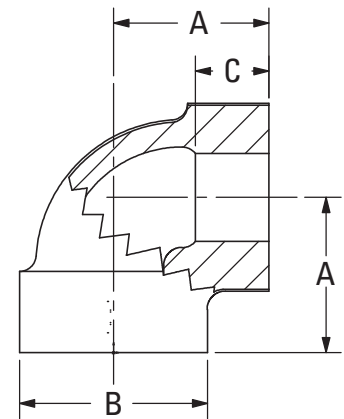


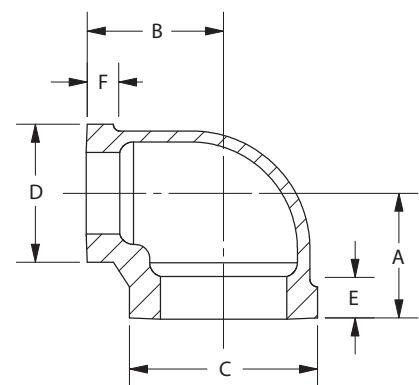
## MALLEABLE IRON 90° STRAIGHT ELL CLASS 150

| NPS   | Center to End A | Outside Dia. of Band B (min) | Length of Threads C (min) | Take Out |
|-------|-----------------|------------------------------|---------------------------|----------|
| 1/8   | 0.69            | 0.69                         | 0.25                      | 0.42     |
| 1/4   | 0.81            | 0.84                         | 0.32                      | 0.40     |
| 3/8   | 0.95            | 1.01                         | 0.36                      | 0.54     |
| 1/2   | 1.12            | 1.20                         | 0.43                      | 0.58     |
| 3/4   | 1.31            | 1.46                         | 0.50                      | 0.76     |
| 1     | 1.50            | 1.77                         | 0.58                      | 0.81     |
| 1 1/4 | 1.75            | 2.15                         | 0.67                      | 1.04     |
| 1 1/2 | 1.94            | 2.43                         | 0.70                      | 1.21     |
| 2     | 2.25            | 2.96                         | 0.75                      | 1.49     |
| 2 1/2 | 2.70            | 3.59                         | 0.92                      | 1.56     |
| 3     | 3.08            | 4.28                         | 0.98                      | 1.88     |
| 3 1/2 | —               | —                            | —                         | —        |
| 4     | 3.79            | 5.40                         | 1.08                      | 2.49     |
| 5     | —               | —                            | —                         | —        |
| 6     | 5.13            | 7.77                         | 1.28                      | 3.61     |



## MALLEABLE IRON REDUCING 90° ELL CLASS 150

| NPS           | Center to End A | Center to End B | Outside Dia. of Band C (min) | Outside Dia. of Band D (min) | Length of Threads E (min) | Length of Threads F (min) | Take Out | Take Out |
|---------------|-----------------|-----------------|------------------------------|------------------------------|---------------------------|---------------------------|----------|----------|
| 1/4 x 1/8     | 0.74            | 0.76            | 0.84                         | 0.69                         | 0.32                      | 0.25                      | 0.33     | 0.49     |
| 3/8 x 1/4     | 0.88            | 0.90            | 1.01                         | 0.84                         | 0.36                      | 0.32                      | 0.47     | 0.49     |
| 3/8 x 1/8     | —               | —               | —                            | —                            | —                         | —                         | —        | —        |
| 1/2 x 3/8     | 1.04            | 1.03            | 1.20                         | 1.01                         | 0.43                      | 0.36                      | 0.50     | 0.62     |
| 1/2 x 1/4     | 0.97            | 0.98            | 1.20                         | 0.84                         | 0.43                      | 0.32                      | 0.43     | 0.57     |
| 3/4 x 1/2     | 1.20            | 1.22            | 1.46                         | 1.20                         | 0.50                      | 0.43                      | 0.65     | 0.68     |
| 3/4 x 3/8     | 1.12            | 1.13            | 1.46                         | 1.01                         | 0.50                      | 0.36                      | 0.57     | 0.72     |
| 3/4 x 1/4     | —               | —               | —                            | —                            | —                         | —                         | —        | —        |
| 1 x 3/4       | 1.37            | 1.45            | 1.77                         | 1.46                         | 0.58                      | 0.50                      | 0.68     | 0.90     |
| 1 x 1/2       | 1.26            | 1.36            | 1.77                         | 1.20                         | 0.58                      | 0.43                      | 0.57     | 0.82     |
| 1 x 3/8       | 1.18            | 1.27            | 1.77                         | 1.01                         | 0.58                      | 0.36                      | 0.49     | 0.86     |
| 1 1/4 x 1     | 1.58            | 1.67            | 2.15                         | 1.77                         | 0.67                      | 0.58                      | 0.87     | 0.98     |
| 1 1/4 x 3/4   | 1.45            | 1.62            | 2.15                         | 1.46                         | 0.67                      | 0.50                      | 0.74     | 1.07     |
| 1 1/4 x 1/2   | 1.34            | 1.53            | 2.15                         | 1.20                         | 0.67                      | 0.43                      | 0.63     | 0.99     |
| 1 1/2 x 1 1/4 | 1.82            | 1.88            | 2.43                         | 2.15                         | 0.70                      | 0.67                      | 1.09     | 1.47     |
| 1 1/2 x 1     | 1.65            | 1.80            | 2.43                         | 1.77                         | 0.70                      | 0.58                      | 0.92     | 1.11     |
| 1 1/2 x 3/4   | 1.52            | 1.75            | 2.43                         | 1.46                         | 0.70                      | 0.50                      | 0.79     | 1.20     |
| *1 1/2 x 1/2  | 1.41            | 1.66            | 2.43                         | 1.20                         | 0.70                      | 0.43                      | 0.68     | 1.12     |
| 2 x 1 1/2     | 2.02            | 2.16            | 2.96                         | 2.43                         | 0.75                      | 0.70                      | 1.26     | 1.626    |
| 2 x 1 1/4     | 1.90            | 2.10            | 2.96                         | 2.15                         | 0.75                      | 0.67                      | 1.14     | 1.69     |
| 2 x 1         | 1.73            | 2.02            | 2.96                         | 1.77                         | 0.75                      | 0.58                      | 0.97     | 1.33     |
| 2 x 3/4       | 1.60            | 1.97            | 2.96                         | 1.46                         | 0.75                      | 0.50                      | 0.84     | 1.42     |
| *2 x 1/2      | 1.49            | 1.88            | 2.96                         | 1.20                         | 0.75                      | 0.43                      | 0.73     | 1.34     |
| 2 1/2 x 2     | 2.39            | 2.60            | 3.59                         | 2.96                         | 0.92                      | 0.75                      | 1.25     | 1.84     |
| 2 1/2 x 1 1/2 | 2.16            | 2.51            | 3.59                         | 2.43                         | 0.92                      | 0.70                      | 1.02     | 1.78     |
| 3 x 2 1/2     | —               | —               | —                            | —                            | —                         | —                         | —        | —        |
| 3 x 2         | 2.52            | 2.89            | 4.28                         | 2.96                         | 0.98                      | 0.75                      | 1.32     | 2.13     |
| 4 x 3         | 3.30            | 3.60            | 5.40                         | 4.28                         | 1.08                      | 0.98                      | 2.00     | 2.40     |



\* Manufactured to WARD specifications