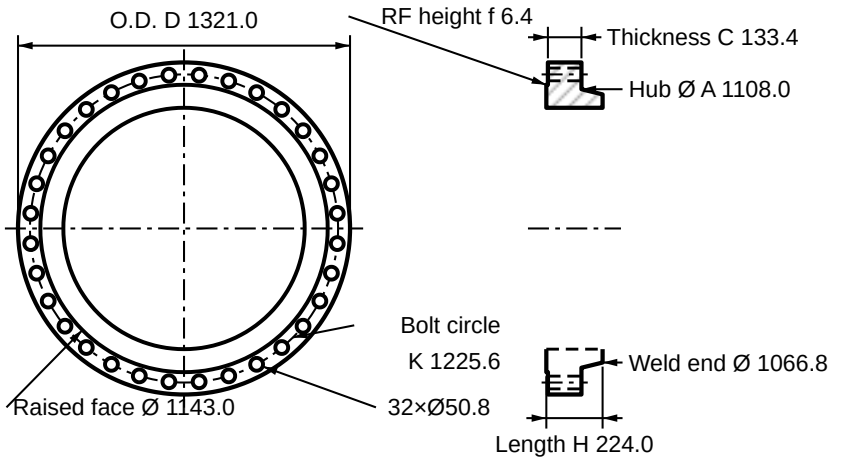
ASME B16.47 SERIES B · ASME B16.47-2025

B16.47 B Class 400 42″ Weld Neck

DN1050 · Weld Neck · Dimensions mm · Weight kg

ASME B16.47 Series B · 42″ (DN1050) · Class 400 · Weld Neck Flange



Both views share one scale (1:21); schematic only

Unit: mm

Symbol	Item	Value
D	Outside diameter	1321 mm
C	Flange thickness / blind thickness	133.4 mm
D2	Raised face diameter	1143 mm
f	Raised face height	6.4 mm
K	Bolt circle diameter	1225.6 mm
n	Number of bolt holes	32 pcs
d	Bolt hole diameter	50.8 mm
A	Hub diameter	1108 mm
H	Hub length / overall length	224 mm
B	Welding-end diameter	1066.8 mm

PRESSURE–TEMPERATURE RATINGS · CLASS 400 · GROUP 1.1

≤ 38 °C **68.0 bar**	50 °C **66.4 bar**	100 °C **62.3 bar**	150 °C **60.1 bar**
200 °C **58.4 bar**	250 °C **56.0 bar**	300 °C **53.2 bar**	325 °C **51.6 bar**
350 °C **50.2 bar**	375 °C **48.5 bar**	400 °C **46.2 bar**	425 °C **38.3 bar**
450 °C **30.6 bar**	475 °C **23.3 bar**	500 °C **15.4 bar**	538 °C **7.7 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 #297.

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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