

Article 84

Nozzles for total flooding of CO₂ and Inert Gas Fire Extinguisher agents shall be equipped pursuant to the following provisions:

1. Nozzles shall be capable of quickly spraying the agent and evenly distributing it into the entire protected area.
2. Discharge pressure of nozzle shall comply with the following regulations:
 - (1) Spraying pressure of carbon dioxide nozzles shall be at least 14kgf/cm² or 1.4Mpa when the fire-extinguishing medium is stored at normal temperature, and at least 9kgf/cm² or 0.9Mpa when the medium is stored at below -18°C.
 - (2) Spraying pressure of Inert Gas nozzles shall be at least 19kgf/cm² or 1.9Mpa. This is exempted for those otherwise approved by the central authorities.
 - (3) Quantity and type of nozzles shall be provided based on flow calculation.
3. Spraying duration of the fire extinguishing agent shall be determined according to the following regulations:
 - (1) The CO₂ fire extinguishing agent calculated pursuant to 83.1 shall be fully sprayed out for a specified duration in places listed in the table below. At least 30% discharge shall be discharged within 2 minutes for dry electrical machine rooms.

Installation Place	Dry Electrical Machine Room (except for oil emersed machine)	Telecom machine room, Switchboard Room	Other
Duration (min.)	7	3.5	1

- (2) Inert gas Dose calculated in Subparagraph 1 of the previous Article shall be discharged at least 90% within 2 minutes, except for locations containing flammable liquids where at least 90% shall be discharged within 1 minute.

Nozzles for local spraying of CO₂ fire extinguishing systems shall be provided according to the following regulations:

1. Nozzle spray pressure shall comply with Subparagraph 2, Item 1 specifications of the previous Paragraph.
2. Effective range of nozzles shall cover all surfaces of the protected object, and the locations shall ensure the flammable substance will not spread outside due to the spraying of agent.
3. The quantity of fire extinguishing medium calculated under Article 83, Subparagraph 2 shall be fully sprayed out in 30 seconds.