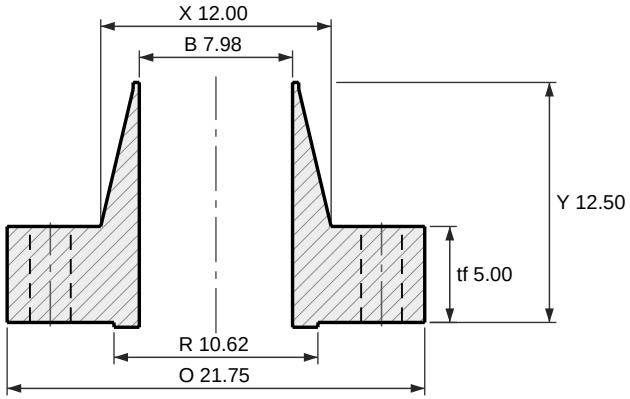
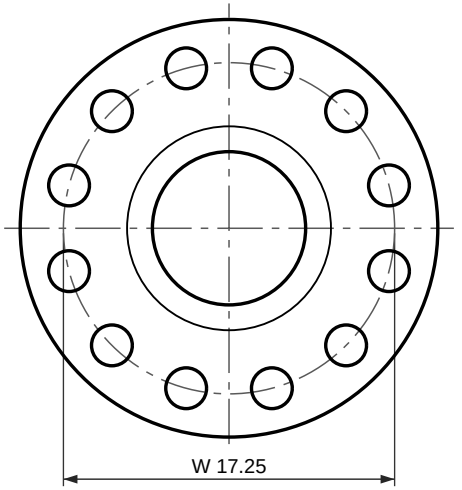
Bore B and approx. weight by pipe schedule

Schedule	B, in (mm)	CS lb (kg)	SS lb (kg)
Sch 5S / Sch 5	8.407 (213.5)	449 (204)	457 (207)
Sch 10S / Sch 10	8.329 (211.6)	452 (205)	461 (209)
Sch 20	8.125 (206.4)	462 (210)	471 (214)
Sch 30	8.071 (205.0)	464 (211)	473 (215)
Sch 40S / STD / Sch 40	7.981 (202.7)	469 (213)	478 (217)
Sch 60	7.813 (198.5)	476 (216)	485 (220)
Sch 80S / XS / Sch 80	7.625 (193.7)	484 (220)	494 (224)
Sch 100	7.437 (188.9)	492 (223)	502 (228)
Sch 120	7.187 (182.5)	503 (228)	512 (232)
Sch 140	7.001 (177.8)	510 (231)	520 (236)
XXS	6.875 (174.6)	515 (234)	525 (238)
Sch 160	6.813 (173.1)	518 (235)	528 (239)

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



12 holes Ø2.12
Face view

Weld neck flange, ASME B16.5 Class 2500 RF

NPS 8 (DN 200)

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 0.25 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.
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	21.75	552
R Raised face diameter	10.62	269.7
f Raised face height	0.25	6.4
tf Thickness (min), without raised face	5.00	127
tf + f Thickness over the raised face	5.25	133.4
Y Length through hub, without raised face	12.50	318
Y + f Length through hub, over the raised face	12.75	324.4
X Hub diameter at base	12.00	305
A Hub diameter at weld end (pipe OD)	8.62	219.2
W Bolt circle diameter	17.25	438.2
h Bolt holes, 12 off	2.12	54.0

12 stud bolts of 2 in; holes 2.12 in (54.0 mm)

RAJENDRA INDUSTRIAL CORPORATION
rajendradatacenter.us
Drawing RIC-B165-WN2500-8
Scale 1:10 on Letter
Units: inches (mm)
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