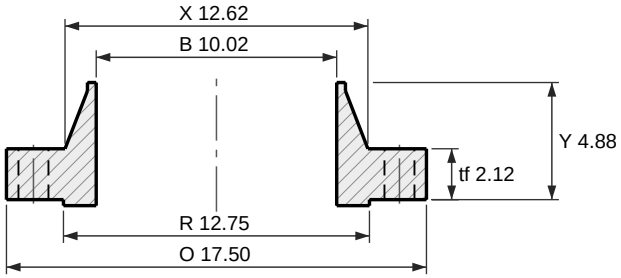
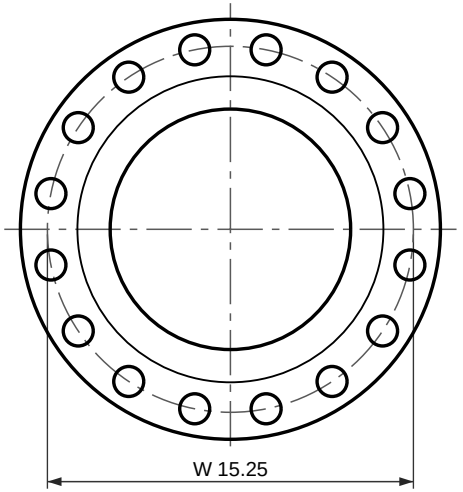
### Bore B and approx. weight by pipe schedule

| Schedule | B, in (mm) | CS lb (kg) | SS lb (kg) |
|---|---|---|---|
| Sch 5S / Sch 5 | 10.482 (266.2) | 98.8 (44.8) | 101 (45.7) |
| Sch 10S / Sch 10 | 10.420 (264.7) | 100 (45.5) | 102 (46.3) |
| Sch 20 | 10.250 (260.4) | 104 (47.3) | 106 (48.2) |
| Sch 30 | 10.136 (257.5) | 107 (48.5) | 109 (49.4) |
| Sch 40S / STD / Sch 40 | 10.020 (254.5) | 110 (49.7) | 112 (50.7) |
| Sch 60 / Sch 80S / XS | 9.750 (247.7) | 116 (52.5) | 118 (53.5) |
| Sch 80 | 9.562 (242.9) | 120 (54.4) | 122 (55.4) |
| Sch 100 | 9.312 (236.5) | 125 (56.8) | 128 (57.9) |
| Sch 120 | 9.062 (230.2) | 130 (59.2) | 133 (60.3) |
| Sch 140 / XXS | 8.750 (222.3) | 137 (62.1) | 139 (63.3) |
| Sch 160 | 8.500 (215.9) | 142 (64.3) | 144 (65.5) |

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 Ø1.25
Face view

# Weld neck flange, ASME B16.5 Class 400 RF

NPS 10 (DN 250)

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 | 17.50 | 444 |
| R Raised face diameter | 12.75 | 323.8 |
| f Raised face height | 0.25 | 6.4 |
| tf Thickness (min), without raised face | 2.12 | 53.8 |
| tf + f Thickness over the raised face | 2.37 | 60.2 |
| Y Length through hub, without raised face | 4.88 | 124 |
| Y + f Length through hub, over the raised face | 5.13 | 130.4 |
| X Hub diameter at base | 12.62 | 321 |
| A Hub diameter at weld end (pipe OD) | 10.75 | 273 |
| W Bolt circle diameter | 15.25 | 387.4 |
| h Bolt holes, 16 off | 1.25 | 31.8 |

16 stud bolts of 1-1/8 in; holes 1.25 in (31.8 mm)

RAJENDRA INDUSTRIAL CORPORATION
rajendradatacenter.us
Drawing RIC-B165-WN400-10
Scale 1:8 on Letter
Units: inches (mm)
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