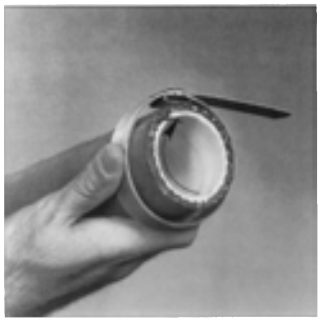
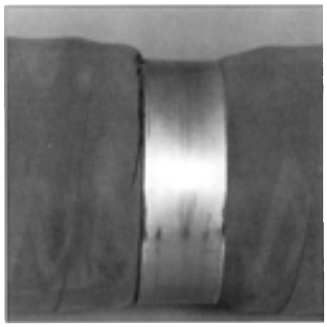
Couplings

General Information



Tighten clamps in the same direction as the helical wire.



Overtightened band

WARNING Do not overtighten coupling securing mechanisms. Doing so can cut the hose and cause leaks, spraying, and end blow-offs. This could lead to personal injury or death.

Installing Permanent Couplings

Permanent couplings are swaged, crimped or internally expanded onto the hose. Eaton is currently testing various couplings with Boston hose in order to make recommendations regarding assembly procedures. In the meantime, contact Eaton or the coupling and equipment manufacturers, or refer to the manufacturer's literature for further information.

Coupling Repair

The following items can be replaced on female cam and groove couplings: cam arms (handles), pins, rings, gaskets, and in some cases the ring/clip lock. To determine if the ring/clip or locking mechanism can be replaced, check with the coupling manufacturer.

To replace a cam arm, start by placing the coupling in a vise. Close the vise on the coupling body so that the vise jaws contact the coupling just below the cam arms. Make sure the cam arms are in full open position. Snug the vise securely.

CAUTION Do not tighten the vise excessively. Excessive vise pressure can distort the coupling.

Using a standard 1/4" round punch and a hammer or mallet, tap the cam arm pin through the cam arm and both lug holes. Holding onto the cam arm, remove the 1/4" round punch from cam arm lugs and lift out cam arm. Take the new cam arm pin and place either end into the cam arm lug hole. Using a hammer or mallet, gently tap the cam arm pin until it begins to enter the opening between the two cam arm lugs. Position the new cam arm between the two cam arm lugs and, with a hammer or mallet, gently tap the cam arm pin until it enters the hole in the cam arm. After the pin has entered that cam arm hole, continue tapping the pin until it is flush with the cam arm lug. Make sure the cam arm moves freely on the pin and that the pin fits snug in the lug holes.

Rings are replaced very easily. To take a ring off a cam arm, twist it off like you would take a key off of a key ring. The new ring is put on to the arm in the same fashion. When replacing a gasket, pull the old gasket out of the coupling with needle nose pliers. Next wipe the inside of the coupling where the gasket seats with a clean rag. Select a new replacement gasket that is the proper size and will meet the chemical compatibility requirements of the application. Finally, place the new gasket in the coupling so that it fits into the gasket recess and is seated flush against the coupling face.

Pressure test and tag any hose assembly that has been repaired.