

To our valued customers,

We hereby certify that to the best of our knowledge and belief that all domestic lead-free brass fittings furnished by Merit Brass Company are made from copper alloy C89833 in accordance with ASTM B584 with the following chemical analysis:

| COPPER | 87.00% – 91.00% |
|------------|-----------------|
| TIN | 4.00% - 6.00% |
| LEAD | 0.10% Max |
| ZINC | 2.00% - 4.00% |
| NICKEL | 1.00% Max |
| PHOSPHORUS | 0.05% Max |
| SILICON | 0.005% Max |
| ALUMINIUM | 0.005% Max |
| SULFUR | 0.08% Max |
| IRON | 0.30% Max |
| ANTIMONY | 0.25% Max |
| BISMUTH | 1.70% – 2.70% |

Furthermore, the domestic lead-free brass fittings conform to: ASME B16.14, B16.15, B16.18, MSS SP-106 (Flanges), A-A-5961 (Unions). All domestic lead-free brass fittings are threaded in accordance with ASME B1.20.1.

Sincerely, MERIT BRASS COMPANY

Josh Schnippel Quality Engineering Manager



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