



**BUTT WELDING FITTINGS WEIGHT (Lbs)**

| STANDARD WEIGHT   |             |              |             |             |              |      |                     |            |      |       |         |
|-------------------|-------------|--------------|-------------|-------------|--------------|------|---------------------|------------|------|-------|---------|
| NOMINAL PIPE SIZE | 90 ELBOW    |              | 45 ELBOW    | 180 RETURN  |              | TEE  | LAP JOINT STUB ENDS |            | CAP  | CROSS | LATERAL |
|                   | LONG RADIUS | SHORT RADIUS | LONG RADIUS | LONG RADIUS | SHORT RADIUS |      | ASA LENGTH          | MSS LENGTH |      |       |         |
| 1/2"              | 0.18        | ...          | 0.09        | 0.35        | ...          | 0.35 | 0.3                 | 0.25       | 0.12 | ...   | ...     |
| 3/4"              | 0.19        | ...          | 0.09        | 0.4         | ...          | 0.45 | 0.4                 | 0.34       | 0.16 | 0.75  | 1.2     |
| 1"                | 0.4         | 0.25         | 0.25        | 0.75        | 0.5          | 0.75 | 0.68                | 0.43       | 0.2  | 1.2   | 1.71    |
| 1-1/4"            | 0.6         | 0.4          | 0.38        | 1.25        | 0.8          | 1.3  | 0.93                | 0.6        | 0.3  | 1.98  | 2.44    |
| 1-1/2"            | 0.9         | 0.56         | 0.4         | 1.88        | 1.13         | 2    | 1.14                | 0.75       | 0.4  | 2.78  | 3.27    |
| 2"                | 1.6         | 1            | 0.81        | 3.23        | 2            | 3.5  | 2.22                | 1.22       | 0.6  | 4.7   | 5.04    |
| 2-1/2"            | 3.25        | 2.13         | 1.75        | 6.5         | 4.25         | 6    | 3.51                | 1.82       | 0.9  | 7.35  | 9.23    |
| 3"                | 5           | 3            | 2.63        | 10.2        | 6            | 7    | 4.7                 | 2.49       | 1.5  | 8.45  | 12.6    |
| 3-1/2"            | 6.75        | 4.5          | 3.5         | 13          | 9            | 9    | 5.65                | 3.36       | 2    | 11.2  | 17.2    |
| 4"                | 9           | 6.25         | 4.5         | 18.5        | 12.5         | 12   | 6.81                | 4.12       | 2.5  | 16    | 20.8    |
| 5"                | 15.5        | 9.6          | 7.5         | 30          | 19           | 21   | 11.8                | 5.69       | 4.5  | 27.8  | 31.4    |
| 6"                | 24.4        | 18           | 12          | 50          | 35           | 34   | 15.3                | 8.28       | 6.5  | 43.1  | 42.4    |
| 8"                | 50          | 34           | 23          | 95          | 68           | 55   | 23.1                | 13.6       | 12   | 67.5  | 76.4    |
| 10"               | 88          | 58           | 43          | 177         | 115          | 85   | 39.9                | 23         | 20   | 103   | 124     |
| 12"               | 125         | 80           | 62          | 230         | 155          | 120  | 49.2                | 32.7       | 30   | 145   | 180     |
| 14"               | 160         | 105          | 80          | 235         | 210          | 165  | 63.8                | 37.6       | 36   | 198   | 218     |
| 16"               | 206         | 132          | 100         | 412         | 360          | 195  | 73.9                | 46.3       | 40   | 244   | 275     |
| 18"               | 260         | 167          | 126         | 510         | 330          | 249  | 85.2                | 64         | 54   | 299   | 326     |
| 20"               | 320         | 210          | 160         | 640         | 410          | 342  | 94.7                | 74.2       | 75   | 414   | 396     |
| 24"               | 460         | 298          | 238         | 890         | 590          | 528  | 116                 | 116        | 96   | 636   | 544     |
| 30"               | 734         | 464          | 367         | 1465        | 930          | ...  | ...                 | ...        | ...  | ...   | ...     |
| 36"               | 1062        | 671          | 531         | 2121        | 1342         | ...  | ...                 | ...        | ...  | ...   | ...     |

| EXTRA STRONG      |             |              |             |             |              |      |                     |            |      |       |         |
|-------------------|-------------|--------------|-------------|-------------|--------------|------|---------------------|------------|------|-------|---------|
| NOMINAL PIPE SIZE | 90 ELBOW    |              | 45 ELBOW    | 180 RETURN  |              | TEE  | LAP JOINT STUB ENDS |            | CAP  | CROSS | LATERAL |
|                   | LONG RADIUS | SHORT RADIUS | LONG RADIUS | LONG RADIUS | SHORT RADIUS |      | ASA LENGTH          | MSS LENGTH |      |       |         |
| 1/2"              | 0.25        | ...          | 0.19        | 0.65        | ...          | 0.45 | 0.38                | 0.15       | ...  | ...   | ...     |
| 3/4"              | 0.25        | ...          | 0.19        | 0.65        | ...          | 0.6  | 0.51                | 0.2        | ...  | ...   | ...     |
| 1"                | 0.5         | 0.41         | 0.31        | 1           | 0.74         | 0.88 | 0.87                | 0.3        | 1.45 | 2.52  | ...     |
| 1-1/4"            | 0.9         | 0.63         | 0.5         | 1.75        | 1.1          | 1.6  | 1.24                | 0.4        | 2.7  | 3.86  | ...     |
| 1-1/2"            | 1.15        | 0.75         | 0.69        | 2.39        | 1.5          | 2.25 | 1.51                | 0.5        | 3.74 | 5.44  | ...     |
| 2"                | 2.2         | 1.5          | 1.19        | 4.4         | 3            | 4    | 3.1                 | 0.75       | 5.5  | 7.76  | ...     |
| 2-1/2"            | 4           | 2.8          | 2.13        | 8           | 5.6          | 7    | 4.64                | 1          | 8.37 | 13.5  | ...     |
| 3"                | 6.5         | 4.25         | 3.5         | 13          | 8.5          | 8.5  | 6.36                | 1.75       | 10.9 | 18.8  | ...     |
| 3-1/2"            | 8.35        | 6            | 4.5         | 16.7        | 12           | 12   | 7.71                | 2.5        | 15.3 | 25.6  | ...     |
| 4"                | 13.5        | 8.5          | 6.1         | 25          | 17           | 15.7 | 9.37                | 3          | 19.1 | 32.8  | ...     |
| 5"                | 22          | 14           | 10.7        | 44          | 28           | 26   | 16.7                | 5.5        | 33.2 | 49.8  | ...     |
| 6"                | 35          | 23           | 17.5        | 70          | 46           | 40   | 23                  | 9          | 50.8 | 79.4  | ...     |
| 8"                | 71          | 47.5         | 35          | 142         | 100          | 75   | 34.9                | 16         | 92.5 | 140   | ...     |
| 10"               | 107         | 70           | 53          | 215         | 140          | 105  | 53.6                | 25         | 138  | 202   | ...     |
| 12"               | 160         | 104          | 84          | 320         | 218          | 160  | 64.7                | 36         | 224  | 273   | ...     |
| 14"               | 205         | 140          | 100         | 400         | 275          | 240  | 84                  | 45         | 289  | 340   | ...     |
| 16"               | 276         | 174          | 135         | 550         | 340          | 280  | 97.4                | 54         | 338  | 433   | ...     |
| 18"               | 340         | 219          | 167         | 690         | 430          | 332  | 112                 | 72         | 397  | 526   | ...     |
| 20"               | 420         | 275          | 206         | 830         | 550          | 480  | 126                 | 86         | 578  | 628   | ...     |
| 24"               | 600         | 392          | 300         | 1200        | 780          | 610  | 152                 | 130        | 728  | 882   | ...     |
| 30"               | 975         | 618          | 488         | 1950        | 1235         | ...  | ...                 | ...        | ...  | ...   | ...     |
| 36"               | 1412        | 904          | 706         | 2824        | 1808         | ...  | ...                 | ...        | ...  | ...   | ...     |



| STANDARD WEIGHT   |              |                |                        |
|-------------------|--------------|----------------|------------------------|
| NOMINAL PIPE SIZE | REDUCING TEE | REDUCING CROSS | CONCENTRIC & ECCENTRIC |
| 3/4 X 1/2         | 0.5          | 0.63           | 0.17                   |
| 1 x 1/2           | 0.88         | 1.06           | 0.4                    |
| 1 x 3/4           | 0.93         | 1.12           | 0.4                    |
| 1-1/4 x 1/2       | 1.5          | 1.8            | 0.4                    |
| 1-1/4 x 3/4       | 1.5          | 1.83           | 0.4                    |
| 1-1/4 x 1/2       | 1.5          | 1.87           | 0.5                    |
| 1-1/2 x 1/2       | 2            | 2.4            | 0.5                    |
| 1-1/2 x 3/4       | 2.13         | 2.58           | 0.54                   |
| 1-1/2 x 1         | 2.18         | 2.62           | 0.62                   |
| 1-1/2 x 1-1/4     | 2.25         | 2.7            | 0.7                    |
| 2 x 3/4           | 3.25         | 3.9            | 0.7                    |
| 2 x 1             | 3.5          | 4.2            | 0.76                   |
| 2 x 1-1/4         | 3.6          | 4.32           | 0.84                   |
| 2 x 1-1/2         | 3.75         | 4.5            | 0.9                    |
| 2-1/2 x 1         | 5            | 6              | 1.25                   |
| 2-1/2 x 1-1/4     | 5.25         | 6.3            | 1.25                   |
| 2-1/2 x 1-1/2     | 5.5          | 6.6            | 1.38                   |
| 2-1/2 x 2         | 6            | 7.2            | 1.5                    |
| 3 x 1-1/4         | 6.25         | 7.5            | 1.6                    |
| 3 x 1-1/2         | 6.25         | 7.58           | 1.7                    |
| 3 x 2             | 6.5          | 7.8            | 1.8                    |
| 3 x 2-1/2         | 6.75         | 8              | 2                      |
| 3-1/2 x 1-1/2     | 8            | 9.5            | 2.5                    |
| 3-1/2 x 2         | 8.3          | 9.95           | 2.75                   |

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| NOMINAL PIPE SIZE | REDUCING TEE | REDUCING CROSS | CONCENTRIC & ECCENTRIC |
| 3 1/2 x 2 1/2     | 8.5          | 10.2           | 2.88                   |
| 3-1/2 x 3         | 8.8          | 10.5           | 3.15                   |
| 4 x 1 1/2         | 11.1         | 13.3           | 2.88                   |
| 4 x 2             | 11.2         | 13.5           | 3                      |
| 4 x 2 1/2         | 11.3         | 13.6           | 3.25                   |
| 4 x 3             | 11.6         | 13.9           | 3.38                   |
| 4 x 3 1/2         | 11.8         | 14.1           | 3.5                    |
| 5 x 2             | 19           | 22.8           | 5                      |
| 5 x 2 1/2         | 19.5         | 23.1           | 5.25                   |
| 5 x 3             | 20           | 24             | 5.5                    |
| 5 x 3 1/2         | 20.5         | 24.6           | 5.75                   |
| 5 x 4             | 21           | 25.2           | 6                      |
| 6 x 2 1/2         | 32           | 38.4           | 7.25                   |
| 6 x 3             | 32.5         | 39             | 8                      |
| 6 x 3 1/2         | 33           | 39.6           | 8.25                   |
| 6 x 4             | 33.5         | 40.3           | 8.25                   |
| 6 x 5             | 34.5         | 41.5           | 8.5                    |
| 8 x 3 1/2         | 50.7         | 60.8           | 11                     |
| 8 x 4             | 51.7         | 62.2           | 11                     |
| 8 x 5             | 53           | 63.6           | 12                     |
| 8 x 6             | 54           | 64.6           | 13.2                   |
| 10 x 4            | 80           | 96             | 20                     |
| 10 x 5            | 81           | 97.2           | 21                     |
| 10 x 6            | 83           | 99.5           | 21.5                   |
| 10 x 8            | 84.5         | 100            | 22                     |

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|------------------|--------------|----------------|------------------------|
| NORMAL PIPE SIZE | REDUCING TEE | REDUCING CROSS | CONCENTRIC & ECCENTRIC |
| 12x 5            | 110          | 132            | 30                     |
| 12 x 6           | 114          | 133            | 30                     |
| 12 x 8           | 117          | 140            | 32                     |
| 12 x 10          | 119          | 142            | 34                     |
| 14 x 8           | 155          | 186            | 58.5                   |
| 14 x 10          | 158          | 189            | 59.2                   |
| 14 x 12          | 160          | 192            | 60                     |
| 16 x 8           | 180          | 216            | 68.5                   |
| 16 x 10          | 186          | 223            | 69.5                   |
| 16 x 12          | 191          | 229            | 70                     |
| 16 x 14          | 194          | 235            | 71                     |
| 18 x 10          | 222          | 266            | 82                     |
| 18 x 12          | 230          | 276            | 83                     |
| 18 x 14          | 236          | 283            | 84                     |
| 18 x 16          | 241          | 289            | 85                     |
| 20 x 10          | 332          | 398            | 117                    |
| 20 x 12          | 334          | 401            | 120                    |
| 20 x 14          | 336          | 403            | 122                    |
| 20 x 16          | 338          | 405            | 124                    |
| 20 x 18          | 340          | 408            | 125                    |
| 24 x 12          | 510          | 612            | 139                    |
| 24 x 14          | 513          | 616            | 141                    |
| 24 x 16          | 516          | 619            | 145                    |
| 24 x 18          | 519          | 624            | 148                    |
| 24 x 20          | 522          | 6.27           | 150                    |

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| NOMINAL PIPE SIZE   | REDUCING TEE | REDUCING CROSS | CONCENTRIC & ECCENTRIC |
| 3/4 X 1/2           | 0.5          | 0.72           | 0.22                   |
| 1 x 1/2             | 1            | 1.24           | 0.45                   |
| 1 x 3/4             | 1            | 1.3            | 0.45                   |
| 1-1/4 x 1/2         | 1.75         | 2.1            | 0.5                    |
| 1-1/4 x 3/4         | 1.75         | 2.18           | 0.5                    |
| 1-1/4 x 1/2         | 1.75         | 2.4            | 0.5                    |
| 1-1/2 x 1/2         | 2.5          | 3              | 0.65                   |
| 1-1/2 x 3/4         | 2.5          | 3.11           | 0.7                    |
| 1-1/2 x 1           | 2.5          | 3.25           | 0.75                   |
| 1-1/2 x 1-1/4       | 2.5          | 3.51           | 0.78                   |
| 2 x 3/4             | 4            | 4.8            | 1                      |
| 2 x 1               | 4.1          | 4.92           | 1.1                    |
| 2 x 1-1/4           | 4.13         | 4.96           | 1.15                   |
| 2 x 1-1/2           | 4.25         | 5.1            | 1.2                    |
| 2-1/2 x 1           | 7            | 8.4            | 1.75                   |
| 2-1/2 x 1-1/4       | 7.06         | 8.48           | 1.85                   |
| 2-1/2 x 1-1/2       | 7.13         | 8.55           | 1.9                    |
| 2-1/2 x 2           | 7.19         | 8.64           | 2                      |
| 3 x 1-1/4           | 7.6          | 9.12           | 2.4                    |
| 3 x 1-1/2           | 7.68         | 9.25           | 2.5                    |
| 3 x 2               | 8            | 9.6            | 2.6                    |
| 3 x 2-1/2           | 8.25         | 9.9            | 2.75                   |
| 3-1/2 x 1-1/2       | 11.5         | 12.7           | 3.25                   |
| 3-1/2 x 2           | 11.8         | 14.1           | 3.5                    |

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| 3 1/2 x 2 1/2       | 12.2         | 14.6           | 3.5                    |
| 3-1/2 x 3           | 12.6         | 15.1           | 4                      |
| 4 x 1 1/2           | 15.2         | 18.3           | 4                      |
| 4 x 2               | 15.5         | 18.6           | 4.25                   |
| 4 x 2 1/2           | 15.5         | 18.6           | 4.38                   |
| 4 x 3               | 15.6         | 18.7           | 4.5                    |
| 4 x 3 1/2           | 15.6         | 18.8           | 4.75                   |
| 5 x 2               | 23.5         | 28.2           | 6.5                    |
| 5 x 2 1/2           | 24           | 28.2           | 7                      |
| 5 x 3               | 24.5         | 29.4           | 7.5                    |
| 5 x 3 1/2           | 25           | 30             | 7.75                   |
| 5 x 4               | 25.5         | 30.6           | 8.25                   |
| 6 x 2 1/2           | 36           | 43.2           | 10                     |
| 6 x 3               | 37           | 44.4           | 10.5                   |
| 6 x 3 1/2           | 38.2         | 45.9           | 11                     |
| 6 x 4               | 39.2         | 47.1           | 11.5                   |
| 6 x 5               | 40           | 48.1           | 12                     |
| 8 x 3 1/2           | 70.5         | 84.6           | 16.5                   |
| 8 x 4               | 71.7         | 86.1           | 17                     |
| 8 x 5               | 73           | 87.6           | 18                     |
| 8 x 6               | 74           | 88.8           | 18.7                   |
| 10 x 4              | 104          | 124            | 25.5                   |
| 10 x 5              | 106          | 127            | 28                     |
| 10 x 6              | 108          | 129            | 29.5                   |
| 10 x 8              | 109          | 130            | 29.5                   |

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| NORMAL PIPE SIZE    | REDUCING TEE | REDUCING CROSS | CONCENTRIC & ECCENTRIC |
| 12x 5               | 160          | 192            | 39                     |
| 12 x 6              | 165          | 198            | 40                     |
| 12 x 8              | 175          | 210            | 42                     |
| 12 x 10             | 181          | 221            | 43.5                   |
| 14 x 8              | 225          | 270            | 78.5                   |
| 14 x 10             | 233          | 279            | 79.2                   |
| 14 x 12             | 237          | 284            | 80                     |
| 16 x 8              | 260          | 312            | 88.5                   |
| 16 x 10             | 266          | 319            | 89.5                   |
| 16 x 12             | 270          | 324            | 90                     |
| 16 x 14             | 275          | 330            | 91                     |
| 18 x 10             | 296          | 355            | 112                    |
| 18 x 12             | 307          | 365            | 113                    |
| 18 x 14             | 315          | 378            | 114                    |
| 18 x 16             | 321          | 385            | 115                    |
| 20 x 10             | 466          | 559            | 164                    |
| 20 x 12             | 469          | 564            | 167                    |
| 20 x 14             | 472          | 567            | 168                    |
| 20 x 16             | 475          | 571            | 169                    |
| 20 x 18             | 477          | 574            | 170                    |
| 24 x 12             | 592          | 711            | 179                    |
| 24 x 14             | 595          | 714            | 185                    |
| 24 x 16             | 598          | 717            | 190                    |
| 24 x 18             | 601          | 722            | 195                    |
| 24 x 20             | 604          | 725            | 200                    |