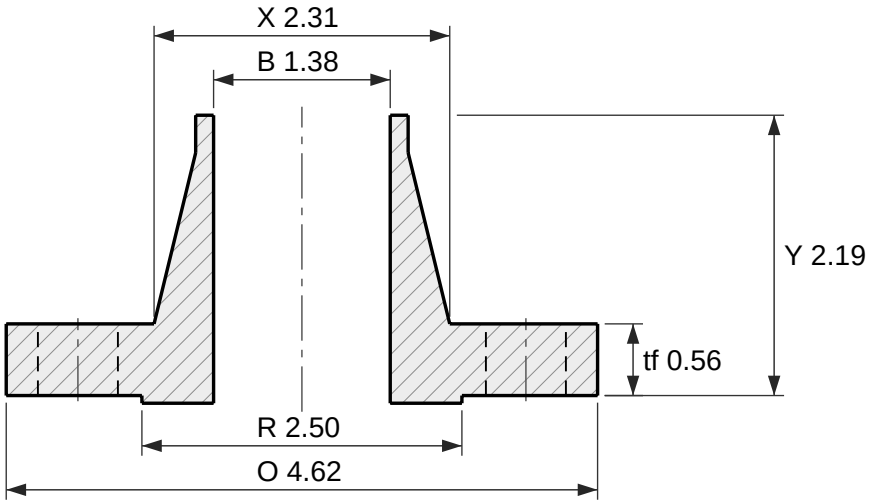
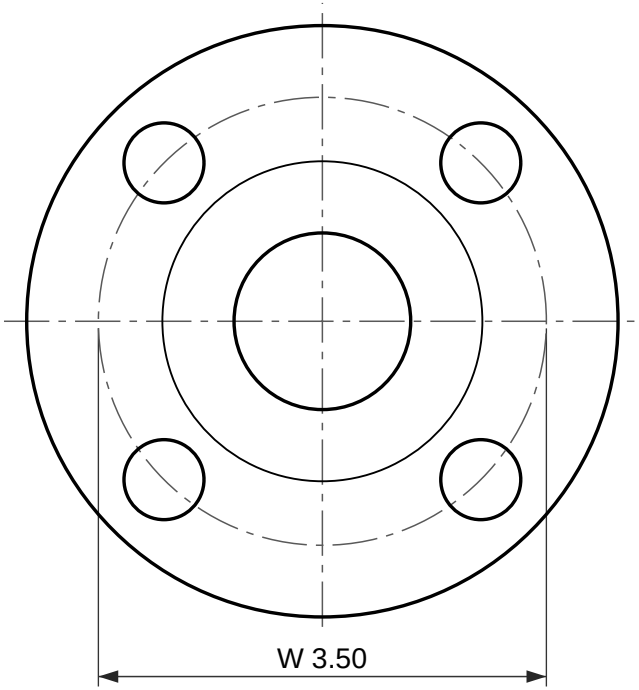
Bore B and approx. weight by pipe schedule

Schedule	B, in (mm)	CS lb (kg)	SS lb (kg)
Sch 5S / Sch 5	1.530 (38.9)	2.7 (1.2)	2.8 (1.3)
Sch 10S / Sch 10	1.442 (36.6)	2.9 (1.3)	2.9 (1.3)
Sch 30	1.426 (36.2)	2.9 (1.3)	3.0 (1.3)
Sch 40S / STD / Sch 40	1.380 (35.1)	3.0 (1.3)	3.0 (1.4)
Sch 80S / XS / Sch 80	1.278 (32.5)	3.1 (1.4)	3.2 (1.4)
Sch 160	1.160 (29.5)	3.2 (1.5)	3.3 (1.5)
XXS	0.896 (22.8)	3.5 (1.6)	3.6 (1.6)

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



4 holes Ø0.62
Face view

Weld neck flange, ASME B16.5 Class 150 RF

NPS 1-1/4 (DN 32)

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	4.62	117
R Raised face diameter	2.50	63.5
f Raised face height	0.06	1.5
tf Thickness (min), without raised face	0.56	14.2
tf + f Thickness over the raised face	0.62	15.7
Y Length through hub, without raised face	2.19	56
Y + f Length through hub, over the raised face	2.25	57.5
X Hub diameter at base	2.31	59
A Hub diameter at weld end (pipe OD)	1.66	42.2
W Bolt circle diameter	3.50	88.9
h Bolt holes, 4 off	0.62	15.9

4 stud bolts of 1/2 in; holes 0.62 in (15.9 mm)

RAJENDRA INDUSTRIAL CORPORATION
rajendradatacenter.us
Drawing RIC-B165-WN150-1.25
Scale 1:1.5 on Letter
Units: inches (mm)
Date 2026-11-22
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