

SAN ANTONIO WATER SYSTEM
SAN ANTONIO, TEXAS
SPECIFICATIONS FOR NO LEAD CONTENT WATERWORKS BRASS
GOODS
REVISED Feb 2013

1. SCOPE

This specification covers waterworks brass goods, such as, corporation stops, curb stops, couplings, connectors, nipples, etc.

2. GENERAL REQUIREMENTS

- a. The brass composition shall conform to ASTM Specifications B-62, or latest revision thereof, fittings shall conform to ANSI/AWWA Specifications C-800, or latest revision thereof.
- b. All brass components in contact with potable water must be made from either CDA/UNS Brass Alloys C89520 in accordance with ASTM B584; or C89833 with a maximum lead content of .25% by weight. Brass saddles shall be made from CDA/UNS C83600.
- c. Any brass component not in contact with potable water shall be made of 85-5-5-5 brass as defined per ASTM B62, ASTM B584 and AWWA C-800.
- d. All service fittings shall be certified as suitable for contact with drinking water by an ANSI accredited organization in accordance with ANSI/NSF standard 61, Drinking Water Systems Components-Health effects section 8. Proof of certification is required. The lead content of the wetted components in contact with potable water shall also be verified by an ANSI accredited testing facility.
- e. All brass fittings and valves shall have the manufacturers name and/or trademark integrally stamped, or cast into it indicating that the product is manufactured from the low-lead alloy as specified. Another marking such as "NL", "EBII", "FD" or other commonly accepted identifier, indicating the alloy as "No-lead"; shall also be cast or stamped into the fitting or valve.
- f. Painting, printing, sticker, or decals attesting to the components "no-lead" certification shall not be permitted.

- g. All casting shall have a natural, clean uniform and smooth surface, and be free from internal porosity.
- h. All machining shall be done in a workmanlike manner and within the acceptable tolerances.

3. DESIGN CRITERIA FOR BALL TYPE CURB STOPS /ANGLE VALVES

- a. All Curb Stop, Corporation and Angle valves shall be ball valves. "Inverted/Ground Key," type angle valves will not be accepted.
- b. Ball type valves will not have a stop.
- c. All ball valves, couplings and adapters will be pressure rated to 300 psi, and will be supplied with blowout proof stainless steel stems with double SBR, NBR or EPDM O-ring steam seal.
- d. Stem and cap assembly will be two-piece design and will withstand minimum 200 ftp of torque.
- e. Ball seats will be made with unfilled Teflon or EPDM for resilience and minimal friction.
- f. Ball will be lead free cast brass or stainless design. Coated ball is not permitted.
- g. All fittings shall have a lifetime guarantee against lead leachate from the casting.
- h. The reduced port design not will be acceptable.
- i. Pack Joints will not be accepted.

APPROVED MANUFACTURER LIST

In Line FIP X FIP

Approved Manufacturers and Models:

2-INCH FIP X FIP

Manufacturer

Model

Ford Meter Box	B11-777WR-NL
A.Y. McDonald	76111W
Mueller	B-20200-3N
James Jones	J1900-RN

Angle Curb Stop Meter Coupling x Compression

Approved Manufacturers and Models:

<u>Manufacturer</u>	<u>Size</u>			
	<u>3/4"</u>	<u>1"</u>	<u>1.5"</u>	<u>2"</u>
A.Y. McDonald	74652BQ & 74652BQ	74652BQ	74612BCS	74612BCS
Ford Meter Box	BA43-232WRQ-NL	BA43-344WRQ-NL	BFA43-666WRQ-NL	BFA43-777WRQ-NL
Mueller	B24258R-3N	B24258R-3N	B24276-3N	B24276-3N
James Jones	J-1963WSG-N	J-1963WSG-N	J-1975WSGLS-N	J-1975WSGLS-N

F.I.P. X METER SWIVEL NUT/COUPLING

Approved Manufacturers and Models:

Size

Manufacturer **3/4"**

A.Y. McDonald	74654B
Ford Meter Box	BA13-232WR-NL
Mueller	B24265-3N
James Jones	J-1966WLS-N

Ball Corporation Valve

Approved Manufacturers and Models:

Manufacturer

CC X CMP

IP X CMP

A.Y. Mc Donald	74701BQ	74704 BQ
Mueller	B-25008N	B-25028N
James Jones	J-1937 SG-N	J-1935 SG-N
Ford Meter Box	FB-1000Q-NL	FB-1100Q-NL