

## Materials Specification – 32 for FIRE HYDRANT METERS

**1. GENERAL:**

All fire hydrant meters shall be manufactured in strict accordance with AWWA C 701.

**2. MATERIAL AND CONSTRUCTION:**

Meter housing shall be aluminum with straightening vanes, strainer, fire hose couplings and gate valve after meter or after required backflow device.

**3. REGISTERS:**

Registers shall be straight read, permanently sealed, magnetic drive and 100 U.S. Gallon sweep.

**4. MEASURING ELEMENT:**

Measuring element shall be easily removed for required maintenance.

**5. INSTALLATIONS:**

Fire hydrant meter installation requires a Denver Water approved backflow device. Meters and backflow device shall be completely supported.

Any fire hydrants that are used and damaged by a Contractor will be repaired by Denver Water at the expense of the Contractor.

**6. APPROVED METER MANUFACTURERS:**

Badger Meters, Inc.: Model FHM Fire Hydrant Meter

Neptune Technology Group: Fire Hydrant Meter

Sensus Metering Systems: Model 125-W Fire Hydrant Meter

**7. APPROVED BACKFLOW DEVICE MANUFACTURERS (RPZ):**

Approved backflow device (RPZ) are to be used with fire hydrant meter and a gate valve to control flow. Current approved list can be obtained through our backflow prevention officer.

**8. BACKFLOW PREVENTION:**

Any backflow prevention device required will be a model and size designated by Denver Water and approved by the Colorado Department of Public Health and Environment. The term approved backflow prevention assembly will mean a device that has been manufactured in full conformance with AWWA C511 and, have met completely the laboratory and field performance specifications of the Foundation for Cross Connection Control and Hydraulic Research (FCCC&HR) of the University of Southern California established by: Specifications of Backflow Prevention 69-2, or the most current issue. AWWA and FCCC&HR Standards and Specifications are adopted by Denver Water. Final approval of backflow prevention devices will be evidenced by a Certificate of Approval issued by an approved testing laboratory certifying full compliance with said AWWA Standards and FCCC&HR Specifications.

The following testing laboratory has been qualified by Denver Water and the Colorado Department of Public Health and Environment and accepted by Denver Water to test and certify backflow prevention devices:

Foundation for Cross Connection Control and Hydraulic Research  
University of Southern California  
University Park  
Los Angeles, California 90007

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