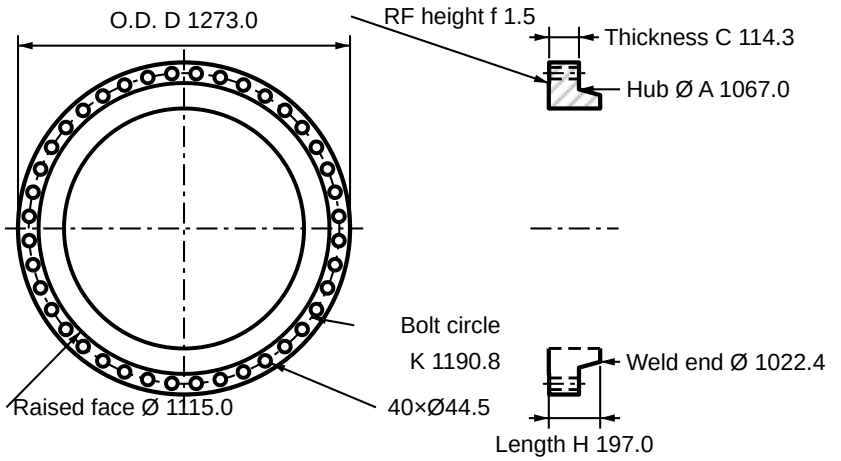
ASME B16.47 SERIES B · ASME B16.47-2025

B16.47 B Class 300 40″ Weld Neck

DN1000 · Weld Neck · Dimensions mm · Weight kg

ASME B16.47 Series B · 40″ (DN1000) · Class 300 · Weld Neck Flange



Both views share one scale (1:20); schematic only

Unit: mm

Symbol	Item	Value
D	Outside diameter	1273 mm
C	Flange thickness / blind thickness	114.3 mm
D2	Raised face diameter	1115 mm
f	Raised face height	1.5 mm
K	Bolt circle diameter	1190.8 mm
n	Number of bolt holes	40 pcs
d	Bolt hole diameter	44.5 mm
A	Hub diameter	1067 mm
H	Hub length / overall length	197 mm
B	Welding-end diameter	1022.4 mm
—	Approximate weight	449 kg

PRESSURE–TEMPERATURE RATINGS · CLASS 300 · GROUP 1.1

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

Source: Table 3 (p. 14) — pressure–temperature ratings for Group 1.1 materials, SI units; Group 1.1.

MATERIAL AND NOTES

Base material: ASTM A105 (North America, Middle East)

Rating: Series B follows the former API 605 dimensions, with a smaller outside diameter and a different bolt pattern from Series A. Ratings are ASME classes 150, 300, 400, 600 and 900, with allowable pressure from the B16.47 tables.

Tolerances / marking: Tolerances, material and marking: ASME B16.47-2025. Series B and Series A are not interchangeable.

NOTES / SPECIAL REQUIREMENTS

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

Source: ASME B16.47-2025, Series B; dimensions transcribed from ASME B16.47-2025, verified 2026-11-04. Sheet #278.

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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