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.)

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 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.

5. Tighten the endpieces until the end face of the female endpiece contacts the stop face of the male endpiece.

6. PRESSURE TEST FOR LEAKS BEFORE BACKFILLING.

7. USE ONLY ON COLD WATER SERVICES.

PATENTED

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### Installation Instructions

**A.Y. McDonald Fast Connect Fitting - Copper Tube Size (CTS)**

- 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.)

1. Service tubing should always be snaked in the ditch.
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4. 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.

5. Tighten the endpieces until the end face of the female endpiece contacts the stop face of the male endpiece.

6. PRESSURE TEST FOR LEAKS BEFORE BACKFILLING.

7. USE ONLY ON COLD WATER SERVICES.

PATENTED

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

<table>
<thead>
<tr>
<th>NOMINAL SIZE</th>
<th>TYPE K or L COPPER TUBE</th>
<th>POLYOLEFIN ASTM D3387 SIZE SDR 9 TUBE SIZE</th>
<th>POLYOLEFIN ASTM D6391 SIZE SDR 9 TUBE SIZE CLASS 250</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot;</td>
<td>0.872</td>
<td>0.871</td>
<td>0.875</td>
</tr>
<tr>
<td>1&quot;</td>
<td>1.121</td>
<td>1.120</td>
<td>1.125</td>
</tr>
<tr>
<td>1 1/4&quot;</td>
<td>1.371</td>
<td>1.370</td>
<td>1.375</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>1.621</td>
<td>1.620</td>
<td>1.625</td>
</tr>
<tr>
<td>2&quot;</td>
<td>2.120</td>
<td>2.119</td>
<td>2.125</td>
</tr>
</tbody>
</table>
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. **WARNING:** This product can expose you to chemicals including lead, which is known to the State of CALIFORNIA to cause cancer and birth defects or other reproductive harm. For more information go to: www.P65Warnings.ca.gov.