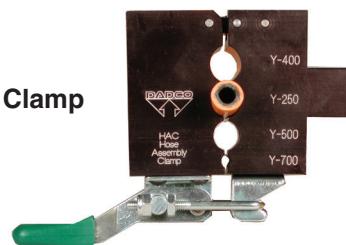


## Hose Assembly Construction Tools

**Mini Hose Cutter**  
**90.320.7**



**Hose Assembly Clamp**  
**HAC (90.320.6)**



## Hose Assembly Construction

### Hose Preparation

1. Measure hose.
2. Cut hose to appropriate length using the 90.320.7 Mini Hose Cutter (a sharp knife can also be used). It is important to use a sharp edge, because a clean cut is necessary.
3. No burrs should be present if a clean cut was made. However, if burrs are present remove them with a sharp knife.

### Fitting Preparation

1. Inspect the fitting to ensure no damage occurred during shipment.
2. Ensure the swivel nut is properly crimped, and turns freely.

### Assembly

1. Secure the HAC Hose Assembly Clamp in a bench vise by its tab.
2. Insert the hose up through the HAC, leaving enough hose extending up from the clamp to install the appropriate fitting (Figure 1).
3. Pull the lever to close the HAC (Figure 2). **See Reusable or Permanent Fitting Installation Instructions.**

### Permanent Fitting Installation

#### DADCOFLEX® 90.400 (Y-400), & 90.500 (Y-500) Only

1. Lightly tap the fitting onto the hose with a rubber mallet. Ensure the fitting rests snug against the shoulder. The guideline on the outside of the socket indicates the shoulder (Figure 3).
2. Open the HAC, and remove the hose assembly (hose and fitting).
3. The hose assembly is now ready to be crimped. See the hose information below to determine appropriate crimp die and ring.

### Permanent Fitting Installation

#### MINIFLEX® 90.700 (Y-700) Only

For use with 90.504.943, 90.504.954 and 90.504.959 hose adapters. For MINILink® Systems refer to bulletin B00109B.

1. Screw the ferrule onto the hose. Ensure the hose rests snug against the shoulder.
2. Tap the nipple with a rubber mallet until the hose end bottoms onto the hose (Figure 4).
3. Open the HAC, and remove the hose assembly.
4. The hose assembly is now ready to be crimped. See the hose information below to determine appropriate crimp die and ring.

**NOTE:** 90.700 (Y-700) hose assemblies with 90° hose adapters on each end must be crimped at the factory.

### Non-crimped Fitting Installation

#### DADCOFLEX® 90.500 (Y-500) Only

1. Lightly lubricate the OD of the hose end with DADCO's assembly oil.
2. Using a wrench, screw the socket onto the hose counterclockwise, ensuring the end of the hose rests snug up against the inside shoulder. Back off the socket a 1/4 turn clockwise (Figure 5).
3. Remove the HAC and hose assembly from the bench vise.
4. Place the hex portion of the fitting socket into the bench vise. Ensure the socket extends past the vise jaws enough to allow for installation of the nipple.
5. Using DADCO's assembly oil, lubricate the nipple and hose ID.
6. Using a wrench on the nipple hex, screw nipple into socket clockwise until nipple hex rests against socket shoulder (Figure 6). Do not tighten beyond that point.

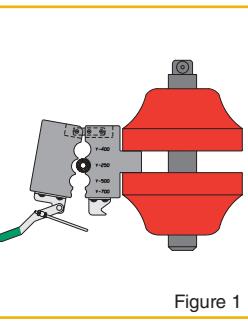


Figure 1

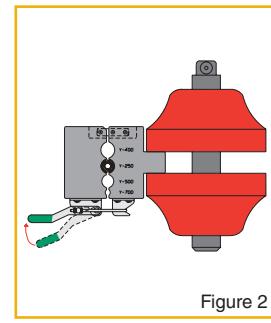


Figure 2

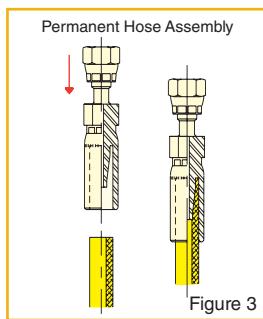


Figure 3

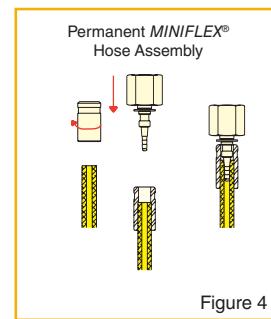


Figure 4

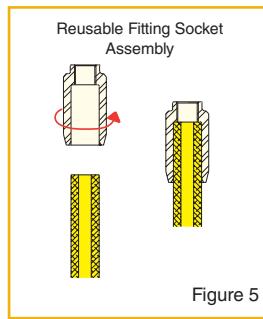


Figure 5

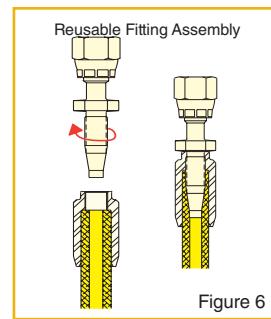


Figure 6

HOSE	CRIMP DIE	RING	CRIMP DIAMETER mm inch
90.400 (Y-400)	80C-P04 RED DIE	82C-R01 RING	14.22 - 14.73 .560 - .580
90.500 (Y-500)	80C-P03 GRAY DIE	82C-R01 RING	12.19 - 12.70 .480 - .500
90.700 (Y-700)	MINI-CRIMP - 90.710.8	NO RING REQUIRED	7 - 7.25 .276 - .285