





16. The minimum distance between the flange on the outlet side of the inlet valve and the flange on the inlet side of the electromagnetic water meter shall be no less than five pipe diameters. No bends or other fittings shall be allowed in this pipe section.
17. The minimum distance between the flange on the outlet side of the electromagnetic water meter and the inlet side of the test tee shall be no less than three pipe diameters. No bends or other fittings shall be allowed in this pipe section.
18. The by-pass valve shall be bolted to the inlet tee, the flushing valve shall be bolted to the outlet tee and the drainage valve shall be bolted to the flushing valve. The test tee shall be bolted to the upstream side of the outlet valve. All valves shall be configured such that their handles shall not interfere with each other and all valves shall be readily accessible for operation, repair or replacement.
19. All water meters measuring both fire and domestic water consumption installed on a water service providing fire protection to a property shall be UL (Underwriters Laboratory) or FM (Factory Mutual) approved according to AWWA C703.
20. Any insulation placed on or around any water meter shall be easily removable and replaceable and shall not contain asbestos or any other toxic or hazardous materials. Such insulation shall not cover or obstruct the water meter register(s). Insulation shall be installed after final inspection. The City shall not be responsible for any damage to such insulation during any removal or replacement of such insulation.
21. The private water service pipe shall be flushed prior to and after the installation of the water meter.
22. For remote readout device wire and conduit installation, refer to City of Toronto specifications.



ENGINEERING & CONSTRUCTION SERVICES STANDARD DRAWING

REV 2

SEP 2018

**PIPING LAYOUT FOR ELECTROMAGNETIC  
WATER METER 75 mm TO 300 mm IN CHAMBER**

**T-1107.02-2**

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