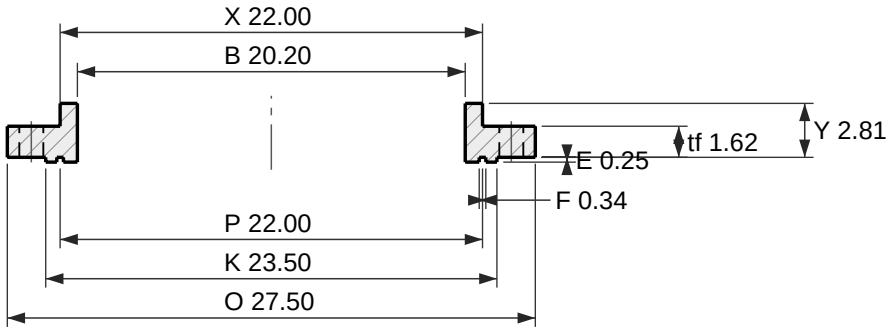
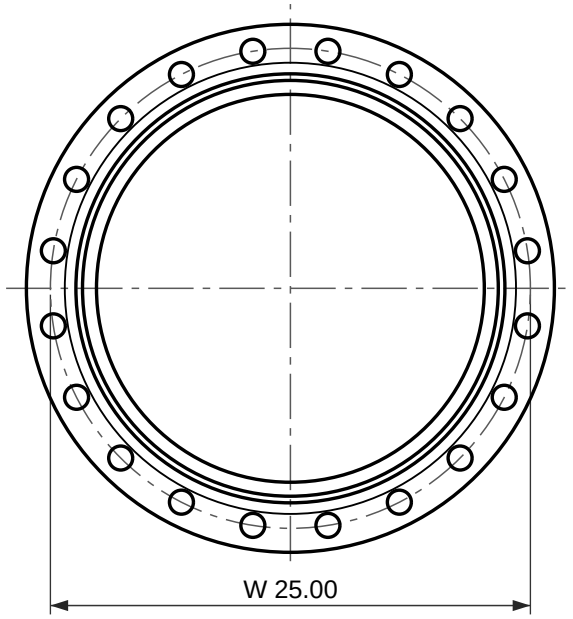
Approx. weight

Material	lb	kg
Carbon steel	141	63.9
Stainless steel 304 and 304L	142	64.3
Stainless steel 316 and 316L	144	65.1

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



20 holes Ø1.25

Face view

Slip-on flange with hub, ASME B16.5 Class 150 RJ

NPS 20 (DN 500)

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 R72. 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 and Y are the ASME B16.5 dimension, measured without the raised portion; the tf + E and Y + E rows are the same flange measured over the facing.
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	27.50	698
K Diameter of the raised portion	23.50	597
E Depth of the groove, and the raised portion	0.25	6.35
P Pitch diameter of the groove	22.00	558.8
F Width of the groove	0.34	8.74
r Radius at the bottom of the groove	0.03	0.8
tf Thickness (min), without the raised portion	1.62	41.1
tf + E Thickness over the raised portion	1.87	47.5
Y Length through hub, without the raised portion	2.81	71
Y + E Length through hub, over the raised portion	3.06	77.4
X Hub diameter at base	22.00	559
B Bore	20.20	513.1
W Bolt circle diameter	25.00	635
h Bolt holes, 20 off	1.25	31.8

20 stud bolts of 1-1/8 in; holes 1.25 in (31.8 mm)

RAJENDRA INDUSTRIAL CORPORATION

rajendradatacenter.us
Drawing RIC-B165-SO150RJ-20
Scale 1:10 on Letter
Units: inches (mm)
Date 2026-11-22
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