



IMPORTANT NOTICE - READ CAREFULLY

Installation Instructions

Lead Mac-Pak Compression Connects (-66, -67, -68)



The A.Y. McDonald Mac-Pak compression system is a simple, convenient method of connection for lead pipe.

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

1. Be sure to start with a square end. Surface should be clean.
2. Stab tube or pipe 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).
3. Tighten the Mac-Pak nut onto the valve or fitting to the following minimum torques. Overtorquing nut by 10-20 ft.-lbs. will not affect connections.

1/2" size.....20 ft.-lbs.	5/8" size.....30 ft.-lbs.	1 1/2" size.....50 ft.-lbs.
1" size.....40 ft.-lbs.	1 1/4" size.....45 ft.-lbs.	
2" size.....55 ft.-lbs.	3/4" size.....35 ft.-lbs.	

4. Lock the tube or pipe into the nut by securely tightening the split clamp side screw (use a box end or socket wrench, not a screwdriver). The torques to which the clamp side screw should be tightened are as follows (NOTE CHANGE IN UNITS).

1/2" size.....70-80 in.-lbs.	5/8" size.....75-85 in.-lbs.	1 1/2" size.....160-180 in.-lbs.
1" size.....90-100 in.-lbs.	1 1/4" size.....120-140 in.-lbs.	
2" size.....160-180 in.-lbs.	3/4" size.....80-90 in.-lbs.	

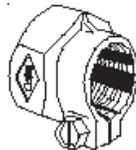
7. PRESSURE TEST FOR LEAKS BEFORE BACKFILLING.
8. USE ONLY ON COLD WATER SERVICES.



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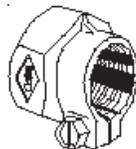
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Lead Mac-Pak Compression Connects (-66, -67, -68)

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

A.Y. McDonald Mac-Pak Coding System

All A.Y. McDonald Mac-Pak fittings are coded to identify which type of service material they are designed to fit. Lettering is on the Mac-Pak nut.

- S Strong lead pipe
- XS Extra strong lead pipe
- XXS Double extra strong lead pipe

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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