

## DIMENSIONAL STANDARD · IS 6392

## IS 6392 PN 6 Flange Dimensions

IS 6392 PN 6 plate (slip-on), weld neck and blind flange dimensions in mm: OD, thickness, raised face, PCD and bolting.

This chart gives **IS 6392 PN 6** steel pipe flange dimensions in millimetres — outside diameter, thickness, raised face, bolt circle (PCD) and bolting for plate flanges for welding (slip-on), weld neck and blind flanges. IS 6392 is the Indian Standard for steel pipe flanges and is widely specified on Indian boiler, water, refinery and power projects.

Teshi Group manufactures IS 6392 flanges in India alongside its ASME B16.5 and EN 1092-1 range.

- D** Outside diameter of flange  
**A** Pipe outside diameter (hub diameter at the weld end)  
**C** Flange thickness, excluding raised face unless stated  
**d1** Raised face diameter  
**f** Raised face height  
**H** Length through hub / neck length  
**K** Bolt circle (pitch circle) diameter  
**n** Number of bolts  
**L** Bolt hole diameter  
**Bolt** Bolt size (metric M or inch diameter)

## PN 6 (Table 5) — plate flanges for welding (slip-on plate)

| Size | A<br>Pipe OD | D<br>Flange OD | C<br>Flange | d1<br>Raised face | f<br>RF height | K<br>Bolt circle | n<br>Bolts | L<br>Hole dia | Bolt<br>Size |
|------|--------------|----------------|-------------|-------------------|----------------|------------------|------------|---------------|--------------|
| 10   | 17.2         | 75             | 12          | 35                | 2              | 50               | 4          | 11            | M10          |
| 15   | 21.3         | 80             | 12          | 40                | 2              | 55               | 4          | 11            | M10          |
| 20   | 26.9         | 90             | 14          | 50                | 2              | 65               | 4          | 11            | M10          |
| 25   | 33.7         | 100            | 14          | 60                | 2              | 75               | 4          | 11            | M10          |
| 32   | 42.4         | 120            | 16          | 70                | 2              | 90               | 4          | 14            | M12          |
| 40   | 48.3         | 130            | 16          | 80                | 3              | 100              | 4          | 14            | M12          |
| 50   | 60.3         | 140            | 16          | 90                | 3              | 110              | 4          | 14            | M12          |
| 65   | 76.1         | 160            | 16          | 110               | 3              | 130              | 4          | 14            | M12          |
| 80   | 88.9         | 190            | 18          | 120               | 3              | 150              | 4          | 18            | M16          |
| 100  | 114.3        | 210            | 18          | 148               | 3              | 170              | 4          | 18            | M16          |
| 125  | 139.7        | 240            | 20          | 178               | 3              | 200              | 8          | 18            | M16          |
| 150  | 168.3        | 265            | 20          | 202               | 3              | 225              | 8          | 18            | M16          |
| 200  | 219.1        | 320            | 22          | 258               | 3              | 280              | 8          | 18            | M16          |
| 250  | 273          | 375            | 24          | 312               | 3              | 335              | 12         | 18            | M16          |
| 300  | 323.9        | 440            | 24          | 365               | 4              | 395              | 12         | 22            | M20          |
| 350  | 355.6        | 493            | 26          | 415               | 4              | 445              | 12         | 22            | M20          |
| 400  | 406.4        | 540            | 28          | 465               | 4              | 495              | 16         | 22            | M20          |

| Size | A<br>Pipe OD | D<br>Flange OD | C<br>Flange | d1<br>Raised face | f<br>RF height | K<br>Bolt circle | n<br>Bolts | L<br>Hole dia | Bolt<br>Size |
|------|--------------|----------------|-------------|-------------------|----------------|------------------|------------|---------------|--------------|
| 500  | 508          | 645            | 30          | 570               | 4              | 600              | 20         | 22            | M20          |
| 600  | 609.6        | 755            | 32          | 670               | 5              | 705              | 20         | 26            | M24          |
| 700  | 711.2        | 860            | 34          | 775               | 5              | 810              | 24         | 26            | M24          |
| 800  | 812.8        | 975            | 38          | 880               | 5              | 920              | 24         | 30            | M27          |
| 900  | 914.4        | 1075           | 42          | 980               | 5              | 1020             | 24         | 30            | M27          |
| 1000 | 1016         | 1175           | 46          | 1080              | 5              | 1120             | 28         | 30            | M27          |
| 1200 | 1220         | 1405           | 56          | 1295              | 5              | 1340             | 32         | 33            | M30          |
| 1400 | 1420         | 1630           | 66          | 1510              | 5              | 1560             | 36         | 36            | M33          |
| 1600 | 1620         | 1830           | 74          | 1710              | 5              | 1760             | 40         | 36            | M33          |
| 1800 | 1820         | 2045           | 84          | 1920              | 5              | 1970             | 44         | 39            | M36          |
| 2000 | 2020         | 2265           | 92          | 2125              | 5              | 2180             | 48         | 42            | M39          |

### PN 6 (Table 4 weld-neck + Table 9 blind) — thickness and neck

| Size | A<br>Pipe OD | D<br>Flange OD | C<br>Weld neck | H<br>WN length | d1<br>Raised face | f<br>RF height | n<br>Bolts | L<br>Hole dia | Bolt<br>Size | C<br>Blind |
|------|--------------|----------------|----------------|----------------|-------------------|----------------|------------|---------------|--------------|------------|
| 10   | 17.2         | 75             | 12             | 28             | 35                | 2              | 4          | 11            | M10          | 12         |
| 15   | 21.3         | 80             | 12             | 30             | 40                | 2              | 4          | 11            | M10          | 12         |
| 20   | 26.9         | 90             | 14             | 32             | 50                | 2              | 4          | 11            | M10          | —          |
| 25   | 33.7         | 100            | 14             | 35             | 60                | 2              | 4          | 11            | M10          | —          |
| 32   | 42.4         | 120            | 14             | 35             | 70                | 2              | 4          | 14            | M12          | 14         |
| 40   | 48.3         | 130            | 14             | 38             | 80                | 3              | 4          | 14            | M12          | 14         |
| 50   | 60.3         | 140            | 14             | 38             | 90                | 3              | 4          | 14            | M12          | 14         |
| 65   | 76.1         | 160            | 14             | —              | 110               | 3              | 4          | 14            | M12          | 14         |
| 80   | 88.9         | 190            | 16             | 42             | —                 | 3              | 4          | 18            | M16          | 16         |
| 100  | 114.3        | 210            | 16             | 45             | 148               | 3              | 4          | 18            | M16          | 16         |
| 125  | 139.7        | 240            | 18             | 48             | 178               | 3              | 8          | 18            | M16          | 18         |
| 150  | 168.3        | 265            | 18             | 48             | 202               | 3              | 8          | 18            | M16          | 18         |
| 175  | —            | 295            | —              | —              | —                 | —              | 8          | —             | M16          | 20         |
| 200  | 219.1        | 320            | 20             | 55             | 258               | 3              | 8          | 18            | M16          | 20         |
| 250  | 273          | 375            | 22             | 60             | 312               | 3              | 12         | 18            | M16          | 22         |
| 300  | 323.9        | 440            | 22             | 62             | 365               | 4              | 12         | 22            | M20          | 22         |
| 350  | 355.6        | 490            | 22             | 62             | 415               | 4              | 12         | 22            | M20          | 22         |
| 400  | 406.4        | 540            | 22             | 65             | 465               | 4              | 16         | 22            | M20          | 22         |
| 500  | 508          | 645            | 24             | 68             | 570               | 4              | 20         | 22            | M20          | 24         |
| 600  | 609.6        | 755            | 24             | 70             | 670               | 5              | 20         | 26            | M24          | —          |
| 700  | 711.2        | 860            | 24             | 70             | 775               | 5              | 24         | 26            | M24          | —          |

| Size | A<br>Pipe OD | D<br>Flange OD | C<br>Weld neck | H<br>WN length | d1<br>Raised face | f<br>RF height | n<br>Bolts | L<br>Hole dia | Bolt<br>Size | C<br>Blind |
|------|--------------|----------------|----------------|----------------|-------------------|----------------|------------|---------------|--------------|------------|
| 800  | 812.8        | 975            | 24             | 70             | 880               | 5              | 24         | 30            | M27          | —          |
| 900  | 914.4        | 1075           | 26             | 70             | 980               | 5              | 24         | 30            | M27          | —          |
| 1000 | 1016         | 1175           | 26             | 70             | 1080              | 5              | 28         | 30            | M27          | —          |
| 1200 | 1220         | 1405           | 28             | 90             | 1295              | 5              | 32         | 33            | M30          | —          |
| 1400 | 1420         | 1630           | —              | 90             | 1510              | 5              | 36         | 36            | M33          | —          |
| 1600 | 1620         | 1830           | —              | 90             | 1710              | 5              | 40         | 36            | M33          | —          |
| 1800 | 1820         | 2045           | 36             | 100            | 1920              | 5              | 44         | 39            | M36          | —          |
| 2000 | 2020         | 2265           | 38             | 110            | 2125              | 5              | 48         | 42            | M39          | —          |

## Notes

- All dimensions are in millimetres.
- Blind flanges (Form A or B at the maker's option) use the thickness tabulated in the blind column.
- IS 6392 drilling follows the ISO/DIN metric series, so IS 6392 flanges generally mate with EN 1092-1 / DIN flanges of the same PN — check the raised face and thickness for your flange type.
- Values are nominal, compiled from published copies of the standard; blank cells (—) are values not confirmed from the sources available. Verify against the current edition before design, purchase or fabrication.

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