Coast Guard, Dept. of Homeland Security

§ 56.20–15 Valves employing resilient material.

(a) A valve in which the closure is accomplished by resilient nonmetallic material instead of a metal to metal seat shall comply with the design, material, construction and testing for valves specified in this part.

(b) Valves employing resilient material shall be divided into three categories, Positive shutoff, Category A, and Category B, and shall be tested and used as follows:

(1) Positive shutoff valves. The closed valve must pass less than 10 ml/hr (0.34 fluid oz/hr) of liquid or less than 3 l/hr (0.11 cubic ft/hr) of gas per inch nominal pipe size through the line after removal of all resilient material and testing at full rated pressure. Packing material must be fire resistant. Piping subject to internal head pressure from a tank containing oil must be fitted with positive shutoff valves located at the tank in accordance with §56.50–60(d). Otherwise positive shutoff valves 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 a calculation or actual fire testing instead of material removal and pressure testing, the calculation must employ ISA-S75.02 (incorporated by reference; see 46 CFR 56.01–2) to determine the flow coefficient (Cv), or the fire testing must be conducted in accordance with API 607 (incorporated by reference; see 46 CFR 56.01–2).

§ 56.20–20 Valve bypasses.

(a) Sizes of bypasses shall be in accordance with MSS SP–45 (incorporated by reference; see 46 CFR 56.01–2).

(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.

§ 56.25–5 Flanges.

Each flange must conform to the design requirements of either the applicable standards of Table 56.60–1(b) of this part, or of those of Appendix 2 of section VIII of the ASME Boiler and Pressure Vessel Code (incorporated by reference; see 46 CFR 56.01–2). Plate