

# **WORLD FIRE SAFETY SYSTEM**

**Fire extinguisher spare part manufacturer  
and dealers of fire extinguisher**



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## **Our service**

1. Fire extinguisher new
2. Fire extinguisher refilling
3. Fire hydrant system new installation
4. Fire hydrant system maintenance
5. Fire alarm system
6. Fire alarm system maintenance
7. Fire NOC
8. Form B





# About Us

**WORLD FIRE SAFETY SYSTEM** is a leading provider of design, supply, installation, testing, and commissioning of fire & safety systems. Rosal Safety commit to deliver high quality of fire extinguishers and other fire safety products.

With a team of highly skilled professionals, we ensure that our clients receive top-quality solutions tailored to their specific needs. Our services also include annual maintenance of fire systems to ensure optimal performance and compliance with safety regulations.

We understand the importance of fire safety and strive to provide reliable, efficient, and cost-effective solutions. Committing to integrity & independence and accountability add value to clients as an objective source of advice and assurance.

Trust Rosal Safety for all your fire and safety product needs. With the goal of empowering lives to safety, we here commit ourselves towards the need of New World.

We have successfully introduced innovative fire safety products to the market, time after time.

## Vision Statement

"A safer world through innovation, education, and excellence in fire protection and safety solutions."

## Mission Statement

"To protect lives, property, and the environment by providing top-tier fire safety services and products. We are committed to excellence, continuous improvement, and fostering a culture of safety through education, training, and cutting-edge technology."



ABC Valve wit Guages



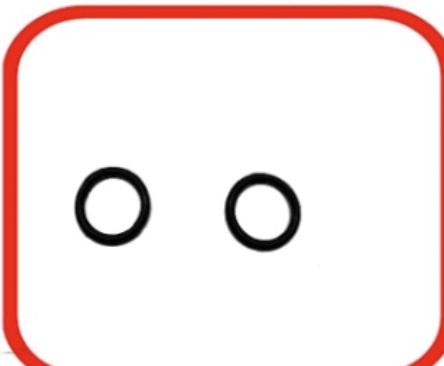
ABC Boday Belt (Black)



ABC Boday Belt (Yellow)



ABC Spindle Washer



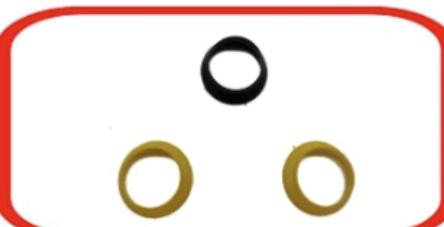
ABC Valve O'ring.



PVC Nozzle



PVC Nozzle



ABC Neck ring



Co2 Rubber grip.



Fir ABC Fish Lock



M-Foam Nozzle



Tai Belt (ABC Boday)



Tai Seal



PVC. Shutup Nozzle



PVC. shutup Nozzk



CO2 hose



DCP grip



CO2 bend pipe



ABC hose



CO2 horn



ABC Syphen tube



ABC lock pin



Wall Bracket



CO2 Safety Pin



CO2 Lock Ring



Blank Cap



CO2 Neck Handle

## ABC POWDER TYPE DRY FIRE EXTINGUISHER



MODEL	SPF- 1 KG ABC P	SPF- 2 KG ABC P	SPF- 4 KG ABC P	SPF- 6 KG ABC P	SPF- 9 KG ABC P
CYLINDER MATERIAL	M.S.	M.S.	M.S.	M.S.	M.S.
CAPACITY (KG)	1	2	4.5	6	9
FIRE RATING	1A 21B	1A 34B	3A 89B	4A 144B	6A 233B
EXTINGUISHING MEDIUM	MAP BASED POWDER				
TEMPERATURE RANGE	-30° C to +60° C				
AVERAGE DISCHARGE TIME (Sec.)	8-10 Sec.	10-14 Sec.	15-20 Sec.	16-22 Sec.	20-25 Sec.
AVERAGE DISCHARGE RANGE (Meters)	02 Mtrs.	02 Mtrs.	04 Mtrs.	05 Mtrs.	05 Mtrs.
OPERATING PRESSURE	15 BAR				
TEST PRESSURE	35 BAR				
EXPELLANT	NITROGEN	NITROGEN	NITROGEN	NITROGEN	NITROGEN
CO <sub>2</sub> CARTRIDGE CAPACITY (grams)	—	—	—	—	—

**ABC DRY CHEMICAL POWDER** is a commonly used fire extinguisher agent that can effectively suppress fires caused by flammable liquids, gases, and electrical equipment. When using an ABC fire extinguisher, it is important to remember to follow the proper steps for safe and effective operations. Fire extinguishers are a vital tool in any workplace or public setting for the prevention and suppression of fire.

### ABC POWDER WHEELED TYPE FIRE EXTINGUISHER

CAPACITY	25 KG STORED PRESSURE	50 KG STORED PRESSURE
TYPE	Wheeled type ABC	Wheeled type ABC
IS NO.	IS 16018	IS 16018
FIRE RATING	1A 189B	2A 233B
OPERATING TEMPERATURE	-30° C TO +55° C	-30° C TO +55° C
AVERAGE JET LENGTH THROW (IN MTRS)	6 Mtrs.	07 Mtrs.
AVERAGE DISCHARGE PERCENTAGE	90%	90%
AVERAGE DISCHARGE TIME (SEC)	25-30 Sec.	45-60 Sec.
CHARGE PRESSURE	1.5Mpa	1.5Mpa
TEST PRESSURE	3.5 Mpa	3.5 Mpa
EXTINGUISHER MEDIA	ABC DRY CHEMICAL POWDER	ABC DRY CHEMICAL POWDER
IS 4308	IS 4308	IS 4308
EXPELLANT	NITROGEN	NITROGEN
LENGTH OF HOSE PIPE	2 mtrs.	4 mtrs.



# CARBON DIOXIDE FIRE EXTINGUISHER



MODEL	2 KG CO2	5 KG CO2
CYLINDER BODIES	PESO APPROVED	PESO APPROVED
CAPACITY (KG)	2	4.5
FIRE RATING	21B	55B
EXTINGUISHING MEDIUM	CO <sub>2</sub> Gas IS 15222	CO <sub>2</sub> Gas IS 15222
TEMPERATURE RANGE	-30°c to + 60°c	-30°c to + 60°c
AVERAGE DISCHARGE TIME(Sec.)	09 Sec	10-12 Sec.
AVERAGE DISCHARGE RANGE (Meters)	02 Mtrs.	03 Mtrs.
TEST PRESSURE	250 BAR	250 BAR

## CO2 Type FIRE EXTINGUISHER

Carbon Dioxide is discharged as a white cloud which douses the fire by eliminating oxygen.

Carbon Dioxide is a clean, non-contaminating, odorless gas, suitable for tackling Class B or electrical fires.

"These extinguishers are designed specifically for fires involving electrical equipment and flammable liquids

It is the gasous form of extinguishing agent, which cease the fire by its cooling effect,

As part of a comprehensive first aid and fire safety plan, CO<sub>2</sub> extinguishers play a vital role in protecting lives and property in the event of a fire.

### APPLICATION,

Electrical pannel, electric connection etc.

## CARBON DIOXIDE WHEELED TYPE FIRE EXTINGUISHER

CAPACITY	9 kg	25 kg
TYPE	Wheel type CO <sub>2</sub>	Wheel type CO <sub>2</sub>
IS NO.	IS 16018	IS 16018
FIRE RATING	55B	89B
OPERATING TEMPERATURE	-30° C TO +55° C	-30° C TO +55° C
AVERAGE JET LENGTH THROW (IN MTRS)	04 Mtrs.	04 Mtrs.
AVERAGE DISCHARGE PERCENTAGE	95%	95%
AVERAGE DISCHARGE TIME (SEC)	15-20 Sec.	20-30 Sec.
OPERATING VALVE	Wheel type	Wheel type
TEST PRESSURE	25 Mpa	25 Mpa
EXTINGUISHER MEDIA	Co <sub>2</sub> Gas as per IS 15222	Co <sub>2</sub> Gas as per IS 15222
EXPELLANT	CO <sub>2</sub>	CO <sub>2</sub>
LENGTH OF HOSE PIPE	2 Mtrs.	2 Mtrs.



## BC TYPE STORE PRESSURE TYPE CARTRIDGE TYPE



**BC type fire extinguishers** are designed for fighting Class B and C fires, which involve flammable liquids and electrical equipment. These extinguishers typically use dry chemicals like sodium bicarbonate to smother flames effectively. Stored pressure fire extinguishers are the most common type, where the expellant is stored in the same chamber as the extinguishing agent, making them easy to use and maintain for various fire classes. On the other hand, cartridge-operated fire extinguishers, with their separate expellant cartridge, are highly reliable and rugged, ideal for industrial settings where dependability is essential.

## WATER TYPE



**Water type fire extinguishers** are specifically designed to combat Class A fires, which involve ordinary combustibles such as wood, paper, and textiles. These extinguishers work by spraying water onto the fire, cooling the burning materials and reducing the heat, which effectively stops the fire from spreading. Water extinguishers are simple to use, environmentally friendly, and widely used in places like offices, schools, and residential buildings where the risk of Class A fires is common. However, they should never be used on electrical fires or fires involving flammable liquids, as water can conduct electricity and spread flammable substances.

## Lithium Ion (vermiculite)



## AQUEOUS VERMICULITE DISPERSION AVD FIRE EXTINGUISHER

AVD Fire Extinguisher agent is an aqueous dispersion of chemically cexfolled vermiculite. It is applied to lithium baterry fire as a mist Extinguihner them and preventing the propagation of the fire

KANEX Lithium-ion Battery fire extinguisher with AVD agent provides effective lithium battery fire protection to prevent the progation of heat when applied as a mist. The AVD coating also acts as a fire break. The vermiculite particles within the mist are desposited on the surface of the burning fuel to create a film over the top of the fire

The film instantly dries and the, because the high aspect ratio platelet particles overlap and bind together, a non- flammable oxygen barrier between the fuel and the atmosphere is produced. This process has a colling effect on the fuel source and, as the water content in AVD is evaporated, the vermiculite begin to build up and the fire is brought under control

## Sand Bucket



## Bucket Stand With & Without shade



## Fire Blanket



## ABC, BC POWDER

MONO AMMONIUM PHOSPHATE (MAP 40%, 50%, 90%)

### ABC POWDER MONO AMMONIUM PHOSPHATE (MAP 40%, 50%, 90%)

Dry chemical powder are important fire fighting agents. The main advantage is practically immediate success of extinguishing fire. Furthermore, one can use dry powders for extinguishing large scale fire, spillage fire and three-dimensional fire. Mono Ammonium Phosphate is one of the important bases in use since very long time. It is very popular as it is user-friendly extinguishing medium for Class A, B, & C fire. Mono Ammonium Phosphate base material is mixed with other ingredients to improve flow characteristics and expelling properties. Powder is siliconised to impart excellent resistance to climatic changes.

Dry N2 or CO2 can be used as a propellant.

Class A fires involving wood, paper, tyres, coal, film, textile etc.

Class B fires involving petrol, diesel, kerosene, oil, alcohols etc.

Class C fires involving petrol, electrical, gases etc.

### APPLICATION

ABC powder is suitable for use in all types of portable fire extinguishers, mobile extinguishers and fixed installations. ABC is suitable for A Class, B Class and C Class fire risk

## AQUEOUS FILM FORMING FOAM (AFFF)



### TECHNICAL DETAILS

Parameters	AFFF 1%	AFFF 3%	AFFF 6%
Appearance	Light Brown	Light Brown	Light Brown
SP. Gravity	1.3± 0.01	1.02± 0.01	1.01± 0.01
PH Value	7.5 ± 1	7.5 ± 1	7.5 ± 1
Viscosity	< 15 cSt<	< 10 cSt<	< 5 cSt<
Freezing Point	-1°C	-1°C	-1°C

\*Also available in Freeze Protection Type

\*\* Value depend equipment used and system parameter

## TRAFFIC ZONE



Cassettes(Red, Blue, Black) 2.50 mtr



Caution Tape



Wind Sock  
Single Layer  
Double Layer



Heavy Fold/ Expandable  
Barrier (Red) (2300L x 1000 H)



Foldable / Expandable  
Barrier (Red) (2500L x 940 H)



Warning Bollards  
Size - 800mm, 1100mm



Cone Top  
Belt Manager



Chain (Plastic Chain)



Water Fillable Barrier



Barrier



Covex Mirror  
18 inch/ 24 inch/ 32 inch/ 40 inch/ 48 inch mm



Dome Mirror



Life Buoy Ring  
(IRS Approved)

## CLEAN ACENT GAS

### FK 5-1-12 EQUIVALENT NOVEC 1230



## PHYSICAL PROPERTIES

Molecular Formula	C <sub>6</sub> F <sub>12</sub> O	Solubility of water in safe pro 1230 @25° C	<0.001 wt%
Molecular Mass	316.045	Specific heat, liquid @25°C	1.013 kJ/kg° C
Boling Point at 1 atm	49.2° C	Liquid Density @25°C	1.60 g/ml
Freezing Point	-108.0° C	Vapor Pressure @25°C	0.404 bar
Critical Temperature	168.7° C	Insulating Property(110k)	3.8 mA
Critical Pressure	18.65 bar	Dielectric Strength (KV)	74.6 kV (Test distance 3mm)
Critical Density	639.1 kg/m <sup>3</sup>	ODP	0
Heay of Vaporiation at boiling point	88.0 kj/ kg	GWP	1.0
Liquid Viscosity @25C	0.524 cp	ATL	0.014

## HFC 227 EA/FM 200 GAS



## TRAFFIC ZONE



Powder Coated Q Manager



SS Q Manager



Safety Cones



Rubber / Plastic Speed Breaker



Corner Guard



Reflective Tape



Solar Blinkers



Plastic Floor Stand



Baton Light



Solar Road Stud MS



Solar Stud PVC Without Solar



Rechargeable Baton Light



Triangle

# SAFETY SUITS

## SAFETY BOILER SUIT

THE FUTURE OF WORK WEAR IS HERE

### Fireman Jacket & Trouser Specification

Multiple layers of Jackets and pants with suspender Certified to EN 469:

**Outer Shell:** 6.0oz NOMEX III A Fabric.

**Moisture Barrier.** Aramid/Kevlar non woven laminated with PTFE membrane for maximum breath ability and hydrostatic head (waterproof) performance. (EN 343 protection against foul weather)

#### Thermal Barrier.

Constructed using non-woven ARAMIDE KEVLAR fibres laminated with Nomex / Viscose innermost lining fabric for maximum protection;

**Reflective Tape:** 2" width yellow-silver-yellow reflective trims installed at arm and legs, front, back and bottom on the jacket and pants to enhance high visibility of workers;

### Fireman Helmet Specification

**Standard:** CE En443

**Brand:** PAB

**Performance:** Flame-Retardant Shell/Interior Basket/Chin Strap; Puncture Resist; Retractable PC face protector; Neck protection, Reflective And Luminescent stripes. Adjusting head, Possible wearing of the protective mask under visor; Easy to operate and Spare parts available.

**Color:** Yellow

**Weight:** Approximately 1400 gms.



### Fireman Balaclava Specification

**Material:** 50% Aramid + 48% Viscose +2% Anti Static Blended fabric

**Color:** Beige

### Fireman Gloves Specification

**Material:** Multiple-layer leather glove.

**Spec:** The upper material is beef hide split with special treatment against high temperature, penetration of water and oils. Another function of this leather treatment is resistance against mechanical risks. The next layer is composition of technical Kevlar® and Nomex® that increases resistance against heat, abrasion and cutting. Knit wristband is made from Kevlar®. The gloves are tested and certified according to EN 659:2004+A1:2008- Protection gloves for firefighters.

### Fireman Boot Specification

**Material:** Vulcanized Rubber & Sole Certified to EN ISO 20345 & EN 15090

**Colour:** Black+Yellow

**Brand:** HARVIK



Aluminized Suit



Boiler Suit  
Model- SPF B 01



Boiler Suit  
Model- SPF B 02



Boiler Suit  
Model- SPF B 03



Boiler Suit  
Model- SPF B 04



Boiler Suit  
Model- SPF B 05

## SPARES OF SUPPRESSION SYSTEM



Valve



Manual Actuator



Electric Cum Manual Actuator



DLP Valve



CO2 Valve



IPL Valve



FM 200 Discharge Nozzle



Inter Connecting Hose



Discharge Hose (DN 40 / DN 32)



UL- Listed Heat Detection Tube



Pressure Guage

# FIRE HOSE BOX

## Single door ms/SS hose box



## FIRE RATED DOOR

**ITEMS** Fire Doors

### Door Leaves

Constructed from 0.0012m thick skin pass Galvanized Iron sheet (Conform to IS 277) or from 0.0008m thick skin pass Galvanized Iron Sheet (Conform to IS 277)

### Thickness

0.046m

### In-Fill

Rockwool /Mineral Wool /Honeycomb Kraft Paper

### Door Frames

Constructed from 0.0016m thick Skin pass galvanized Iron sheet (Conform to IS 277) or from 0.0012m thick Skin pass Galvanized Iron sheet (Conform to IS 277) formed to single or double rebate profile of size

### Profile

### Dimensions

0.143m X 0.058m (+/-0.03m)

### Bending radius

0.0014m

### Vision Glass

### Material

0.005m thick clear/wired glass Circular or Rectangular

## Double door ms/SS hose box



## FLEXIBLE SPRINKLER HOSE



### FOAM MONITER

Model	NPT In.	K- Factor	minimum Bend Radiusin (MM)	Rated Working Pressure psi (kpa)	Hose Assembly Length ft (M)	Equivalent Length of 1 in Schedule 40 Pipe ft (M)
SPF	1/2	5.6	6 (152)	1	3 (0.9)	26.3 (8.0)
SPF	1/2	5.6	6 (152)	3	4 (1.2)	31.6 (9.6)
SPF	1/2	5.6	6 (152)	4	5 (1.5)	35.3 (10.7)
SPF	1/2	5.6	6 (152)	4	6 (1.8)	39.1 (11.9)

Flexible Sprinkler hose with threaded end fittings are for use in commercial suspended ceilings. The flexible hoses are to be installed according to the manufacturers directives.

## UL LISTED SPRINKLERS

### PENDENT TYPE SPRINKLERS

- ( Quick Response )
- ( Standard Response )

### SIDE WALL MOUNTED TYPE

- (Quick Response)
- (Standard Response)

### CONCEALED SPRINKLERS

- (Quick Response)
- (Standard Response)



### DESCRIPTION

UL Listed  
 Made of Brass  
 Quick/Standard Response  
 Maximum Working Pressure  
 175 Psi (12 Bar)

<b>Bulb Nominal Dia &amp; Response</b>	5 mm standard response
<b>Thread size</b>	NPT 1/2 or BSPT1/2
<b>Nominal office size</b>	1/2 inch
<b>Nominal k-factor</b>	5.6 (U.S)/80 (metric)
<b>Max. working pressure</b>	175 psig/1.2 Mpa (12 bar)
<b>sprinkler finish</b>	Natural brass, Chrome finish or white painting [RAL 9010]
<b>Nominal temp. rating</b>	135° F / [57° C] 155° F / [68° C] 175° F / [79° C] 200° F / [93° C] 286° F / [144° C]
<b>Listing and approvals</b>	UL Listed

## HOSE REEL



### TECHNICAL SPECIFICATION

Conforming to : 15:884/1958  
 Size : Inlet : 1" Threaded Inlet Connection  
 Type : Swinging 180° Wall Mounting  
 Outlet: 3/4", 1", 1-1/2" outlet connection  
 for House to accommodate 30 Mtrs. Hose

### PERFORMANCE TEST

Hydraulic Test : Tested at 21 Kgf/cm<sup>2</sup>  
 Range & Water Flow rate test at 7Kgf / cm<sup>2</sup>  
 (A) Discharge : 24 LPM  
 (B) Range (Jet Length) : 6 Mtr (Min)  
 Halogram : Sticker Stuck On Wheel

**HUB SIDES & WALL BRACKET**

MS. SHEET OF IS : 513

**SWIVEL JOINT**

LBT - 2 OF IS : 1239 PART 1

**PIPE WITH FITTING**

IS : 8090

**NOZZLE**

1750 LPM

**HOSE REEL TUBING**

THERMOPLASTIC HOSE CONFIRMING TOS: 12585

RUBBER HOSE CONFIRMING TO IS : 444

### HOSE REEL DRUM AVAILABLE IN MS AND SS BODY



### HOSE REEL BOX



### FIRE EXTINGUISHER BOX



# FIRE HYDRANT PIPES & FITTINGS

## GALVANIZED PIPE

Galvanized steel pipe is the carbon steel pipe that are coated with a protective layer of zinc. The zinc layer served as a sacrificial layer, it will get rust before the carbon steel under neath it. Galvanized steel pipe include Two types: hot dipped galvanized steel pipe and cold galvanized steel pipe. Galvanized coating is designed to prevent corrosion and rust. It is also manufactured to keep other minerals, such as calcium, from building up on the pipes or bollards. It can last for years depending on the quality of the coating and the application.



## STAND POST SINGLE & DOUBLE OUTLET



### SINGLE STAND POST

#### Description

- Water Tightness Test for the valve  $18 \text{ kgf/cm}^2$  (for 2.5 Min)
- Hydrostatic Pressure Test  $23 \text{ kgf/cm}^2$  (for 2.5 Min)
- Flow Test 900 LPM Min  $6.7 \text{ kgf/cm}^2$  (for single outlet)

### DOUBLE STAND POST

#### Description

- Water Tightness Test for the valve  $18 \text{ kgf/cm}^2$  (for 2.5 Min)
- Hydrostatic Pressure Test  $23 \text{ kgf/cm}^2$  (for 2.5 Min)
- Flow Test 900 LPM Min  $6.7 \text{ kgf/cm}^2$  (for single outlet)

## FOAM MONITER

<b>DESIGN &amp; CONSTRUCTION</b>	AS PER IS : 8442
<b>MATERIAL</b>	SEAMLESS MILD STEEL TUBES
<b>SIZE OF MONITER</b>	63 MM
<b>SIZE OF INLET FLANGE</b>	80 MM
<b>DISCHARGE CAPACITY</b>	1750 LPM
<b>HORIZONTAL THROW</b>	50-50 METERS
<b>ROTATION</b>	360°
<b>ELEVATION</b>	58° TO 30°
<b>JOINT</b>	SWIVEL TYPE (GUN-METAL)
<b>JET SPRAY NOZZLE</b>	GUN METAL OR ALLUMINIUM
<b>OPERATION PRESSURE</b>	7 BAR
<b>LEAKAGE PRESSURE</b>	TO WITHSTAND PRESSURE OF 23 BAR

Fb 10x

Fb 5x



## FIRE HYDRANT PRODUCT



### SHORT BRANCH PIPE

#### Description

- Material - SS & GM
- Intel Connection :- 2 1/2 Male Instantaneous
- Outlet : Solid Jet nozzle
- Operating Pressure : 150 PSL MAX, / 10.5 Kg/cm<sup>2</sup>

### RRL HOSE PIPE

#### Description

- Material- Reinforced Rubber
- Length - 7.5/15/22.5/30 (in mtr)
- Application- Fire fighting
- Nominal bore- 38/50/63/70 (in mm)
- Bursting pressure- 35.7
- Testing pressure- 21.4



### BUTTERFLY VALVE

#### Description

- Material- CI/SS
- Connection type- Flange
- Media - Water, Oil, Gas



### NRV

#### Description

- Material- CI/SS
- Types- Single & Double Plate
- Hyd- Test Press- Seat: 15 bar
- Hyd- Test Press: BODY: 24 Kg
- Media - Water & Oil
- Temperature- -10 to 80° C

# FIRE HYDRANT PRODUCT



**OBLIQUE LANDING VALVE**



**DOUBLE OUTLET LANDING VALVE**

**(Type "A" ISI Marked)**



**TECHNICAL SPECIFICATION**

Size: 63 mm

Inlet: 80 mm NB Flanged

Outlet: Female Instantaneous

Conforming Specification: IS 5290: 1993

TYPE OF MATERIAL	STAINLESS STEEL	GUN METAL	ALUMINIUM
BODY, ASSEMBLY	STAINLESS STEEL IS : 3444	LTB 2 IS : 318	IS 617
VALVE SPINDLE	STAINLESS STEEL IS : 6603	BRASS ROD IS : 319/320	STAINLESS STEEL IS : 6603
CAST IRON WHEEL	IS : 210	IS : 210	IS : 210
RUBBER WASHER	IS : 937 (TYPE-A)	IS : 937 (TYPE-A)	IS : 937 (TYPE-A)
SPRING	STAINLESS STEEL IS : 6528	PHOSPHORUS WIRE IS : 7608	STAINLESS STEEL IS : 6528
GLAND PACKING- ASBESTOS THREAD	IS : 4687 (TYPE-3)	IS : 4687 (TYPE-3)	IS : 4687 (TYPE-3)

Hand Wheel : Gray Cast Iron    Halogram : Sticker Stuck on    Landing Valve

**PERFORMANCE TEST**

Hydraulic Test: 21 kg/cm<sup>2</sup>

Water Tightness Test: 15 kgf/cm<sup>2</sup>

Flow Test: 900 LPM at kgf/cm<sup>2</sup>

## 2 WAY AND 4 WAY



**INLET FBC/ BREECHING**  
**2 WAY INLET FBC BREECHING**

Model	2 Way Inlet FBC Breeching
Size	63 mm Dia
Material	Gun Metal / S.S & Cast iron Body
Testing	Hydraulic Test : 21Kgf/cm <sup>2</sup>

## SPRINKLER ALARM VALVE

## FIRE HYDRANT PUMP



Installations of these pumps would ensure the safety of human life, buildings, and expensive equipments and plants. Fire pumpset shall be used only where a positive suction is provided as specified in NFPA20. Diesel engine as well as electric motor driven pump. Back pull-out design which simplifies inspection and maintenance without disturbing pipe work. The pump casing shall have material of construction of Cast Iron FG 260 (standard supply), CF8, CF8M, axial suction and radial discharge port, dynamically balanced impeller, steel shaft, stainless steel shaft sleeve. The pump shaft sealing will be by either gland packing or mechanical shaft seal suitable for 16 bar or 25 bar pressure rating based on shut off pressure of the pump. The pump shall have closed type impellers and bowl diffusers with material of construction stainless steel AISI 304 sheet metal, pump shaft shall be made of stainless steel AISI 316 material. The pump shall have back pull out design so as to enable the rotating parts to be removed and serviced without dismantling the suction and discharge pipe work.

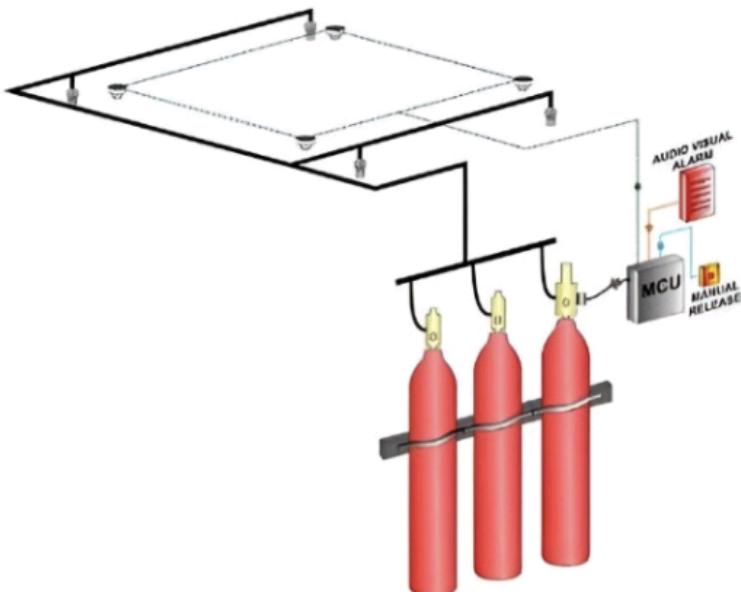


## CLEAN AGENT TOTAL FLOODING



Clean agent total flooding systems are advanced fire suppression systems that use environmentally friendly, gaseous agents to extinguish fires in enclosed areas. These systems work by releasing the clean agent, such as FM-200, Novec 1230, or Inergen, into the protected space, reducing the heat or interrupting the chemical reaction required for combustion. Clean agents are non-conductive, non-corrosive, and leave no residue, making them ideal for protecting

sensitive equipment and valuable assets in areas like data centers, control rooms, and museums. They are effective against Class A (ordinary combustibles), Class B (flammable liquids), and Class C (electrical) fires. Clean agent systems are designed to quickly suppress fires while being safe for use in occupied spaces, minimizing the risk of damage and ensuring a swift return to normal operations.



## CO<sub>2</sub> TOTAL FLOODING

CO<sub>2</sub> total flooding systems are specialized fire suppression systems designed to extinguish fires in enclosed spaces by displacing oxygen with carbon dioxide (CO<sub>2</sub>). When a fire is detected, the system releases a large amount of CO<sub>2</sub> into the protected area, quickly reducing the oxygen level to a point where combustion can no longer occur. This method is highly effective for Class B (flammable liquids) and Class C (electrical) fires, making it ideal for environments like server rooms,

electrical switch rooms, and industrial machinery spaces. CO<sub>2</sub> total flooding systems are fast-acting, non-damaging to equipment, and leave no residue, but they require careful design and installation to ensure safety, as the rapid reduction of oxygen can be hazardous to personnel in the area.

## IHP (INDIRECT HIGH PRESSURE)

Indirect Release the tube, which acts as a detection device it, tells the fire suppression system to discharge the fire suppressing agent through other pipes and nozzles and eventually extinguish the fire.

### **How it works:**

Once the tubing detects the fire, it ruptures, resulting in a drop of pressure causing the indirect valve to activate. The valve diverts flow from the detection tube to the larger outlet ports. When the fire suppression system kicks in, a suppressing agent is discharged from the cylinder through the diffuser nozzles, flooding the area while effectively suppressing the fire quickly and thoroughly. An indirect release system is typically used in larger areas that require a high volume of extinguishing agents to suppress the fire effectively

## DHP (DIRECT HIGH PRESSURE)

Direct Release System, the suppressant agent comes via the hole in the tube directly.

### **How it works:**

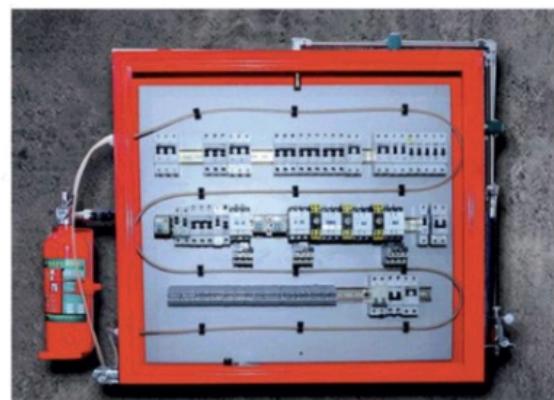
During a fire, the portion of the tube nearest the point where the most heat is detected ruptures, forming a comprehensive spray nozzle. The pressure decreases as the tubing releases the entire contents of the cylinder through the spray nozzle (burst hole) to effectively suppress the fire. A direct release system can be installed to protect multiple enclosures using a single cylinder by routing additional tubing to each enclosed space. Both direct and indirect systems are available in low- and high-pressure functionality for areas of any size. A fire suppression specialist will determine which system is right for your application.



## **FM 200 / NOVEC 1230 FIRE SUPPRESSION SYSTEM**

### DIRECT LOW PRESSURE (DLP) FIRE SUPPRESSION SYSTEM

DLP System: The fire detection tube acts as the delivery system for the suppression agent which discharges and directly releases the agent onto a fire via the burst hole which acts as a nozzle in the fire detection tube. Act as a heat-sensing and agent discharge tube.



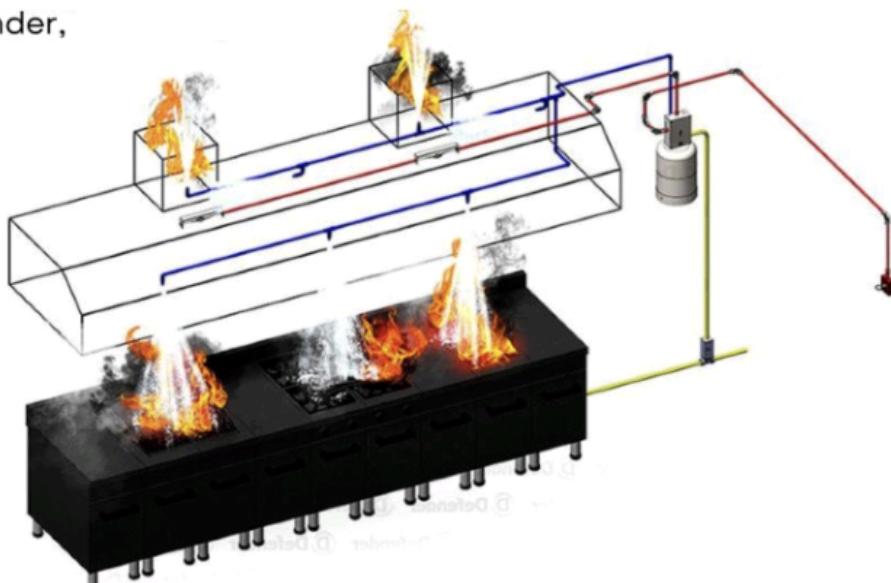
## KITCHEN FIRE SUPPRESSION SYSTEM

Our system is easy to install and maintain. It is apt for high temperature, intensive use and tough applications.

The 'performance-enhanced nozzles in our system's technology have a wider range and extinguishing performance.

The nozzles are different with its non-clogging feature. The total cost of the system is low with a small capacity system cylinder, minimum number of nozzles and less pipe line. The kitchen system cylinder is continuously pressurized. Maintenance and refilling costs are economical.

The system activation mechanism can be operated both automatically and manually.



### APPLICATION

Restaurant, cloud kitchen, etc.

## FM 200 / NOVEC 1230 FIRE SUPPRESSION SYSTEM



**NOZZLE**



**CYLINDER VALVE**



**SOLENOID VALVE**



**SIGNAL DEVICE**



**Novec 1230/FM-200** fire suppression system. In comparison, a Novec 1230 system is a clean agent fire suppression system that uses a gas-based agent to suppress fire without causing damage to sensitive equipment or valuable assets. This system is ideal for protecting high-value assets, such as data centers or server rooms, electrical cabinet, power supply unit or station etc where water-based suppression systems may not be suitable. These fire suppression agents are nontoxic and electrically non conductible hence no harm for person as well as electronic assets.

### APPLICATION

Server Room, Data Center, Electrical Cabinets, etc.

# FIRE EXTINGUISHER ACCESSORIES

## Fire extinguisher accessories

At our company, we offer a wide range of fire extinguisher accessories to support in refilling and maintaining your fire safety equipment. Our selection includes items such as Valve, discharge hose, nozzles, gauges safety seal, and more to ensure that your fire extinguishers are always in proper working order.

**Valve Assembly**



**Wall Bracket**



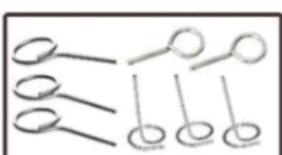
**Pressure Guage**



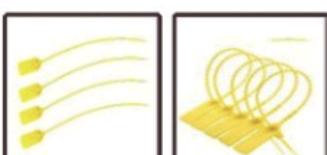
**Thermoplastic Hose Pipe**



**Safety Lock Pin**



**Tamper Seal**



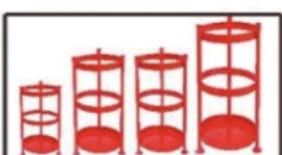
**Rubber O Ring**



**PVC Nozzle**



**Floor Stand**



**Vehicle Cylinder Bracket**



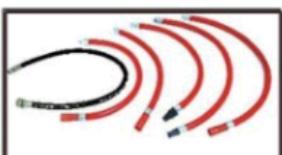
**Pressure Guage**



**Hydrant Weel**



**Hose Assembly**



**Hose with Horn**



**Hose and Lance**



**Nozzle/ Shut off Valve**

