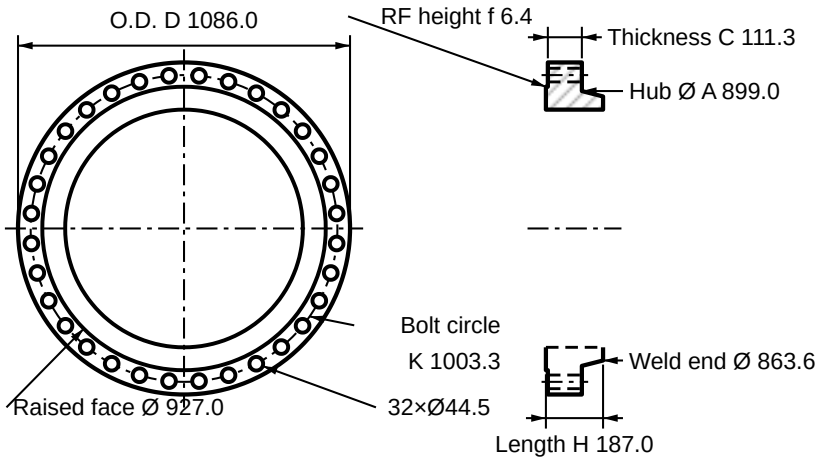
ASME B16.47 SERIES B · ASME B16.47-2025

B16.47 B Class 400 34″ Weld Neck

DN850 · Weld Neck · Dimensions mm · Weight kg

ASME B16.47 Series B · 34″ (DN850) · Class 400 · Weld Neck Flange



Both views share one scale (1:17); schematic only

Unit: mm

Symbol	Item	Value
D	Outside diameter	1086 mm
C	Flange thickness / blind thickness	111.3 mm
D2	Raised face diameter	927 mm
f	Raised face height	6.4 mm
K	Bolt circle diameter	1003.3 mm
n	Number of bolt holes	32 pcs
d	Bolt hole diameter	44.5 mm
A	Hub diameter	899 mm
H	Hub length / overall length	187 mm
B	Welding-end diameter	863.6 mm
—	Approximate weight	313 kg

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 #293.

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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