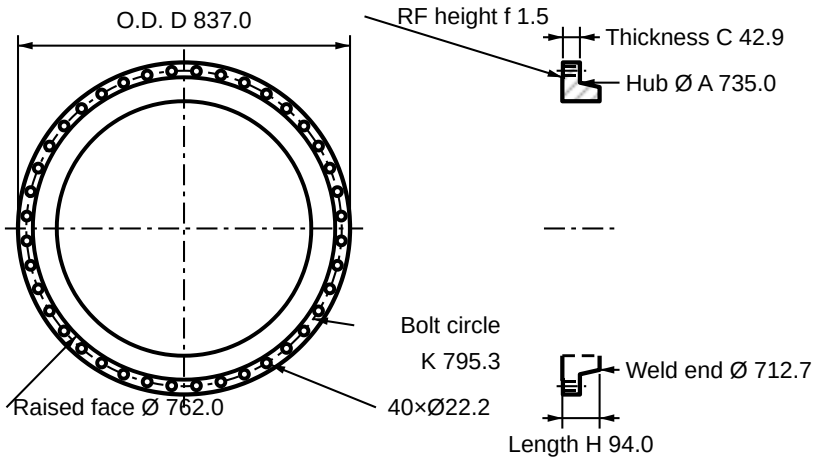
ASME B16.47 SERIES B · ASME B16.47-2025

B16.47 B Class 150 28″ Weld Neck

DN700 · Weld Neck · Dimensions mm · Weight kg

ASME B16.47 Series B · 28″ (DN700) · Class 150 · Weld Neck Flange



Both views share one scale (1:13); schematic only

Unit: mm

Symbol	Item	Value
D	Outside diameter	837 mm
C	Flange thickness / blind thickness	42.9 mm
D2	Raised face diameter	762 mm
f	Raised face height	1.5 mm
K	Bolt circle diameter	795.3 mm
n	Number of bolt holes	40 pcs
d	Bolt hole diameter	22.2 mm
A	Hub diameter	735 mm
H	Hub length / overall length	94 mm
B	Welding-end diameter	712.7 mm
—	Approximate weight	63.5 kg

PRESSURE–TEMPERATURE RATINGS · CLASS 150 · GROUP 1.1

≤ 38 °C **19.6 bar**	50 °C **19.1 bar**	100 °C **17.7 bar**	150 °C **15.8 bar**
200 °C **13.8 bar**	250 °C **12.1 bar**	300 °C **10.2 bar**	325 °C **9.3 bar**
350 °C **8.4 bar**	375 °C **7.4 bar**	400 °C **6.5 bar**	425 °C **5.5 bar**
450 °C **4.6 bar**	475 °C **3.7 bar**	500 °C **2.8 bar**	538 °C **1.4 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 #254.

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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