

Kansas Administrative Regulations

Department of Labor

Article 51.—High Pressure Boilers

49-51-11. Blowoff connection.

(a) The construction of the setting around each blowoff pipe shall permit free expansion and contraction. These setting openings shall be sealed without restricting the movement of the blowoff piping.

(b) All blowoff piping exposed to furnace heat shall be protected by fire brick or other heat-resistant material constructed to provide access to the piping for inspection.

(c) Each boiler shall have a blowoff pipe that is fitted with a valve or cock that is directly connected to the lowest water space. Each cock shall be a gland or guard cock and shall be suitable for the pressure allowed. Globe valves shall not be used. If the maximum allowable working pressure of the boiler exceeds 100 psig, each blowoff pipe shall be provided with either two valves or a valve and a cock.

(d) If the maximum allowable working pressure of the boiler exceeds 100 psig, the portion of the boiler's blowoff piping from the boiler to the valve or valves shall consist of extra heavy steel. The blowoff piping shall be full size, and reducers or bushings shall not be used in the piping. The piping shall not be galvanized.

(e) All fittings between the boiler and blowoff valve shall consist of steel. If blowoff pipes or fittings are renewed, they shall be installed in accordance with the regulations for new installations contained within these regulations.

(f) Each blowdown from a boiler or boilers that enters a sanitary sewer system and any blowdown that is determined by the chief boiler inspector to be a hazard to life or property shall pass through some form of blowoff equipment that will reduce pressure and temperature as required in this subsection.

(1) The temperature of the water leaving the blowoff equipment shall not exceed 140° F.

(2) The pressure of the blowdown leaving any type of blowoff equipment shall not exceed 5 psig.

(3) The blowoff piping and fittings between the boiler and the blowoff tank shall meet the requirements of paragraphs PG-58 and PG-59 of the ASME boiler and pressure vessel code, section I, as adopted in K.A.R. 49-45-1.

(4) All materials used in the fabrication of boiler blowoff equipment shall meet the requirements of the material specifications in section II of the ASME boiler and pressure vessel code, as adopted in K.A.R. 49-45-2, K.A.R. 49-45-3, K.A.R. 49-45-4, and K.A.R. 49-45-4a.

(5) Blowdown tanks shall be constructed to meet the requirements of section VIII of the ASME code, rules for the construction of pressure vessels, division I, as adopted in K.A.R. 49-45-29, K.A.R. 49-45-30, and K.A.R. 49-45-31.

(6) All blowoff equipment shall be fitted with openings to facilitate cleaning and inspection.

(7) All blowoff equipment shall be installed in accordance with "a guide for blowoff vessels," 2004 edition, NB-27, rev. 2, which is hereby adopted by reference.

(Authorized by and implementing K.S.A. 44-916; effective May 1, 1987; amended April 28, 2000; amended Nov. 3, 2006.)

***** Authenticated Kansas Administrative Regulation *****