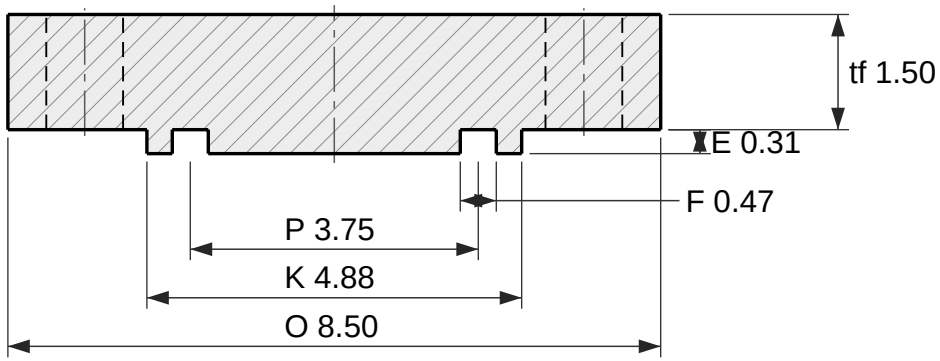
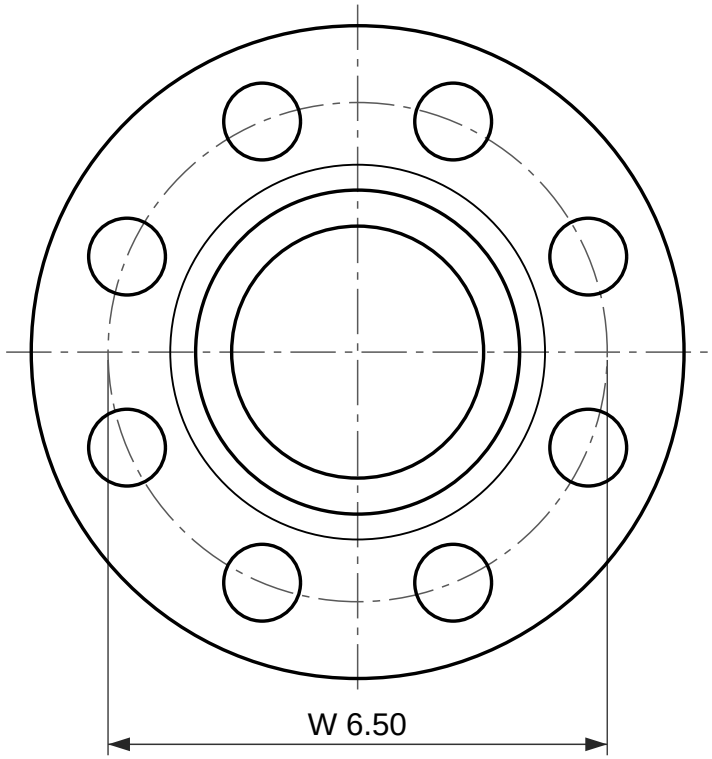
Approx. weight

Material	lb	kg
Carbon steel	22.6	10.3
Stainless steel 304 and 304L	22.8	10.3
Stainless steel 316 and 316L	23.1	10.5

Densities 7.85, 7.9 and 8.0 g/cm3.
Calculated from the dimensions as the standard gives them, with no allowance for tolerance.



Section



8 holes Ø1.00

Face view

Blind flange, ASME B16.5 Class 1500 RJ

NPS 2 (DN 50)

Dimensions per ASME B16.5-2025, inches and millimetres as the standard's own tables give them.
Ring joint facing to ASME B16.5 Table 5, ring and groove number R24. The raised portion stands E above the flange, the same as the depth of the groove, so the bottom of the groove is level with the flange face. Ring joint gasket dimensions are to ASME B16.20 (clause 6.11.1).
tf is the ASME B16.5 dimension, measured without the raised portion; the tf + E row is the same flange measured over the facing.
ASME B16.5 gives Class 1500 the same dimensions as Class 900 in NPS 2; only the marking differs.
Reference drawing. The purchase order and ASME B16.5 govern. Check the latest edition.
Generated at rajendradatacenter.us/flanges/ring-type-joint/

Dimension		in	mm
O	Outside diameter	8.50	216
K	Diameter of the raised portion	4.88	124
E	Depth of the groove, and the raised portion	0.31	7.92
P	Pitch diameter of the groove	3.75	95.25
F	Width of the groove	0.47	11.91
r	Radius at the bottom of the groove	0.03	0.8
tf	Thickness (min), without the raised portion	1.50	38.1
tf + E	Thickness over the raised portion	1.81	46
W	Bolt circle diameter	6.50	165.1
h	Bolt holes, 8 off	1.00	25.4

8 stud bolts of 7/8 in; holes 1.00 in (25.4 mm)

RAJENDRA INDUSTRIAL CORPORATION
rajendradatacenter.us
Drawing RIC-B165-BL1500RJ-2
Scale 1:2.5 on Letter
Units: inches (mm)
Date 2026-11-22
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