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**LMI**<sup>®</sup>

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# **Tubing Connection System**

## **Information Sheet**

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# TUBING CONNECTION SYSTEM

## VERY IMPORTANT - PLEASE READ

The LMI® Tubing Connection System provides a reliable system to connect your pump to corresponding tubing sizes. To assemble tubing onto the fitting:

1. Insert tubing through Coupling Nut—Tubing should enter the smaller end of the Coupling Nut first, orienting the larger opening of the Coupling Nut toward the tubing end.
- 2a. For 1/4" OD tubing: Position the Female Ferrule so that 1/4" to 3/8" (5-10 mm) of tubing protrudes from the Female Ferrule. Orient the raised collar of the Ferrule toward the Coupling Nut (reference *Figure 1*).

- 2b. For 3/8" or 1/2" OD tubing: Position a Female Ferrule about one inch (25 mm) from end of tubing. Orient the raised collar of the Female Ferrule toward the Coupling Nut. Then, insert the Male Ferrule onto the end of the tube, pushing the tube into the bottom of the groove in the Male Ferrule. Then slide the Female Ferrule down the tubing and with your fingers, press tightly into the Male Ferrule (reference *Figure 2*).

3. Firmly hand tighten the Coupling Nut onto the fitting.

### Note:

*Tightening with pliers may cause the Ferrules to break.*

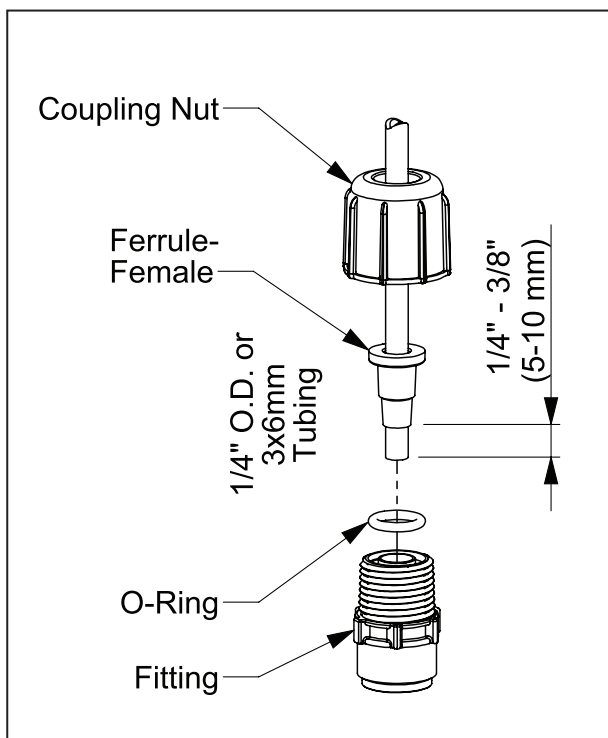


Figure 1

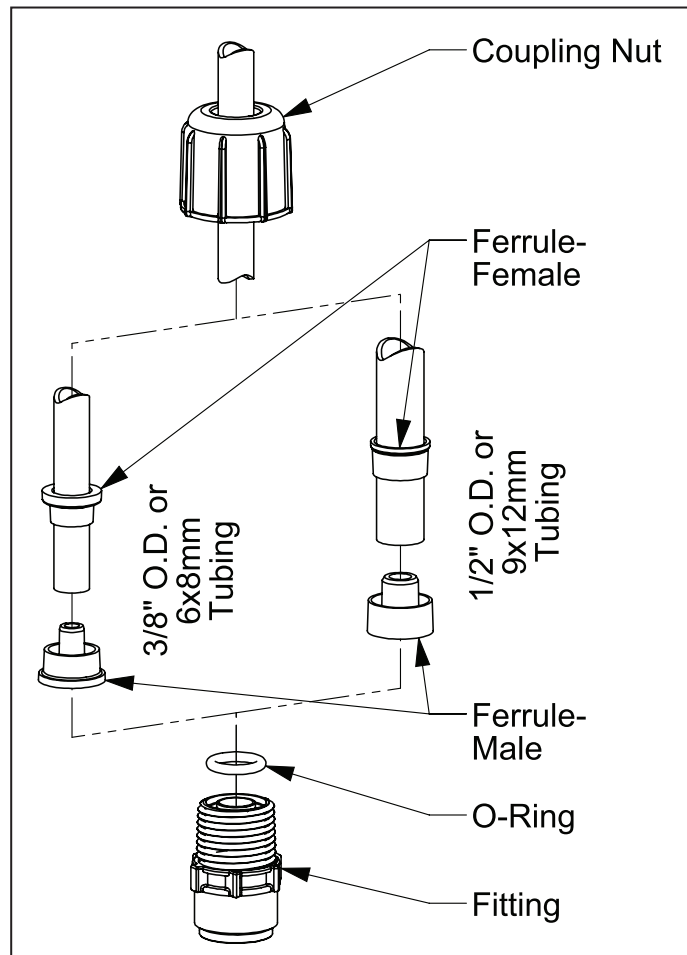


Figure 2

**Replacement Coupling Nuts and Ferrules are available in the following kit numbers:**

Kit #	LMI® Tubing Size	Contents
77378	3 × 6 mm	1 Coupling Nut, 1 Female Ferrule
77379	6 × 8 mm	1 Coupling Nut, 1 Male Ferrule, 1 Female Ferrule
77380	9 × 12 mm	1 Coupling Nut, 1 Male Ferrule, 1 Female Ferrule
77382	1/4"	1 Coupling Nut, 1 Female Ferrule
77383	3/8"	1 Coupling Nut, 1 Male Ferrule, 1 Female Ferrule
77384	1/2"	1 Coupling Nut, 1 Male Ferrule, 1 Female Ferrule

**Notes:**

- *Inch Ferrules are Yellow and Metric Ferrules are Black.*
- *One kit is needed for each tubing end.*

**PRECAUTIONS**



USE ONLY LMI® TUBING—ALWAYS use LMI® supplied tubing with your pump, as the fittings are specifically designed for use with the pump tubing.



If the pump is rated for more than 150 psi, you must use either LMI® 1/4" tubing (up to 250 psi) or pipe appropriate for your application.



DO NOT USE CLEAR VINYL TUBING ON THE DISCHARGE SIDE OF THE PUMP. The pressure created by the pump can rupture vinyl tubing, which is only for connection to the return line of the FASTPRIME™ fitting.



Before installation, all tubing must be cut with a clean square end.



Do not reuse the Ferrules - USE ONLY NEW FERRULES.



When connecting to rigid pipe, discard the Coupling Nut, Ferrules and O-ring. For optimal sealing, it is recommended to use 3 wraps of PTFE tape and PTFE thread sealant (rigid pipe connections only).



Valve and head connections from the factory are capped or plugged to retain pre-prime water. Remove and discard these caps or plugs before connecting tubing.



DO NOT USE PLIERS OR PIPE WRENCH ON COUPLING NUTS OR FITTINGS.

**Note:**

*Please consult your pump manual for additional precautions and instructions.*

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