

failure of the valve in a fire would prevent the vital system(s) from functioning as designed.

(iii) Valves providing closure for any opening in the shell of the vessel.

(3) *Category B valves.* The closed valve will not provide effective closure of the line or will permit appreciable leakage from the valve after the resilient material is damaged or destroyed. Category B valves are not required to be tested and may be used in any location except where a Category A or positive shutoff valve is required.

(c) If a valve designer elects to use either calculations or actual fire testing in lieu of material removal and pressure testing, the proposed calculation method or test plan must be accepted by the Commandant (G-MSE).

[CGD 95-028, 62 FR 51200, Sept. 30, 1997]

§ 56.20-20 Valve bypasses.

(a) Sizes of bypasses shall be in accordance with MSS-SP-45.

(b) Pipe for bypasses should be at least Schedule 80 seamless, and of a material of the same nominal chemical composition and physical properties as that used for the main line. Lesser thickness may be approved depending on the installation and service conditions.

(c) Bypasses may be integral or attached.

Subpart 56.25—Pipe Flanges, Blanks, Flange Facings, Gaskets, and Bolting

§ 56.25-5 Flanges.

Flanges must conform to the design requirements of the applicable standards of Table 56.60-1(b) of this part or Appendix 2 of section VIII of the ASME Code. Plate flanges must meet the requirements of § 56.30-10(b)(5) of this part and the material requirements of § 56.60-1(a) of this part. Flanges may be integral or may be attached to pipe by threading, welding, brazing, or other means within the applicable standards specified in Table 56.60-1(b) of this part and the requirements of this subpart. For flange facing gasket combinations other than those specified above, calculations must be submitted indicating that the gaskets will not result in a

higher bolt loading or flange moment than for the acceptable configurations.

[CGD 77-140, 54 FR 40605, Oct. 2, 1989, as amended by USCG-2002-13058, 67 FR 61278, Sept. 30, 2002]

§ 56.25-7 Blanks.

(a) Blanks shall conform to the design requirements of 104.5.3 of ANSI-B31.1.

[CGFR 68-82, 33 FR 18843, Dec. 18, 1968, as amended by CGFR 69-127, 35 FR 9978, June 17, 1970]

§ 56.25-10 Flange facings.

(a) Flange facings shall be in accordance with the applicable standards listed in Table 56.60-1(b) and MSS-SP-6.

(b) When bolting class 150 standard steel flanges to flat face cast iron flanges, the steel flange must be furnished with a flat face, and bolting must be in accordance with § 56.25-20 of this part. Class 300 raised face steel flanges may be bolted to class 250 raised face cast iron flanges with bolting in accordance with § 56.25-20(b) of this part.

[CGFR 68-82, 33 FR 18843, Dec. 18, 1968, as amended by CGD 77-140, 54 FR 40605, Oct. 2, 1989]

§ 56.25-15 Gaskets (reproduces 108.4).

(a) Gaskets shall be made of materials which are not injuriously affected by the fluid or by temperature.

(b) Only metallic and suitable asbestos-free nonmetallic gaskets may be used on flat or raised face flanges if the expected normal operating pressure exceeds 720 pounds per square inch or the operating temperature exceeds 750 °F.

(c) The use of metal and nonmetallic gaskets is not limited as to pressure provided the gasket materials are suitable for the maximum fluid temperatures.

[CGFR 68-82, 33 FR 18843, Dec. 18, 1968, as amended by CGD 86-035, 54 FR 36316, Sept. 1, 1989]

§ 56.25-20 Bolting.

(a) *General.* (1) Bolts, studs, nuts, and washers must comply with applicable standards and specifications listed in § 56.60-1 of this part. Unless otherwise specified, bolting must be in accordance with ANSI B16.5.