GARNET
FIRE SOLUTIONS

GARNET541



Garnet541™ Engineered Fire Suppression systems are designed for total flooding in accordance with NFPA 2001 "Standard on Clean Agent Fire Extinguishing Systems". It consist of inert gas extinguishing agent: IG-541 (52% Nitrogen, 40% Argon, 8% Carbon Dioxide).

Inert gas is pressurized and stored in seamless cylinders assembly which hold at 200bar/300 bar at 15°C (2900psi/4351psi at 59°F). GEM541™ systems are ideal for total flooding applications to suppress Class A, B and C hazards. The main extinguishing mechanism of inert gas is by lowering the oxygen content below the level that supports combustion.



Inert Gas Suppression Agent

Garnet541 agent has a slightly higher density than air, upon discharge it completely fills the enclosure and tends to remain in its middle and bottom area. It is suitable for places where there is a risk of fire in any part of the enclosure, especially towards the lower part of the room and on the protected equipment. Likewise, it can achieve great heights and distances due to its high storage pressure.

BENEFIT

- Natural gas present in the atmosphere
- Zero Ozone Depletion Potential
- Electrically non-conductive
- No greenhouse effect
- No decomposition products

01

Discharge Nozzle



Discharge nozzles are designed to discharge GARNET541™ agent from the cylinders upon activation. Nozzles are available in 180° and 360°. The system design determines the type of nozzles suitable for proper flow rate and distribution pattern.

***FM tested*

02

Pneumatic Actuator



Pneumatic actuator is designed to be used and installed with for pneumatically actuation. The pneumatic actuator features a pneumatically driven piston that used to depress the valve core and opening the valve.

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03

Pneumatic Manual Actuator

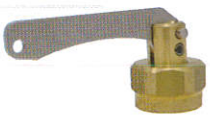


Pneumatic Manual actuator is designed to be used and installed with solenoid valve for mechanically or pneumatically actuation

***FM tested*

04

Manual Actuator



The manual actuator is designed to be used and installed with solenoid valve for mechanically actuation. Safety pin is provided with every actuator to prevent accidental discharge. Manual actuator features retractable pin which reset when level back to original position.

***FM tested*

05

Valve Assembly



Valve operates by means of pressure differential piston. The valves incorporated with the features to enable it to be connected with manual and pneumatic actuator for actuation purpose. There are 2 types of valves; Discharge valve and Solenoid discharge valve.

***FM tested*

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