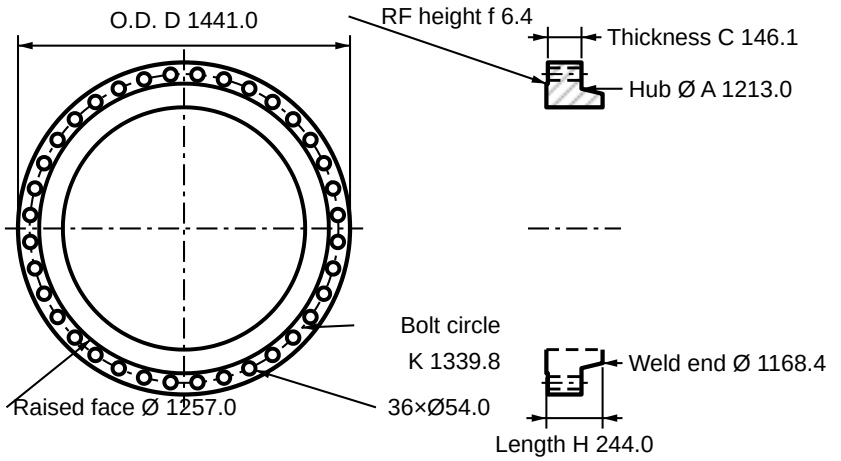
ASME B16.47 SERIES A · ASME B16.47-2025

B16.47 A Class 400 46″ Weld Neck

DN1150 · Weld Neck · Dimensions mm · Weight kg

ASME B16.47 Series A · 46″ (DN1150) · Class 400 · Weld Neck Flange



Both views share one scale (1:23); schematic only

Unit: mm

Symbol	Item	Value
D	Outside diameter	1441 mm
C	Flange thickness / blind thickness	146.1 mm
D2	Raised face diameter	1257 mm
f	Raised face height	6.4 mm
K	Bolt circle diameter	1339.8 mm
n	Number of bolt holes	36 pcs
d	Bolt hole diameter	54 mm
A	Hub diameter	1213 mm
H	Hub length / overall length	244 mm
B	Welding-end diameter	1168.4 mm
—	Approximate weight	692 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 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 #131.

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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