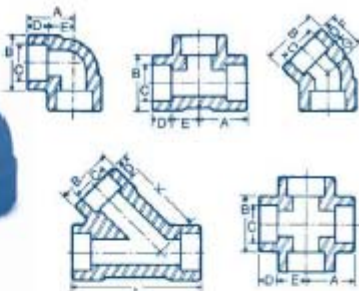


SOCKET WELD FITTINGS

CLASS 3000

CLASS 6000

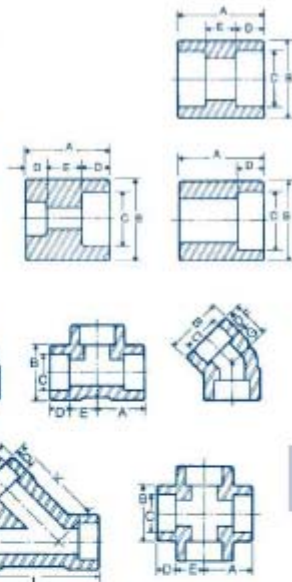
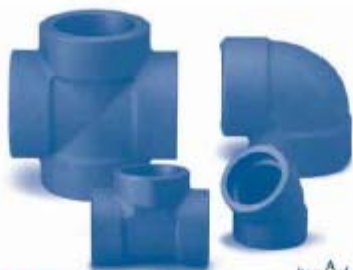


| DIMENSIONS (inches) | | | | | | | | | | | | | |
|----------------------------------|---|-------|---------|--------|--------|--------|---------|---------|---------|--------|---------|--------|--------|
| NOMINAL PIPE SIZE | CLASS 3000 - Schedule 40 Bore | | | | | | | | | | | | |
| | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 2 1/2 | 3 | 4 | |
| 90°EL TEE LAT | A | 7/8 | 7/8 | 31/32 | 1 1/8 | 1 5/16 | 1 1/2 | 1 3/4 | 2 | 2 3/8 | 3 | 3 3/8 | 4 3/16 |
| | B | 29/32 | 29/32 | 1 1/16 | 1 5/16 | 1 9/16 | 1 27/32 | 2 7/32 | 2 1/2 | 3 1/32 | 3 11/16 | 4 5/16 | 5 3/4 |
| | (MIN.) D | 3/8 | 3/8 | 3/8 | 3/8 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 5/8 | 5/8 | 3/4 |
| 45°EL CROSS | A | 7/8 | 7/8 | 31/32 | 1 1/8 | 1 5/16 | 1 1/2 | 1 3/4 | 2 | 2 3/8 | 3 1/4 | 3 3/4 | 4 1/2 |
| | B | 29/32 | 29/32 | 1 1/16 | 1 5/16 | 1 9/16 | 1 27/32 | 2 7/32 | 2 1/2 | 3 1/32 | 4 | 4 3/4 | 5 |
| | (MIN.) D | 3/8 | 3/8 | 3/8 | 3/8 | 1/2 | 1/2 | 1/2 | 1/2 | 5/8 | 5/8 | 5/8 | 3/4 |
| | E | 7/16 | 7/16 | 17/32 | 5/8 | 3/4 | 7/8 | 1 1/16 | 1 1/4 | 1 1/2 | 1 5/8 | 2 1/4 | 2 5/8 |
| F | 3/4 | 3/4 | 3/4 | 1 | 1 1/8 | 1 1/4 | 1 5/16 | 1 3/8 | 1 11/16 | 2 1/16 | 2 1/2 | 3 1/8 | |
| G | 5/16 | 5/16 | 5/16 | 7/16 | 1/2 | 9/16 | 1 1/16 | 1 3/16 | 1 | 1 1/8 | 1 1/4 | 1 5/8 | |
| H | 1 1/4 | 1 1/4 | 1 1/2 | 1 5/8 | 1 7/8 | 2 1/4 | 2 5/8 | 2 15/16 | 3 5/16 | | | | |
| J | 7/8 | 7/8 | 1 | 1 1/8 | 1 3/8 | 1 3/4 | 2 | 2 1/8 | 2 1/2 | | | | |
| K | | | 1 7/8 | 2 1/8 | 2 9/16 | 3 | 3 1/2 | 3 15/16 | 4 3/4 | | | | |
| L | | | 2 11/16 | 3 | 3 9/16 | 4 1/8 | 4 13/16 | 5 3/8 | 6 7/16 | | | | |
| DIMENSIONS C (MINIMUM THICKNESS) | .420 .555 .690 .855 1.065 1.330 1.675 1.815 2.400 2.900 3.535 4.545 | | | | | | | | | | | | |
| WEIGHT (pounds) | | | | | | | | | | | | | |
| 90° ELBOW | .125 | .183 | .270 | .480 | .698 | .987 | 1.480 | 2.088 | 3.125 | 6.340 | 10.957 | 25.00 | |
| 45° ELBOW | .125 | .198 | .210 | .440 | .673 | .935 | 1.365 | 1.63 | 2.71 | 6.75 | 10.50 | 18.188 | |
| TEE | .25 | .25 | .345 | .540 | .825 | 1.307 | 2.00 | 2.640 | 4.070 | 8.75 | 12.50 | 27.80 | |
| STREET ELBOW | .25 | .25 | .375 | .50 | .875 | 1.438 | 2.25 | 3.00 | 5.198 | | | | |
| LATERAL | .25 | .25 | .625 | 1.00 | 1.500 | 2.375 | 3.75 | 4.125 | 6.295 | | | | |
| CROSS | .25 | .25 | .375 | .813 | 1.125 | 1.550 | 2.25 | 3.063 | 5.125 | 18.00 | 23.00 | 40.00 | |

| DIMENSIONS (inches) | | | | | | | | | | | | | |
|----------------------------------|---|-------|--------|--------|--------|---------|---------|---------|---------|---------|--------|-------|--|
| NOMINAL PIPE SIZE | CLASS 6000 - Schedule 160 Bore | | | | | | | | | | | | |
| | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 2 1/2 | 3 | 4 | |
| A | 7/8 | 31/32 | 1 1/8 | 1 5/16 | 1 1/2 | 1 3/4 | 2 | 2 3/8 | 2 1/2 | 3 1/4 | 3 3/4 | 4 1/2 | |
| | B | 29/32 | 1 1/16 | 1 5/16 | 1 9/16 | 1 27/32 | 2 7/32 | 2 1/2 | 3 1/32 | 3 11/32 | 4 | 4 3/4 | |
| | (MIN.) D | 3/8 | 3/8 | 3/8 | 3/8 | 1/2 | 1/2 | 1/2 | 1/2 | 5/8 | 5/8 | 3/4 | |
| E | 7/16 | 17/32 | 5/8 | 3/4 | 7/8 | 1 1/16 | 1 1/4 | 1 1/2 | 1 5/8 | 2 1/4 | 2 1/2 | 2 3/4 | |
| | F | 3/4 | 3/4 | 1 | 1 1/8 | 1 1/4 | 1 5/16 | 1 3/8 | 1 11/16 | 1 3/4 | 2 1/16 | 2 1/2 | |
| | G | 5/16 | 5/16 | 7/16 | 1/2 | 9/16 | 1 1/16 | 1 3/16 | 1 | 1 1/8 | 1 1/4 | 1 5/8 | |
| | H | 1 1/4 | 1 1/2 | 1 5/8 | 1 7/8 | 2 1/4 | 2 5/8 | 2 15/16 | 3 5/16 | | | | |
| J | 7/8 | 1 | 1 1/8 | 1 3/8 | 1 3/4 | 2 | 2 1/8 | 2 1/2 | | | | | |
| K | | | 2 1/8 | 2 9/16 | 3 | 3 1/2 | 3 15/16 | 4 3/4 | 5 | | | | |
| L | | | 3 | 3 9/16 | 4 1/8 | 4 13/16 | 5 3/8 | 6 7/16 | 6 5/8 | | | | |
| DIMENSIONS C (MINIMUM THICKNESS) | .420 .555 .690 .855 1.065 1.330 1.675 1.815 2.400 2.900 3.535 4.545 | | | | | | | | | | | | |
| WEIGHT (pounds) | | | | | | | | | | | | | |
| 90° ELBOW | | | | .598 | 1.440 | 2.348 | 3.188 | 5.25 | 6.660 | 11.875 | 19.25 | 32.70 | |
| 45° ELBOW | | | | .875 | 1.313 | 1.913 | 2.27 | 4.313 | 4.813 | 9.825 | 14.25 | 27.25 | |
| TEE | | | | 1.375 | 2.00 | 3.313 | 3.75 | 7.400 | 8.240 | 15.625 | 23.50 | 33.00 | |
| STREET ELBOW | | | | 1.00 | 1.525 | 2.50 | 3.688 | 6.438 | | | | | |
| LATERAL | | .375 | .438 | 2.00 | 3.063 | 5.125 | 8.25 | 11.938 | 12.5 | | | | |
| CROSS | | | | 1.50 | 2.50 | 3.460 | 5.25 | 8.75 | 9.438 | 20.25 | 27.00 | 39.00 | |

SOCKET WELD FITTINGS

CLASS 9000



CLASS 9000 XXS BORE- 90° ELBOW

DIMENSIONS (inches)

| NOMINAL PIPE SIZE | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 |
|-------------------|---------|--------|-------|--------|---------|---------|
| A | 1 1/2 | 1 3/4 | 2 | 2 3/8 | 2 1/2 | 3 |
| B | 1 27/32 | 2 7/32 | 2 1/2 | 3 1/32 | 3 11/32 | 3 11/16 |
| (MIN.) D | 3/8 | 1/2 | 1/2 | 1/2 | 1/2 | 5/8 |
| E | 1 | 1 1/8 | 1 1/4 | 1 3/8 | 1 1/2 | 2 1/8 |

WEIGHT (pounds)

| | | | | | | |
|--------|------|------|------|------|------|------|
| Weight | 1.44 | 2.25 | 3.19 | 5.25 | 6.69 | 6.69 |
|--------|------|------|------|------|------|------|

CLASS 9000 XXS BORE- TEE

DIMENSIONS (inches)

| NOMINAL PIPE SIZE | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 |
|-------------------|---------|--------|-------|--------|---------|---------|
| A | 1 1/2 | 1 3/4 | 2 | 2 3/8 | 2 1/2 | 3 |
| B | 1 27/32 | 2 7/32 | 2 1/2 | 3 1/32 | 3 11/32 | 3 11/16 |
| (MIN.) D | 3/8 | 1/2 | 1/2 | 1/2 | 1/2 | 5/8 |
| E | 1 | 1 1/8 | 1 1/4 | 1 3/8 | 1 1/2 | 2 1/8 |

WEIGHT (pounds)

| | | | | | | |
|--------|------|------|------|------|------|------|
| Weight | 2.00 | 3.31 | 3.75 | 6.50 | 7.68 | 8.75 |
|--------|------|------|------|------|------|------|

CLASS 9000 XXS BORE- 45° ELBOW

DIMENSIONS (inches)

| NOMINAL PIPE SIZE | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 |
|-------------------|---------|--------|-------|---------|-------|--------|
| B | 1 27/32 | 2 7/32 | 2 1/2 | 3 1/32 | 3 3/8 | 4 |
| (MIN.) D | 5/8 | 9/16 | 9/16 | 13/16 | 3/4 | 35/16 |
| F | 1 1/4 | 1 5/16 | 1 3/8 | 1 11/16 | 1 3/4 | 2 1/16 |
| G | 5/8 | 3/4 | 13/16 | 7/8 | 1 | 1 1/8 |

WEIGHT (pounds)

| | | | | | | |
|--------|------|------|------|------|------|------|
| Weight | 1.31 | 2.06 | 2.50 | 4.31 | 4.81 | 9.52 |
|--------|------|------|------|------|------|------|

CLASS 9000 XXS BORE- LATERAL

DIMENSIONS (inches)

| NOMINAL PIPE SIZE | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 |
|-------------------|---------|---------|---------|--------|---------|---|
| B | 1 27/32 | 2 7/32 | 2 1/2 | 3 1/32 | 3 11/32 | |
| (MIN.) D | 9/16 | 5/8 | 11/16 | 7/8 | 7/8 | |
| K | 3 | 3 1/2 | 3 15/16 | 4 3/4 | 5 | |
| L | 4 1/8 | 4 13/16 | 5 3/8 | 6 7/16 | 6 5/8 | |

WEIGHT (pounds)

| | | | | | | |
|--------|------|------|------|------|------|--|
| Weight | 1.75 | 2.38 | 3.75 | 6.88 | 6.68 | |
|--------|------|------|------|------|------|--|

DIMENSIONS C - COMMON TO ALL FITTINGS (inches)

| NOMINAL PIPE SIZE | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 |
|-------------------|------|-------|-------|-------|-------|-------|
| C | .655 | 1.065 | 1.330 | 1.675 | 1.915 | 2.406 |

CLASS 9000 XXS BORE- CROSS

DIMENSIONS (inches)

| NOMINAL PIPE SIZE | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 |
|-------------------|---------|--------|-------|--------|---------|-------|
| A | 1 1/2 | 1 3/4 | 2 | 2 3/8 | 2 1/2 | 3 1/4 |
| B | 1 27/32 | 2 7/32 | 2 1/2 | 3 1/32 | 3 11/32 | 4 |
| (MIN.) D | 1/2 | 5/8 | 3/4 | 1 | 1 | 1 1/8 |
| F | 1 | 1 1/8 | 1 1/4 | 1 3/8 | 1 1/2 | 2 1/8 |

WEIGHT (pounds)

| | | | | | | |
|--------|------|------|------|------|------|-------|
| Weight | 2.50 | 4.12 | 4.12 | 5.12 | 9.44 | 22.19 |
|--------|------|------|------|------|------|-------|

CLASS 9000 XXS BORE- COUPLINGS- REDUCERS- HALF COUPLING

DIMENSIONS (inches)

| NOMINAL PIPE SIZE | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 |
|-------------------|---------|-------|-------|-------|--------|-------|
| A | 1 3/8 | 1 1/2 | 1 3/4 | 1 7/8 | 2 | 2 1/2 |
| B | 1 13/16 | 2 | 2 3/8 | 2 3/4 | 3 1/16 | 3 5/8 |
| (MIN.) D | 1/2 | 9/16 | 5/8 | 11/16 | 3/4 | 7/8 |
| E | 3/8 | 3/8 | 1/2 | 1/2 | 1/2 | 3/4 |
| F | | | | | | |

WEIGHT (pounds)

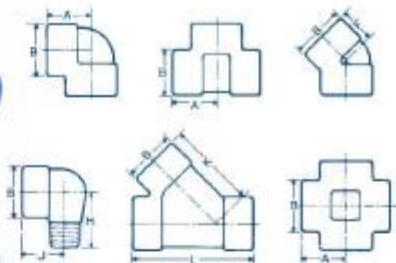
| | | | | | | |
|---------------|-----|------|------|------|------|------|
| Coupling | .75 | 1.06 | 1.69 | 2.22 | 2.81 | 4.95 |
| Reducer | .75 | 1.06 | 1.69 | 2.22 | 2.81 | 4.95 |
| Half Coupling | .88 | 1.16 | 1.88 | 2.50 | 3.25 | 5.38 |

THREADED FITTINGS

CLASS 2000

CLASS 3000

CLASS 6000



| | | DIMENSIONS (inches) | | | | | | | | | | | | |
|-------------------|-----------|---------------------|-------|--------|--------|--------|---------|--------|-------|---------|---------|--------|--------|--------|
| | | NOMINAL PIPE SIZE | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 2 1/2 | 3 | 4 |
| CLASS 2000 | 90EL TEE | A | 7/8 | 31/32 | 1 1/8 | 1 1/8 | 1 5/16 | 1 1/2 | 1 3/4 | 2 | 2 3/8 | 3 | 3 3/8 | 4 5/16 |
| | STEL LAT | B | 29/32 | 1 1/16 | 1 5/16 | 1 9/16 | 1 27/32 | 2 7/32 | 2 1/2 | 3 1/32 | 3 11/16 | 4 5/16 | 5 3/4 | |
| | | F | 3/4 | 3/4 | 1 | 1 1/8 | 1 1/4 | 1 5/16 | 1 3/8 | 1 11/16 | 2 1/16 | 2 1/2 | 3 1/8 | |
| | 45EL | A | 7/8 | 31/32 | 1 1/8 | 1 5/16 | 1 1/2 | 1 3/4 | 2 | 2 3/8 | 3 1/4 | 3 3/4 | 4 1/2 | |
| | CROSS | B | 29/32 | 1 1/16 | 1 5/16 | 1 9/16 | 1 27/32 | 2 7/32 | 2 1/2 | 3 1/32 | 4 | 4 3/4 | 6 | |
| | | F | 3/4 | 3/4 | 1 | 1 1/8 | 1 1/4 | 1 5/16 | 1 3/8 | 1 11/16 | 2 1/16 | 2 1/2 | 3 1/8 | |
| | | WEIGHT (pounds) | | | | | | | | | | | | |
| | 90° ELBOW | .25 | .198 | .293 | .500 | .773 | 1.013 | 1.550 | 2.180 | 3.140 | 5.50 | 10.925 | 26.575 | |
| | 45° ELBOW | .125 | .188 | .236 | .435 | .740 | 1.058 | 1.375 | 1.740 | 2.883 | 7.75 | 11.313 | 19.125 | |
| | TEE | .25 | .267 | .373 | .613 | .963 | 1.355 | 2.030 | 2.900 | 4.450 | 9.530 | 12.900 | 28.700 | |
| | CROSS | .50 | .50 | .460 | .777 | 1.125 | 1.690 | 2.460 | 3.188 | 5.590 | 16.438 | 19.50 | 32.688 | |

| | | DIMENSIONS (inches) | | | | | | | | | | | |
|-------------------|--------------|---------------------|--------|--------|--------|---------|---------|--------|---------|---------|--------|--------|--------|
| | | NOMINAL PIPE SIZE | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 2 1/2 | 3 |
| CLASS 3000 | A | 7/8 | 31/32 | 1 1/8 | 1 5/16 | 1 1/2 | 1 3/4 | 2 | 2 3/8 | 2 1/2 | 3 1/4 | 3 3/4 | 4 1/2 |
| | B | 29/32 | 1 1/16 | 1 5/16 | 1 9/16 | 1 27/32 | 2 7/32 | 2 1/2 | 3 1/32 | 3 11/32 | 4 | 4 3/4 | 6 |
| | H | 3/4 | 3/4 | 1 | 1 1/8 | 1 1/4 | 1 5/16 | 1 3/8 | 1 11/16 | 1 3/4 | 2 1/16 | 2 1/2 | 3 1/8 |
| | F | 1 1/4 | 1 1/4 | 1 1/2 | 1 5/8 | 1 7/8 | 2 1/4 | 2 5/8 | 2 15/16 | 3 5/16 | | | |
| | J | 7/8 | 7/8 | 1 | 1 1/8 | 1 3/8 | 1 3/4 | 2 | 2 1/8 | 2 1/2 | | | |
| | K | 1 7/8 | 2 1/8 | 2 9/16 | 3 | 3 1/2 | 3 15/16 | 4 3/4 | 5 | | | | |
| | L | 2 11/16 | 3 | 3 9/16 | 4 1/8 | 4 13/16 | 5 3/8 | 6 7/16 | 6 5/8 | | | | |
| | | | | | | | | | | | | | |
| | | WEIGHT (pounds) | | | | | | | | | | | |
| | 90° ELBOW | .236 | .350 | .592 | .973 | 1.355 | 2.265 | 2.407 | 3.50 | 5.920 | 11.900 | 14.438 | 31.975 |
| | 45° ELBOW | .25 | .290 | .50 | .75 | 1.188 | 1.988 | 2.235 | 3.00 | 4.930 | 7.375 | 13.558 | 19.063 |
| | TEE | .325 | .460 | .753 | 1.270 | 1.830 | 3.025 | 3.620 | 7.040 | 7.550 | 13.125 | 23.100 | 40.000 |
| | STREET ELBOW | .254 | .242 | .375 | .595 | 1.048 | 1.438 | 2.340 | 3.00 | 5.461 | | | |
| | LATERAL | | .625 | 1.313 | 1.75 | 2.75 | 4.625 | 5.50 | 10.813 | 11.5 | | | |
| | CROSS | .436 | .567 | .970 | 1.50 | 2.50 | 3.620 | 4.125 | 6.50 | 8.125 | 16.75 | 25.675 | 32 |

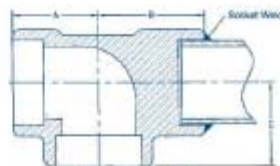
| | | DIMENSIONS (inches) | | | | | | | | | | | | |
|-------------------|--------------|---------------------|--------|--------|--------|---------|---------|--------|---------|---------|--------|--------|--------|-------|
| | | NOMINAL PIPE SIZE | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 2 1/2 | 3 | 4 |
| CLASS 6000 | 90EL TEE | A | 31/32 | 1 1/8 | 1 5/16 | 1 1/2 | 1 3/4 | 2 | 2 3/8 | 2 1/2 | 3 1/4 | 3 3/4 | 4 3/16 | 4 1/2 |
| | STEL LAT | B | 1 1/16 | 1 5/16 | 1 9/16 | 1 27/32 | 2 7/32 | 2 1/2 | 3 1/32 | 3 11/32 | 4 | 4 3/4 | 5 3/4 | 6 |
| | | F | 3/4 | 1 | 1 1/8 | 1 1/4 | 1 5/16 | 1 3/8 | 1 11/16 | 1 3/4 | 2 1/16 | 2 1/2 | 3 1/8 | 3 1/8 |
| | | H | 1 1/4 | 1 1/2 | 1 5/8 | 1 7/8 | 2 1/4 | 2 5/8 | 2 15/16 | 3 5/16 | | | | |
| | 45EL | A | 31/32 | 1 1/8 | 1 5/16 | 1 1/2 | 1 3/4 | 2 | 2 3/8 | 2 1/2 | 3 1/4 | 3 3/4 | 4 1/2 | 4 1/2 |
| | CROSS | B | 1 1/16 | 1 5/16 | 1 9/16 | 1 27/32 | 2 7/32 | 2 1/2 | 3 1/32 | 3 11/32 | 4 | 4 3/4 | 6 | 6 |
| | | F | 3/4 | 1 | 1 1/8 | 1 1/4 | 1 5/16 | 1 3/8 | 1 11/16 | 1 3/4 | 2 1/16 | 2 1/2 | 3 1/8 | 3 1/8 |
| | J | 7/8 | 1 | 1 1/8 | 1 3/8 | 1 3/4 | 2 | 2 1/8 | 2 1/2 | | | | | |
| | K | | | 2 9/16 | 3 | 3 1/2 | 3 15/16 | 4 3/4 | 5 | | | | | |
| | L | | | 3 9/16 | 4 1/8 | 4 13/16 | 5 3/8 | 6 7/16 | 6 5/8 | | | | | |
| | | WEIGHT (pounds) | | | | | | | | | | | | |
| | 90° ELBOW | .25 | .625 | 1.023 | 1.625 | 2.825 | 3.50 | 6.75 | 7.50 | 13.438 | 20.875 | 38.050 | 38 | |
| | 45° ELBOW | .25 | .640 | .50 | 1.438 | 2.188 | 2.750 | 4.688 | 5.75 | 9.50 | 15 | 30.563 | 29 | |
| | TEE | .50 | .853 | 1.410 | 2.150 | 3.563 | 4.825 | 7.625 | 9.625 | 18.500 | 28.063 | 47.500 | 50 | |
| | STREET ELBOW | | .375 | .438 | 1 | 1.625 | 3.030 | 3.688 | 7.120 | | | | | |
| | LATERAL | | | 2.075 | 3.25 | 5.430 | 7.180 | 12.313 | 15.95 | | | | | |
| | CROSS | .560 | 1.188 | 1.50 | 2.75 | 4.310 | 6.625 | 10.75 | 11.50 | 22.188 | 27.50 | 54 | 40.50 | |

QUIKLEG90™ - SOCKET WELD - THREADED - BUTT WELD

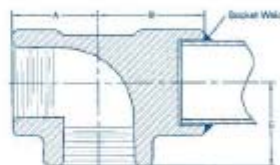
CLASS 3000

CLASS 6000

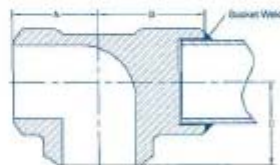
STD-XSTG



Socket Weld



Threaded



Butt Weld

| CLASS 3000 | DIMENSIONS (inches) | SOCKET WELD | | | | | | THREADED | | | | | |
|------------|---------------------|-------------|-------|--------|-------|-------|-------|----------|--------|-------|-------|-------|-------|
| | NOMINAL PIPE SIZE | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 |
| | A Nominal | - | 1 1/2 | 1 1/2 | 1 3/4 | 2 | 2 3/8 | 1 1/2 | 1 1/2 | 1 3/4 | 2 | 2 3/8 | 2 1/2 |
| B Nominal | - | 1 7/8 | 1 7/8 | 2 3/16 | 2 1/2 | 3 | 1 7/8 | 1 7/8 | 2 3/16 | 2 1/2 | 3 | 3 1/8 | |
| C Nominal | - | 1 1/2 | 1 1/2 | 1 3/4 | 2 | 2 3/8 | 1 1/2 | 1 1/2 | 1 3/4 | 2 | 2 3/8 | 2 1/2 | |

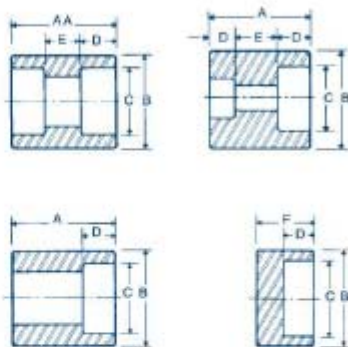
| CLASS 6000 | DIMENSIONS (inches) | SOCKET WELD | | | | | | THREADED | | | | | |
|------------|---------------------|-------------|--------|-------|-------|-------|-------|----------|-------|-------|-------|-------|---|
| | NOMINAL PIPE SIZE | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 |
| | A Nominal | - | 1 1/2 | 1 3/4 | 2 | 2 3/8 | 2 1/2 | 1 1/2 | 1 3/4 | 2 | 2 3/8 | 2 1/2 | - |
| B Nominal | - | 1 7/8 | 2 3/16 | 2 1/2 | 3 | 3 1/8 | 1 7/8 | 2 3/16 | 2 1/2 | 3 | 3 1/8 | - | |
| C Nominal | - | 1 1/2 | 1 3/4 | 2 | 2 3/8 | 2 1/2 | 1 1/2 | 1 3/4 | 2 | 2 3/8 | 2 1/2 | - | |

| STD-XSTG | DIMENSIONS (inches) | BUTT WELD | | | | | | | |
|-----------|---------------------|-----------|-------|--------|--------|--|--|--|--|
| | NOMINAL PIPE SIZE | 2 | 2 1/2 | 3 | 4 | | | | |
| | A Nominal | 2 3/8 | 3 | 3 3/8 | 4 3/16 | | | | |
| B Nominal | 3 | 3 | 3 3/8 | 4 3/16 | | | | | |
| C Nominal | 2 3/8 | 3 | 3 3/8 | 4 3/16 | | | | | |

SOCKET WELD COUPLINGS, REDUCERS & CAPS

CLASS 3000

CLASS 6000



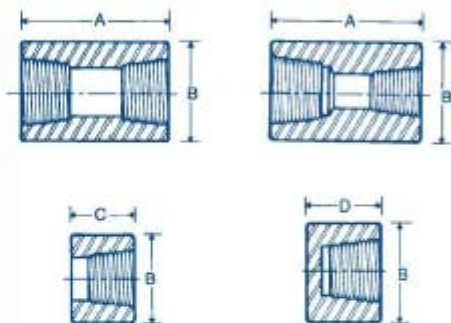
| CLASS 3000 | DIMENSIONS (Inches) | | | | | | | | | | | | |
|-----------------|---------------------|--------|--------|--------|---------|---------|---------|---------|---------|--------|---------|---------|---------|
| | NOMINAL PIPE SIZE | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 2 1/2 | 3 | 4 |
| A | 1 5/8 | 1 1/8 | 1 1/8 | 1 3/8 | 1 1/2 | 1 3/4 | 1 3/4 | 1 7/8 | 2 | 2 1/2 | 2 1/2 | 2 3/4 | 3 |
| AA | 1 1/32 | 1 1/32 | 1 1/32 | 1 9/64 | 1 13/32 | 1 13/32 | 1 33/64 | 1 33/64 | 1 33/64 | 2 1/64 | 2 1/64 | 2 1/64 | 2 17/64 |
| B | 3/4 | 7/8 | 1 1/16 | 1 1/4 | 1 1/2 | 1 13/16 | 1 7/4 | 2 1/2 | 3 | 3 5/8 | 4 5/16 | 5 1/2 | 6 1/4 |
| C | .420 | .555 | .690 | .855 | 1.065 | 1.330 | 1.675 | 1.915 | 2.405 | 2.905 | 3.535 | 4.545 | 5.545 |
| D | 7/16 | 7/16 | 7/16 | 1/2 | 9/16 | 5/8 | 11/16 | 3/4 | 7/8 | 7/8 | 1 | 1 1/8 | 1 1/8 |
| E | 1/4 | 1/4 | 1/4 | 3/8 | 3/8 | 1/2 | 1/2 | 1/2 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| F | 11/16 | 3/4 | 3/4 | 7/8 | 1 | 1 1/16 | 1 3/16 | 1 1/4 | 1 1/2 | 1 9/16 | 1 13/16 | 1 13/16 | 2 1/16 |
| WEIGHT (pounds) | | | | | | | | | | | | | |
| COUPLING | .125 | .125 | .125 | .189 | .313 | .563 | .813 | 1 | 2 | 2.625 | 3.875 | 6.625 | 13.125 |
| REDUCER | .125 | .125 | .125 | .189 | .313 | .563 | .813 | 1 | 2 | 2.625 | 3.875 | 6.625 | 13.125 |
| HALF COUPLING | .125 | .125 | .125 | .189 | .313 | .563 | .813 | 1 | 2 | 2.625 | 3.875 | 6.625 | 13.125 |
| PIPE CAP | .063 | .063 | .125 | .189 | .313 | .563 | .813 | 1.125 | 1.688 | 3 | 3.625 | 6.688 | 13.125 |

| CLASS 6000 | DIMENSIONS (Inches) | | | | | | | | | | | | |
|-----------------|---------------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|--------|---------|--|
| | NOMINAL PIPE SIZE | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 2 1/2 | 3 | 4 | |
| A | 1 1/8 | 1 1/8 | 1 3/8 | 1 1/2 | 1 3/4 | 1 7/8 | 2 | 2 1/2 | 2 1/2 | 2 3/4 | 3 | 3 | |
| AA | 1 1/8 | 1 1/8 | 1 5/32 | 1 13/32 | 1 13/32 | 1 33/64 | 1 33/64 | 1 33/64 | 2 1/64 | 2 1/64 | 2 1/64 | 2 17/64 | |
| B | 1 1/16 | 1 3/16 | 1 1/2 | 1 3/4 | 2 1/4 | 2 1/2 | 3 | 3 5/8 | 4 1/4 | 5 | 6 1/4 | 6 1/4 | |
| C | .555 | .690 | .855 | 1.065 | 1.330 | 1.675 | 1.915 | 2.405 | 2.905 | 3.535 | 4.545 | 5.545 | |
| D | 7/16 | 7/16 | 1/2 | 9/16 | 5/8 | 11/16 | 3/4 | 7/8 | 7/8 | 1 | 1 1/8 | 1 1/8 | |
| E | 1/4 | 1/4 | 3/8 | 3/8 | 1/2 | 1/2 | 1/2 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | |
| F | 15/16 | 15/16 | 1 | 1 1/16 | 1 1/4 | 1 5/16 | 1 3/8 | 1 5/8 | 1 11/16 | 1 15/16 | 2 1/16 | 2 1/16 | |
| WEIGHT (pounds) | | | | | | | | | | | | | |
| COUPLING | | | .375 | .563 | 1 | 1.408 | 2 | 3.875 | 5.50 | 6.625 | 13.125 | 13.125 | |
| REDUCER | | | .375 | .563 | 1 | 1.408 | 2 | 3.875 | 5.50 | 6.625 | 13.125 | 13.125 | |
| HALF COUPLING | | | .375 | .563 | 1 | 1.408 | 2 | 3.875 | 5.50 | 6.625 | 13.125 | 13.125 | |
| PIPE CAP | | | .375 | .50 | 1.125 | 1.125 | 2.25 | 3.50 | 5.625 | 6 | 13.50 | 13.50 | |

THREADED COUPLINGS, REDUCERS & CAPS

CLASS 3000

CLASS 6000



| CLASS 3000 | DIMENSIONS (Inches) | | | | | | | | | | | | |
|-----------------|---------------------|-------|--------|-------|--------|-------|--------|--------|--------|---------|---------|---------|-------|
| | NOMINAL PIPE SIZE | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 2 1/2 | 3 | 4 |
| | A | 1 1/4 | 1 3/8 | 1 1/2 | 1 7/8 | 2 | 2 3/8 | 2 5/8 | 3 1/8 | 3 3/8 | 3 5/8 | 4 1/4 | 4 3/4 |
| | B | 3/4 | 3/4 | 7/8 | 1 1/8 | 1 3/8 | 1 3/4 | 2 1/4 | 2 1/2 | 3 | 3 5/8 | 4 1/4 | 5 1/2 |
| | C | 5/8 | 1 1/16 | 3/4 | 15/16 | 1 | 1 3/16 | 1 5/16 | 1 9/16 | 1 11/16 | 1 13/16 | 2 1/8 | 2 3/8 |
| D | 15/16 | 1 | 1 | 1 1/4 | 1 7/16 | 1 5/8 | 1 3/4 | 1 3/4 | 1 7/8 | 2 3/8 | 2 9/16 | 2 11/16 | |
| WEIGHT (pounds) | | | | | | | | | | | | | |
| COUPLING | .125 | .125 | .25 | .25 | .438 | .625 | 1.563 | 2.188 | 3.125 | 4 | 6.75 | 16.75 | |
| REDUCER | .125 | .125 | .25 | .25 | .438 | .625 | 1.563 | 2.188 | 3.125 | 4 | 6.75 | 16.75 | |
| HALF COUPLING | .063 | .063 | .188 | .188 | .25 | .313 | .75 | 1.125 | 1.563 | 2 | 3.375 | 8.375 | |
| PIPE CAP | .031 | .063 | .125 | .25 | .313 | .50 | 1 | 1.625 | 3.125 | 5 | 8.50 | 14 | |

| CLASS 6000 | DIMENSIONS (Inches) | | | | | | | | | | | | |
|-----------------|---------------------|--------|--------|--------|-------|---------|---------|--------|--------|---------|---------|---------|-------|
| | NOMINAL PIPE SIZE | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 2 1/2 | 3 | 4 |
| | A | 1 1/4 | 1 3/8 | 1 1/2 | 1 7/8 | 2 | 2 3/8 | 2 5/8 | 3 1/8 | 3 3/8 | 3 5/8 | 4 1/4 | 4 3/4 |
| | B | 7/8 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 1/4 | 2 1/2 | 3 | 3 5/8 | 4 1/4 | 5 | 6 1/4 |
| | C | 5/8 | 1 1/16 | 3/4 | 15/16 | 1 | 1 3/16 | 1 5/16 | 1 9/16 | 1 11/16 | 1 13/16 | 2 1/8 | 2 3/8 |
| D | 1 | 1 1/16 | 1 1/16 | 1 5/16 | 1 1/2 | 1 11/16 | 1 13/16 | 1 7/8 | 2 | 2 1/2 | 2 11/16 | 2 15/16 | |
| WEIGHT (pounds) | | | | | | | | | | | | | |
| COUPLING | .188 | .188 | .25 | .50 | 1 | 2.125 | 2.375 | 4.375 | 7.75 | 10.75 | 13.50 | 24.50 | |
| REDUCER | .188 | .188 | .25 | .50 | 1 | 2.125 | 2.375 | 4.375 | 7.75 | 10.75 | 13.50 | 24.50 | |
| HALF COUPLING | .094 | .094 | .125 | .25 | .50 | 1.063 | 1.188 | 2.188 | 3.875 | 5.375 | 6.75 | 12.25 | |
| PIPE CAP | .125 | .125 | .188 | .313 | .438 | .75 | 1.313 | 1.688 | 3.25 | | | | |

SOCKET WELD REDUCERS INSERTS (MSS-SP79)

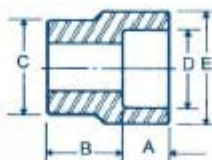
CLASS 3000

CLASS 6000

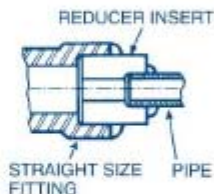
CLASS 9000



TYPE 1



TYPE 2



| NOMINAL PIPE SIZE | CLASS 3000 | | | CLASS 6000 | | | CLASS 9000 | | | | | | | |
|-------------------|------------|-------|-----------|------------|--------|--------|------------|--------|--------|----------|-----------|--------|--------|-------|
| | C | D | Ftg. Type | A | B | E | Ftg. Type | A | B | E | Ftg. Type | A | B | E |
| 3/8 x 1/4 | .675 | .555 | 1 | 7/16 | 3/4 | 15/16 | 1 | 7/16 | 7/8 | 1 | | | | |
| 1/2 x 3/8 | .850 | .690 | 1 | 7/16 | 13/16 | 1 1/16 | 1 | 7/16 | 15/16 | 1 3/16 | | | | |
| 1/2 x 1/4 | .850 | .555 | 1 | 7/16 | 15/16 | 15/16 | 1 | 7/16 | 7/8 | 1 | | | | |
| 3/4 x 1/2 | 1.060 | .855 | 1 | 7/16 | 7/8 | 1 5/16 | 1 | 7/16 | 1 1/16 | 1 3/8 | 1 | 7/16 | 1 3/16 | 1 3/4 |
| 3/4 x 3/8 | 1.060 | .690 | 2 | 7/16 | 5/8 | - | 1 | 7/16 | 7/8 | 1 3/16 | | | | |
| 3/4 x 1/4 | 1.060 | .555 | 2 | 3/8 | 1 1/16 | - | 2 | 3/8 | 7/8 | - | | | | |
| 1 x 3/4 | 1.325 | 1.065 | 1 | 9/16 | 15/16 | 1 1/2 | 1 | 9/16 | 1 1/8 | 1 11/16 | 1 | 9/16 | 1 1/4 | 2 |
| 1 x 1/2 | 1.325 | .855 | 2 | 1/2 | 5/8 | - | 1 | 7/16 | 1 1/8 | 1 3/8 | 1 | 7/16 | 1 1/8 | 1 3/4 |
| 1 x 3/8 | 1.325 | .690 | 2 | 7/16 | 1 1/16 | - | 2 | 1/2 | 7/8 | - | | | | |
| 1 x 1/4 | 1.325 | .555 | 2 | 3/8 | 3/4 | - | 2 | 3/8 | 15/16 | - | | | | |
| 1 1/4 x 1 | 1.670 | 1.330 | 1 | 9/16 | 1 | 1 7/8 | 1 | 9/16 | 1 3/16 | 2 | 1 | 9/16 | 1 3/8 | 2 3/8 |
| 1 1/4 x 3/4 | 1.670 | 1.065 | 2 | 9/16 | 1 1/16 | - | 2 | 9/16 | 1 3/16 | - | 1 | 9/16 | 1 3/16 | 2 |
| 1 1/4 x 1/2 | 1.670 | .855 | 2 | 1/2 | 3/4 | - | 2 | 1/2 | 7/8 | - | 2 | 1/2 | 7/8 | - |
| 1 1/4 x 3/8 | 1.670 | .690 | 2 | 7/16 | 1 3/16 | - | 2 | 7/16 | 15/16 | - | | | | |
| 1 1/4 x 1/4 | 1.670 | .555 | 2 | 3/8 | 7/8 | - | 2 | 3/8 | 1 | - | | | | |
| 1 1/2 x 1 1/4 | 1.910 | 1.675 | 1 | 9/16 | 1 1/8 | 2 1/4 | 1 | 9/16 | 1 3/8 | 2 3/8 | 1 | 9/16 | 1 5/8 | 2 3/4 |
| 1 1/2 x 1 | 1.910 | 1.330 | 2 | 5/8 | 1 1/16 | - | 1 | 9/16 | 1 3/16 | 2 | 1 | 9/16 | 1 3/8 | 2 3/8 |
| 1 1/2 x 3/4 | 1.910 | 1.065 | 2 | 9/16 | 3/4 | - | 2 | 9/16 | 1 | - | 2 | 9/16 | 1 | - |
| 1 1/2 x 1/2 | 1.910 | .855 | 2 | 1/2 | 1 3/16 | - | 2 | 1/2 | 1 1/16 | - | 2 | 9/16 | 1 | - |
| 1 1/2 x 3/8 | 1.910 | .690 | 2 | 7/16 | 7/8 | - | 2 | 7/16 | 1 1/8 | - | | | | |
| 2 x 1 1/2 | 2.385 | 1.915 | 1 | 9/16 | 1 1/4 | 2 1/2 | 1 | 9/16 | 1 7/8 | 2 1 1/16 | 1 | 9/16 | 2 1/16 | 3 |
| 2 x 1 1/4 | 2.385 | 1.675 | 2 | 1 1/16 | 1 3/16 | - | 2 | 7/8 | 1 5/16 | - | 1 | 9/16 | 2 | 2 3/4 |
| 2 x 1 | 2.385 | 1.330 | 2 | 5/8 | 7/8 | - | 2 | 1 3/16 | 1 | - | 2 | 1 3/16 | 1 | - |
| 2 x 3/4 | 2.385 | 1.065 | 2 | 9/16 | 15/16 | - | 2 | 3/4 | 1 1/16 | - | 2 | 3/4 | 1 1/16 | - |
| 2 x 1/2 | 2.385 | .855 | 2 | 1/2 | 1 | - | 2 | 1 1/16 | 1 1/8 | - | 2 | 1 1/16 | 1 1/8 | - |

Note: Socket Weld Reducer Inserts comply fully with MSS-SP79

THREADED PLUGS & BUSHINGS

CLASS 3000/6000



Round Head Plug



Hexagon Bushing



Square Head Plug



Hexagon Plug



Flush Bushing

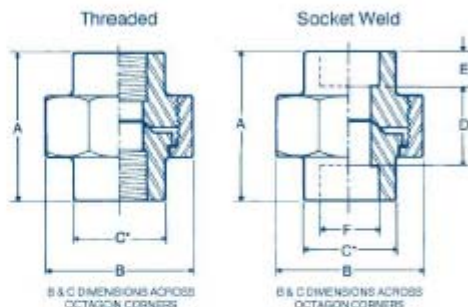
| DIMENSIONS (Inches) | | | | | | | | | | | | |
|---------------------|-------|-------|-------|-------|--------|--------|---------|---------|--------|--------|---------|---------|
| NOMINAL PIPE SIZE | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 2 1/2 | 3 | 4 |
| A | 1 3/8 | 1 5/8 | 1 5/8 | 1 3/4 | 1 3/4 | 2 | 2 | 2 | 2 1/2 | 2 3/4 | 2 3/4 | 3 |
| B | 13/32 | 17/32 | 11/16 | 27/32 | 11/16 | 1 5/16 | 1 11/16 | 1 29/32 | 2 3/8 | 2 7/8 | 3 1/2 | 4 1/2 |
| C * | 7/16 | 5/8 | 11/16 | 7/8 | 1 1/16 | 1 7/16 | 1 13/16 | 2 | 2 1/2 | 3 | 3 3/4 | 4 5/8 |
| D | 1/4 | 1/4 | 5/16 | 5/16 | 3/8 | 3/8 | 9/16 | 5/8 | 11/16 | 3/4 | 13/16 | 1 1/4 |
| E | 7/16 | 1/2 | 9/16 | 11/16 | 3/4 | 27/32 | 7/8 | 45/16 | 1 | 1 1/4 | 1 9/16 | 1 21/32 |
| F | 9/32 | 3/8 | 7/16 | 9/16 | 5/8 | 1 3/16 | 1 5/16 | 1 1/8 | 1 5/16 | 1 1/2 | 1 11/16 | 2 1/2 |
| G | 1/4 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 11/16 | 3/4 | 13/16 | 1 1/4 |
| H | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 3/4 | 13/16 | 13/16 | 7/8 | 1 1/16 | 1 1/8 | 1 3/8 |
| J | | 5/8 | 11/16 | 7/8 | 1 1/16 | 1 7/16 | 1 13/16 | 2 | 2 1/2 | 3 | 3 3/4 | 4 5/8 |
| K | | 3/16 | 3/16 | 3/16 | 1/4 | 1/4 | 3/8 | 3/8 | 3/8 | 1/2 | 13/16 | 1 1/4 |
| L | | 1/2 | 9/16 | 11/16 | 3/4 | 27/32 | 7/8 | 15/16 | 1 | 1 1/4 | 1 9/16 | 1 21/32 |
| M | | 7/16 | 1/2 | 9/16 | 5/8 | 3/4 | 13/16 | 13/16 | 7/8 | 1 1/16 | 1 1/8 | 1 1/4 |
| N | | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 3/4 | 13/16 | 13/16 | 7/8 | 1 1/16 | 1 1/4 |
| WEIGHT (pounds) | | | | | | | | | | | | |
| ROUND HEAD PLUGS | .125 | .125 | .188 | .250 | .375 | .750 | 1.125 | 1.563 | 3.00 | 4.75 | 7.82 | 12.87 |
| HEXAGON PLUGS | .063 | .063 | .125 | .188 | .313 | .500 | 1.125 | 1.375 | 2.25 | 3.87 | 5.87 | 13.00 |
| SQUARE HEAD PLUGS | .016 | .031 | .063 | .125 | .188 | .313 | .563 | .875 | 1.50 | 2.25 | 2.87 | 7.18 |
| HEXAGON BUSHINGS | .063 | .063 | .063 | .125 | .188 | .375 | .688 | 1.62 | 2.37 | 3.50 | 8.31 | |
| FLUSH BUSHINGS | .063 | .063 | .063 | .125 | .125 | .125 | .125 | .188 | .37 | .62 | 1.00 | 2.00 |

* Dimension J for Hex Head Bushing and dimension C for Hex Head Plug are the same.

MSS-SP-83 UNIONS - THREADED & SOCKET WELD

CLASS 3000

CLASS 6000



* "C" dimension is across octagon corners or a diameter as applicable.
The 2-1/2" and 3" 3000 and 2" 6000 sizes have octagonal male and female ends; the other sizes are round.

| DIMENSIONS (Inches) | | | | | | | | | | | | |
|---------------------------|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| CLASS 3000 | NOMINAL PIPE SIZE | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 2 1/2 | 3 |
| | A | 1 11/16 | 1 11/16 | 1 27/32 | 2 | 2 5/16 | 2 7/16 | 2 7/8 | 3 | 3 1/2 | 4 1/4 | 4 7/16 |
| | B | 1 31/64 | 1 31/64 | 1 11/16 | 1 15/16 | 2 0/8 | 2 25/32 | 2 23/64 | 2 23/32 | 4 27/64 | 5 15/64 | 6 5/32 |
| | C | 53/64 | 53/64 | 1 | 1 3/16 | 1 15/32 | 1 25/32 | 2 7/32 | 2 35/64 | 3 1/16 | 3 9/16 | 4 9/32 |
| | D | 25/32 | 25/32 | 31/32 | 1 3/32 | 1 5/32 | 1 3/8 | 1 45/64 | 1 7/8 | 2 1/16 | 2 3/8 | 2 7/16 |
| | E | 7/16 | 7/16 | 7/16 | 7/16 | 9/16 | 9/16 | 9/16 | 9/16 | 1 1/16 | 7/8 | 1 |
| | F | .420 | .555 | .690 | .855 | 1.085 | 1.330 | 1.675 | 1.915 | 2.408 | 2.905 | 3.535 |
| WEIGHT PER UNION (pounds) | | .38 | .36 | .50 | .695 | 1.175 | 1.64 | 2.59 | 3.41 | 5.12 | 8.75 | 12.925 |

| DIMENSIONS (Inches) | | | | | | | | | | | | |
|---------------------------|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|
| CLASS 6000 | NOMINAL PIPE SIZE | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | | |
| | A | 1 11/16 | 1 27/32 | 2 | 2 5/16 | 2 7/16 | 2 7/8 | 3 | 3 1/2 | 4 1/8 | | |
| | B | 1 31/64 | 1 11/16 | 1 15/16 | 2 3/8 | 2 25/32 | 2 23/64 | 2 23/32 | 4 27/64 | 5 15/64 | | |
| | C | 53/64 | 1 | 1 3/16 | 1 15/32 | 1 25/32 | 2 7/32 | 2 35/64 | 3 1/16 | 3 9/16 | | |
| | D | 25/32 | 31/32 | 1 3/32 | 1 5/32 | 1 3/8 | 1 45/64 | 1 7/8 | 2 1/16 | 2 3/8 | | |
| | E | 7/16 | 7/16 | 7/16 | 9/16 | 9/16 | 9/16 | 9/16 | 1 1/16 | 7/8 | | |
| | F | .420 | .555 | .690 | .855 | 1.085 | 1.330 | 1.675 | 1.915 | 2.408 | | |
| WEIGHT PER UNION (pounds) | | .5 | .56 | .75 | 1.25 | 1.75 | 3 | 3.75 | 6.0 | 10.5 | | |

Rockwood Unions

TYPE 601

TYPE 602

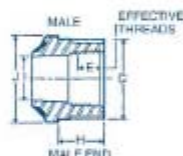
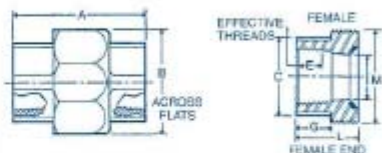
TYPE 602B

TYPE 604

- Ball to cone seats for smooth alignment.
- Can be cracked and rejoined repeatedly.
- Replaceable, interchangeable parts.
- Carbon Steel, coated to resist corrosion.
- Stays sealed, despite shock, vibration, expansion and rough wrenching.
- Silicon bronze and stainless steel seats double locked under 120,000 lb. psi.
- Conveniently packaged.
- Suitable for use with Schedule 40/80 pipe.
- 100% hydro tested.



* Preferred over bronze to carbon steel seated unions.



TYPE 601, 602, 604

DIMENSIONS (inches)

| NOMINAL PIPE SIZE | 1/2 14#PT | 1/2 16#PT | 3/4 16#PT | 1/2 14#PT | 3/4 16#PT | 1 1/2 15#PT | 1 1/2 15#PT | 1 1/2 15#PT | 1 1/2 15#PT | 1 1/2 15#PT |
|-------------------|-----------|-----------|-----------|-----------|-----------|-------------|-------------|-------------|-------------|-------------|
| A | 1 3/4 | 1 3/4 | 2 | 2 1/4 | 2 7/16 | 2 11/16 | 2 31/32 | 3 1/8 | 3 11/16 | |
| B | 1 1/4 | 1 1/4 | 1 7/16 | 1 21/32 | 2 | 2 3/8 | 2 3/4 | 3 | 3 23/32 | |
| C | 3/4 | 3/4 | 7/8 | 1 3/32 | 1 25/64 | 1 5/8 | 2 | 2 9/32 | 2 51/64 | |
| D | 51/64 | 51/64 | 15/16 | 1 11/64 | 1 7/16 | 1 23/32 | 2 3/32 | 2 11/32 | 2 7/8 | |
| E | 25/4 | 4/2 | 4/8 | 5/4 | 5/8 | 6/8 | 7/7 | 7/4 | 7/7 | |
| F | 3/4 | 3/4 | 13/16 | 1 | 1 1/16 | 1 3/32 | 1 19/64 | 1 21/64 | 1 15/32 | |
| G | 1/2 | 1/2 | 9/16 | 1 1/16 | 3/4 | 27/32 | 7/8 | 1 | 1 7/32 | |
| H | 19/32 | 19/32 | 3/4 | 25/32 | 29/32 | 1 1/16 | 1 5/32 | 1 7/32 | 1 7/16 | |
| I | 21/64 | 3/8 | 1/2 | 5/8 | 27/32 | 1 1/16 | 1 13/32 | 1 21/32 | 2 1/16 | |
| J | 29/32 | 29/32 | 1 1/16 | 1 5/16 | 1 37/64 | 1 13/16 | 2 1/4 | 2 1/2 | 3 1/16 | |
| K | 1/8 | 1/8 | 1/8 | 3/16 | 7/32 | 7/32 | 9/32 | 9/32 | 19/64 | |
| L | 7/8 | 7/8 | 15/16 | 1 1/8 | 1 3/16 | 1 5/16 | 1 7/16 | 1 1/2 | 1 25/32 | |
| M | 1.035 | 1.035 | 1.164 | 1.437 | 1.693 | 1.975 | 2.415 | 2.649 | 3.221 | |

STYLE NUT

Hex Hex Hex Hex Octagon Octagon Octagon Octagon Octagon

WEIGHT PER UNION (pounds)

.32 .30 .40 .72 1.10 1.5 2.2 2.6 4.6

TYPE 602B

DIMENSIONS (inches)

| NOMINAL PIPE SIZE | 1/2 14#PT | 1/2 16#PT | 3/4 16#PT | 1/2 14#PT | 3/4 16#PT | 1 1/2 12#PT | 1 1/2 11 1/2#PT | 1 1/2 11 1/2#PT | 1 1/2 12#PT |
|-------------------|-----------|-----------|-----------|-----------|-----------|-------------|-----------------|-----------------|-------------|
| DEPTH SOCKET | 7/16 | 7/16 | 7/16 | 1/2 | 1/2 | 9/16 | 9/16 | 9/16 | 1 1/16 |
| SOCKET DIAMETER | 420 | 555 | 590 | 855 | 1.065 | 1.330 | 1.675 | 1.915 | 2.406 |
| STYLE NUT | Hex | Hex | Hex | Hex | Octagon | Octagon | Octagon | Octagon | Octagon |

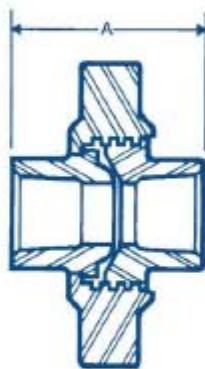
WEIGHT PER UNION (pounds)

.32 .30 .40 .72 1.10 1.5 2.2 2.6 4.6

LUG NUT UNIONS

CLASS 3000

CLASS 6000



Lug Nut Unions from Bonney Forge are unions with modified Stub-Acme threads ideal for applications requiring rapid assembly and/or breakdown.

- Threaded and socket weld ends.
- Seating characteristics of AAR unions.
- Twin lugs in sizes up to 3/4" Class 3000 and 1/2 Class 6000.
- Tri-lug design in sizes from 1" - 4" Class 3000 and 3/4" - 2" Class 6000.
- Plated Lug Nut.

| DIMENSIONS (inches) | CLASS 3000 | | CLASS 6000 | |
|---------------------|------------|--|------------|--|
| NOMINAL PIPE SIZE | A | | A | |
| 3/8 | 1.950 | | 2.065 | |
| 1/2 | 2.085 | | 2.375 | |
| 3/4 | 2.375 | | 2.580 | |
| 1 | 2.580 | | 2.950 | |
| 1 1/4 | 2.950 | | 3.115 | |
| 1 1/2 | 3.115 | | 3.575 | |
| 2 | 3.575 | | 4.200 | |
| 2 1/2 | 4.200 | | - | |
| 3 | 4.475 | | - | |
| 4 | 6.50 | | - | |