

ASME B16.5 Class 150 Selected Flange Dimensions

DOCUMENT USE
 Direct-download RFQ check sheet
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Important scope note: this PDF is a selected dimension check sheet for early RFQ screening. It is not a complete ASME B16.5 standard, not a manufacturing drawing and not a substitute for the buyer's purchased/current standard, project drawing, bore schedule, facing requirement, tolerance note or inspection specification.

SOURCE BASIS

Public ASME B16.5 flange dimension reference identifying ASME B16.5 2020 Table 8 / 8C as the source area for Class 150 flange dimensions.

COLUMNS INCLUDED

NPS, outside diameter of flange, minimum flange thickness and hub diameter only. Other dimensions require the full standard or the project drawing.

| CLASS 150 - METRIC DIMENSIONS | | | |
|-------------------------------|--------------|-------------------|-------------|
| NPS | FLANGE OD MM | MIN. THICKNESS MM | HUB DIA. MM |
| 0.5 | 89 | 9.7 | 30 |
| 0.75 | 99 | 11.2 | 38 |
| 1 | 108 | 12.7 | 49 |
| 1.25 | 117 | 14.2 | 59 |
| 1.5 | 127 | 15.9 | 65 |
| 2 | 152 | 17.5 | 78 |
| 2.5 | 178 | 20.6 | 90 |
| 3 | 190 | 22.4 | 108 |
| 3.5 | 216 | 22.4 | 122 |
| 4 | 229 | 22.4 | 135 |
| 5 | 254 | 22.4 | 164 |
| 6 | 279 | 23.9 | 192 |
| 8 | 343 | 26.9 | 246 |
| 10 | 406 | 28.4 | 305 |
| 12 | 483 | 30.2 | 365 |
| 14 | 553 | 33.3 | 400 |
| 16 | 597 | 35.1 | 457 |
| 18 | 635 | 38.1 | 505 |
| 20 | 698 | 41.1 | 559 |
| 22 | 749 | 44.4 | 610 |
| 24 | 813 | 46 | 663 |

| CLASS 150 - U.S. CUSTOMARY DIMENSIONS | | | |
|---------------------------------------|--------------|-------------------|-------------|
| NPS | FLANGE OD IN | MIN. THICKNESS IN | HUB DIA. IN |
| 0.5 | 3.5 | 0.38 | 1.19 |
| 0.75 | 3.88 | 0.44 | 1.5 |
| 1 | 4.25 | 0.5 | 1.94 |
| 1.25 | 4.62 | 0.56 | 2.31 |
| 1.5 | 5 | 0.62 | 2.56 |
| 2 | 6 | 0.69 | 3.06 |
| 2.5 | 7 | 0.81 | 3.56 |
| 3 | 7.5 | 0.88 | 4.25 |
| 3.5 | 8.5 | 0.88 | 4.81 |
| 4 | 9 | 0.88 | 5.31 |
| 5 | 10 | 0.88 | 6.44 |
| 6 | 11 | 0.94 | 7.56 |
| 8 | 13.5 | 1.06 | 9.69 |
| 10 | 16 | 1.12 | 12 |
| 12 | 19 | 1.19 | 14.38 |
| 14 | 21 | 1.31 | 15.75 |
| 16 | 23.5 | 1.38 | 18 |
| 18 | 25 | 1.5 | 19.88 |
| 20 | 27.5 | 1.62 | 22 |
| 22 | 29.5 | 1.75 | 24 |
| 24 | 32 | 1.81 | 26.12 |

How to use this sheet in an RFQ

- Use it only to screen whether the requested NPS and Class 150 family are aligned before sending a formal RFQ.
- Send the flange type, facing, bore or pipe schedule, material grade, quantity, standard edition, inspection scope and destination country with the RFQ.
- The minimum thickness note is not applicable for lapped flanges. Lapped, blind, weld neck, slip-on, socket weld and threaded requirements must be confirmed against the full standard and the project drawing.
- Final quotation and production control require the buyer's drawing/specification and the current purchased standard. Do not use this sheet alone for machining or acceptance inspection.

Source reference used for this buyer sheet: Flange Bolt Chart ASME B16.5 flange dimension reference. Final contract dimensions must be checked against the buyer's current ASME B16.5 standard and project drawings. BLD Forge Direct - quote@bldforgedirect.com - +86 180 9217 8292.