

BRASS PIPE

Scope

This specification covers Brass Pipe used in piping applications as determined by Engineering as a function of what is being transported in the system, pressure ratings, temperature of material and line pressure.

Specifications

Brass Pipe provided by Merit Brass Co. shall conform to ASTM B43 (Standard Specification for Seamless Red Brass Pipe, Standard Sizes) produced from Copper Alloy C23000 (Red Brass). C23000 is a Copper/Zinc alloy; other elements, including Lead (0.05% Max.) and Iron (0.05% Max.), are not intentionally added to the alloy. These elements may be present, but will exist only as impurities. This product is suitable for above, or below ground, applications.



Size Range

- Regular: 1/8" – 6"
- Extra Strong: 1/8" – 3"

Lengths

- 14" – 72"

| Project Information | Approval Stamp |
|----------------------|-------------------|
| Project Name: | Approved |
| Project Location: | Approved As Noted |
| Project Contractor: | Not Approved |
| Project Engineer: | Remarks: |
| Project Distributor: | |
| Project Rep: | |
| Submittal Date: | |
| Notes 1: | |
| Notes 2: | |

Brass Pipe

| Weight of Seamless Brass and Copper Pipe Regular Pipe | | | | | |
|---|-------------------|-------|----------------|------------------------|--------|
| Iron Pipe Sizes | | | | | |
| Pipe Size (in) | Dimensions (Inch) | | | Pounds per Lineal Foot | |
| | O.D. | I.D. | Wall Thickness | Red Brass | Copper |
| 1/8" | 0.405 | 0.281 | 0.062 | 0.253 | 0.259 |
| 1/4" | 0.540 | 0.376 | 0.082 | 0.447 | 0.457 |
| 3/8" | 0.675 | 0.495 | 0.090 | 0.627 | 0.641 |
| 1/2" | 0.840 | 0.626 | 0.107 | 0.934 | 0.955 |
| 3/4" | 1.050 | 0.822 | 0.114 | 1.27 | 1.30 |
| 1" | 1.315 | 1.063 | 0.126 | 1.78 | 1.82 |
| 1-1/4" | 1.660 | 1.368 | 0.146 | 2.63 | 2.69 |
| 1-1/2" | 1.900 | 1.600 | 0.150 | 3.13 | 3.20 |
| 2" | 2.375 | 2.063 | 0.156 | 4.12 | 4.22 |
| 2-1/2" | 2.875 | 2.501 | 0.187 | 5.99 | 6.12 |
| 3" | 3.500 | 3.062 | 0.219 | 8.56 | 8.75 |
| 3-1/2" | 4.000 | 3.500 | 0.250 | 11.2 | 11.4 |
| 4" | 4.500 | 4.000 | 0.250 | 12.7 | 12.9 |
| 5" | 5.563 | 5.063 | 0.250 | 15.8 | 16.2 |
| 6" | 6.625 | 6.125 | 0.250 | 19.0 | 19.4 |

| Red Brass 85% Allowable Pressure | | | | |
|------------------------------------|--------------------------|--------|--------|--------|
| Pipe with Threaded Ends | | | | |
| Standard Size (in) | Pounds Per Square (Inch) | | | |
| | @100°F | @200°F | @300°F | @400°F |
| 1/8" | 370 | 370 | 320 | 140 |
| 1/4" | 870 | 870 | 760 | 330 |
| 3/8" | 890 | 890 | 780 | 340 |
| 1/2" | 900 | 900 | 790 | 340 |
| 3/4" | 810 | 810 | 710 | 310 |
| 1" | 630 | 630 | 560 | 240 |
| 1-1/4" | 690 | 690 | 610 | 260 |
| 1-1/2" | 630 | 630 | 560 | 240 |
| 2" | 540 | 540 | 480 | 210 |
| 2-1/2" | 450 | 450 | 390 | 170 |
| 3" | 510 | 510 | 450 | 190 |
| 3-1/2" | 570 | 570 | 500 | 220 |
| 4" | 510 | 510 | 440 | 190 |
| 5" | 410 | 410 | 360 | 160 |
| 6" | 340 | 340 | 300 | 130 |

| Weight of Seamless Brass and Copper Pipe Extra Strong Pipe | | | | | |
|--|-------------------|-------|----------------|------------------------|--------|
| Pipe Size (in) | Dimensions (Inch) | | | Pounds per Lineal Foot | |
| | O.D. | I.D. | Wall Thickness | Red Brass | Copper |
| 1/8" | 0.405 | 0.205 | 0.100 | 0.363 | 0.371 |
| 1/4" | 0.540 | 0.294 | 0.123 | 0.611 | 0.625 |
| 3/8" | 0.675 | 0.421 | 0.127 | 0.829 | 0.847 |
| 1/2" | 0.840 | 0.542 | 0.149 | 1.23 | 1.25 |
| 3/4" | 1.050 | 0.736 | 0.157 | 1.67 | 1.71 |
| 1" | 1.315 | 0.951 | 0.182 | 2.46 | 2.51 |
| 1-1/4" | 1.660 | 1.272 | 0.194 | 3.39 | 0.346 |
| 1-1/2" | 1.900 | 1.494 | 0.203 | 4.10 | 4.19 |
| 2" | 2.375 | 1.933 | 0.221 | 5.67 | 5.80 |
| 2-1/2" | 2.875 | 2.315 | 0.280 | 8.66 | 8.85 |
| 3" | 3.500 | 2.892 | 0.304 | 11.6 | 11.8 |

| Red Brass 85% Allowable Internal Pressure Extra Strong (XS) | | | | |
|---|--------------------------|--------|--------|--------|
| Pipe with Threaded Ends | | | | |
| Standard Size (in) | Pounds Per Square (Inch) | | | |
| | @100°F | @200°F | @300°F | @400°F |
| 1/8" | 1960 | 1960 | 1710 | 740 |
| 1/4" | 2210 | 2210 | 1930 | 830 |
| 3/8" | 1840 | 1840 | 1610 | 690 |
| 1/2" | 1760 | 1760 | 1540 | 660 |
| 3/4" | 1510 | 1510 | 1320 | 570 |
| 1" | 1340 | 1340 | 1180 | 510 |
| 1-1/4" | 1160 | 1160 | 1020 | 440 |
| 1-1/2" | 1090 | 1090 | 960 | 410 |
| 2" | 1000 | 1000 | 870 | 380 |
| 2-1/2" | 970 | 970 | 850 | 370 |
| 3" | 910 | 910 | 790 | 340 |

⚠ WARNING: This product can expose you to lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65warnings.Ca.Gov.

Every precaution has been taken in preparing this price sheet, however, Merit Brass Company cannot be held responsible for typographical errors or omissions. Please note, Merit furnishes red brass pipe conforming to ASTM B43, drawn general purpose temper (H58); unless otherwise noted. Light Annealed (061) temper is also available upon request.

LOCATIONS

SPARKS DISTRIBUTION CENTER

200 Vista Boulevard Suite #106
Sparks, NV 89434

LONG BEACH PIPE DEPOT

2396 E. Artesia Blvd
Long Beach, CA 90805

DALLAS DISTRIBUTION CENTER

10614 King William Drive
Dallas, TX 75220

CLEVELAND HEADQUARTERS

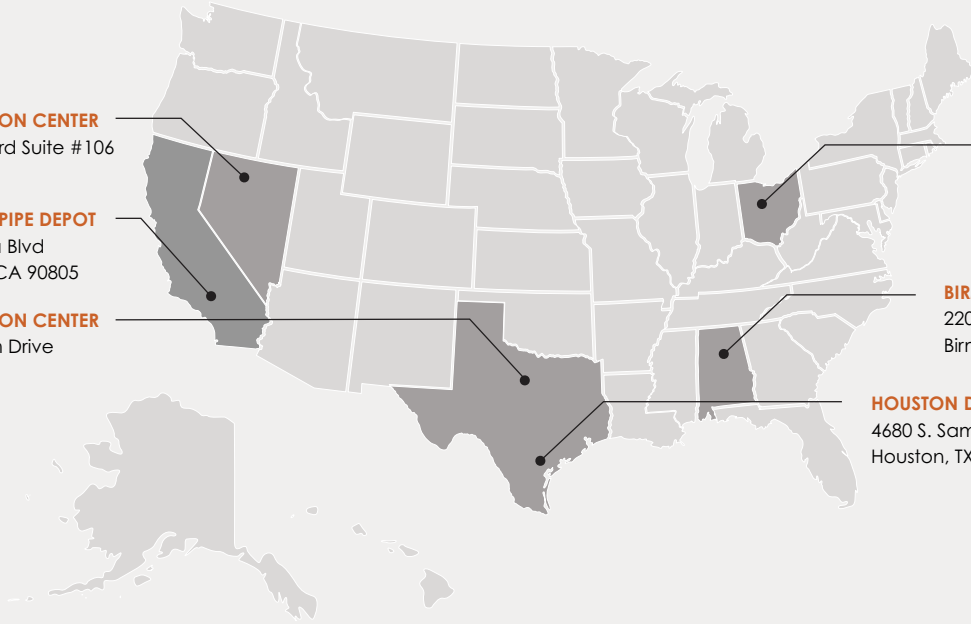
One Merit Drive/PO Box 43127
Cleveland, OH 44143

BIRMINGHAM DISTRIBUTION CENTER

220 Oxmoor Court
Birmingham, AL 35209

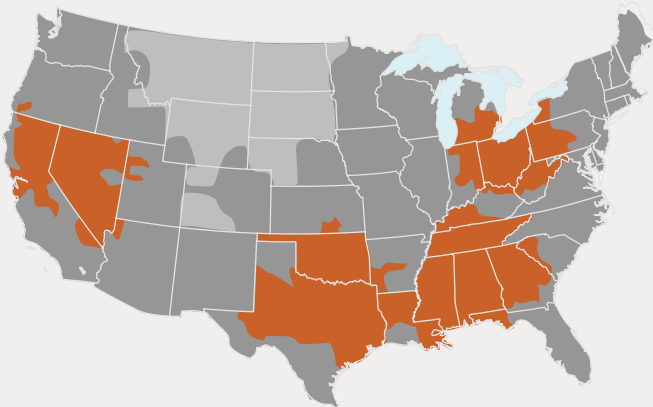
HOUSTON DISTRIBUTION CENTER

4680 S. Sam Houston Pkwy W, Suite 120
Houston, TX 77053



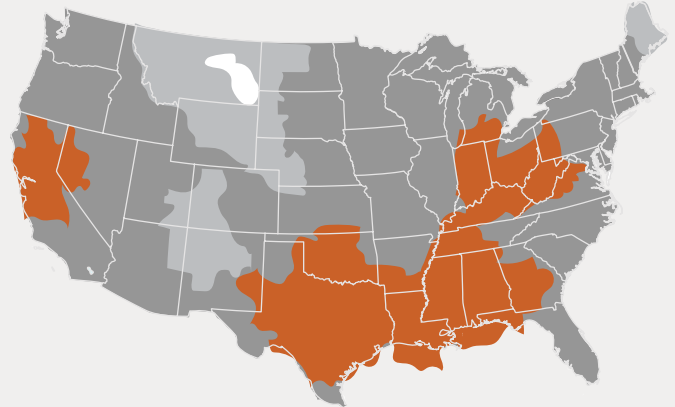
SHIPPING TIMES

UPS



1 Day 2-Days 3 Days

FEDEX



1 Day 2 Days 3 Days 4 Days

*FedEx is Merit's Primary Carrier

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Merit Brass Headquarters Has An ISO 9001:2015 Registered Quality Management System