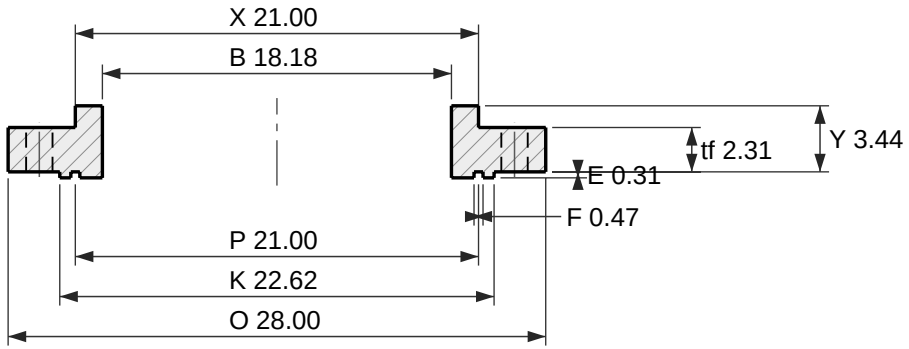
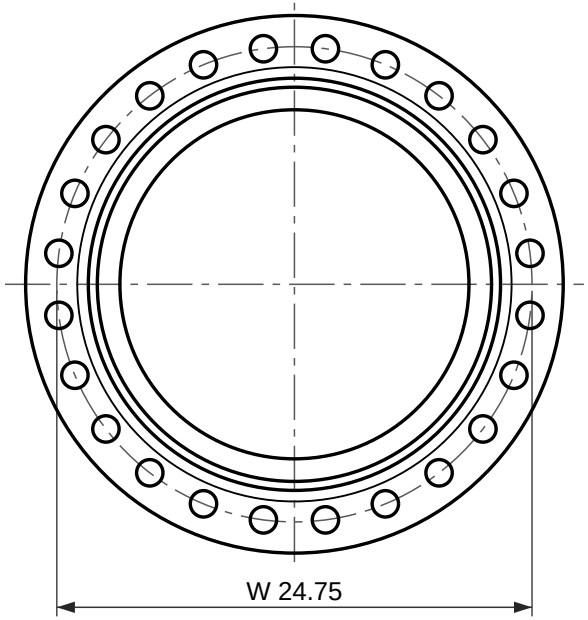
Approx. weight

Material	lb	kg
Carbon steel	248	112
Stainless steel 304 and 304L	249	113
Stainless steel 316 and 316L	252	114

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



24 holes Ø1.38

Face view

Slip-on flange with hub, ASME B16.5 Class 300 RJ

NPS 18 (DN 450)

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 R69. 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	28.00	711
K Diameter of the raised portion	22.62	575
E Depth of the groove, and the raised portion	0.31	7.92
P Pitch diameter of the groove	21.00	533.4
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	2.31	58.7
tf + E Thickness over the raised portion	2.62	66.6
Y Length through hub, without the raised portion	3.44	87
Y + E Length through hub, over the raised portion	3.75	94.9
X Hub diameter at base	21.00	533
B Bore	18.18	461.8
W Bolt circle diameter	24.75	628.6
h Bolt holes, 24 off	1.38	34.9

24 stud bolts of 1-1/4 in; holes 1.38 in (34.9 mm)

RAJENDRA INDUSTRIAL CORPORATION

rajendradatacenter.us
Drawing RIC-B165-SO300RJ-18
Scale 1:10 on Letter
Units: inches (mm)
Date 2026-11-22
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