

## INSTALLATION HINTS FOR HEAT PUMP HOSE

Heat pump hose connectors are designed to do a specific job and will give you excellent service if they are installed properly. Carelessness and lack of foresight can prove to be a costly error.

Install it correctly if you want it to work correctly.

1. Be sure to install it at exact normal free length as supplied. If connector is too long, shorten the piping.
  - a. Do **NOT** compress a flexible connector. Compression slackens the braid pressure restrainer, reduces further compressive movement and generally results in early failure.
2. Measure carefully to be sure connecting pipe is cut to the exact length needed.
  - b. Do **NOT** stretch the connector to fit a gap longer than its factory furnished length. Stretching places excessive residual stress on the braid and fittings causing rupture.
3. Make sure all bolt holes are perfectly lined up before welding the pipe flange into place. To ease matching bolt holes use a floating flange.
  - c. Do **NOT** force rotate one end of the connector to match bolt holes in mating flange. This causes residual torque stress in the connector which could lead to cracking of the corrugations or fitting joint. A flexible connector absorbs vibration or slow movement perpendicular to its axis. It is **NOT** capable of withstanding torque.
4. Where a hex male is provided, use it. If not, use the wrench on the fitting length provided. Always use two wrenches to keep the hose from being torqued as the joint is made up.
  - d. Do **NOT** impose torque on the connector or use a wrench on the ferrule or braid.  
Do **NOT** let welding sparks hit the braid. It may cause the braid strands to burn.  
Protect the braid with fire resistant cloth or place a non-flammable material in front of it when welding nearby.
5. Do **NOT** fail to anchor. Anchor piping close to the flexible connector, at end opposite of the source of vibration. If not, the hose will transmit all vibrations to the pipe line. Never anchor piping at the equipment end. If the hose is not securely anchored it will act like a spring and amplify the vibrations. Whenever possible, install the flexible connector to the pump, compressor or other vibrating equipment so that the vibration is absorbed and isolated.
6. Max temperature with:  
Stainless Steel End Fittings 1250°F  
Carbon Steel End Fittings 800°F  
Brass Nut End Fittings 450°F
7. When used in copper piping systems, stainless steel or brass nut end fittings must be used.