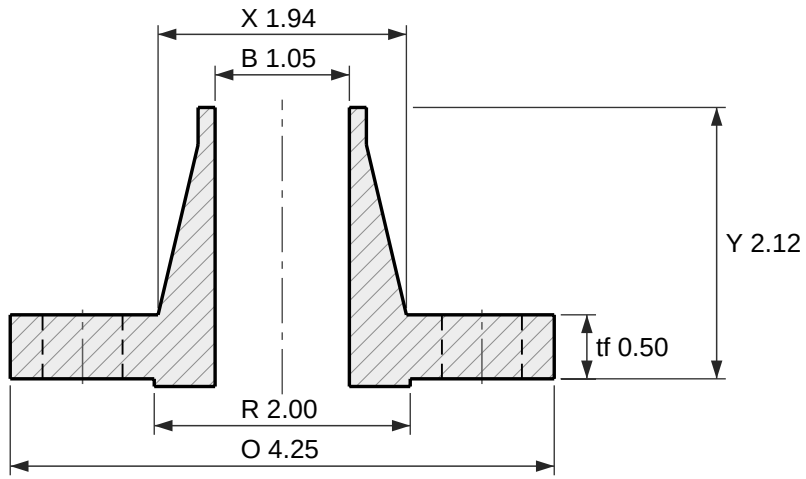
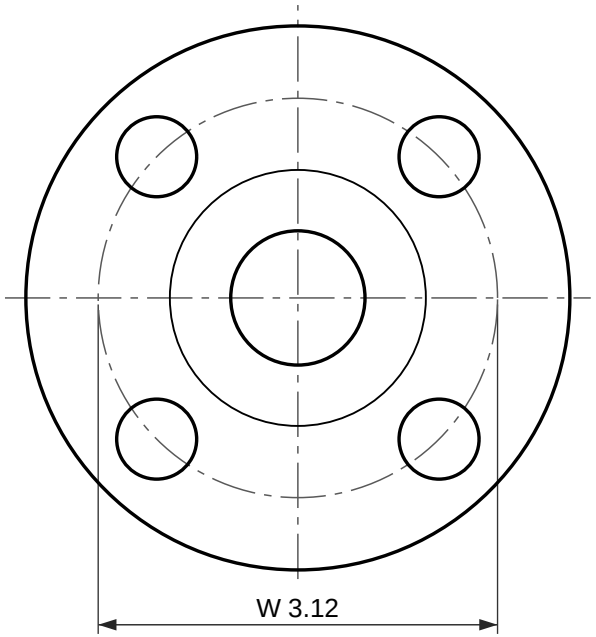
Bore B and approx. weight by pipe schedule

Schedule	B, in (mm)	CS lb (kg)	SS lb (kg)
Sch 5S / Sch 5	1.185 (30.1)	2.1 (1.0)	2.2 (1.0)
Sch 10S / Sch 10	1.097 (27.9)	2.2 (1.0)	2.3 (1.0)
Sch 30	1.087 (27.6)	2.2 (1.0)	2.3 (1.0)
Sch 40S / STD / Sch 40	1.049 (26.6)	2.3 (1.0)	2.3 (1.0)
Sch 80S / XS / Sch 80	0.957 (24.3)	2.4 (1.1)	2.4 (1.1)
Sch 160	0.815 (20.7)	2.5 (1.1)	2.5 (1.1)
XXS	0.599 (15.2)	2.6 (1.2)	2.7 (1.2)

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 (DN 25)

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	4.25	108
R Raised face diameter	2.00	50.8
f Raised face height	0.06	1.5
tf Thickness (min), without raised face	0.50	12.7
tf + f Thickness over the raised face	0.56	14.2
Y Length through hub, without raised face	2.12	54
Y + f Length through hub, over the raised face	2.18	55.5
X Hub diameter at base	1.94	49
A Hub diameter at weld end (pipe OD)	1.32	33.5
W Bolt circle diameter	3.12	79.2
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
Scale 1:1.5 on Letter
Units: inches (mm)
Date 2026-11-22
Quote: rajendradatacenter.us/rfq/
sales@rajendradatacenter.com
+91 74338 71355