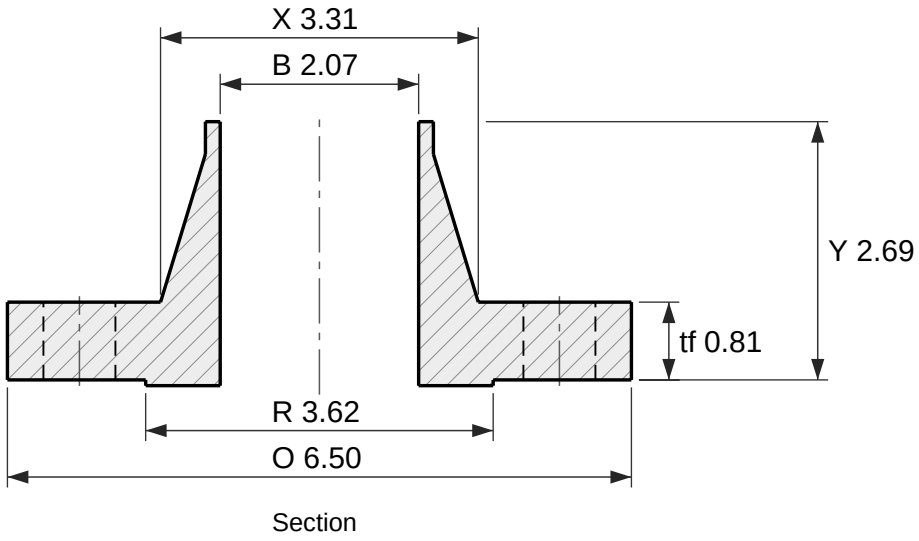
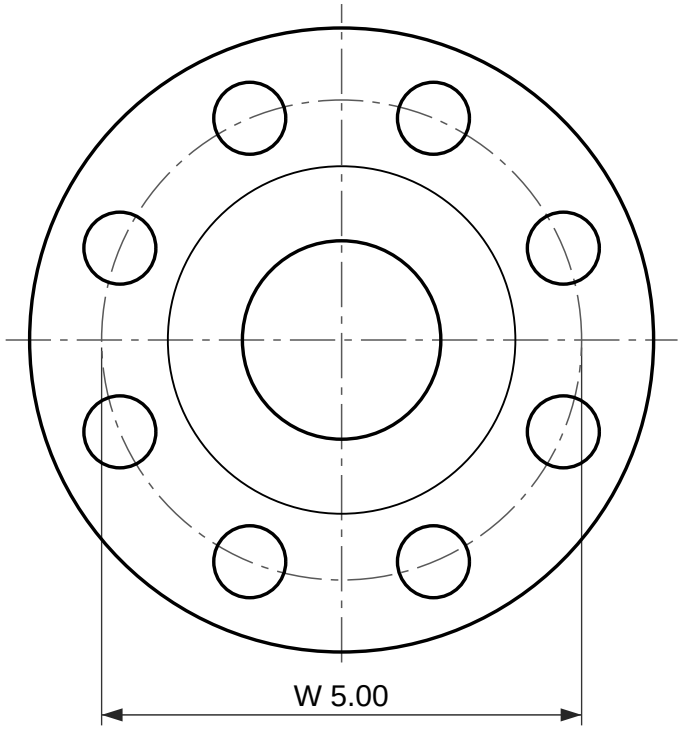
Bore B and approx. weight by pipe schedule

Schedule	B, in (mm)	CS lb (kg)	SS lb (kg)
Sch 5S / Sch 5	2.245 (57.0)	7.1 (3.2)	7.3 (3.3)
Sch 10S / Sch 10	2.157 (54.8)	7.4 (3.3)	7.5 (3.4)
Sch 30	2.125 (54.0)	7.4 (3.4)	7.6 (3.4)
Sch 40S / STD / Sch 40	2.067 (52.5)	7.6 (3.4)	7.7 (3.5)
Sch 80S / XS / Sch 80	1.939 (49.3)	7.9 (3.6)	8.1 (3.7)
Sch 160	1.687 (42.8)	8.5 (3.8)	8.6 (3.9)
XXS	1.503 (38.2)	8.8 (4.0)	9.0 (4.1)

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



8 holes Ø0.75
Face view

Weld neck flange, ASME B16.5 Class 300 RF

NPS 2 (DN 50)

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	6.50	165
R Raised face diameter	3.62	91.9
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	3.31	84
A Hub diameter at weld end (pipe OD)	2.38	60.5
W Bolt circle diameter	5.00	127
h Bolt holes, 8 off	0.75	19.1

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

RAJENDRA INDUSTRIAL CORPORATION
rajendradatacenter.us
Drawing RIC-B165-WN300-2
Scale 1:2 on Letter
Units: inches (mm)
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