



Following are minimum requirements for making your connection to the meter provided for your water service:

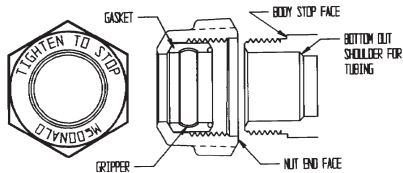
1. Pipe type: PVC , PEX, PEX-AL-HDPE;
2. Pipe size: 3/4" minimum; increase to 1" if the run is 50' or longer to reduce pressure loss;
3. Pipe Depth: Minimum burial depth of 24"
4. #8 Tracer wire along pipe
5. Shut off is required at the dwelling
6. Shut off is recommended at the MWA connection
7. Any existing well(s) must be disconnected from the water service provided by the Water Authority. No cross connections are allowed.
8. Installation of a back flow preventor. This is provided by the Water Authority as part of the current meter setter.
9. All connections shall be underground rated, stainless steel, bronze, threaded or glued.
10. Recommended: check the water pressure on your side of the meter and, if necessary, add a pressure release valve to reduce pressure on your pipes.

If you have any questions on these requirements or recommendations or any other questions, please contact the Middlesex County Building Department – 804-758-4305 - Daniel Fomin, Building Inspector or David Selph, Building Official.

IMPORTANT NOTICE - READ CAREFULLY

Installation Instructions for McQuik ("Q") Series Compression Connectors

The A.Y. McDonald McQuik "Q" Series compression system is a simple convenient method of connection for tube size service materials (See table below for approved tubing specs.)



The simple steps listed below will make your job easier and assure fast, safe and watertight connections:

1. Service tubing should always be **snaked** in the ditch.
2. Use a tube or pipe cutter to assure a square end. Make sure pipe is round. On copper tubing, use a rounding tool, if necessary. Surface should be clean and free of nicks.

*3. Insert stiffeners **must** be used with plastic tubing.

4. Stab tube through the nut and into the socket of the valve or fitting until it bottoms out (some fittings may or may not have a stop).
5. Tighten the McQuik "Q" Series nut to the stop. The end face of the nut is to contact the stop face of the body.
6. **PRESSURE TEST FOR LEAKS BEFORE BACKFILLING.**
7. **USE ONLY ON COLD WATER SERVICES.**

Types of Pipe/Tubing for use with A.Y. McDonald Fittings (Outside Diameters listed)

NOMINAL SIZE	TYPE K or L COPPER TUBE	POLYETHYLENE ASTM D2737 SDR 9 TUBE SIZE *	POLYBUTYLENE ASTM D2666 SDR 9 TUBE SIZE CLASS 250 *
3/4"	$\frac{.872}{.878}$	$\frac{.871}{.879}$	$\frac{.875}{.883}$
1"	$\frac{1.121}{1.129}$	$\frac{1.120}{1.130}$	$\frac{1.125}{1.135}$
1 1/4"	$\frac{1.371}{1.379}$	$\frac{1.370}{1.380}$	$\frac{1.375}{1.385}$
1 1/2"	$\frac{1.621}{1.630}$	$\frac{1.619}{1.631}$	$\frac{1.625}{1.637}$
2"	$\frac{2.120}{2.130}$	$\frac{2.119}{2.131}$	$\frac{2.125}{2.137}$



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A.Y. M^cDonald waterworks products are designed for reliable service. Like all brass products, however, they can be damaged by improper handling and use.

CAUTIONS

1. Protect threads. Avoid loose fitting wrenches. Do not drop or impact.
2. Use extra care with high water pressures (over 100 PSIG) and pipe or tubing over 1". Consult factory if desired.
3. Inspect and test all joints, valves and fittings before backfilling.
4. Backfill carefully so as to avoid damage to the service line and connections. Looping of the service lines is recommended to minimize strain.
5. **DO NOT** use Vaseline[®], plumber's grease, or any other petroleum based product on seals or o-rings.

**Damage caused by improper use and/or handling
will void our warranty**



WARNING: It is unlawful in **CALIFORNIA & VERMONT** (effective 1/1/2010); **MARYLAND** (effective 1/1/2012); **LOUISIANA** (effective 1/1/2013) and the **UNITED STATES OF AMERICA** (effective 1/4/2014) to use any product in the installation or repair of any public water system or any plumbing in a facility or system that provides water for human consumption if the wetted surface area of the product has a weighted average lead content greater than 0.25%. This prohibition does not extend to service saddles used in California, Louisiana or under USA Public Law 111-380.



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