GARNET
FIRE SOLUTIONS

GARNET100



GARNET100 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-100 (100% Nitrogen).

Inert gas is pressurized and stored in seamless cylinders assembly which hold at 200bar/300 bar at 15°C (2900psi/4351psi at 59°F). GARNET-100 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

GARNET100 agent has a slightly lower density than air, upon discharge it completely fills the enclosure and tends to remain in its middle and upper area. It is suitable for places where there is a risk of fire in any part of the enclosure, especially towards the top, false ceilings or where possible agents' leakage at the bottom. 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 Garnet100 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.

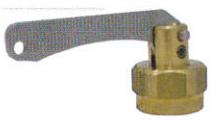
***FM tested*



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*



All Rights Reserved, 2023. Utusan Deria Sdn. Bhd. reserves the right to change any specifications or information published in this brochure without prior notice.