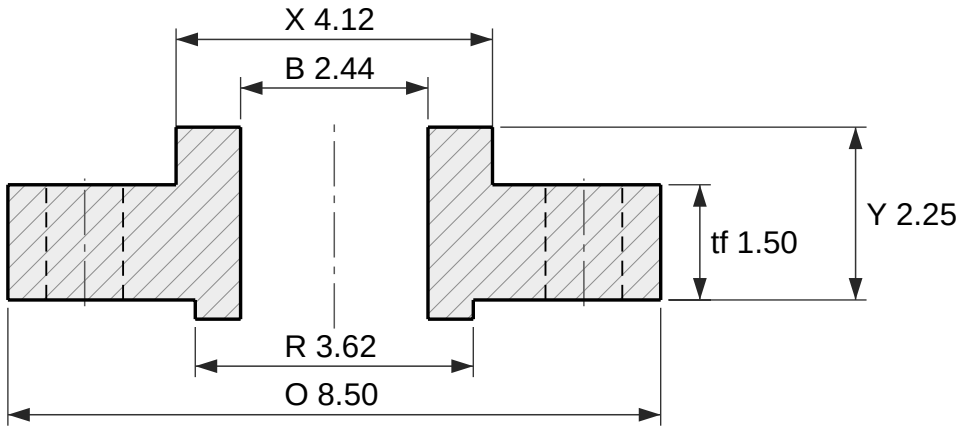
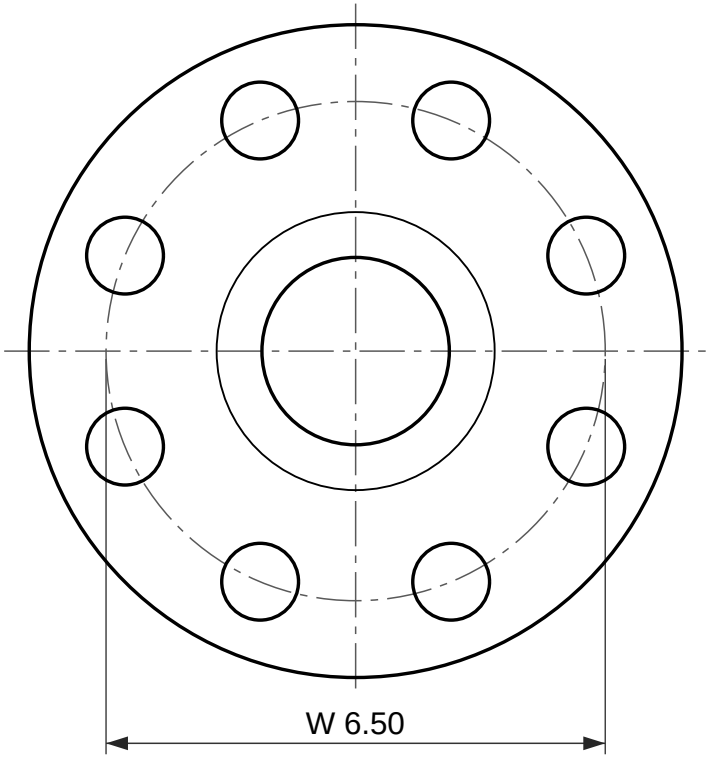
Approx. weight

Material	lb	kg
Carbon steel	21.7	9.9
Stainless steel 304 and 304L	21.9	9.9
Stainless steel 316 and 316L	22.1	10.0

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

Slip-on flange with hub, ASME B16.5 Class 900 RF

NPS 2 (DN 50)

Dimensions per ASME B16.5-2025, inches and millimetres as the standard's own tables give them. Note 5 of the Class 900 table: use the Class 1500 dimensions in this size.
tf and Y are the ASME B16.5 dimension, measured without the 0.25 in (6.4 mm) raised face; the tf + f and Y + f rows are the same flange measured over the face, which is what most catalogs print.
ASME B16.5 gives Class 900 the same dimensions as Class 1500 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/high-pressure/

Dimension	in	mm
O Outside diameter	8.50	216
R Raised face diameter	3.62	91.9
f Raised face height	0.25	6.4
tf Thickness (min), without raised face	1.50	38.1
tf + f Thickness over the raised face	1.75	44.5
Y Length through hub, without raised face	2.25	57
Y + f Length through hub, over the raised face	2.50	63.4
X Hub diameter at base	4.12	105
B Bore	2.44	62
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-SO900-2
Scale 1:2.5 on Letter
Units: inches (mm)
Date 2026-11-22
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