



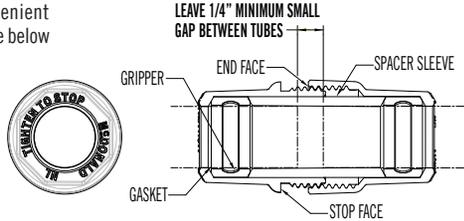
IMPORTANT NOTICE - READ CAREFULLY

Fast Connect Fitting - Copper Tube Size (CTS)

Installation Instructions

The A.Y. McDonald Fast Connect Fitting is a simple, convenient compression connection for tube size service materials (See table below for approved tubing specs.)

- Service tubing should always be **snaked** in the ditch.
 - 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.
 - * Insert stiffeners **must** be used with plastic tubing.
 - Stab tubes through the endpieces and into the insert sleeve. **TUBES SHALL BE BACKED OFF SLIGHTLY AFTER BUTTING UP IN THE CENTER OF THE COUPLING.** This ensures the tubes have space to advance toward each other as the endpieces are tightened.
 - Tighten the endpieces until the end face of the female endpiece contacts the stop face of the male endpiece.
 - PRESSURE TEST FOR LEAKS BEFORE BACKFILLING.**
 - USE ONLY ON COLD WATER SERVICES.**
- PATENTED**



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"	.872	.871	.875
	.878	.879	.883
1"	1.121	1.120	1.125
	1.129	1.130	1.135
1 1/4"	1.371	1.370	1.375
	1.379	1.380	1.385
1 1/2"	1.621	1.619	1.625
	1.630	1.631	1.637
2"	2.120	2.119	2.125
	2.130	2.131	2.137



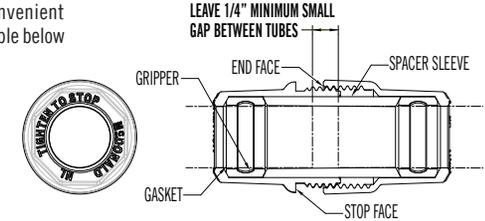
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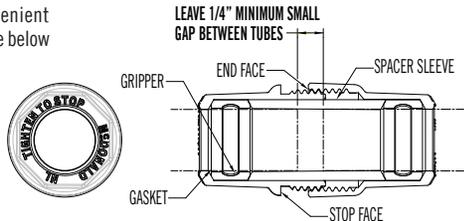
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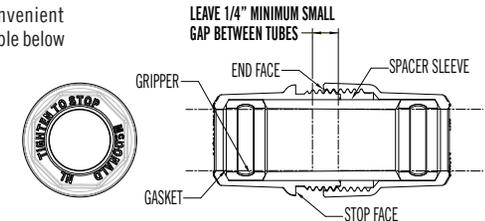
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Installation Instructions

Fast Connect Fitting - Copper Tube Size (CTS)

A.Y. McDonald 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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