

Kansas Administrative Regulations

Department of Labor

Article 51.—High Pressure Boilers

49-51-7. Boiler feeding.

(a) Each boiler shall have a feed supply that will permit it to be fed at any time while under pressure.

(b) Each boiler having more than 500 square feet of water-heating surface shall have at least two suitable means of feeding, at least one of which shall be a feed pump. A source of feed at a pressure three percent greater than the set pressure of the safety valve with the highest setting may be considered one of the means. Boilers fired by gaseous, liquid, or solid fuel in suspension may be equipped with a single means of feeding water, if means are furnished for the shutoff of heat input before the water level reaches the lowest safe level.

(c) The feedwater shall be introduced into the boiler in a manner preventing it from discharge close to riveted joints of shell or furnace sheets, directly against surfaces exposed to products of combustion, or to direct radiation from the fire.

(d) The feed piping to the boiler shall be provided with a check valve near the boiler and a valve or cock between the check valve and the boiler. When two or more boilers are fed from a common source, there shall also be a valve on the branch to each boiler between the check valve and the source of supply. Whenever a globe valve is used on feed piping, the inlet shall be under the disk of the valve.

(e) In all cases in which returns are fed back to the boiler by gravity, there shall be a check valve and stop valve in each return line. The stop valve shall be placed between the boiler and the check valve. Both shall be located as close to the boiler as is practicable.

(f) If deaerating heaters are not employed, the temperature of the feedwater shall not be less than 120 degrees F to avoid the possibility of setting up localized stress. If deaerating heaters are employed, the minimum feedwater temperature shall not be less than 215 degrees F so that dissolved gases may be thoroughly released.

(Authorized by and implementing K.S.A. 1998 Supp. 44-916; effective May 1, 1987;
amended April 28, 2000.)

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