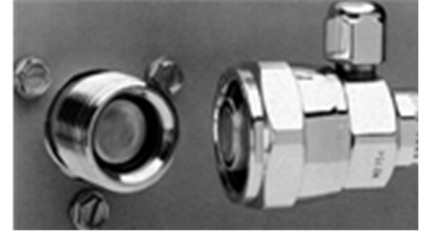


REMOTE SYSTEMS: LINE SET INSTALLATION INSTRUCTIONS

Step #1 Preparation: Remove the caps and plugs from the couplings only when ready to connect. Check threads for damage. With a clean cloth, wipe away any foreign material from the coupling threads and seating surfaces.

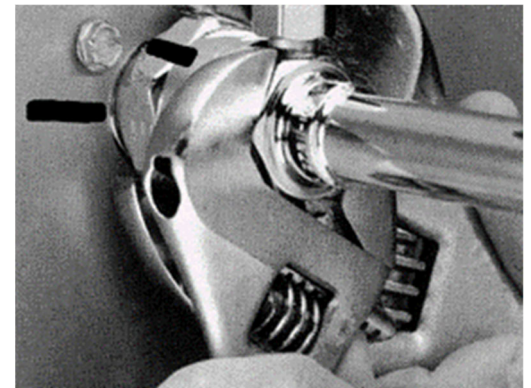


Step #2 Lubrication: Apply POE (polyol ester) refrigerant oil to the surfaces of the diaphragms, O-rings, and threaded areas of the couplings. Damage and leaks can occur if not properly lubricated. Tube of POE oil included with line sets and line set kits. A small applicator brush works well to apply lubricant liberally.

Step #3 Hand Tighten: Ensure that the coupling halves are held in proper alignment with each other prior to starting the threads. The coupling end faces should be parallel with each other and visually in line. Tighten by hand for the initial 2 - 3 rotations of the swivel nut. If it is too difficult to get started by hand, reposition the nut for proper alignment. Don't force the connection or cross-threading can occur.

Step #4 Wrench Tighten: The male coupling body is captured within the equipment by a mounting plate. Using two wrenches (reference Table #1) for the female coupling body and the female coupling swivel nut, tighten the swivel nut while preventing rotation of the female coupling body. As the swivel nut is tightened, the diaphragms will start to be pierced. There will be an increase in resistance. It is IMPORTANT that the coupling bodies DO NOT ROTATE during any portion of the installation or damage will occur. Continue to tighten the swivel nut until there is a definite increase in resistance, metal-to-metal contact occurs. At this point, the swivel nut will have covered most of the threads.

Step #5 Final Tighten: The final 1/4 turn (90° rotation) is necessary to ensure the formation of a leak-proof sealed connection between the two couplings. Using a permanent marker or scribe, mark a line lengthwise from the coupling swivel nut to either the bulkhead or coupling body. Then tighten an additional 1/4 turn (90° rotation); refer to the marking on the swivel nut to confirm. Don't overtighten.



Step #6 Leak Check: Once connections are made, it is CRITICAL to check them all for leaks.

Table #1 - Wrench Size			
Coupling Size	Female Coupling Body	Female Coupling Swivel Nut	Torque Values (Min – Max)
3/8" (-06)	5/8"	13/16"	10 - 12 ft/lbs
1/2" (-10)	1"	1- 5/16"	35 - 45 ft/lbs