

SPECIFICATIONS - DETAILED PROVISIONS
Section 15173.1 - Propeller-Type Water Flowmeters

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SECTION 15173.1
PROPELLER-TYPE WATER FLOWMETERS

PART 1 - GENERAL

1.01 DESCRIPTION

Each flowmeter shall be of the propeller-driven current, cold-water type conforming to the requirements of AWWA Standard C-704, unless a higher requirement is specified herein. The main body of the meter shall be steel constructed, suitable for a working pressure of 150 psi. Sizes of meters shall be in accordance with the construction drawings. Meters shall be furnished with flanged ends (unless otherwise specified) and a minimum of three flow-straightening vanes located directly upstream of the meterhead assembly. The meterhead shall be mounted on the meter tube by means of a flanged or victaulic connection to permit convenient removal of the meterhead assembly. Coating for each meter shall be fusion-bonded epoxy in accordance with AWWA Standard C-213.

1.02 FLOWMETER REGISTER

The meter register shall have a six digit, straight-reader totalizer, registered in acre feet and a "gpm" flow indicating dial. The meter register shall be enclosed in a moisture-proof housing which includes a clear plastic or glass lens. The lens and register shall be protected by means of a hinged cover with a lock hasp.

1.03 REGISTER TRANSMITTER

Unless specified otherwise, a 4-20 mA transmitter, powered by an external power supply, shall be furnished with the meter. The transmitter shall be mounted between the register mounting plate and the register housing. The meter shall be a McCrometer Model MW500 or approved equal equipped with a Model EA E7000 series transmitter.

1.04 OVERRUN (HEAVY-DUTY) BEARING

Each meter shall be furnished standard with a heavy-duty extended wear bearing such as a high flow overrun bearing (normally optional).

1.05 CERTIFICATE OF TESTED ACCURACY

The Contractor shall furnish a manufacturer's Certificate of Testing to the Engineer for each meter provided. Upon completion of installation in a water transmission facility, the metering equipment shall be tested to demonstrate proper performance.

END OF SECTION 15173.1

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