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Exception: The test outlet control valves shall be supervised closed.

2-12* Protection of Piping Against Damage Due to Movement. A clearance of not less than 1 in. (25.4 mm) shall be provided around pipes that pass through walls or floors.

2-13 Relief Valve.

2-13.1 Pumps connected to adjustable-speed drivers shall be equipped with a listed relief valve. Where pumps are driven by constant-speed motors and the pump shutoff pressure plus the static suction pressure exceeds the pressure for which the system components are rated, relief valves are required.

Exception: Pumps supplying only standpipe systems do not generally require relief valves.

2-13.2 The relief valve shall be set to prevent pressure on the fire protection system greater than it can withstand.

2-13.3 The relief valve size shall not be less than that given in Table 2-20. (Refer also to 2-13.9 and A-2-13.9 for conditions affecting size.)

2-13.4 The relief valve shall be located between the pump and the pump discharge check valve and shall be so attached that it can be readily removed for repairs without disturbing the piping.

2-13.5 Pressure relief valves are of two types: (1) the spring-loaded and (2) the pilot-operated diaphragm type.

2-13.5.1 Pilot-operated pressure relief valves, where attached to vertical shaft turbine pumps, shall be arranged to prevent relieving of water at water pressures less than the pressure relief setting of the valve.

2-13.6* The relief valve shall discharge into an open pipe or into a cone or funnel secured to the outlet of the valve. Water discharge from the relief valve shall be readily visible or easily detectable by the pump operator. Splashing of water into the pump room shall be avoided. If a closed-type cone is used, it shall be provided with means for detecting motion of water through the cone. If the relief valve is provided with means for detecting motion (flow) of water through the valve, then cones or funnels at its outlet shall not be required.