

PART E.—FIRE DETECTION AND EXTINCTION IN PASSENGER SHIPS AND CARGO SHIPS

(Part E applies to passenger ships and cargo ships except that Regulation 50 applies only to passenger ships and Regulation 51 applies only to cargo ships)

NOTE.—Regulations 45 to 49 inclusive set forth the conditions with which the appliances mentioned in Regulations 50 and 51 are required to comply

Regulation 45

Pumps, Water Service Pipes, Hydrants and Hoses

(a) Fire pumps shall be independently driven. Sanitary, ballast, bilge or general service pumps may be accepted as fire pumps. In any ship the capacity of the pumps designated for fire-fighting purposes shall be at least two-thirds the capacity of the bilge pumps required for the particular ship. Each pump shall be capable of producing at least the two powerful jets to which reference is made in these Regulations. The throw at any nozzle shall be about 40 feet (or 12 metres).

(b) Relief valves shall be provided in connection with all fire pumps. These valves shall be so placed and adjusted as to prevent excessive pressure in any part of the fire main system.

(c) The diameter of the water service pipes shall be sufficient to ensure an adequate supply of water for the simultaneous operation of at least two fire hoses, and shall be based on the required capacity of the pumps designated for fire-fighting purposes.

(d) The number and position of the hydrants shall be such that at least two streams of water, one of which shall be from a single length of hose, may be directed into any part of the ship.

(e) The pipes and hydrants shall be so placed that the fire hoses may be easily coupled to them. In ships where deck cargo may be carried, the positions of the hydrants shall be such that they are always readily accessible and the pipes shall be arranged as far as practicable to avoid risk of damage by such cargo.

(f) Cocks or valves shall be fitted in such positions on the pipes that any of the fire hoses may be removed while the fire pumps are at work.

(g) Fire hoses shall be of material approved by the Administration, and sufficient in length to project a jet of water to any of the spaces in which they may be required to be used. They shall be provided with the necessary fittings. The internal diameter of the nozzle shall be not less than $\frac{1}{2}$ inch (or 12 millimetres).

(h) Hoses specified in these Regulations as "fire hoses" shall, together with any necessary fittings and tools, be kept ready for use in conspicuous positions near the water service hydrants or connections.