

3.3.4 CO₂ Discharge Rate

For machinery spaces, the fixed piping system is to be such that 85% of the gas can be discharged into the space within 2 minutes. This may be verified by calculations.

3.3.5 Controls (1 July 2002)

Precautions are to be made to prevent the inadvertent release of CO₂ into spaces which are normally manned. For this purpose, the following arrangements are to be complied with:

- i) *Two separate controls are to be provided at each release location for releasing CO₂ into a protected space and to ensure the activation of the alarm. One control is to be used for opening the valve of the piping which conveys the gas into the protected space and a second control is to be used to discharge the gas from its storage containers.*
- ii) *The two controls are to be located inside a release box clearly identified for the particular space. If the box containing the controls is to be locked, a key to the box is to be in a break-glass type enclosure conspicuously located adjacent to the box.*
- iii) (2005) Systems are to be designed so that opening of the door to a CO₂ release mechanism will not cause an inadvertent blackout condition in machinery spaces.