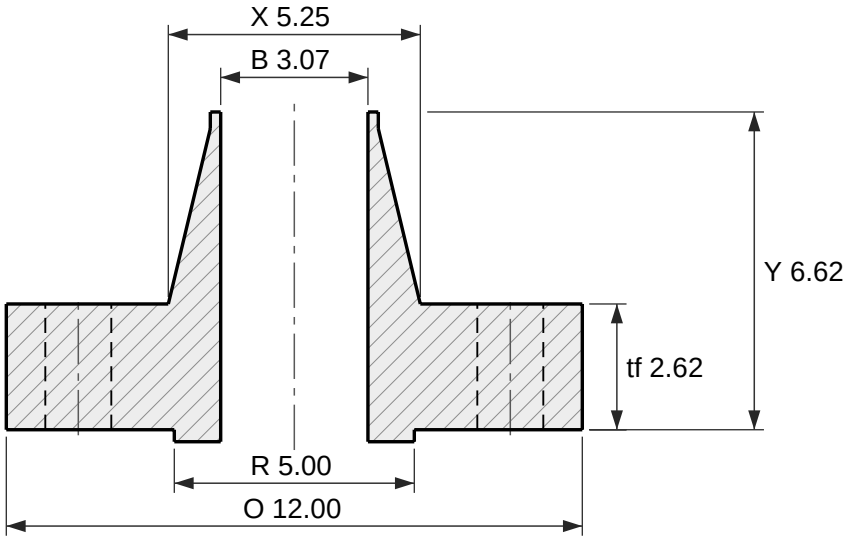
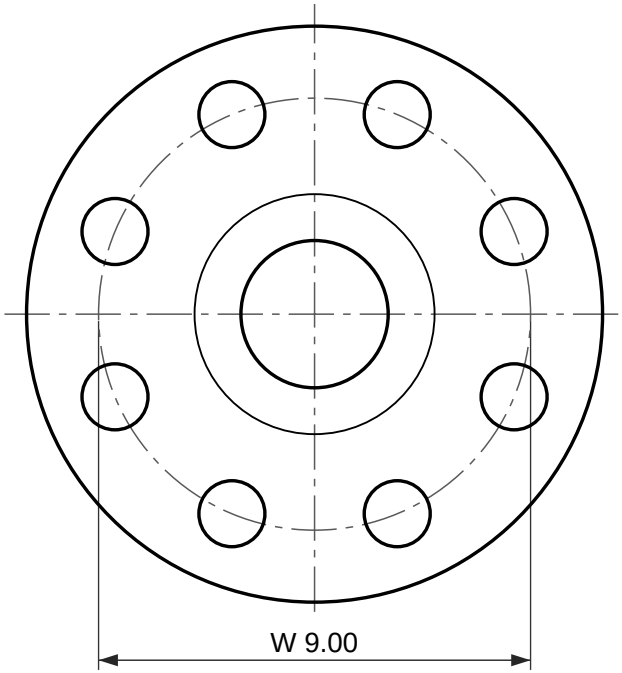
Bore B and approx. weight by pipe schedule

Schedule	B, in (mm)	CS lb (kg)	SS lb (kg)
Sch 5S / Sch 5	3.334 (84.7)	76.3 (34.6)	77.8 (35.3)
Sch 10S / Sch 10	3.260 (82.8)	77.1 (35.0)	78.5 (35.6)
Sch 30	3.124 (79.3)	78.4 (35.6)	79.9 (36.2)
Sch 40S / STD / Sch 40	3.068 (77.9)	78.9 (35.8)	80.4 (36.5)
Sch 80S / XS / Sch 80	2.900 (73.7)	80.5 (36.5)	82.0 (37.2)
Sch 160	2.624 (66.6)	82.8 (37.6)	84.4 (38.3)
XXS	2.300 (58.4)	85.2 (38.7)	86.9 (39.4)

B = A - 2 x pipe wall (ASME B36.10M and B36.19M).
CS carbon steel, 7.85 g/cm3. SS stainless steel 316L, 8.0 g/cm3; 304L (7.9 g/cm3) weighs about 1% less.
Calculated from the dimensions as the standard gives them, with no allowance for tolerance.



Section



8 holes Ø1.38
Face view

Weld neck flange, ASME B16.5 Class 2500 RF

NPS 3 (DN 80)

Dimensions per ASME B16.5-2025, inches and millimetres as the standard's own tables give them.
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.
Bore B to suit the pipe schedule: see the table. Other walls to order.
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	12.00	305
R Raised face diameter	5.00	127
f Raised face height	0.25	6.4
tf Thickness (min), without raised face	2.62	66.5
tf + f Thickness over the raised face	2.87	72.9
Y Length through hub, without raised face	6.62	168
Y + f Length through hub, over the raised face	6.87	174.4
X Hub diameter at base	5.25	133
A Hub diameter at weld end (pipe OD)	3.50	88.9
W Bolt circle diameter	9.00	228.6
h Bolt holes, 8 off	1.38	34.9

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

RAJENDRA INDUSTRIAL CORPORATION
rajendradatacenter.us
Drawing RIC-B165-WN2500-3
Scale 1:4 on Letter
Units: inches (mm)
Date 2026-11-22
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