

pneumatic systems, subject to the limits of paragraphs (a)(1) through (4) of this section. Unreinforced hoses are limited to a maximum service pressure of 345 kPa (50 psi); reinforced hoses are limited to a maximum service pressure of 1,034 kPa (150 psi).

(4) Nonmetallic flexible hose may be used in lube oil, fuel oil and fluid power systems only where flexibility is required and in lengths not exceeding 30 inches.

(5) Nonmetallic flexible hose must be complete with factory-assembled end fittings requiring no further adjustment of the fittings on the hose, except that field attachable type fittings may be used. Hose end fittings must comply with SAE J1475 (incorporated by reference; see 46 CFR 56.01-2). Field attachable fittings must be installed following the manufacturer's recommended practice. If special equipment is required, such as crimping machines, it must be of the type and design specified by the manufacturer. A hydrostatic test of each hose assembly must be conducted in accordance with § 56.97-5 of this part.

(6) The fire-test procedures of ISO 15540 (incorporated by reference; see 46 CFR 56.01-2) are an acceptable alternative to those procedures of SAE J1942. All other tests of SAE J1942 are still required.

(c) Plastic valves, fittings, and flanges may be used in systems employing plastic pipe. Such valves, fittings, and flanges shall be designed, fabricated, tested, and installed so as to satisfy the intent of the requirements for plastic pipe contained in this section.

(d) If it is desired to use nonmetallic materials other than those specified in this section, a request furnishing the chemical and physical properties of the

material shall be submitted to the Commandant for consideration.

[CGFR 68-82, 33 FR 18843, Dec. 18, 1968, as amended by CGFR 69-127, 35 FR 9979, June 17, 1970; CGD 72-104R, 37 FR 14234, July 18, 1972; CGD 73-254, 40 FR 40165, Sept. 2, 1975; CGD 77-140, 54 FR 40613, Oct. 2, 1989; CGD 88-032, 56 FR 35822, July 29, 1991; CGD 83-043, 60 FR 24775, May 10, 1995; CGD 95-072, 60 FR 50462, Sept. 29, 1995; CGD 96-041, 61 FR 50728, Sept. 27, 1996; CGD 95-028, 62 FR 51201, Sept. 30, 1997; USCG-2002-13058, 67 FR 61278, Sept. 30, 2002; USCG-2003-16630, 73 FR 65183, Oct. 31, 2008]

### Subpart 56.65—Fabrication, Assembly and Erection

#### § 56.65-1 General (replaces 127 through 135).

The requirements for fabrication, assembly and erection in subparts 56.70 through 56.90 shall apply in lieu of 127 through 135.4 of ASME B31.1 (incorporated by reference; see 46 CFR 56.01-2). Those paragraphs reproduced are so noted.

[USCG-2003-16630, 73 FR 65184, Oct. 31, 2008]

#### § 56.70-1 General.

(a) The following generally applies to all types of welding, such as stud welding, casting repair welding and all processes of fabrication welding. Where the detailed requirements are not appropriate to a particular process, alternatives must be approved by the Marine Safety Center.

[CGD 77-140, 54 FR 40614, Oct. 2, 1989]

#### § 56.70-3 Limitations.

Backing rings. Backing strips used at longitudinal welded joints must be removed.

[CGD 73-254, 40 FR 40165, Sept. 2, 1975]

#### § 56.70-5 Material.

(a) *Filler metal.* All filler metal, including consumable insert material, must comply with the requirements of section IX of the ASME Boiler and Pressure Vessel Code (incorporated by reference; see 46 CFR 56.01-2) and 46 CFR 57.02-5.

(b) *Backing rings.* When metallic backing rings are used they shall be made from material of weldable quality compatible with the base metal,