

Addendum No. 1 to IFB 17-30



CITY OF SOMERVILLE, MASSACHUSETTS
Department of Purchasing
JOSEPH A. CURTATONE
MAYOR

To: Prospective bidders IFB 17-30, Lead-Free Brass Fittings

From: Orazio DeLuca, Contract Manager

Date: November 7, 2016

Re: Change in Specifications

Addendum No. 1 to IFB 17-30

The City is issuing this addendum to IFB 17-30, Lead-Free Residential Brass Fittings, to address a change in specifications.

Specifically: Compression fittings shall provide direct contact with service line by means of a clamping mechanism which utilizes a stainless steel set screw or an equivalent compression fitting. (sec. 1C)

PLEASE BE SURE TO ACKNOWLEDGE ALL ADDENDA ON THE BID PRICING SHEET

Thank you-
Orazio P. DeLuca
Contract Manager
Purchasing Department
City of Somerville
617-625-6600 x 3407

Specifications

Background

The City of Somerville's Water Department, through its Purchasing Department, is seeking bids for no lead brass fittings. This contract will be for a one year term, with two optional renewal years.. The estimated value of this contract should be \$50,000.00 to \$75,000.00. The City of Somerville does not guarantee the minimum or maximum herein stated.

Section I

CORPORATION STOPS, CURB STOPS, BALL VALVES & GENERAL FITTINGS

A-1. Corporation Stops - 3/4" and 1"

Corporation Stops shall conform to AWWA Standard C-800 as regard to thread types and diameters. Corporation Stops shall be designed so that they may be installed in mains under pressure using standard tapping machines. All castings shall be of certified waterworks no lead brass. Each stop shall be water tight and the waterway diameter shall be approximately equivalent to the nominal size of the stop. Inlet threads shall be tapered to AWWA Standards unless iron pipe threads are specified. All threads shall be coated or capped for protection against damage during shipment or handling. Stops shall be shipped well boxed and marked with the size and the type. All stops shall be well designed, have good appearance, and be entirely suitable for the intended purpose. This description does apply to 3/4" and 1" corporation stops.

A-2.

Corporation Stops - 1 1/2" and 2"

Corporation Stops of 1 1/2" and 2" size shall be of the Ball Valve type. The body, ball stem and nut shall be of certified no lead brass. The ball shall be fluoral carbon-coated and shall be held in position by and seal off against seats of Buna-N rubber that are held securely in place with epoxy adhesive. Valves shall be watertight at any pressure up to 300 psi. The waterway shall be no smaller than the nominal size of the valve and shall be designed to create minimum resistance to flow.

Corporation Stops shall be designed so that they may be installed in mains under pressure using standard tapping machines. The stops shall turn easily and be either 1 1/2", or 2" in size as specified by the purchase order. They shall be available with either AWWA or iron pipe tapered inlet threads. All threads shall confirm to AWWA standard C-800.

B. Specifications for Curb Stops

Curb Stops shall be of the ball valve type. These valves shall be of certified no lead brass. The ball shall be fluoro-carbon coated brass, and shall be held in position by and seal off against seats of Buna-N rubber that are held securely in place with epoxy adhesive. Valves shall be water-tight against flow in either direction. The waterway shall be no smaller than the nominal size to create resistance to flow.

The seal around the stem shall consist of two "O" rings. Each valve shall have a substantial T-head for the operation of opening and closing with a 90 degree turn of a standard slotted wrench. The stops or lugs for controlling the motion of the T-head shall be enclosed and properly positioned to line up the waterway through the ball with the water passage through the valve body.

The valve shall be available in sizes from 3/4" through 2". The valve shall turn easily and shall be of quality construction throughout.

C. General Fittings

Male and female iron pipe shall conform to AWWA Standard C-800. General fittings shall also conform to a composition of certified no lead brass. *Compression fittings shall provide direct contact with service line by means of a clamping mechanism which utilizes a stainless steel set screw or an equivalent compression fitting.* The clamping mechanism shall be machined to provide for sufficient and uniform restraint of the service line. Gasket material shall be Buna-N rubber. Fittings shall also include a slip ring to prevent binding of rubber and compression nut.

Section II

STEEL BOLTED COUPLING FOR PLAIN END PIPE

A. Type

Type-Couplings shall be wedge gasketed and sleeve type. Each coupling shall consist of a steel middle, two-steel followers, two wedge shaped rubber compounded gaskets and steel bolts. Couplings must be available for all steel pipe sizes as well as all cast iron pipe. Couplings shall be made for pipes of same diameter or as reducers.

B. Followers

1. Sizes 3/4" through 1 1/2" shall be one piece steel forgings.
2. Sizes 2" and 2 1/2" shall be cold formed two piece construction.
3. All followers shall have a solid formed gasket recess, free of seams or breaks, to confine the gasket.

C. Gasket

Gaskets shall be rubber compounded material that will not deteriorate from age or exposure to air under normal storage or use. The rubber in the gasket should have a ridged metal band inside the washer to prevent twisting or collapsing. The gaskets shall be immune to attack from water, normal minerals found in water, or minerals normally found in soil.

D. Bolts

Bolts shall be elliptical neck, track head design. The elliptical hole in the follower to prevent the bolt from turning. The shank of the bolts shall be normal size. Each coupling shall have a sufficient number of threads to properly compress the gasket.

E. Shopcoat

Unless otherwise specified all metal parts shall be shopcoated.

F. Dimensions - Minimum

<u>No. Pipe Size</u>	<u>Middle Ring Thickness & Length</u>	<u>Bolts, Diameter</u>	<u>Overall Length wing Bolts Tightened</u>	<u>Working Pressure</u>
3/4"	.120 x 5"	2 1/2" x 6 3/4"	5 3/4"	1500PSI
1"	.130 x 5"	2 1/2" x 6 3/4"	5 3/4"	1500PSI
1 1/4"	.140 x 5"	2 1/2" x 6 3/4"	5 3/4"	1500PSI
1 1/2"	.145 x 5"	2 1/2" x 6 3/4"	5 3/4"	1500PSI
2"	.150 x 5"	3 5/8" x 8"	7"	1500PSI
2 1/2"	.200 x 5"	3 5/8" x 8"	7"	1500PSI

Section III ASSORTED SMALL EQUIPMENT

A. Meter Horns (Brass)

Meter Horn - must be able by using this fitting to set meters where no meter connections exist; must be able to adapt to brass or copper pipe with no soldering. These valves shall be of certified no lead brass. Fitting should come with meter connections spaced for various size meters as specified in proposal form. They should come with and without valves, either wheel handle, gate valve or a ball valve with level handle. All solder connections shall be made with lead-free solder.

B. Basement Resetter

Fitting should allow the resetting of a meter which is presently set in a vertical position to a horizontal position. These valves shall be of certified no lead brass. All solder connections shall be made with lead-free solder.

C. Resetter

Fitting should allow the resetting of a meter in a raised position; these fittings should come in various heights. These valves shall be of certified no lead brass. All solder connections shall be made with lead-free solder.

D. Valve and Service Box Locators

Magnetic Locator shall be pre-adjusted for this area of the country. It shall operate on magnetism, and shall include a leather case and long strap.