

February 17, 2020

Re: Copper Fittings

CERTIFICATION

This is to certify that NIBCO manufactured (trademarked/not trademarked) Wrot and Cast Copper Alloy Fittings are manufactured to meet the material and/or dimensional requirements of the following specifications:

Wrot Solder Joint Fittings (600/9600 Series) - Produced to one of the following specifications:

1. Material and workmanship in accordance with **ASME/ANSI B16.22 Wrought Copper and Copper Alloy Solder Joint Pressure Fittings.**
2. The dimensions, material, and workmanship meet the requirements of **MSS SP-104 Wrought Copper Solder Joint Pressure Fittings.**
3. The dimensional, material and workmanship of 5" - 12" Copper Fittings meet the requirements of **MSS SP-109 Welded Fabricated Copper Solder Joint Pressure Fittings.**
4. **NSF/ANSI 61 – Drinking Water System Components – Health Effects**
5. **NSF/ANSI 372 – Drinking Water System Components – Lead Content**
6. **JIS H 3401 – Pipe Fittings of Copper and Copper Alloy**

Cast Copper Alloy Solder Joint Fittings (700 Series) Conform to the performance, materials and workmanship requirements of **ASME B16.18 Cast Copper Solder Joint Pressure Fittings.**

Lead-Free* Cast Copper Alloy Solder Joint Fittings (700-LF Series) – Conform to the performance, materials, and workmanship requirements of **ASME B16.18 Cast Copper Solder Joint Pressure Fittings.**

Cast Drainage Fittings (800 Series) – Conform to ASME B16.23.

Wrot Drainage Fittings (900 Series) - Conform to ASME B16.29.

Class 125 Flanges – Material, workmanship and dimensions of flanges conform to **MSS SP-106.**

Cast Copper Alloy Flanges - Class 150 Flanges – Conform with the requirements of **MSS SP-106** and the workmanship and dimensional requirements of **ASME B16.24.**

Lead-Free* Cast Performance Bronze™ Flanges - Class 150 Flanges – Conform with the workmanship and dimensional requirements of **MSS SP-106** and **ASME B16.24.**

Cast Copper & Wrot Copper Unions – 733 Series – Conform with **MSS SP-123 Non-Ferrous Threaded and Solder Joint Unions for Use With Copper Water Tube.**



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WORLD HEADQUARTERS

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Materials:

The materials used to manufacture these fittings are also in compliance with the following specifications:

Tubular Wrought Copper -

ASTM B75 UNS Alloy C12200 (DHP); **Standard Specification for Seamless Copper Tube.** Nominal Metal Content: 99.9% Copper, .02% Phosphorous.

Cast Products -

ASTM B584 UNS Alloy C84400; **Standard Specification for Copper Alloy Sand Castings for General Applications.** Nominal Metal Content: 81% Copper, 7%Lead, 3%Tin, 9% Zinc.

ASTM B584 UNS Lead-Free* Alloy C87850; **Standard Specification for Copper Alloy Sand Castings for General Applications.** Nominal Metal Content: 76% Copper, 0.09% Lead, 3%Tin, 9% Zinc, 0.1% Iron.

ASTM B584 UNS Lead-Free* Alloy C87600; **Standard Specification for Copper Alloy Sand Castings for General Applications.** Nominal Metal Content: 89% Copper, 0.09% Lead, 3.0% Silicon, 20.9% Zinc, 0.1% Tin, 0.12% Phosphorus, 0.2% Nickel, 0.1% Iron.

This is to further certify the products produced to the above standards contain no asbestos or PCB's, nor is mercury introduced into their manufacture. Further, we certify the wrought copper fittings contain less than 0.2% lead and the cast fittings contain no more than 8% lead in compliance with Federal guidelines.

These products are manufactured in facilities registered to the ISO 9001:2015 quality standard.



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NIBCO INC.

Chris Smucker
Technical Services Advisor

*Weighted average lead content \leq 0.25%

