Government Minimum Specifications
Convoluted Metal Flexible Hose Assemblies
8/26/14

Revised Sept. 2, 2014

BACKGROUND.

Hose assemblies are required that meet this Government Minimum Specification and are to consist of an annular corrugated metal pressure carrier with external braided wire reinforcement and end fittings. The nominal hose assembly inner diameters range from ¼ inch to 1-1/2 inches. Specifications of the items are as described below.

All applicable codes are listed in Appendix A.

SPECIFICATIONS.

Performance Characteristics.

The capabilities of the hose assemblies supplied under this document shall equal or exceed the requirements in the subsequent paragraphs.

Service. The hose assembly shall be compatible with liquid R134a.

Operating Pressure. The hose assemblies' maximum allowable working pressure (MAWP) shall not be less than that specified in Table 1.

Proof Pressure. The hose assembly shall withstand initial proof testing without visual evidence of permanent deformation of either the fluid carrier or braided reinforcement.

Leakage. - Leakage of hose assemblies shall not exceed 1 X 10-7 standard cubic centimeters per second of helium (SCC/S GHe) using a Helium Mass Spectrometer Leak Detector (HMSLD).

Operating Temperature. The hose assemblies shall be capable of continuous operation over a temperature range of - 65° Fahrenheit (F) to + 200° F. without degradation or failure due to temperature extremes.

Flow. The hose assembly shall be capable of withstanding, without any damage to the assembly, a minimum flow velocity of 75 ft. / sec. for liquids.

Physical Characteristics.

Length. The hose assembly shall be furnished in lengths as specified by the description of each item within each line item. The hose length shall be measured as shown in Figure 1 and Figure 2 which depicts two different configurations of hoses that shall be measured. The hose assembly shall not consist of spliced or separate sections of hose assemblies that are joined/welded together.

Amendment No. 1
Sept. 2, 2014