



A.Y. McDonald Mfg. Co.
TRUSTED QUALITY ♦ DEPENDABLE SERVICE ♦ SINCE 1856

Water Works Brass

Plumbing Valves and Fittings

Pumps and Water Systems

Distribution Gas Valves/Meter Bars

Mailing Address P.O. BOX 508 ♦ DUBUQUE, IA 52004-0508

Shipping Address 4800 CHAVENELLE ROAD ♦ DUBUQUE, IA 52002

PHONE 800/292-2737 ♦ FAX 800/832-9296 ♦ sales@aymcdonald.com ♦ www.aymcdonald.com

Certificate of Material Quality

No Lead Brass product manufactured after January 1, 2010 and marked "NL"

I hereby certify that all No Lead Brass material used to manufacture A.Y. McDonald Mfg. Co. Valves and Fittings meet the requirements of AWWA C800-05. The wetted brass material meets the requirements for Copper Alloy C89833 per ASTM B584-10. The elements underlined are the primary elements of the specification.

CHEMICAL REQUIREMENTS

| | | | |
|-----------------------------|------|---|--------|
| <u>Copper</u> | 86.0 | - | 91.0 % |
| <u>Tin</u> | 4.0 | - | 6.0 % |
| <u>Zinc</u> | 2.0 | - | 6.0 % |
| <u>Bismuth</u> | 1.7 | - | 2.7 % |
| <u>Nickel</u> (Inc. Cobalt) | 0.0 | - | 1.0 % |
| Iron | 0.0 | - | 0.3 % |
| Antimony | 0.0 | - | 0.25 % |
| <u>Lead</u> | 0.0 | - | 0.09 % |
| Sulfur | 0.0 | - | 0.08 % |
| Phosphorous | 0.0 | - | 0.05% |

PHYSICAL REQUIREMENTS

| | | |
|---------------------|--------------|----------------|
| Tensile Strength | 30,000 (207) | Min. PSI (MPa) |
| Yield Strength | 14,000 (97) | Min. PSI (MPa) |
| Elongation in 2 in. | 16 | Min. Percent |

A.Y. McDonald has received ANSI/NSF 61-8 (2005) and the weighted average lead content of the wetted surfaces of not more than 0.25% certifications from an ANSI accredited independent test lab. Product Certification sheets are available by request. This material also complies with the National Safe Drinking Act Section 1417 (42 U.S.C 300g-6).

For ball valves and fittings, the o-rings, port seals that seal against the ball and the compression gaskets used to seal against the pipe are made from EPDM rubber unless otherwise stated on submittal sheets. The plug style valves use a nitrile rubber o-ring.

I further certify that the above items are machined and assembled at A.Y. McDonald Mfg. Co. facilities and are designed for use on underground and aboveground cold potable water systems not exceeding the pressures called out in the AWWA C800 Standard unless otherwise stated by A.Y. McDonald Mfg. Co.

Saturday, June 06, 2015.

Andy Shea
Director of Quality Assurance
A.Y. McDonald Manufacturing Co.