



DIMENSION TABLE FOR R (Oval & Octagonal) TYPE RING JOINT GASKETS

| Ring No. | PRESSURE CLASS RATINGS | | | | | | Pitch | Width | Height of Ring | | Approx. Distance Between Flanges | Gasket Weights, lbs. | | |
|----------|------------------------|---------|-------|-----------|------|-----------|----------|---------|----------------|-----------|----------------------------------|----------------------|-----------|-------|
| | ANSI, BS & MSS | | | API (psi) | | | Diameter | | Oval | Octagonal | | Oval | Octagonal | |
| | 150 | 300/600 | 900 | 1500 | 2500 | 2000/3000 | 5000 | of Ring | of Ring | B | H | Rings | Rings | |
| | Nominal Pipe Size | | | | | | P | A | | | | | | |
| R11 | - | ½ | - | - | - | - | - | 1.344 | 0.250 | 0.44 | 0.38 | - | .111 | .104 |
| R12 | - | - | ½ | ½ | - | - | - | 1.563 | 0.313 | 0.56 | 0.50 | - | .216 | .200 |
| R13 | - | ¾ | - | - | ½ | - | - | 1.688 | 0.313 | 0.56 | 0.50 | - | .234 | .216 |
| R14 | - | - | ¾ | ¾ | - | - | - | 1.750 | 0.313 | 0.56 | 0.50 | - | .242 | .224 |
| R15 | 1 | - | - | - | - | - | - | 1.875 | 0.313 | 0.56 | 0.50 | - | .260 | .240 |
| R16 | - | 1 | 1 | 1 | ¾ | - | - | 2.000 | 0.313 | 0.56 | 0.50 | - | .278 | .256 |
| R17 | 1¼ | - | - | - | - | - | - | 2.250 | 0.313 | 0.56 | 0.50 | - | .311 | .288 |
| R18 | - | 1¼ | 1¼ | 1¼ | 1 | - | - | 2.375 | 0.313 | 0.56 | 0.50 | - | .328 | .304 |
| R19 | 1 1/2 | - | - | - | - | - | - | 2.563 | 0.313 | 0.56 | 0.50 | - | .354 | .328 |
| R20* | - | 1 1/2 | 1 1/2 | 1 1/2 | - | - | - | 2.688 | 0.313 | 0.56 | 0.50 | 0.16 | .372 | .344 |
| R21 | - | - | - | - | 1¼ | - | - | 2.844 | 0.438 | 0.69 | 0.63 | - | .660 | .643 |
| R22 | 2 | - | - | - | - | - | - | 3.250 | 0.313 | 0.56 | 0.50 | - | .450 | .415 |
| R23* | - | 2 | - | - | 1½ | 2 1/16** | - | 3.250 | 0.438 | 0.69 | 0.63 | 0.19 | .755 | .734 |
| R24* | - | - | 2 | 2 | - | 2 1/16 | 2 | 3.750 | 0.438 | 0.69 | 0.63 | 0.19 | .870 | .846 |
| R25 | 2½ | - | - | - | - | - | - | 4.000 | 0.313 | 0.56 | 0.50 | - | .553 | .510 |
| R26* | - | 2½ | - | - | - | 2 9/16 | - | 4.000 | 0.438 | 0.69 | 0.63 | 0.19 | .930 | .904 |
| R27* | - | - | 2½ | 2½ | - | (2 9/16) | 2 9/16 | 4.250 | 0.438 | 0.69 | 0.63 | 0.19 | 1.050 | .960 |
| R28 | - | - | - | - | 2½ | - | - | 4.375 | 0.500 | 0.75 | 0.69 | - | 1.255 | 1.230 |
| R29 | 3 | - | - | - | - | - | - | 4.500 | 0.313 | 0.56 | 0.50 | - | .622 | .575 |
| R30 | - | 3 | - | - | - | - | - | 4.625 | 0.438 | 0.69 | 0.63 | - | 1.075 | 1.047 |
| R31* | - | 3 | 3 | - | - | 3 1/8 | - | 4.875 | 0.438 | 0.69 | 0.63 | 0.19 | 1.130 | 1.100 |
| R32 | - | - | - | - | 3 | - | - | 5.000 | 0.500 | 0.75 | 0.69 | - | 1.435 | 1.405 |
| R33 | 3½ | - | - | - | - | - | - | 5.188 | 0.313 | 0.56 | 0.50 | - | .718 | .664 |
| R34 | - | 3½ | - | - | - | - | - | 5.188 | 0.438 | 0.69 | 0.63 | - | 1.200 | 1.170 |
| R35* | - | - | - | 3 | - | - | 3 1/8 | 5.375 | 0.438 | 0.69 | 0.63 | 0.19 | 1.250 | 1.210 |
| R36 | 4 | - | - | - | - | - | - | 5.875 | 0.313 | 0.56 | 0.50 | - | .813 | .735 |
| R37* | - | 4 | 4 | - | - | 4 1/16 | - | 5.875 | 0.438 | 0.69 | 0.63 | 0.19 | 1.360 | 1.330 |
| R38 | - | - | - | - | 4 | - | - | 6.188 | 0.625 | 0.88 | 0.81 | - | 2.56 | 2.52 |
| R39* | - | - | - | 4 | - | - | 4 1/16 | 6.375 | 0.438 | 0.69 | 0.63 | 0.19 | 1.480 | 1.440 |
| R40 | 5 | - | - | - | - | - | - | 6.750 | 0.313 | 0.56 | 0.50 | - | .935 | .865 |
| R41* | - | 5 | 5 | - | - | - | - | 7.125 | 0.438 | 0.69 | 0.63 | 0.19 | 1.66 | 1.61 |
| R42 | - | - | - | - | 5 | - | - | 7.500 | 0.750 | 1.00 | 0.94 | - | 4.21 | 4.16 |
| R43 | - | - | - | - | - | - | - | 7.625 | 0.313 | 0.56 | 0.50 | - | 1.055 | .975 |

Dimensions in Inches

(*) Denotes ring number specified in API 6A.

Nominal Pipe Sizes in brackets apply to class rating 3000 only.

Nominal Pipe Sizes marked (**) apply to class rating 2000 only.

Ring no. R30 is suitable for lapped flanges only.



| Ring No. | PRESSURE CLASS RATINGS | | | | | | | Pitch | Height of Ring | | Approx. Distance Between | Gasket Weights, lbs. | | |
|----------|------------------------|---------|-----|------|------------|------------|--------|----------|----------------|------|--------------------------|----------------------|-------|-----------|
| | ANSI, BS & MSS | | | | API (psi) | | | Diameter | Width | Oval | | Octagonal | Oval | Octagonal |
| | 150 | 300/600 | 900 | 1500 | 2500 | 2000/3000 | 5000 | of Ring | of Ring | B | H | Flanges | Rings | Rings |
| | Nominal Pipe Size | | | | | | | P | A | | | | | |
| R44* | - | - | - | 5 | - | - | - | 7.625 | 0.438 | 0.69 | 0.63 | 0.19 | 1.77 | 1.73 |
| R45* | - | 6 | 6 | - | - | 7 1/16 | - | 8.313 | 0.438 | 0.69 | 0.63 | 0.19 | 1.93 | 1.88 |
| R46* | - | - | - | 6 | - | - | 7 1/16 | 8.313 | 0.500 | 0.75 | 0.69 | 0.13 | 2.39 | 2.33 |
| R47* | - | - | - | - | 6 | - | - | 9.000 | 0.750 | 1.00 | 0.94 | 0.16 | 5.06 | 4.99 |
| R48 | 8 | - | - | - | - | - | - | 9.750 | 0.313 | 0.56 | 0.50 | - | 1.350 | 1.240 |
| R49* | - | 8 | 8 | - | - | 9 | - | 10.625 | 0.438 | 0.69 | 0.63 | 0.19 | 2.47 | 2.40 |
| R50* | - | - | - | 8 | - | - | 9 | 10.625 | 0.625 | 0.88 | 0.81 | 0.16 | 4.40 | 4.32 |
| R51 | - | - | - | - | 8 | - | - | 11.000 | 0.875 | 1.13 | 1.06 | - | 8.05 | 8.17 |
| R52 | 10 | - | - | - | - | - | - | 12.000 | 0.313 | 0.56 | 0.50 | - | 1.66 | 1.53 |
| R53* | - | 10 | 10 | - | - | 11 | - | 12.750 | 0.438 | 0.69 | 0.63 | 0.19 | 3.00 | 2.88 |
| R54 | - | - | - | 10 | - | - | 11 | 12.750 | 0.625 | 0.88 | 0.81 | 0.16 | 5.29 | 5.18 |
| R55 | - | - | - | - | 10 | - | - | 13.500 | 1.125 | 1.44 | 1.38 | - | 16.23 | 17.04 |
| R56 | 12 | - | - | - | - | - | - | 15.000 | 0.313 | 0.56 | 0.69 | - | 2.07 | 1.92 |
| R57* | - | 12 | 12 | - | - | 13 5/8 | - | 15.000 | 0.438 | 0.69 | 0.63 | 0.19 | 3.48 | 3.38 |
| R58 | - | - | - | 12 | - | - | - | 15.000 | 0.875 | 1.13 | 1.06 | - | 11.00 | 11.13 |
| R59 | 14 | - | - | - | - | - | - | 15.265 | 0.313 | 0.56 | 0.50 | - | 2.16 | 2.00 |
| R60 | - | - | - | - | 12 | - | - | 16.000 | 1.250 | 1.56 | 1.50 | - | 23.10 | 23.50 |
| R61 | - | 14 | - | - | - | - | - | 16.500 | 0.438 | 0.69 | 0.63 | - | 3.83 | 3.73 |
| R62 | - | - | 14 | - | - | - | - | 16.500 | 0.625 | 0.88 | 0.81 | - | 6.84 | 6.71 |
| R63* | - | - | - | 14 | - | - | - | 16.500 | 1.000 | 1.31 | 1.25 | 0.22 | 16.20 | 16.67 |
| R64 | 16 | - | - | - | - | - | - | 17.875 | 0.313 | 0.56 | 0.50 | - | 2.47 | 2.29 |
| R65* | - | 16 | - | - | - | 16 3/4** | - | 18.500 | 0.438 | 0.69 | 0.63 | 0.19 | 4.30 | 4.18 |
| R66* | - | - | 16 | - | - | (16) | - | 18.500 | 0.625 | 0.88 | 0.81 | 0.16 | 7.67 | 7.53 |
| R67 | - | - | - | 16 | - | - | - | 18.500 | 1.125 | 1.44 | 1.38 | - | 22.30 | 23.40 |
| R68 | 18 | - | - | - | - | - | - | 20.375 | 0.313 | 0.56 | 0.50 | - | 2.82 | 2.60 |
| R69* | - | 18 | - | - | - | - | - | 21.000 | 0.438 | 0.69 | 0.63 | 0.19 | 4.87 | 4.74 |
| R70* | - | - | 18 | - | - | (18) | - | 21.000 | 0.750 | 1.00 | 0.94 | 0.19 | 11.80 | 11.64 |
| R71 | - | - | - | 18 | - | - | - | 21.000 | 1.125 | 1.44 | 1.38 | - | 25.20 | 26.50 |
| R72 | 20 | - | - | - | - | - | - | 22.000 | 0.313 | 0.56 | 0.50 | - | 3.04 | 2.81 |
| R73* | - | 20 | - | - | - | 21 1/4** | - | 23.000 | 0.500 | 0.75 | 0.69 | 0.13 | 6.60 | 6.47 |
| R74* | - | - | 20 | - | - | (20 3/4) | - | 23.000 | 0.750 | 1.00 | 0.94 | 0.19 | 12.95 | 12.75 |
| R75 | - | - | - | 20 | - | - | - | 23.000 | 1.250 | 1.56 | 1.50 | - | 33.30 | 35.30 |
| R76 | 24 | - | - | - | - | - | - | 26.500 | 0.313 | 0.56 | 0.50 | - | 3.66 | 3.38 |
| R77 | - | 24 | - | - | - | - | - | 27.250 | 0.625 | 0.88 | 0.81 | - | 11.30 | 11.10 |
| R78 | - | - | 24 | - | - | - | - | 27.250 | 1.000 | 1.31 | 1.25 | - | 27.10 | 27.58 |

Dimensions in Inches

(*) Denotes ring number specified in API 6A.

Nominal Pipe Sizes in brackets apply to class rating 3000 only.

Nominal Pipe Sizes marked (**) apply to class rating 2000 only.

Ring no. R30 is suitable for lapped flanges only.



| Ring No. | PRESSURE CLASS RATINGS | | | | | | | Pitch | Height of Ring | | Approx. Distance Between | Gasket Weights, lbs. | | |
|----------|------------------------|---------|-----|------|------|-----------|------|----------|----------------|------|--------------------------|----------------------|--|-----------|
| | ANSI, BS & MSS | | | | | API (psi) | | Diameter | Width | Oval | | Octagonal | Oval | Octagonal |
| | 150 | 300/600 | 900 | 1500 | 2500 | 2000/3000 | 5000 | of Ring | of Ring | | B | | | |
| | Nominal Pipe Size | | | | | | | P | A | | | | | |
| R79 | - | - | - | 24 | - | - | - | 27.250 | 1.375 | 1.75 | 1.63 | 0.19 | 48.7 | 49.75 |
| R80 | 22 | - | - | - | - | - | - | 24.250 | 0.313 | - | 0.50 | - | - | 3.11 |
| R81 | - | 22 | - | - | - | - | - | 25.000 | 0.563 | - | 0.75 | - | - | 8.55 |
| R82* | - | - | - | - | - | - | - | 2.250 | 0.438 | - | 0.63 | 0.19 | - | .508 |
| R84* | - | - | - | - | - | - | - | 2.500 | 0.438 | - | 0.63 | 0.19 | - | .564 |
| R85* | - | - | - | - | - | - | - | 3.125 | 0.500 | - | 0.69 | 0.13 | - | .978 |
| R86* | - | - | - | - | - | - | - | 3.563 | 0.625 | - | 0.81 | 0.16 | - | 1.447 |
| R87* | - | - | - | - | - | - | - | 3.938 | 0.625 | - | 0.81 | 0.16 | - | 1.597 |
| R88* | - | - | - | - | - | - | - | 4.875 | 0.750 | - | 0.94 | 0.19 | - | 2.735 |
| R89* | - | - | - | - | - | - | - | 4.500 | 0.750 | - | 0.94 | 0.19 | - | 2.528 |
| R90* | - | - | - | - | - | - | - | 6.125 | 0.875 | - | 1.06 | 0.19 | - | 4.55 |
| R91* | - | - | - | - | - | - | - | 10.250 | 1.250 | - | 1.50 | 0.19 | - | 15.05 |
| R92 | - | - | - | - | - | - | - | 9.000 | 0.438 | 0.69 | 0.63 | 0.16 | 2.07 | 2.02 |
| R93 | - | 26 | - | - | - | - | - | 29.500 | 0.750 | - | 0.94 | - | - | 16.33 |
| R94 | - | 28 | - | - | - | - | - | 31.500 | 0.750 | - | 0.94 | - | - | 17.44 |
| R95 | - | 30 | - | - | - | - | - | 33.750 | 0.750 | - | 0.94 | - | - | 18.69 |
| R96 | - | 32 | - | - | - | - | - | 36.000 | 0.875 | - | 1.06 | - | - | 26.65 |
| R97 | - | 34 | - | - | - | - | - | 38.000 | 0.875 | - | 1.06 | - | - | 28.13 |
| R98 | - | 36 | - | - | - | - | - | 40.125 | 0.875 | - | 1.06 | - | - | 29.79 |
| R99* | - | - | - | - | - | - | - | 9.250 | 0.438 | - | 0.63 | 0.19 | - | 2.08 |
| R100 | - | - | 26 | - | - | - | - | 29.500 | 1.125 | - | 1.38 | - | R100 through R105 information available on request | |
| R101 | - | - | 28 | - | - | - | - | 31.500 | 1.250 | - | 1.50 | - | | |
| R102 | - | - | 30 | - | - | - | - | 33.750 | 1.250 | - | 1.50 | - | | |
| R103 | - | - | 32 | - | - | - | - | 36.000 | 1.250 | - | 1.50 | - | | |
| R104 | - | - | 34 | - | - | - | - | 38.000 | 1.375 | - | 1.63 | - | | |
| R105 | - | - | 36 | - | - | - | - | 40.250 | 1.375 | - | 1.63 | - | | |

Dimensions in Inches

(*) Denotes ring number specified in API 6A.

Nominal Pipe Sizes in brackets apply to class rating 3000 only.

Nominal Pipe Sizes marked (**) apply to class rating 2000 only.

Ring no. R30 is suitable for lapped flanges only.