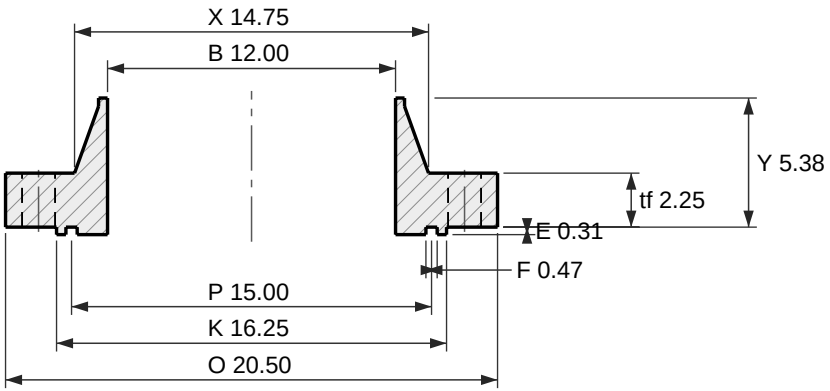
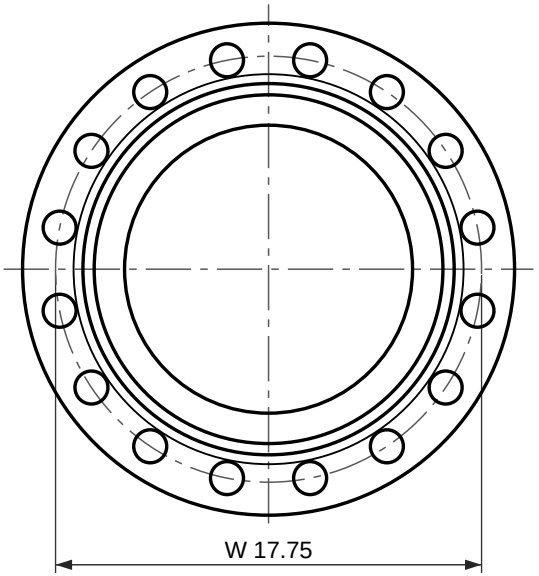
Bore B and approx. weight by pipe schedule

Schedule	B, in (mm)	CS lb (kg)	SS lb (kg)
Sch 5S / Sch 5	12.438 (315.9)	146 (66.1)	148 (67.3)
Sch 10S / Sch 10	12.390 (314.7)	147 (66.8)	150 (68.0)
Sch 20	12.250 (311.2)	152 (68.7)	154 (70.1)
Sch 30	12.090 (307.1)	156 (71.0)	159 (72.3)
Sch 40S / STD	12.000 (304.8)	159 (72.2)	162 (73.6)
Sch 40	11.938 (303.2)	161 (73.1)	164 (74.5)
Sch 80S / XS	11.750 (298.5)	167 (75.6)	170 (77.1)
Sch 60	11.626 (295.3)	170 (77.3)	174 (78.8)
Sch 80	11.374 (288.9)	178 (80.6)	181 (82.2)
Sch 100	11.062 (281.0)	187 (84.7)	190 (86.3)
Sch 120 / XXS	10.750 (273.1)	195 (88.6)	199 (90.3)
Sch 140	10.500 (266.7)	202 (91.6)	206 (93.4)
Sch 160	10.126 (257.2)	212 (96.1)	216 (97.9)

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



16 holes Ø1.38
Face view

Weld neck flange, ASME B16.5 Class 400 RJ

NPS 12 (DN 300)

Dimensions per ASME B16.5-2025, inches and millimetres as the standard's own tables give them.
Ring joint facing to ASME B16.5 Table 5, ring and groove number R57. The raised portion stands E above the flange, the same as the depth of the groove, so the bottom of the groove is level with the flange face. Ring joint gasket dimensions are to ASME B16.20 (clause 6.11.1).
tf and Y are the ASME B16.5 dimension, measured without the raised portion; the tf + E and Y + E rows are the same flange measured over the facing.
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/ring-type-joint/

Dimension	in	mm
O Outside diameter	20.50	521
K Diameter of the raised portion	16.25	413
E Depth of the groove, and the raised portion	0.31	7.92
P Pitch diameter of the groove	15.00	381
F Width of the groove	0.47	11.91
r Radius at the bottom of the groove	0.03	0.8
tf Thickness (min), without the raised portion	2.25	57.2
tf + E Thickness over the raised portion	2.56	65.1
Y Length through hub, without the raised portion	5.38	137
Y + E Length through hub, over the raised portion	5.69	144.9
X Hub diameter at base	14.75	375
A Hub diameter at weld end (pipe OD)	12.75	323.8
W Bolt circle diameter	17.75	450.8
h Bolt holes, 16 off	1.38	34.9

16 stud bolts of 1-1/4 in; holes 1.38 in (34.9 mm)

RAJENDRA INDUSTRIAL CORPORATION
rajendradatacenter.us
Drawing RIC-B165-WN400RJ-12
Scale 1:8 on Letter
Units: inches (mm)
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