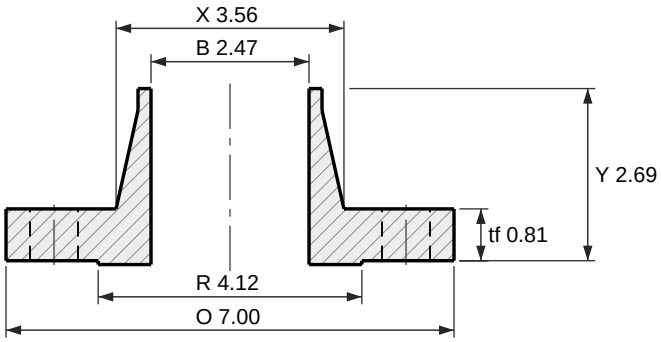
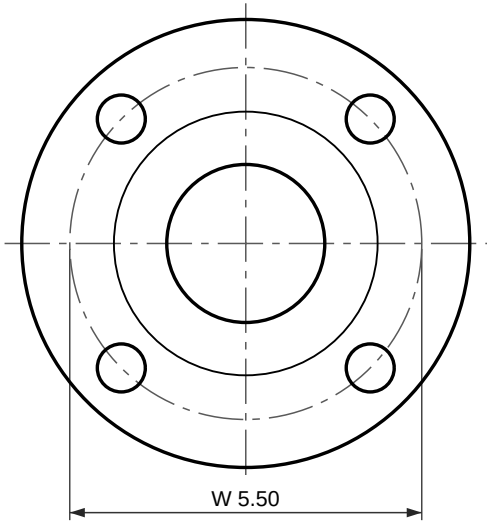
Bore B and approx. weight by pipe schedule

Schedule	B, in (mm)	CS lb (kg)	SS lb (kg)
Sch 5S / Sch 5	2.709 (68.8)	8.4 (3.8)	8.5 (3.9)
Sch 10S / Sch 10	2.635 (66.9)	8.6 (3.9)	8.8 (4.0)
Sch 30	2.499 (63.5)	9.0 (4.1)	9.2 (4.2)
Sch 40S / STD / Sch 40	2.469 (62.7)	9.1 (4.1)	9.3 (4.2)
Sch 80S / XS / Sch 80	2.323 (59.0)	9.5 (4.3)	9.7 (4.4)
Sch 160	2.125 (54.0)	10.1 (4.6)	10.3 (4.7)
XXS	1.771 (45.0)	10.9 (5.0)	11.1 (5.1)

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 Ø0.75
Face view

Weld neck flange, ASME B16.5 Class 150 RF

NPS 2-1/2 (DN 65)

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	7.00	178
R Raised face diameter	4.12	104.6
f Raised face height	0.06	1.5
tf Thickness (min), without raised face	0.81	20.6
tf + f Thickness over the raised face	0.87	22.1
Y Length through hub, without raised face	2.69	68
Y + f Length through hub, over the raised face	2.75	69.5
X Hub diameter at base	3.56	90
A Hub diameter at weld end (pipe OD)	2.88	73.2
W Bolt circle diameter	5.50	139.7
h Bolt holes, 4 off	0.75	19.1

4 stud bolts of 5/8 in; holes 0.75 in (19.1 mm)

RAJENDRA INDUSTRIAL CORPORATION
rajendradatacenter.us
Drawing RIC-B165-WN150-2.5
Scale 1:3 on Letter
Units: inches (mm)
Date 2026-11-22
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