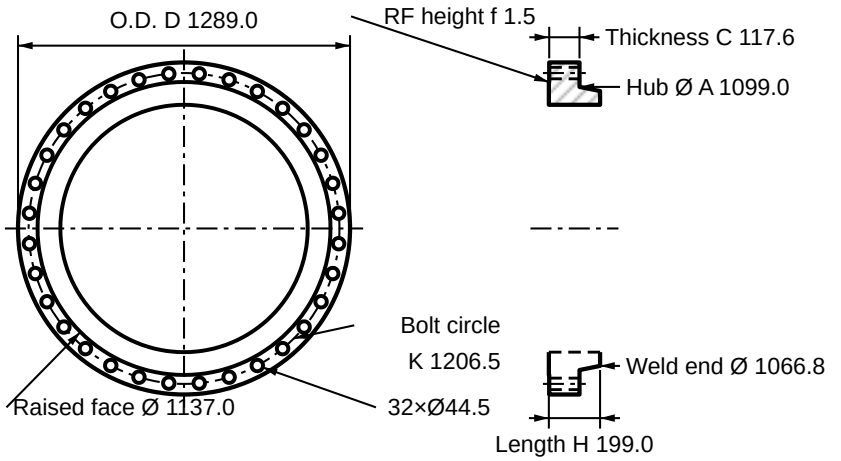
ASME B16.47 SERIES A · ASME B16.47-2025

B16.47 A Class 300 42″ Weld Neck

DN1050 · Weld Neck · Dimensions mm · Weight kg

ASME B16.47 Series A · 42″ (DN1050) · Class 300 · Weld Neck Flange



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

Unit: mm

Symbol	Item	Value
D	Outside diameter	1289 mm
C	Flange thickness / blind thickness	117.6 mm
D2	Raised face diameter	1137 mm
f	Raised face height	1.5 mm
K	Bolt circle diameter	1206.5 mm
n	Number of bolt holes	32 pcs
d	Bolt hole diameter	44.5 mm
A	Hub diameter	1099 mm
H	Hub length / overall length	199 mm
B	Welding-end diameter	1066.8 mm
—	Approximate weight	431 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 A follows the former MSS SP-44 dimensions. Ratings are ASME classes 150, 300, 400, 600 and 900, with allowable pressures read from the B16.47 pressure–temperature tables for the material group and design temperature.

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

NOTES / SPECIAL REQUIREMENTS

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

Source: ASME B16.47-2025, Series A; dimensions transcribed from ASME B16.47-2025, verified 2026-11-04. Sheet #111.

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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