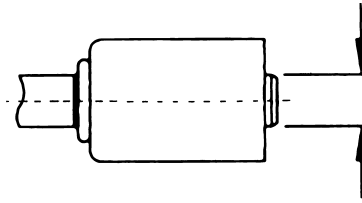


**AIR CONDITIONING**

**AIR CONDITIONING HOSE AND FITTING INFORMATION**

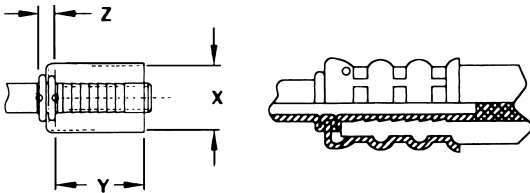
# Air Conditioning Hose & Fittings

To determine the hose size that a specific fitting is designated to fit, measure the outside diameter of the hose insert as shown below.



## Dimensional Information for Hose and Fittings Recommended Crimp for Hose Coupling

It is very important that a proper combination of hose, fittings, and crimp style be used to insure a coupling of high integrity. New SAE J0264 Coupling Integrity standards require that extensive testing be done on crimped hose assemblies to insure "leak-free" couplings that will be environmentally friendly. Testing done by the coupling manufacturer has shown that the old barb style fitting design, when coupled with wormgear clamps or even ferrules and "face crimped," will not pass these new coupling integrity performance requirements. The only fitting and crimp design which the manufacturer has found to meet these new SAE requirements are the "Beadlock style" fittings with a "bubble style" crimp. Both are illustrated below, along with a chart showing important details of the Beadlock style fitting design:



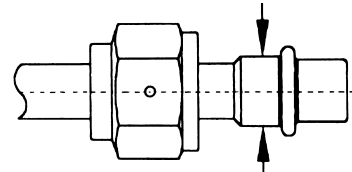
BEADLOCK FITTING DETAIL BUBBLE-STYLE CRIMP

## Fitting Sizes

Fitting sizes are identified generally as 6, 8, 10 and 12. These numbers come from 5/16", 3/16", 1/4" and 1/2", which generally identify the tube diameter at the point that it passes through the attached threaded nut. An illustration of this measurement and a chart of sizes are shown below:

FITTING SIZE		
TUBE O.D. (IN.)	FITTING SIZE	THREAD SIZE (IN.)
1/4 (.250)	4	7/16
3/8 (.375)	5	9/16
3/8 (.375)	6	5/8
3/8 (.375)	7	11/16
1/2 (.500)	8	3/4
5/8 (.625)	10	7/8
3/4 (.750)	12	1 1/16

NOTE: Metric threaded connections are not included in this sizing method.



## Recommended Standard Torque Specifications

FLARE CONNECTIONS		
TUBE O.D. (IN.)	THREAD SIZE (IN.)	(FT.) - (LBS.)
1/4	7/16	11-12
3/8	5/8	18-20
1/2	3/4	36-39
5/8	7/8	52-57
3/4	1 1/16	71-79

O-RING CONNECTIONS		
TUBE O.D. (IN.)	THREAD SIZE (IN.)	(FT.) - (LBS.)
1/4	7/16	5-7
3/8	5/8	11-13
3/8 - S	11/16	11-13
1/2	3/4	15-20
5/8	7/8	21-27
3/4	1 1/16	28-33

STEEL FERRULE (STD.)				
	#6 (IN.)	#8 (IN.)	#10 (IN.)	#12 (IN.)
x	0.760	0.925	1.032	1.150
y	1.250	1.250	1.250	1.250
z	0.250	0.250	0.250	0.250

## Hose Sizes

Air Conditioning hose size is determined by the inside diameter of the hose. All Beadlock style fittings in this catalog are designed to be coupled to two braid dimension hose ONLY. Hose sizes are also known by the "-6, -8, -10 and -12" number designations. The chart below shows hose ID's and their corresponding size number.

HOSE SIZES	
HOSE I.D. (IN.)	HOSE SIZE
5/16 (.312)	6
13/32 (.406)	8
1/2 (.500)	10
5/8 (.625)	12