

BEXAR METROPOLITAN WATER DISTRICT MATERIALS SPECIFICATIONS

Section 017

Water Meter-Turbine Type

017.1 Scope of Work

This specification covers cold water turbine-type meters in sizes 2-inch (2") and larger designed for water works service.

017.2 General Description

Turbine water meters to be furnished shall be magnetic gear drive with sealed register of the current type more specifically described in other parts of this specification.

017.3 General Requirements

1. Except as otherwise modified or supplemented herein, AWWA Standard C701, AWWA Standard for Cold-Water Meters, Turbine-Type for Customer Service or the latest revision thereof shall govern the materials, design, manufacture, and testing of all meters furnished under this specification.
2. The BMWD (BexarMet) reserves the right to limit the purchase of turbine-type meters from manufacturers whose meters conforms to the provisions contained herein.
3. Affidavit of Compliance shall be furnished by the manufacturer that the meter furnished complies with the requirements of this specification.
4. A certificate of testing certifying the accuracy and the capacity of meter shall be furnished. The meter shall have an operating pressure of 150 psi and the accuracy of meter shall be 100 plus or minus 1.5 percent.
5. The main case of the turbine meter shall be constructed of bronze material. The bronze material shall be of a high quality copper alloy containing not less than seventy-five percent (75%) copper and suitable amounts of tin, lead and zinc. The meter shall be constructed of the following materials:

017.4 Meter Material for all sizes

Top and bottom case	bronze
Thrust bearings	tungsten carbide, sapphire, ceramic
Shafts, bolts, screens and trim	Series 316 stainless steel
Rotor	Thermoplastic
Register box and register cover	bronze

017.5 Approved Manufacturers and Models:

Manufacturer	Model	Size
Hersey Products, Inc.	MVR	2", 3", 4", 6"
Schlumberger Inc.	Trident 10	5/8" thru 1-1/2"

END OF SECTION