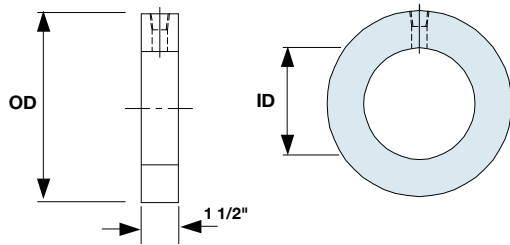
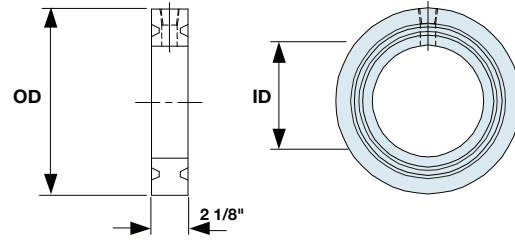


BLEED/TEST RINGS



Raised Face



Ring Type Joint

RAISED FACE

| Pipe Size | All sizes | 150# | | 300# | | 600# | | 900# | | 1500# | |
|-----------|-----------|-------|--------|-------|--------|--------|--------|--------|--------|-------|--------|
| | ID | OD | Weight | OD | Weight | OD | Weight | OD | Weight | OD | Weight |
| 1 | 1.32 | 2.50 | 2 | 2.75 | 2 | 2.75 | 2 | 3 | 3 | 3 | 3 |
| 1 1/2 | 1.90 | 3.25 | 3 | 3.63 | 3 | 3.625 | 3 | 3.75 | 4 | 3.75 | 4 |
| 2 | 2.38 | 4.00 | 4 | 4.25 | 5 | 4.25 | 5 | 5.5 | 9 | 5.5 | 9 |
| 2 1/2 | 2.88 | 4.75 | 5 | 5.00 | 6 | 5 | 6 | 6.375 | 11 | 6.375 | 11 |
| 3 | 3.50 | 5.25 | 6 | 5.75 | 8 | 5.75 | 8 | 6.5 | 11 | 6.75 | 12 |
| 4 | 4.50 | 6.75 | 9 | 7.00 | 11 | 7.5 | 13 | 8 | 16 | 8.125 | 16 |
| 6 | 6.63 | 8.63 | 12 | 9.75 | 19 | 10.375 | 23 | 11.25 | 30 | 11 | 28 |
| 8 | 8.63 | 10.88 | 18 | 12.00 | 27 | 12.5 | 31 | 14 | 44 | 13.75 | 42 |
| 10 | 10.75 | 13.25 | 24 | 14.13 | 32 | 15.58 | 47 | 17 | 62 | 17 | 62 |
| 12 | 12.75 | 16.00 | 37 | 16.50 | 43 | 17.75 | 57 | 19.375 | 77 | 20.25 | 89 |

RING TYPE JOINTS

| Pipe Size | All sizes | 300,600# | Ring # | 900# | Ring # | 1500# | Ring # | 2500# | Ring # |
|-----------|-----------|----------|--------|-------|--------|--------|--------|--------|--------|
| | ID | OD | | OD | | OD | | OD | |
| 1 | 1.32 | 2.75 | R-16 | 2.81 | R-16 | 2.812 | R-16 | 3.25 | R-18 |
| 1-1/2 | 1.90 | 3.56 | R-20 | 3.63 | R-20 | 3.625 | R-20 | 4.5 | R-23 |
| 2 | 2.38 | 4.25 | R-23 | 4.88 | R-24 | 4.875 | R-24 | 5.25 | R-26 |
| 2-1/2 | 2.88 | 5.00 | R-26 | 5.38 | R-27 | 5.375 | R-27 | 5.875 | R-28 |
| 3 | 3.50 | 5.75 | R-31 | 6.13 | R-31 | 6.625 | R-35 | 6.625 | R-32 |
| 4 | 4.50 | 6.88 | R-37 | 7.13 | R-37 | 7.625 | R-39 | 8 | R-38 |
| 6 | 6.63 | 9.50 | R-45 | 9.50 | R-45 | 9.75 | R-46 | 11 | R-47 |
| 8 | 8.63 | 11.88 | R-49 | 12.13 | R-49 | 12.5 | R-50 | 13.375 | R-51 |
| 10 | 10.75 | 14.00 | R-53 | 14.25 | R-53 | 14.625 | R-54 | 16.75 | R-55 |
| 12 | 12.75 | 16.25 | R-57 | 16.50 | R-57 | 17.25 | R-58 | 19.5 | R-60 |

Standard Features:

Thicknesses based on carbon steel A105/A516 Gr.70 or SS304/316
 Serrated machined face in accordance with ASME B16.5:
 For ANSI 150# and 300# 250-500 AARH
 For ANSI 600# and above 125-250 AARH
 1/2" NPT Tap for Raised Face, 3/4" tap for RTJ
 Octagonal ring on Male RTJ's, unless oval is specified.

Options:

Socket weld tap
 Larger sizes and pressure ratings available
 Alloy materials and special coatings.
 3/4" Tap