

SECTION 6 STANDARD CAST IRON PIPE FITTINGS CLASS 125, 250



The iron from which Class 125 cast iron fittings are made is held to strict formula by careful chemical analysis and control.

Tapping is done on the most modern machines. All tappings are to USA Standards for iron pipe threads. Straightness and correct depth of threads is assured through continuous capable inspection, by careful trained inspectors.

Every fitting is hand sorted and inspected to eliminate defective castings.

WARD fittings are made to specifications published as American National Standards for pipe fittings.

A chamfer is cut or cast in all openings, permitting easy entrance of pipe and preventing damage to the first thread in handling and threading.

Because of the close attention paid to formula control and the use of modern precision equipment we are able to produce castings of rugged strength and the ability to make a water tight seal.

| NPS | O.D. of Band (min) | Thread Length (min) | Metal Thickness (min) |
|-------|--------------------|---------------------|-----------------------|
| 1/4 | 0.97 | 0.36 | 0.11 |
| 3/8 | 1.16 | 0.40 | 0.12 |
| 1/2 | 1.38 | 0.47 | 0.13 |
| 3/4 | 1.67 | 0.54 | 0.15 |
| 1 | 1.99 | 0.62 | 0.17 |
| 1 1/4 | 2.43 | 0.71 | 0.18 |
| 1 1/2 | 2.72 | 0.74 | 0.20 |
| 2 | 3.32 | 0.79 | 0.22 |
| 2 1/2 | 3.90 | 0.96 | 0.24 |
| 3 | 4.66 | 1.02 | 0.26 |
| 3 1/2 | 5.24 | 1.07 | 0.28 |
| 4 | 5.83 | 1.12 | 0.31 |

TEMPERATURE-PRESSURE RATING

| Temp F° | PSI | |
|------------|-------------|--------------|
| | CLASS 125 | CLASS 250 |
| -20 TO 150 | 175 | 400 |
| 200 | 165 | 370 |
| 250 | 150 | 340 |
| 300 | 140 | 310 |
| 350 | 125 (Note1) | 300 |
| 400 | — | 250 (Note 2) |

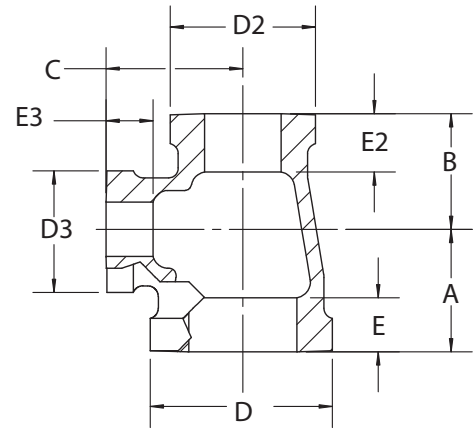
Notes:

1) Permissible for service temperature up to 360° F reflecting temperature of saturated steam at 125 psi.

2) Permissible for service temperature up to 406° F reflecting temperature of saturated steam at 250 psig.

| | |
|-----------------------------------|--|
| Material: | ASTM A126 Class A Minimum |
| Dimensions: | ANSI/ASME B16.4 ANSI/ASME B1.20.1 |
| Pressure Ratings: | ANSI/ASME B16.4 |
| Coatings: | ASTM A153 ASTM B633 |
| Additional Specifications: | UL, ULC, FM, NSF 61 and NSF 61 Annex G where applicable |

CAST IRON REDUCING TEES CLASS 125



| NPS | Center to End A | Center to End B | Center to End C | Outside Dia. of Band D (min) | Outside Dia. of Band D2 (min) | Outside Dia. of Band D3 (min) | Length of Threads E (min) | Length of Threads E2 (min) | Length of Threads E3 (min) | Take Out | Take Out | Take Out |
|---------------------|-----------------|-----------------|-----------------|------------------------------|-------------------------------|-------------------------------|---------------------------|----------------------------|----------------------------|----------|----------|----------|
| 1/2 x 1/2 x 3/8 | 1.04 | 1.04 | 1.03 | 1.34 | 1.34 | 1.12 | 0.43 | 0.43 | 0.36 | 0.50 | 0.50 | 0.62 |
| 1/2 x 1/2 x 1/4 | — | — | — | — | — | — | — | — | — | — | — | — |
| *1/2 x 3/8 x 1/2 | 1.12 | 1.12 | 1.12 | 1.34 | 1.12 | 1.34 | 0.43 | 0.36 | 0.43 | 0.58 | 0.71 | 0.58 |
| *1/2 x 3/8 x 3/8 | 1.12 | 1.12 | 1.12 | 1.34 | 1.12 | 1.12 | 0.43 | 0.36 | 0.36 | 0.58 | 0.71 | 0.71 |
| *3/8 x 3/8 x 1/2 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.34 | 0.36 | 0.36 | 0.43 | 0.71 | 0.71 | 0.58 |
| 3/4 x 3/4 x 1/2 | 1.20 | 1.20 | 1.22 | 1.63 | 1.63 | 1.34 | 0.50 | 0.50 | 0.43 | 0.65 | 0.65 | 0.68 |
| 3/4 x 3/4 x 3/8 | 1.12 | 1.12 | 1.13 | 1.63 | 1.63 | 1.12 | 0.50 | 0.50 | 0.36 | 0.57 | 0.57 | 0.72 |
| 3/4 x 3/4 x 1/4 | — | — | — | — | — | — | — | — | — | — | — | — |
| 3/4 x 1/2 x 3/4 | 1.31 | 1.22 | 1.31 | 1.63 | 1.34 | 1.63 | 0.50 | 0.43 | 0.50 | 0.76 | 0.68 | 0.76 |
| 3/4 x 1/2 x 1/2 | 1.20 | 1.12 | 1.22 | 1.63 | 1.34 | 1.34 | 0.50 | 0.43 | 0.43 | 0.65 | 0.58 | 0.68 |
| 1/2 x 1/2 x 3/4 | 1.22 | 1.22 | 1.20 | 1.340 | 1.340 | 1.630 | 0.430 | 0.430 | 0.500 | 0.68 | 0.68 | 0.65 |
| 1 x 1 x 3/4 | 1.37 | 1.37 | 1.45 | 1.95 | 1.95 | 1.63 | 0.58 | 0.58 | 0.50 | 0.68 | 0.68 | 0.90 |
| 1 x 1 x 1/2 | 1.26 | 1.26 | 1.36 | 1.95 | 1.95 | 1.34 | 0.58 | 0.58 | 0.43 | 0.57 | 0.57 | 0.82 |
| 1 x 1 x 3/8 | 1.18 | 1.18 | 1.27 | 1.95 | 1.95 | 1.12 | 0.58 | 0.58 | 0.36 | 0.49 | 0.49 | 0.86 |
| 1 x 1 x 1/4 | — | — | — | — | — | — | — | — | — | — | — | — |
| 1 x 3/4 x 1 | 1.50 | 1.45 | 1.50 | 1.95 | 1.63 | 1.95 | 0.58 | 0.50 | 0.58 | 0.81 | 0.90 | 0.81 |
| 1 x 3/4 x 3/4 | 1.37 | 1.31 | 1.45 | 1.95 | 1.63 | 1.63 | 0.58 | 0.50 | 0.50 | 0.68 | 0.76 | 0.90 |
| 1 x 3/4 x 1/2 | 1.26 | 1.20 | 1.36 | 1.95 | 1.63 | 1.34 | 0.58 | 0.50 | 0.43 | 0.57 | 0.65 | 0.82 |
| 1 x 1/2 x 1 | 1.50 | 1.36 | 1.50 | 1.95 | 1.34 | 1.95 | 0.58 | 0.43 | 0.58 | 0.81 | 0.82 | 0.81 |
| 1 x 1/2 x 3/4 | 1.37 | 1.22 | 1.45 | 1.95 | 1.34 | 1.63 | 0.58 | 0.43 | 0.50 | 0.68 | 0.68 | 0.90 |
| 1 x 1/2 x 1/2 | — | — | — | — | — | — | — | — | — | — | — | — |
| 1 x 3/8 x 1 | 1.50 | 1.27 | 1.50 | 1.95 | 1.12 | 1.95 | 0.58 | 0.36 | 0.58 | 0.81 | 0.86 | 0.81 |
| *1 x 1/4 x 1 | 1.50 | 1.20 | 1.50 | 1.95 | 0.93 | 1.95 | 0.58 | 0.32 | 0.58 | 0.81 | 0.79 | 0.81 |
| 3/4 x 3/4 x 1 | 1.45 | 1.45 | 1.37 | 1.63 | 1.63 | 1.95 | 0.50 | 0.50 | 0.58 | 0.90 | 0.90 | 0.68 |
| *3/4 x 1/2 x 1 | 1.45 | 1.45 | 1.37 | 1.63 | 1.34 | 1.95 | 0.50 | 0.43 | 0.58 | 0.90 | 0.91 | 0.68 |
| 1/2 x 1/2 x 1 | — | — | — | — | — | — | — | — | — | — | — | — |
| 1 1/4 x 1 1/4 x 1 | 1.58 | 1.58 | 1.67 | 2.39 | 2.39 | 1.95 | 0.67 | 0.67 | 0.58 | 0.87 | 0.87 | 0.98 |
| 1 1/4 x 1 1/4 x 3/4 | 1.45 | 1.45 | 1.62 | 2.39 | 2.39 | 1.63 | 0.67 | 0.67 | 0.50 | 0.74 | 0.74 | 1.07 |
| 1 1/4 x 1 1/4 x 1/2 | 1.34 | 1.34 | 1.53 | 2.39 | 2.39 | 1.34 | 0.67 | 0.67 | 0.43 | 0.63 | 0.63 | 0.99 |
| 1 1/4 x 1 1/4 x 1/8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 1/4 x 1 x 1 1/4 | 1.75 | 1.67 | 1.75 | 2.39 | 1.95 | 2.39 | 0.67 | 0.58 | 0.67 | 1.04 | 0.98 | 1.04 |
| 1 1/4 x 1 x 1 | 1.58 | 1.50 | 1.67 | 2.39 | 1.95 | 1.95 | 0.67 | 0.58 | 0.58 | 0.87 | 0.81 | 0.98 |
| 1 1/4 x 1 x 3/4 | 1.45 | 1.37 | 1.62 | 2.39 | 1.95 | 1.63 | 0.67 | 0.58 | 0.50 | 0.74 | 0.68 | 1.07 |

* Manufactured to WARD specifications

CAST IRON REDUCING TEE CLASS 125

| NPS | Center to End A | Center to End B | Center to End C | Outside Dia. of Band D (min) | Outside Dia. of Band D2 (min) | Outside Dia. of Band D3 (min) | Length of Threads E (min) | Length of Threads E2 (min) | Length of Threads E3 (min) | Take Out | Take Out | Take Out |
|-----------------------|-----------------|-----------------|-----------------|------------------------------|-------------------------------|-------------------------------|---------------------------|----------------------------|----------------------------|----------|----------|----------|
| 1 1/4 x 1 x 1/2 | 1.34 | 1.26 | 1.53 | 2.39 | 1.95 | 1.34 | 0.67 | 0.58 | 0.43 | 0.63 | 0.57 | 0.99 |
| 1 1/4 x 3/4 x 1 1/4 | 1.75 | 1.62 | 1.75 | 2.39 | 1.63 | 2.39 | 0.67 | 0.50 | 0.67 | 1.04 | 1.07 | 1.04 |
| 1 1/4 x 3/4 x 1 | 1.58 | 1.45 | 1.67 | 2.39 | 1.63 | 1.95 | 0.67 | 0.50 | 0.58 | 0.87 | 0.90 | 0.98 |
| 1 1/4 x 3/4 x 3/4 | 1.45 | 1.31 | 1.62 | 2.39 | 1.63 | 1.63 | 0.67 | 0.50 | 0.50 | 0.74 | 0.76 | 1.07 |
| *1 1/4 x 3/4 x 1/2 | 1.45 | 1.31 | 1.62 | 2.39 | 1.63 | 1.34 | 0.67 | 0.50 | 0.43 | 0.74 | 0.76 | 1.08 |
| 1 1/4 x 1/2 x 1 1/4 | 1.75 | 1.53 | 1.75 | 2.39 | 1.34 | 2.39 | 0.67 | 0.43 | 0.67 | 1.04 | 0.99 | 1.04 |
| 1 1/4 x 1/2 x 1 | 1.58 | 1.36 | 1.67 | 2.39 | 1.34 | 1.95 | 0.67 | 0.43 | 0.58 | 0.87 | 0.82 | 0.98 |
| *1 1/4 x 1/2 x 3/4 | 1.45 | 1.31 | 1.62 | 2.39 | 1.34 | 1.63 | 0.67 | 0.43 | 0.50 | 0.74 | 0.77 | 1.07 |
| *1 1/4 x 1/2 x 1/2 | 1.34 | 1.12 | 1.53 | 2.39 | 1.34 | 1.34 | 0.67 | 0.43 | 0.43 | 0.63 | 0.58 | 0.99 |
| *1 1/4 x 1/2 x 3/8 | 1.58 | 1.45 | 1.45 | 2.39 | 1.34 | 1.12 | 0.67 | 0.43 | 0.36 | 0.87 | 0.91 | 1.04 |
| *1 1/4 x 1/4 x 1 1/4 | 1.75 | 1.53 | 1.75 | 2.39 | 0.93 | 2.39 | 0.67 | 0.32 | 0.67 | 1.04 | 1.12 | 1.04 |
| *1 1/4 x 1/8 x 1 1/4 | 1.75 | 1.53 | 1.75 | 2.39 | 0.81 | 2.39 | 0.67 | 0.32 | 0.67 | 1.04 | 1.26 | 1.04 |
| 1 x 1 x 1 1/4 | 1.67 | 1.67 | 1.58 | 1.95 | 1.95 | 2.39 | 0.58 | 0.58 | 0.67 | 0.98 | 0.98 | 0.87 |
| *1 x 3/4 x 1 1/4 | 1.75 | 1.62 | 1.75 | 1.95 | 1.63 | 2.39 | 0.58 | 0.50 | 0.67 | 1.06 | 1.07 | 1.04 |
| *1 x 1/2 x 1 1/4 | 1.75 | 1.53 | 1.75 | 1.95 | 1.34 | 2.39 | 0.58 | 0.43 | 0.67 | 1.06 | 0.99 | 1.04 |
| 1 1/2 x 1 1/2 x 1 1/4 | 1.82 | 1.82 | 1.88 | 2.68 | 2.68 | 2.39 | 0.70 | 0.70 | 0.67 | 1.09 | 1.09 | 1.17 |
| 1 1/2 x 1 1/2 x 1 | 1.65 | 1.65 | 1.80 | 2.68 | 2.68 | 1.95 | 0.70 | 0.70 | 0.58 | 0.92 | 0.92 | 1.11 |
| 1 1/2 x 1 1/2 x 3/4 | 1.52 | 1.52 | 1.75 | 2.68 | 2.68 | 1.63 | 0.70 | 0.70 | 0.50 | 0.79 | 0.79 | 1.20 |
| 1 1/2 x 1 1/2 x 1/2 | 1.41 | 1.41 | 1.66 | 2.68 | 2.68 | 1.34 | 0.70 | 0.70 | 0.43 | 0.68 | 0.68 | 1.12 |
| 1 1/2 x 1 1/2 x 3/8 | 1.41 | 1.41 | 1.66 | 2.68 | 2.68 | 1.12 | 0.70 | 0.70 | 0.36 | 0.68 | 0.68 | 1.25 |
| 1 1/2 x 1 1/4 x 1 1/2 | 1.94 | 1.88 | 1.94 | 2.68 | 2.39 | 2.68 | 0.70 | 0.67 | 0.70 | 1.21 | 1.17 | 1.21 |
| 1 1/2 x 1 1/4 x 1 1/4 | 1.82 | 1.75 | 1.88 | 2.68 | 2.39 | 2.39 | 0.70 | 0.67 | 0.67 | 1.09 | 1.04 | 1.17 |
| 1 1/2 x 1 1/4 x 1 | 1.65 | 1.58 | 1.80 | 2.68 | 2.39 | 1.95 | 0.70 | 0.67 | 0.58 | 0.92 | 0.87 | 1.11 |
| 1 1/2 x 1 1/4 x 3/4 | 1.52 | 1.45 | 1.75 | 2.68 | 2.39 | 1.63 | 0.70 | 0.67 | 0.50 | 0.79 | 0.74 | 1.20 |
| 1 1/2 x 1 1/4 x 1/2 | 1.41 | 1.34 | 1.66 | 2.68 | 2.39 | 1.34 | 0.70 | 0.67 | 0.43 | 0.68 | 0.63 | 1.12 |
| 1 1/2 x 1 x 1 1/2 | 1.94 | 1.80 | 1.94 | 2.68 | 1.95 | 2.68 | 0.70 | 0.58 | 0.70 | 1.21 | 1.11 | 1.21 |
| 1 1/2 x 1 x 1 1/4 | 1.94 | 1.80 | 1.94 | 2.68 | 1.95 | 2.39 | 0.70 | 0.58 | 0.67 | 1.21 | 1.11 | 1.23 |
| 1 1/2 x 1 x 1 | 1.65 | 1.50 | 1.80 | 2.68 | 1.95 | 1.95 | 0.70 | 0.58 | 0.58 | 0.92 | 0.81 | 1.11 |
| *1 1/2 x 1 x 3/4 | 1.65 | 1.50 | 1.80 | 2.68 | 1.95 | 1.63 | 0.70 | 0.58 | 0.50 | 0.92 | 0.81 | 1.25 |
| *1 1/2 x 1 x 1/2 | 1.41 | 1.34 | 1.66 | 2.68 | 1.95 | 1.34 | 0.70 | 0.58 | 0.43 | 0.68 | 0.65 | 1.12 |
| 1 1/2 x 3/4 x 1 1/2 | 1.94 | 1.75 | 1.94 | 2.68 | 1.63 | 2.68 | 0.70 | 0.50 | 0.70 | 1.21 | 1.20 | 1.21 |
| 1 1/2 x 3/4 x 1 1/4 | 1.82 | 1.62 | 1.88 | 2.68 | 1.63 | 2.39 | 0.70 | 0.50 | 1.09 | 1.21 | 1.07 | 1.17 |
| *1 1/2 x 3/4 x 1 | 1.65 | 1.50 | 1.80 | 2.68 | 1.63 | 1.95 | 0.70 | 0.50 | 0.58 | 0.92 | 0.95 | 1.11 |
| *1 1/2 x 3/4 x 3/4 | 1.65 | 1.50 | 1.80 | 2.68 | 1.63 | 1.63 | 0.70 | 0.50 | 0.50 | 0.92 | 0.95 | 1.25 |
| *1 1/2 x 3/4 x 1/2 | 1.52 | 1.37 | 1.80 | 2.68 | 1.63 | 1.34 | 0.70 | 0.50 | 0.43 | 0.80 | 0.82 | 1.26 |
| 1 1/2 x 1/2 x 1 1/2 | 1.94 | 1.66 | 1.94 | 2.68 | 1.34 | 2.68 | 0.70 | 0.43 | 0.70 | 1.21 | 1.12 | 1.21 |
| *1 1/2 x 1/2 x 1 1/4 | 1.94 | 1.66 | 1.94 | 2.68 | 1.34 | 2.39 | 0.70 | 0.43 | 0.67 | 1.21 | 1.12 | 1.23 |
| *1 1/2 x 1/2 x 3/4 | 1.52 | 1.37 | 1.80 | 2.68 | 1.34 | 1.63 | 0.70 | 0.43 | 0.50 | 0.80 | 0.84 | 1.25 |
| *1 1/2 x 1/2 x 1/2 | 1.52 | 1.37 | 1.80 | 2.68 | 1.34 | 1.34 | 0.70 | 0.43 | 0.43 | 0.80 | 0.84 | 1.26 |
| 1 1/4 x 1 1/4 x 1 1/2 | 1.88 | 1.88 | 1.82 | 2.39 | 2.39 | 2.68 | 0.67 | 0.67 | 0.70 | 1.17 | 1.17 | 1.09 |
| 1 1/4 x 1 x 1 1/2 | 1.88 | 1.80 | 1.82 | 2.39 | 1.95 | 2.68 | 0.67 | 0.58 | 0.70 | 1.17 | 1.11 | 1.09 |
| *1 1/4 x 3/4 x 1 1/2 | 1.94 | 1.75 | 1.94 | 2.39 | 1.63 | 2.68 | 0.67 | 0.50 | 0.70 | 1.23 | 1.20 | 1.21 |
| *1 1/4 x 1/2 x 1 1/2 | 1.94 | 1.66 | 1.94 | 2.39 | 1.34 | 2.68 | 0.67 | 0.43 | 0.70 | 1.23 | 1.12 | 1.21 |

* Manufactured to WARD specifications