

B. Chamber and Discs

Meters equipped with discs of the flat type shall be provided with thrust rollers made of hard rolled phosphor bronze or equally suitable material. The thrust roller shaft shall be solidly attached to the thrust roller head, and rotated freely in the disc plate. In the 1 1/2" and 2" meter, only the part of the roller protruding from the disc plate shall be hard rubber mounted.

C. Original Meter Wear and Tear Allowances

Magnetic drive, gear train and dial shall be guaranteed for a period of 10 years. Should failure occur for any cause, vandalism and abuse excepted, during the period of the guarantee, the complete unit shall be replaced by the supplier at no cost to the City.

D. Measuring Chamber

Measuring chamber shall be guaranteed for a period of 8 years. Chamber shall be designed to allow passage of sand grains of not greater size than 50 mesh ASTM, without causing stoppage or causing incorrect reading of more than .5 percent per year tested at flows of 5 gpm.

E. Measuring Chamber Tolerance Allowance

An allowance of .5 percent loss of accuracy per year for wear and tear depreciation will be allowed. If state tolerances are exceeded at any time within the period of guarantee, the supplier shall replace the entire measuring chamber, case and complete disc at no cost to the City.

The City may remove meter on or before routine maintenance change and will test meter on test bench prior to any repairs to determine accuracy and condition of meter. Should removed meter not perform within the permitted tolerances, such meter shall be tested in the presence of the supplier's representative, dismantled in his presence, and cause of failure determined to the satisfaction of both the City and the supplier.

TESTING

The contractor shall provide all necessary materials and equipment and shall perform all work required in connection with the testing and sterilization of all water lines.

All tests shall be made after trenches have been backfilled, compacted and approved for testing.

Hydrostatic and Leakage Tests. All pipe work, including all joints, connection and fittings, shall be subjected by the contractor, under the direction of the Engineer, to a hydrostatic pressure test of 150 pounds per square inch. Before testing, all valves shall be fully opened and all air shall be expelled from the line. Such pressure shall be maintained for a period of not less than 1 hour. Any leaks, failures, or imperfect construction revealed by such test shall be promptly corrected by the contractor at his sole expense, and retested until all leakage has been stopped.

ENGINEERING DEPARTMENT		CITY OF MERCED, CA.	
WATER SYSTEM - CONSTRUCTION SPECIFICATIONS			W-19
DRAWN: KGE	APPROVED BY: <i>David L. Tucker</i>	DATE: 01/22/02	
DATE:	CITY ENGINEER		
REVISED: 1/02		SHEET	OF