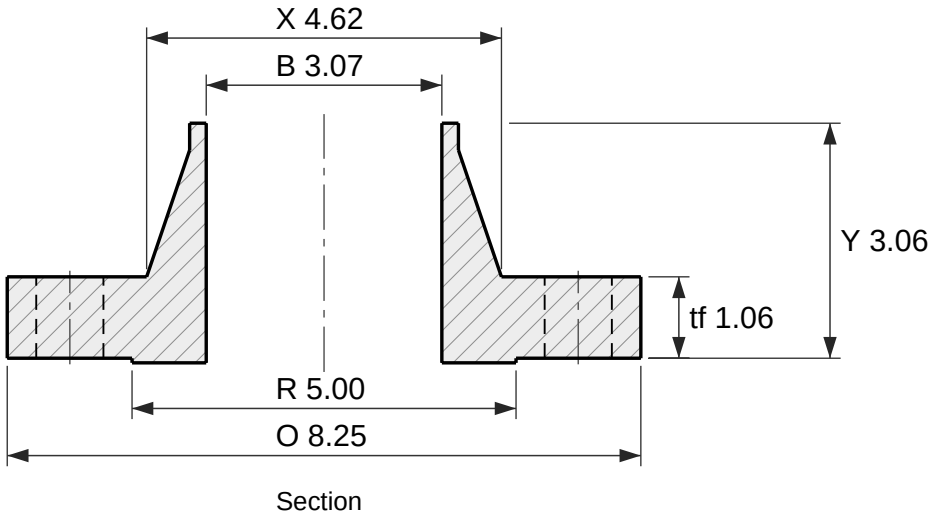
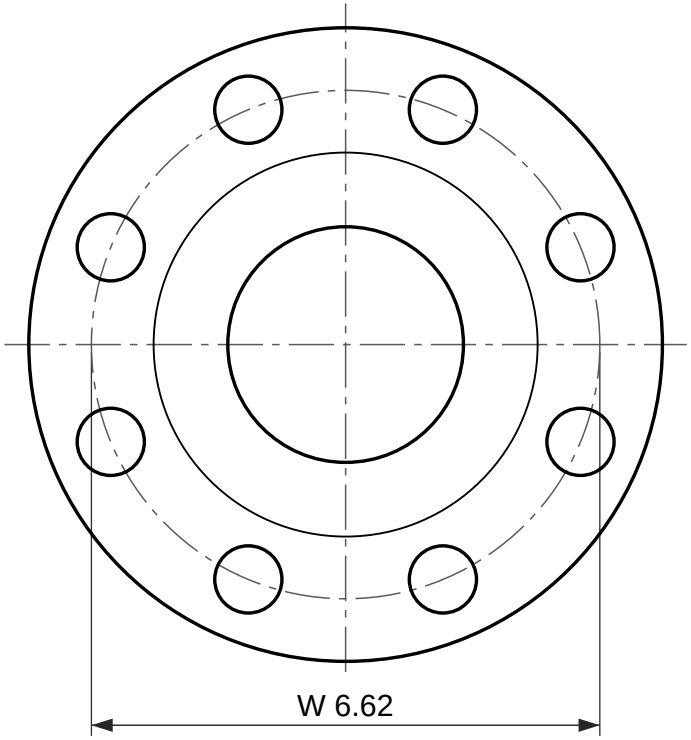
Bore B and approx. weight by pipe schedule

Schedule	B, in (mm)	CS lb (kg)	SS lb (kg)
Sch 5S / Sch 5	3.334 (84.7)	14.3 (6.5)	14.6 (6.6)
Sch 10S / Sch 10	3.260 (82.8)	14.6 (6.6)	14.9 (6.8)
Sch 30	3.124 (79.3)	15.2 (6.9)	15.5 (7.0)
Sch 40S / STD / Sch 40	3.068 (77.9)	15.5 (7.0)	15.8 (7.2)
Sch 80S / XS / Sch 80	2.900 (73.7)	16.2 (7.3)	16.5 (7.5)
Sch 160	2.624 (66.6)	17.2 (7.8)	17.6 (8.0)
XXS	2.300 (58.4)	18.3 (8.3)	18.7 (8.5)

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 Ø0.88
Face view

Weld neck flange, ASME B16.5 Class 300 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 0.06 in (1.5 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/weld-neck/

Dimension	in	mm
O Outside diameter	8.25	210
R Raised face diameter	5.00	127
f Raised face height	0.06	1.5
tf Thickness (min), without raised face	1.06	26.9
tf + f Thickness over the raised face	1.12	28.4
Y Length through hub, without raised face	3.06	78
Y + f Length through hub, over the raised face	3.12	79.5
X Hub diameter at base	4.62	117
A Hub diameter at weld end (pipe OD)	3.50	88.9
W Bolt circle diameter	6.62	168.1
h Bolt holes, 8 off	0.88	22.2

8 stud bolts of 3/4 in; holes 0.88 in (22.2 mm)

RAJENDRA INDUSTRIAL CORPORATION
rajendradatacenter.us
Drawing RIC-B165-WN300-3
Scale 1:2.5 on Letter
Units: inches (mm)
Date 2026-11-22
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