

# BEXAR METROPOLITAN WATER DISTRICT MATERIALS SPECIFICATIONS

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## Section 028 Brass Ball Valves

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### 028.1 Scope of Work

This specification covers non-rising stem type, brass, fluorocoated ball valves, in sizes through 2 inches, installed on potable water systems where full-open, full-closed, 360 degree tee head rotation, non-throttling control is required.

### 028.2 General Requirements

1. The valve shall be manufactured of bronze alloys meeting the requirements of AWWA Specifications C800-89 (ASTM B62 UNS Number C83600 85-5-5-5) or the latest revision thereof.
2. The valve body shall be generously proportioned, heavy-duty type with screwed ends, in conformance with appropriate Federal Specifications for iron-pipe-sized threaded connections.
3. The valve shall be 300 psi WSP, *200 psi WOG* rated and appropriately identified on the valve body.
4. The non-rising stem shall be equipped with a single-wedged disc and threaded bonnet designed for unrestricted flow in the full-opened position. The stem shall be manufactured of copper-silicon-bronze alloys meeting the requirements of ASTM Specifications B371, or ASTM Specifications B62, and contain less than 15% zinc e. The packing shall be Teflon (non-asbestos containing) material approved for potable water service.
5. The padlock end of the stem shall have tapered milled flats, squared without serrations.
6. The valve shall be equipped with a replaceable padlock.

### 028.3 Design Criteria for Stop/Angle Valves Ball type

1. All Curb Stop/Angle valves shall be ball valves. "Inverted key" type angle valves will not be accepted.
2. Ball angle valves will not have a stop.
3. Laying dimensions the same as our present inverted key style or equal to Mueller H-14258
4. The reduced port design will not be acceptable. Full port only.
5. BMWWD may, at no cost to the manufacturer, subject random valves to testing by an independent laboratory for compliance with these standards. Any visible defect or failure to meet the quality standards herein will be grounds for rejecting the entire order.

The attached qualified products list identifies specified manufacturers that are approved.

**028.4 Approved Manufacturers and Models:**

In Line FIP X FIP      2 INCH FIP X FIP

Manufacturer	Model
Ford Meter Box	B11777WR
A.Y. McDonald	6111W
Mueller	B-20200-3
James Jones	J1900

Angle Curb Stop Meter Coupling x Compression

Manufacturer	Size/Models			
	3/4	1	1.5	2
Ford Meter Box	B43-232W	43-444WR	43-666W	43-777W
Mueller	24258- 3/4	24258-3 1 in	24276-3 1.5	24276-3 2 in
James Jones	J1963WSG	J1963WSG	J1975WSGLS	J1975WSGLS

END OF SECTION