

HYDRAULIC HOSE AND FITTING COMPATIBILITY

There are a number of SAE Standards that cover the performance requirements of hydraulic hose assemblies. Included are the J517, J516, and J343 Standards.

Hydraulic hose and assemblies that meet SAE J517 standards (i.e. SAE 100R1 and SAE 100R2) obviously need to be designed for and certified to the criteria defined by SAE. Those criteria include stringent dimensional tolerances (inside, outside, and braid diameters), compound, reinforcement types, length change, cold flexibility, ozone and heat resistance. There are also burst pressure and impulse requirements in J517. Those requirements are for coupled assemblies, and as SAE states, “the general and dimensional standards for hydraulic hose fittings are contained in SAE J516”.

SAE J343 is the standard that establishes “uniform methods for the testing and performance evaluation of the SAE 100R series of hydraulic hose assemblies”. Coupled assemblies are expected to meet or exceed SAE performance, if the SAE criteria described above are met.

The purpose of the SAE organization is to provide industry standards for a multitude of products. SAE J517, J516, and J343 provide those standards for fittings, hose, and coupled assemblies that are used in hydraulic systems.

HoseandFittings.Com’s HF HY Series couplings are manufactured to SAE J516 specifications and have been tested on hose assemblies to SAE requirements.

INFORMATION ON HoseandFittings.Com’s BITE-TO-THE-WIRE HF HY SERIES COUPLING

Our HF HY Series couplings can be used and will perform effectively to SAE specifications when crimped in a Dayco, Gates, Parker, Aeroquip, and many adjustable crimpers, providing the machine is in good condition.

Make certain that you are crimping to the HF HY Series specifications. The crimp O.D. should be checked after each initial set-up; just as it should be checked on all crimp machines and all couplings.

Our HF Hose End Supplier is a USA manufacturer and has been marketing hydraulic couplings, hose, and other hydraulic components since 1959 and has been marketing our HF HY Series line of crimp couplings since 2000. Our couplings are manufactured to SAE J516 specifications and have been tested on hose assemblies to SAE requirements.

HF HY Series Full Crimp

<u>Hose</u>	<u>Final Crimp</u>	<u>Hose</u>	<u>Final Crimp</u>
R1-AT-03	0.530	R2-AT-03	0.575
R1-AT-04	0.560	R2-AT-04	0.610
R1-AT-06	0.740	R2-AT-06	0.790
R1-AT-08	0.865	R2-AT-08	0.930
R1-AT-12	1.160	R2-AT-10	1.050
R1-AT-16	1.455	R2-AT-12	1.210
R1-AT-20	1.785	R2-AT-16	1.520
		R2-AT-20	1.870
R16-04	0.560	R17-04	0.535
R16-06	0.740	R17-06	0.715
R16-08	0.865	R17-08	0.835
R16-12	1.160	R17-10	1.015
R16-16	1.455	R17-12	1.160
		R17-16	1.425