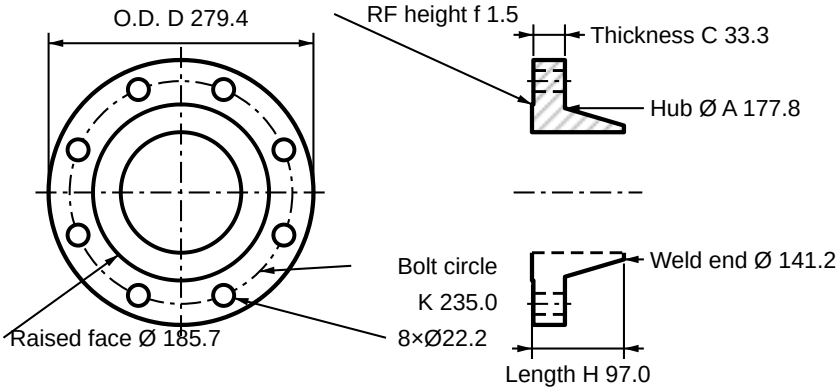
ASME B16.5 · ASME B16.5-2025

# B16.5 Class 300 5″ Weld Neck

DN125 · Weld Neck · Dimensions mm · Weight kg

**ASME B16.5 · 5″ (DN125) · Class 300 · Weld Neck Flange**




Both views share one scale (1:5.5); schematic only

Unit: mm

| Symbol | Item | Value |
|---|---|---|
| D | Outside diameter | 279.4 mm |
| C | Flange thickness / blind thickness | 33.3 mm |
| D2 | Raised face diameter | 185.7 mm |
| f | Raised face height | 1.5 mm |
| K | Bolt circle diameter | 235 mm |
| n | Number of bolt holes | 8 pcs |
| d | Bolt hole diameter | 22.2 mm |
| A | Hub diameter | 177.8 mm |
| H | Hub length / overall length | 97 mm |
| B | Welding-end diameter | 141.2 mm |
| — | Approximate weight | 14.5 kg |

## PRESSURE–TEMPERATURE RATINGS · CLASS 300 · GROUP 1.1

| | | | |
|---|---|---|---|
| ≤ 38 °C<br>**51.0 bar** | 50 °C<br>**49.8 bar** | 100 °C<br>**46.7 bar** | 150 °C<br>**45.1 bar** |
| 200 °C<br>**43.8 bar** | 250 °C<br>**42.0 bar** | 300 °C<br>**39.9 bar** | 325 °C<br>**38.7 bar** |
| 350 °C<br>**37.6 bar** | 375 °C<br>**36.4 bar** | 400 °C<br>**34.6 bar** | 425 °C<br>**28.7 bar** |
| 450 °C<br>**23.0 bar** | 475 °C<br>**17.5 bar** | 500 °C<br>**11.5 bar** | 538 °C<br>**5.8 bar** |

Source: Table 2-1.1 (printed p. 25) — pressure–temperature ratings for Group 1.1 materials, SI units; Group 1.1.

## MATERIAL AND NOTES

**Base material:** ASTM A105 (North America, Middle East, South-East Asia)

**Rating:** ASME classes are not fixed pressures. For ASTM A105 (material group 1.1) the ASME B16.5-2025 ambient rating is 285 psi (19.6 bar) at Class 150, 740 psi (51.0 bar) at Class 300, 985 psi (68.0 bar) at Class 400, 1,480 psi (102.0 bar) at Class 600, 2,2…

**Tolerances / marking:** Tolerances, facing finish, material and marking requirements: ASME B16.5-2025 Sections 6 and 7.

## NOTES / SPECIAL REQUIREMENTS

Work order _____ Inspector _____ Date _____ Travels with the part; file after inspection

**Source:** ASME B16.5-2025; dimensions transcribed from ASME B16.5-2025, verified 2026-11-04. Sheet #368.

This sheet is a factual compilation of published standards tables and is not a substitute for the standard itself. Verify dimensions and ratings against the edition named in your purchase specification before quoting, manufacturing or inspecting a critical part.

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