          | 165               | 18        | M16 x 60                   | 4            | 125   |
| 65          | 185               | 18        | M16 x 65                   | 8            | 145   |
| 80          | 200               | 20        | M16 x 70                   | 8            | 160   |
| 100         | 220               | 20        | M16 x 70                   | 8            | 180   |
| 125         | 250               | 22        | M16 x 70                   | 8            | 210   |
| 150         | 285               | 22        | M20 x 70                   | 8            | 240   |
| 200         | 340               | 24        | M20 x 80                   | 8            | 295   |
| 250         | 395               | 26        | M20 x 80                   | 12           | 350   |
| 300         | 445               | 26        | M20 x 80                   | 12           | 400   |

| BS4504 PN16 |                   |           |                            |              |       |
|-------------|-------------------|-----------|----------------------------|--------------|-------|
| Size (mm)   | Flange (Diameter) | Thickness | Diameter & Length of Bolts | No. of Holes | P.C.D |
| 15          | 95                | 16        | M12 x 45                   | 4            | 65    |
| 20          | 105               | 18        | M12 x 50                   | 4            | 75    |
| 25          | 115               | 18        | M12 x 45                   | 4            | 85    |
| 32          | 140               | 18        | M16 x 60                   | 4            | 100   |
| 40          | 150               | 18        | M16 x 60                   | 4            | 110   |
| 50          | 165               | 20        | M16 x 60                   | 4            | 125   |
| 65          | 185               | 18        | M16 x 60                   | 4            | 145   |
| 80          | 200               | 20        | M16 x 65                   | 8            | 160   |
| 100         | 220               | 20        | M16 x 70                   | 8            | 180   |
| 125         | 250               | 22        | M16 x 70                   | 8            | 210   |
| 150         | 285               | 22        | M20 x 70                   | 8            | 240   |
| 200         | 340               | 24        | M20 x 90                   | 12           | 295   |
| 250         | 405               | 26        | M24 x 90                   | 12           | 355   |
| 300         | 460               | 28        | M24 x 90                   | 12           | 410   |

| BS4504 PN40 |                   |           |                            |              |       |
|-------------|-------------------|-----------|----------------------------|--------------|-------|
| Size (mm)   | Flange (Diameter) | Thickness | Diameter & Length of Bolts | No. of Holes | P.C.D |
| 15          | 95                | 16        | M12 x 50                   | 4            | 65    |
| 20          | 105               | 18        | M12 x 55                   | 4            | 75    |
| 25          | 115               | 18        | M12 x 55                   | 4            | 85    |
| 32          | 140               | 18        | M16 x 60                   | 4            | 100   |
| 40          | 150               | 18        | M16 x 60                   | 4            | 110   |
| 50          | 165               | 20        | M16 x 65                   | 4            | 125   |
| 65          | 185               | 22        | M16 x 70                   | 8            | 145   |
| 80          | 200               | 24        | M16 x 70                   | 8            | 160   |
| 100         | 235               | 24        | M20 x 80                   | 8            | 190   |
| 125         | 270               | 26        | M24 x 85                   | 8            | 220   |
| 150         | 300               | 28        | M24 x 100                  | 8            | 250   |
| 200         | 375               | 34        | M27 x 100                  | 12           | 320   |
| 250         | 450               | 40        | M30 x 110                  | 12           | 385   |
| 300         | 515               | 48        | M30 x 120                  | 16           | 450   |

| BS10 Table D  |                   |           |                            |              |        |
|---------------|-------------------|-----------|----------------------------|--------------|--------|
| Size (Inches) | Flange (Diameter) | Thickness | Diameter & Length of Bolts | No. of Holes | P.C.D  |
| 1/2           | 3 3/4             | 3/16      | 1/2 x 1 1/2                | 4            | 2 5/8  |
| 3/4           | 4                 | 3/16      | 1/2 x 1 1/2                | 4            | 2 7/8  |
| 1             | 4 1/2             | 3/16      | 1/2 x 1 1/2                | 4            | 3 1/4  |
| 1 1/4         | 4 3/4             | 1/4       | 1/2 x 1 1/2                | 4            | 3 7/16 |
| 1 1/2         | 5 1/4             | 1/4       | 1/2 x 1 1/2                | 4            | 3 7/8  |
| 2             | 6                 | 9/16      | 5/8 x 2                    | 4            | 4 1/2  |
| 2 1/2         | 6 1/2             | 9/16      | 5/8 x 2                    | 4            | 5      |
| 3             | 7 1/4             | 9/16      | 5/8 x 2                    | 4            | 5 3/4  |
| 4             | 8 1/2             | 11/16     | 5/8 x 2 1/4                | 4            | 7      |
| 5             | 10                | 11/16     | 5/8 x 2 1/4                | 8            | 8 1/4  |
| 6             | 11                | 11/16     | 5/8 x 2 1/4                | 8            | 9 1/4  |
| 8             | 13 1/4            | 3/4       | 5/8 x 2 1/4                | 8            | 11 1/2 |
| 10            | 16                | 3/4       | 3/4 x 2 1/2                | 8            | 14     |
| 12            | 18                | 7/8       | 3/4 x 2 1/2                | 12           | 16     |

| BS10 Table E  |                   |           |                            |              |        |
|---------------|-------------------|-----------|----------------------------|--------------|--------|
| Size (Inches) | Flange (Diameter) | Thickness | Diameter & Length of Bolts | No. of Holes | P.C.D  |
| 1/2           | 3 3/4             | 1/4       | 1/2 x 1 1/2                | 4            | 2 5/8  |
| 3/4           | 4                 | 1/4       | 1/2 x 1 1/2                | 4            | 2 7/8  |
| 1             | 4 1/2             | 9/32      | 1/2 x 1 1/2                | 4            | 3 7/16 |
| 1 1/4         | 4 3/4             | 5/16      | 1/2 x 1 1/2                | 4            | 3 7/8  |
| 1 1/2         | 5 1/4             | 11/32     | 1/2 x 1 1/2                | 4            | 4 1/8  |
| 2             | 6                 | 3/8       | 5/8 x 2                    | 4            | 4 1/2  |
| 2 1/2         | 6 1/2             | 15/32     | 5/8 x 2                    | 4            | 5 3/4  |
| 3             | 7 1/4             | 7/16      | 5/8 x 2                    | 4            | 6 1/2  |
| 4             | 8 1/2             | 1/2       | 5/8 x 2 1/4                | 8            | 7 1/2  |
| 5             | 10                | 9/16      | 5/8 x 2 1/4                | 8            | 9 1/4  |
| 6             | 11                | 11/16     | 3/4 x 2 1/2                | 8            | 10 1/4 |
| 8             | 13 1/4            | 3/4       | 3/4 x 2 1/2                | 8            | 12 3/4 |
| 10            | 16                | 7/8       | 3/4 x 3                    | 12           | 15     |
| 12            | 18                | 1         | 7/8 x 3 1/2                | 12           | 17 1/4 |

| BS10 Table F  |                   |           |                            |              |        |
|---------------|-------------------|-----------|----------------------------|--------------|--------|
| Size (Inches) | Flange (Diameter) | Thickness | Diameter & Length of Bolts | No. of Holes | P.C.D  |
| 1/2           | 3 3/4             | 3/8       | 1/2 x 1 1/2                | 4            | 2 5/8  |
| 3/4           | 4                 | 3/8       | 1/2 x 1 1/2                | 4            | 2 7/8  |
| 1             | 4 3/4             | 3/8       | 5/8 x 1 3/4                | 4            | 3 7/16 |
| 1 1/4         | 5 1/4             | 1/2       | 5/8 x 2                    | 4            | 3 7/8  |
| 1 1/2         | 5 1/2             | 1/2       | 5/8 x 2                    | 4            | 4 1/8  |
| 2             | 6 1/2             | 5/8       | 5/8 x 2 1/4                | 4            | 5      |
| 2 1/2         | 7 1/4             | 5/8       | 5/8 x 2 1/4                | 8            | 5 3/4  |
| 3             | 8                 | 5/8       | 5/8 x 2 1/4                | 8            | 6 1/2  |
| 4             | 9                 | 3/4       | 5/8 x 2 1/2                | 8            | 7 1/2  |
| 5             | 11                | 7/8       | 3/4 x 2 3/4                | 8            | 9 1/4  |
| 6             | 12                | 7/8       | 3/4 x 2 3/4                | 12           | 10 1/4 |
| 8             | 14 1/2            | 1         | 3/4 x 3 1/2                | 12           | 12 3/4 |
| 10            | 17                | 1         | 7/8 x 3 1/4                | 12           | 15     |
| 12            | 19 1/4            | 1 1/8     | 7/8 x 3 1/2                | 16           | 17 1/4 |

| BS10 Table H  |                   |           |                            |              |        |
|---------------|-------------------|-----------|----------------------------|--------------|--------|
| Size (Inches) | Flange (Diameter) | Thickness | Diameter & Length of Bolts | No. of Holes | P.C.D  |
| 1/2           | 4 1/2             | 1/2       | 5/8 x 2                    | 4            | 3 1/4  |
| 3/4           | 4 1/2             | 1/2       | 5/8 x 2                    | 4            | 3 1/4  |
| 1             | 4 3/4             | 9/16      | 5/8 x 2                    | 4            | 3 7/16 |
| 1 1/4         | 5 1/4             | 11/16     | 5/8 x 2 1/4                | 4            | 3 7/8  |
| 1 1/2         | 5 1/2             | 11/16     | 5/8 x 2 1/4                | 4            | 4 1/8  |
| 2             | 6 1/2             | 3/4       | 5/8 x 2 1/2                | 4            | 5      |
| 2 1/2         | 7 1/4             | 3/4       | 5/8 x 2 1/2                | 8            | 5 3/4  |
| 3             | 8                 | 7/8       | 5/8 x 2 3/4                | 8            | 6 1/2  |
| 4             | 9                 | 1         | 5/8 x 3                    | 8            | 7 1/2  |
| 5             | 11                | 1 1/8     | 3/4 x 3 3/4                | 8            | 9 1/4  |
| 6             | 12                | 1 1/8     | 3/4 x 3 1/4                | 12           | 10 1/4 |
| 8             | 14 1/2            | 1 1/4     | 3/4 x 3 1/2                | 12           | 12 3/4 |
| 10            | 17                | 1 3/8     | 7/8 x 4                    | 12           | 15     |
| 12            | 19 1/4            | 1 1/2     | 7/8 x 4 1/2                | 16           | 17 1/4 |