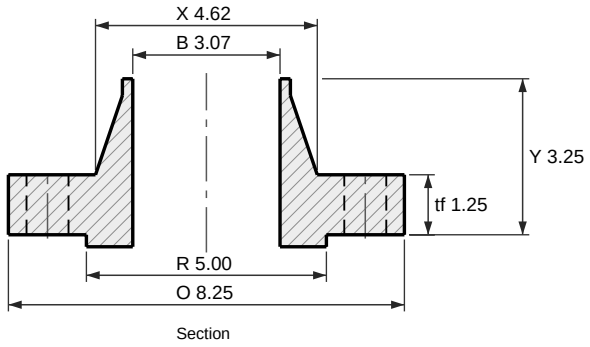
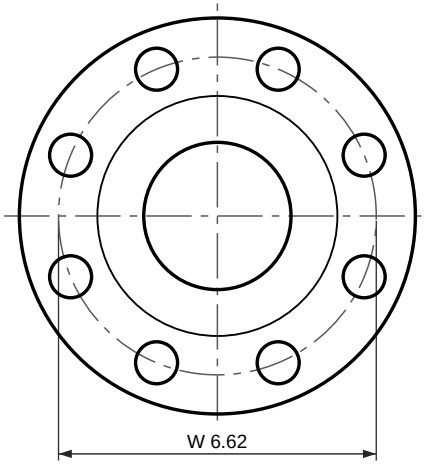
Bore B and approx. weight by pipe schedule

Schedule	B, in (mm)	CS lb (kg)	SS lb (kg)
Sch 5S / Sch 5	3.334 (84.7)	17.0 (7.7)	17.3 (7.9)
Sch 10S / Sch 10	3.260 (82.8)	17.4 (7.9)	17.7 (8.0)
Sch 30	3.124 (79.3)	18.1 (8.2)	18.4 (8.4)
Sch 40S / STD / Sch 40	3.068 (77.9)	18.4 (8.3)	18.7 (8.5)
Sch 80S / XS / Sch 80	2.900 (73.7)	19.1 (8.7)	19.5 (8.8)
Sch 160	2.624 (66.6)	20.3 (9.2)	20.7 (9.4)
XXS	2.300 (58.4)	21.6 (9.8)	22.0 (10.0)

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 400 RF

NPS 3 (DN 80)

Dimensions per ASME B16.5-2025, inches and millimetres as the standard's own tables give them. Note 5 of the Class 400 table: use the Class 600 dimensions in this size.
tf and Y are the ASME B16.5 dimension, measured without the 0.25 in (6.4 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.
ASME B16.5 gives Class 400 the same dimensions as Class 600 in NPS 3; only the marking differs.
Reference drawing. The purchase order and ASME B16.5 govern. Check the latest edition.
Generated at rajendradatacenter.us/flanges/high-pressure/

Dimension	in	mm
O Outside diameter	8.25	210
R Raised face diameter	5.00	127
f Raised face height	0.25	6.4
tf Thickness (min), without raised face	1.25	31.8
tf + f Thickness over the raised face	1.50	38.2
Y Length through hub, without raised face	3.25	83
Y + f Length through hub, over the raised face	3.50	89.4
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-WN400-3
Scale 1:4 on Letter
Units: inches (mm)
Date 2026-11-22
Quote: rajendradatacenter.us/rfq/
sales@rajendradatacenter.com
+91 74338 71355