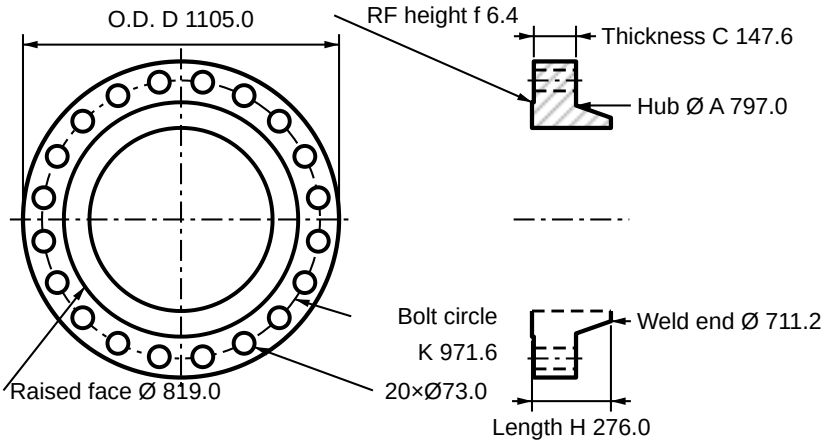
ASME B16.47 SERIES B · ASME B16.47-2025

B16.47 B Class 900 28″ Weld Neck

DN700 · Weld Neck · Dimensions mm · Weight kg

ASME B16.47 Series B · 28″ (DN700) · Class 900 · Weld Neck Flange



Both views share one scale (1:18); schematic only

Unit: mm

Symbol	Item	Value
D	Outside diameter	1105 mm
C	Flange thickness / blind thickness	147.6 mm
D2	Raised face diameter	819 mm
f	Raised face height	6.4 mm
K	Bolt circle diameter	971.6 mm
n	Number of bolt holes	20 pcs
d	Bolt hole diameter	73 mm
A	Hub diameter	797 mm
H	Hub length / overall length	276 mm
B	Welding-end diameter	711.2 mm
—	Approximate weight	689 kg

PRESSURE–TEMPERATURE RATINGS · CLASS 900 · GROUP 1.1

≤ 38 °C 153.1 bar	50 °C 149.3 bar	100 °C 140.1 bar	150 °C 135.2 bar
200 °C 131.5 bar	250 °C 125.9 bar	300 °C 119.7 bar	325 °C 116.0 bar
350 °C 112.9 bar	375 °C 109.2 bar	400 °C 103.9 bar	425 °C 86.2 bar
450 °C 68.9 bar	475 °C 52.5 bar	500 °C 34.6 bar	538 °C 17.4 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 #326.

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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