



FE-13™

Fire Suppression System

FE-13™

(TRIFLUOROMETHANE)

developed by DuPont is a Clean Agent Fire Suppression System for protecting high-value assets from fire where an electrically non-conductive agent is required. Allows normal operations to be resumed quickly with no collateral damage. Safe for use in occupied spaces.

FE-13™ (Trifluoromethane) is a compound of carbon, fluorine, hydrogen (CFC3). It is colorless, odorless and electrically non-conductive. It suppresses fire through a combination of chemical and physical mechanism with minimal effect on the available oxygen. This allows people to see and breathe, permitting them to leave the area safely. FE-13™ is acceptable for use in occupied space when used in accordance with the United States Environmental Protection Agency (EPA) Significant New Alternatives Policy (SNAP) program rules.



No EPA Restriction

FE-13™ contains no chlorine or bromine and its ozone depletion potential is zero. It has low atmospheric lifetime earning FE-13™ an “acceptable” rating from the U.S. EPA with no usage restriction

Application

- Industrial high-ceiling spaces
- Data centres
- Telecommunications facilities
- Offshore oil platforms
- Oil and gas processing facilities
- Pumping stations

GEMTEX SDN BHD

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Certification & Approval



FE-13™ CYLINDERS			
SPECIFICATIONS			
DESCRIPTIONS	CYLINDER SIZE		
	24L	50L	80L
Max. FE-13™ Filled	20Kg	42Kg	68Kg
Weight of empty cylinder	33-34Kg	68-69Kg	90-92Kg
Height	1085mm	1555mm	1690mm
Outer diameter	178mm	232mm	297mm
Material	4130X (30CrMo)		
Type of gas	HFC 23 (FE-13™)		
Cylinder colour	Red (RAL-3000)		
Manufacturing process	Pipe spun type		
Wall thickness	Nom. 7mm		
Working pressure (20°C)	46 Bar		
Test pressure	250 Bar		
Pressure resistant test	24.52 Mpa (Approved for high pressure gas)		
Manufacturing standard	DOT 3AA		



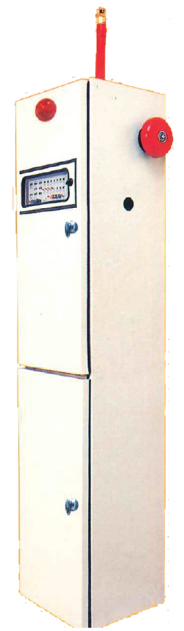
FE-13™ CYLINDERS

VALVE ASSEMBLY	
SPECIFICATIONS	
Manufacturer	Gemtex
Material	Brass
Size available	25mm, 32mm
Outlet size	1" BSP, 1 1/4" BSP
Body proof pressure	300 Bar
Safety disc	220 Bar

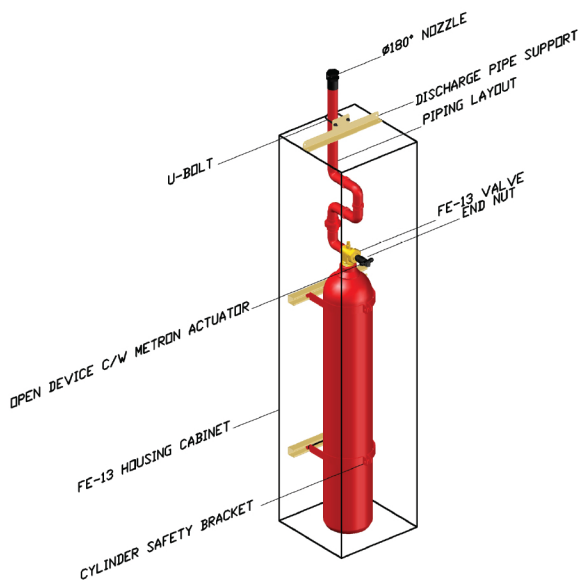


VALVE ASSEMBLY

HOUSING CABINET	
SPECIFICATIONS	
Material	1.8mm x cold rolled steel sheet
Finishing	Colour (Beige) Code 9430 Epoxy Powder Coated
Dimension	1" BSP, 1 1/4" BSP



HOUSING CABINET



AGENT PHYSICAL PROPERTIES

FE-13

Chemical Structure	CHF3
Chemical Name	Trifluoromethane
Molecular Weight	70.02 g/mol
Fusion Temperature	-155 °C
Boiling Point at 1.013 milibar	-82.0°C
Liquid Density at 25°C	0.67 kg/dm ³
Saturated Vapor Density at Boiling Point	4.67 kg/dm ³
Vapor Tension 25°C	47.29 Bar
Critical Temperature	25.9 °C
Critical Absolute Pressure	48.3 Bar
NOAEL - No observed adverse effect level	30%
LOAEL - Lowest observed adverse effect level	>30%

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