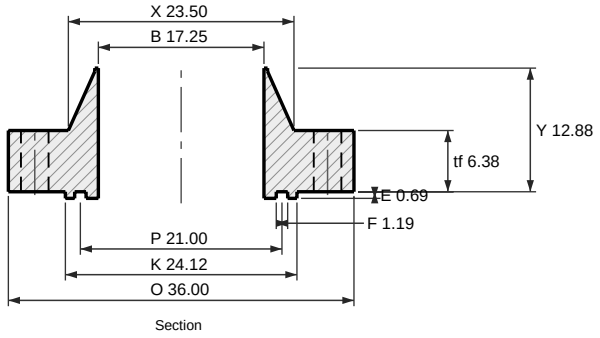
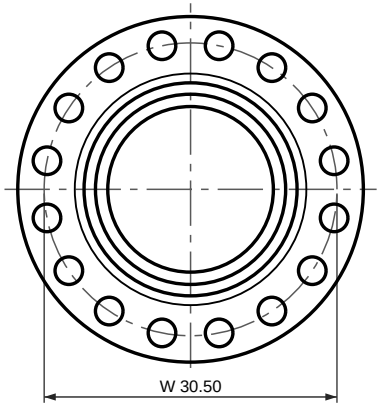
Bore B and approx. weight by pipe schedule

Schedule	B, in (mm)	CS lb (kg)	SS lb (kg)
Sch 5S / Sch 5	17.670 (448.8)	1403 (636)	1429 (648)
Sch 10S	17.624 (447.6)	1407 (638)	1434 (651)
Sch 10	17.500 (444.5)	1421 (644)	1448 (657)
Sch 20	17.376 (441.4)	1434 (650)	1461 (663)
Sch 40S / STD	17.250 (438.2)	1447 (656)	1475 (669)
Sch 30	17.124 (434.9)	1460 (662)	1488 (675)
Sch 80S / XS	17.000 (431.8)	1473 (668)	1501 (681)
Sch 40	16.876 (428.7)	1485 (674)	1514 (687)
Sch 60	16.500 (419.1)	1523 (691)	1552 (704)
Sch 80	16.124 (409.5)	1560 (708)	1590 (721)
Sch 100	15.688 (398.5)	1602 (727)	1633 (741)
Sch 120	15.250 (387.4)	1643 (745)	1675 (760)
Sch 140	14.876 (377.9)	1677 (761)	1709 (775)
Sch 160	14.438 (366.7)	1716 (778)	1749 (793)

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 Ø2.88
Face view

Weld neck flange, ASME B16.5 Class 1500 RJ

NPS 18 (DN 450)

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 R71. 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	36.00	914
K Diameter of the raised portion	24.12	613
E Depth of the groove, and the raised portion	0.69	17.48
P Pitch diameter of the groove	21.00	533.4
F Width of the groove	1.19	30.18
r Radius at the bottom of the groove	0.09	2.3
tf Thickness (min), without the raised portion	6.38	162.1
tf + E Thickness over the raised portion	7.07	179.6
Y Length through hub, without the raised portion	12.88	327
Y + E Length through hub, over the raised portion	13.57	344.5
X Hub diameter at base	23.50	597
A Hub diameter at weld end (pipe OD)	18.00	457.2
W Bolt circle diameter	30.50	774.7
h Bolt holes, 16 off	2.88	73.0

16 stud bolts of 2-3/4 in; holes 2.88 in (73.0 mm)

RAJENDRA INDUSTRIAL CORPORATION
rajendradatacenter.us
Drawing RIC-B165-WN1500RJ-18
Scale 1:20 on Letter
Units: inches (mm)
Date 2026-11-22
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