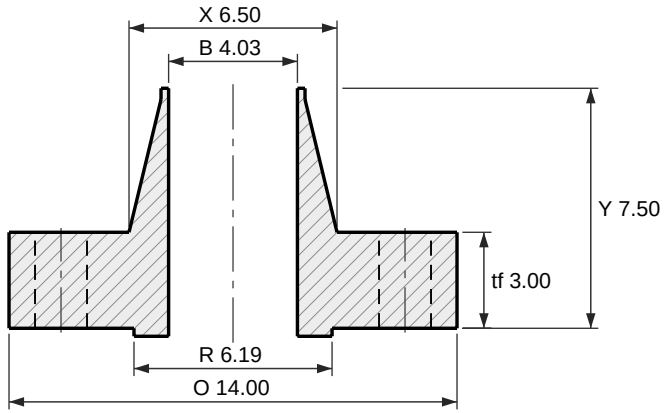
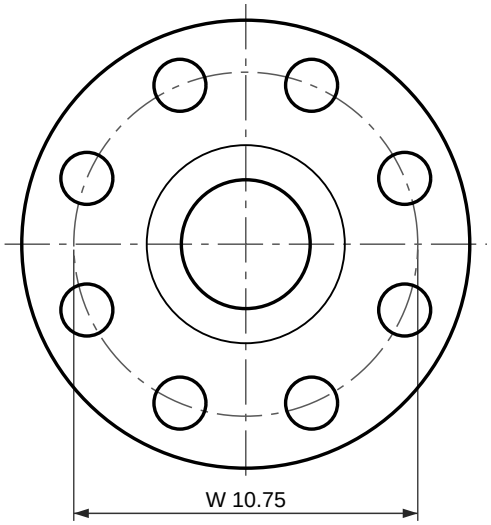
### Bore B and approx. weight by pipe schedule

| Schedule | B, in (mm) | CS lb (kg) | SS lb (kg) |
|---|---|---|---|
| Sch 5S / Sch 5 | 4.334 (110.1) | 116 (52.8) | 119 (53.8) |
| Sch 10S / Sch 10 | 4.260 (108.2) | 118 (53.3) | 120 (54.3) |
| Sch 30 | 4.124 (104.7) | 119 (54.2) | 122 (55.2) |
| Sch 40S / STD / Sch 40 | 4.026 (102.3) | 121 (54.8) | 123 (55.9) |
| Sch 80S / XS / Sch 80 | 3.826 (97.2) | 124 (56.0) | 126 (57.1) |
| Sch 120 | 3.624 (92.0) | 126 (57.2) | 129 (58.3) |
| Sch 160 | 3.438 (87.3) | 128 (58.3) | 131 (59.4) |
| XXS | 3.152 (80.1) | 132 (59.7) | 134 (60.9) |

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



8 holes Ø1.62
Face view

# Weld neck flange, ASME B16.5 Class 2500 RF

NPS 4 (DN 100)

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 | 14.00 | 356 |
| R Raised face diameter | 6.19 | 157.2 |
| f Raised face height | 0.25 | 6.4 |
| tf Thickness (min), without raised face | 3.00 | 76.2 |
| tf + f Thickness over the raised face | 3.25 | 82.6 |
| Y Length through hub, without raised face | 7.50 | 190 |
| Y + f Length through hub, over the raised face | 7.75 | 196.4 |
| X Hub diameter at base | 6.50 | 165 |
| A Hub diameter at weld end (pipe OD) | 4.50 | 114.3 |
| W Bolt circle diameter | 10.75 | 273 |
| h Bolt holes, 8 off | 1.62 | 41.3 |

8 stud bolts of 1-1/2 in; holes 1.62 in (41.3 mm)

RAJENDRA INDUSTRIAL CORPORATION
rajendradatacenter.us
Drawing RIC-B165-WN2500-4
Scale 1:6 on Letter
Units: inches (mm)
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