

Abstract

Fire-fighting system for car tunnels

The fire-fighting system consists of a stationary extinguishing apparatus which is constituted by a locally activatable water-spray extinguishing apparatus (7 - 13). The said water-spray extinguishing apparatus (7 - 13) has a main supply line (8), a water reserve, nozzles (9) connected to the said main supply line (8) via sector valves (7), and a gas pressure reservoir (10) for a propellant gas for delivering the water to the said nozzles (9). The water reserve is constituted by the main supply line (8).

A detection apparatus (2, 3; 6) for locally precise fire detection is also provided. The tunnel (1) to be protected is subdivided into extinguishing sectors with a minimum length of 25 to 30 m; when the detection apparatus (2, 3; 6) responds, activation of the water-spray extinguishing apparatus (7 - 13) takes place in the extinguishing sector concerned and in the two immediately adjoining extinguishing sectors.

(Figure 1)