RECHARGING OF FIXED FIRE SUPPRESSION SYSTEMS ON MOBILE EQUIPMENT

Routine maintenance of mobile equipment, fitted with fixed fire suppression systems, may necessitate the discharge and recharge of the fire suppression systems in accordance with the equipment suppliers service manuals.

In recharging a fire suppression system it is normal practice to use nitrogen bottles which contain pressures up to 25 MPa (3625 p.s.i.) whilst the design pressure of the suppression system is usually 1.2 MPa (174 p.s.i.).

To carry out the recharging process safely the following minimum requirements must be observed:

(i) The nitrogen bottle must be fitted with a correctly rated pressure regulator properly set at the required recharge pressure.

(ii) A correctly calibrated pressure gauge must be fitted in the recharging line, after the regulator.

(iii) A safety pressure relief valve must be fitted, in the recharging line between the pressure gauge and the connection to the fire suppression system. The relief valve should be set to "open" at a pressure not greater than 110% of the required recharging pressure of the system.

Failure to observe the above requirements can result in very serious or fatal injuries to personnel in the immediate area of the recharging process.

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