

# JIBAL AL RAFIA CONTRACTING EST.









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sales@rosalsafety.com

# **About Us**

**Jibal Al Rafia** Contracting Est. (**Rosal Safety**) 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."



#### KITCHEN SYSTEM APPLICATION

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.

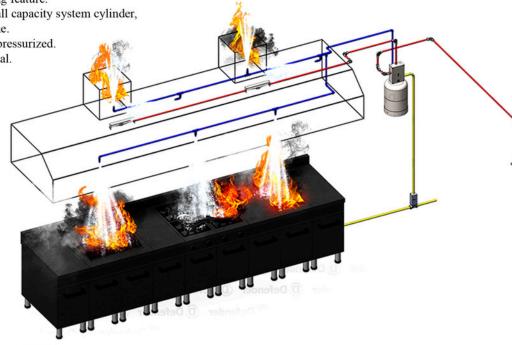
The kitchen system cylinder is continuously pressurized.

Maintenance and refilling costs are economical.

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

#### APPLICATION

Restaurent, cloud kitchen, etc.



# FM 200 / NOVEC 1230 FIRE SUPPRESSION SYSTEM





## **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.

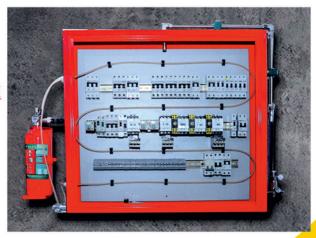




# FM 200 / NOVEC 1230 FIRE SUPPRESSION SYSTEM

## **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.



# 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.



# OBLIQUE TYPE SINGLE & DOUBLE OUTLET LANDING VALVE













# **OBLIQUE TYPE LANDING VALVE**

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

# DOUBLE OUTLET LANDING VALVE

# (Type"A") ISI Marked

TECHNICAL SPECIFICATION

Size: 63 mm

Inlet :80 mm NB Flanged Outlet : Female Instantaneous

Comforming Specification: IS: 5290: 1993



Hydraulic Test : 21 Kgf/cm2 Water Tightness Test : 15 Kgf/cm2 Flow Test : 900 LPM at 7 Kgf/cm2

# 2 WAY AND 4 WAY









**SPRINKLER ALARM VALVE** 

# **INLET FBC/ BREECHING**

#### 2 WAY INLET FBC BREECHING

Madel	O Wassissan EDO Decembra
Model	2 Way Inlet FBC Breeching
Size	63 mm Dia
Size	63 IIIII Dia
Material	Gun Metal / S.S & Cast iron Body
	dan motary of our distribution poly
Testing	Hydraulic Test: 21Kgf/cm2

# STAND POST SINGLE & DOUBLE OUTLET









#### **DOUBLE STAND POST**

Description

- Water Tightness Test for the valve 18 kgf/cm² (for 2.5 Min)
- Hydrostatic Pressure Test
   23 kgf/cm<sup>2</sup> (for 2.5 Min)
- Flow Test 900 LPM Min 6.7 kgf/cm<sup>2</sup> (for single outlet)

## SIGNLE STAND POST

Description

- Water Tightness Test for the valve 18 kgf/cm² (for 2.5 Min)
- Hydrostatic Pressure Test 23 kgf/cm² (for 2.5 Min)
- Flow Test 900 LPM Min 6.7 kgf/cm<sup>2</sup> (for single outlet)

# **FOAM MONITOR**

DESIGN & CONSTRUCTION	AS PER IS: 8442
MATERIAL	SEAMLESS MILD STEEL TUBES
SIZE OF MONITOR	63 MM
SIZE OF INLET FLANGE	80 MM
DISCHARGE CAPACITY	1750 LPM
HORIZONTAL THROW	50-55 METERS
ROTATION	360°
ELEVATION	58° TO 30°
JOINT	SWIVEL TYPE (GUN-METAL)
JET SPRAY NOZZLE	GUN METAL OR ALUMINIUM
OPERATIVE PRESSURE	7 BAR
LEAKAGE PRESSURE	TO WITHSTAND PRESSURE OF 23 BAR

Fb10x Fb5x

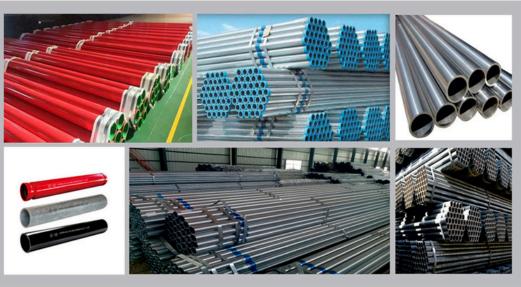




#### **GALVANIZED PIPE**

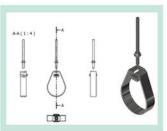
Galvanized steel pipe is the carbon steel pipe that are coated with a protective layer of zinc. The zinc layer served as a sacrificial layer, it will get rust before the carbon steel under neath it. Galvanized steel pipe include Two types: hot dipped galvanized steel pipe and cold galvanized steel pipe. 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.











# **FLEXIBLE SPRINKLER HOSE**





Model	NPT In.	K- Factor	Minimum Bend Radiusin. (MM)	Number of Bends	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	175 (1205)	3 (0.9)	26.3 (8.0)
SPF	1/2	5.6	6 (152)	3	175 (1205)	4 (1.2)	31.6 (9.6)
SPF	1/2	5.6	6 (152)	4	175 (1205)	5 (1.5)	35.3 (10.7)
SPF	1/2	5.6	6 (152)	4	175 (1205)	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 manufactures 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)







Certified









## DESCRIPTION

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

Bulb Nominal Dia.& Response	⊘5mm Standard Response
Thread Size	NPT1/2"or BSPT1/2"
Nominal Orifice Size	1/2 Inch
Nominal K-Factor	5.6 (U.S.)/80 (metric)
Max. Working Pressure	175psig/1 .2MPa (12bar)
Sprinkler Finish	Natural Brass, Chrome Finished or White Painting [RAL9010]
Nominal Temp. Rating	135°F/[57°C] 155°F/[68°C] 175°F/[79°C] 200°F/[93°C] 286°F/[141°C]
Listing and Approvals	UL Listed













# TECHNICAL SPECIFICATION

Conforming to: IS:884/1958
Size: Inlet: 1" Threaded Inlet Connection
Type: Swinging 180° Wall Mounting

Type: Swinging 180° Wall Mounting
Outlet: 3/4", 1", 1-1/2" outlet connection for House to

accommodate 30 Mtrs. Hose

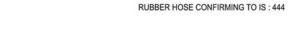
# PERFORMANCE TEST

Hydraulic Test : Tested at 21 Kgf/cm2 Range & Water Flow rate test at 7Kgf / cm2

(A) Discharge: 24 LPM

(B) Range (Jet Lenght) : 6 Mtr (Min) Halogram : Sticker Stuck On Wheel

HUB SIDES & WALL BRACKET	M.S. SHEET OF IS: 513
SWIVEL JOINT	LBT - 2 OF IS : 318
PIPE WITH FITTING	STEEL OF IS: 1239 PART 1
NOZZLE	IS: 8090
HOSE REEL TUBING	THERMOPLASTIC HOSE CONFIRMING TO IS: 12585





# HOSE REEL DRUM AVAILABLE IN MS AND SS BODY

# **HOSE REEL BOX**





# FIRE EXTINGUISHER CABINET SS BODY AND MS BODY



## SS BODY 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





# **Fire Alarm Panels**

# FIRE ALARM PANEL







Detection and Alarm system, Available in both addressable and conventional type, the product is made in India/Turkey/Europe standard approvals are LPCB/UL/ISI/CE etc





#### **ABS HOOTER**

#### FEATURES:

- New attractive look
- Suitable for malls, Restaurant, Banks Etc.
- 100v AC/ 24v
- 85Db
- Abs body
- 115x115x70
- Red colour 600gm



#### MCP

#### FEATURES:

- Compatible with all conventional fire control panels
- Alarm test key facilities
- Glass protected by a thin film
- Wall mounted
- LED blinking facility (optional)



#### HOOTER WITH STROBE [ABS]

- Hooter with flasher
- Wall mounted type
- Attractive look
- Suitable for Mall, Bank, Restaurant etc.
- Suitable for sound polluted areas

#### MECHANICAL SPECIFICATION:

Cabinet Type	MS	
Colour	Red	
Paint	Powder Coating	
Knock Out	20 mm	
Dimension	350x105x255 mm	
Weight	4.7 kg without battery	

- Iron made key box
- (Only for Single key) with breakable glass & hammerColor: Box: Red
- Hammer: Black/Red/Silver
- Box in mm: H140xW90xD25
- Thickness: 1 mm
- Key Hook to Bottom Distance: 115 mm

# **CONVENTIONAL OPTICAL**

## **SMOKE DETECTOR**





# CONVENTIONAL OPTICAL SMOKE DETECTOR **Technical Parameters:**

- Votage range:16-32 VDC
- Alarm current:10-100mA
- Quiescent: 60uA @ 24VDC
- Operating temperature: OC to +90'C
- Humidity:<95%RH
- Coverage:50 sq. meters
- 2-wire
- Photoelectric sensor
- Product size:10.6x10.6x5.2cm

# **SAFETY BOILER SUIT**

# "THE FUTURE OF WORK WEAR IS HERE"

<u>Fireman Jacket & Trouser Specification</u>
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)

Constructed using non-woven ARAMIDE KEVLAR fibres laminated with Nomex / Viscose innermost ling 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

<u>Performance</u>: 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 players for fireflighters. Protection gloves for firefighters.

Fireman Boot Specification
Material: Vulcanized Rubber & Sole Certified to EN ISO 20345 & EN 15090.

Colour: Black+Yellow.











**Aluminized Suit** 



Boiler Suit Model - SPF B 01



Boiler Suit Model - SPF B 02



Boiler Suit Model - SPF B 03



Model - SPF B 04



Model - SPF B 05





**Leather Hand Gloves** Model - SPF G 02



**Leather Hand Gloves** Model - SPF G 04



Model - SPF G 09



**Dotted Hand Gloves Nitrile Coated Hand Gloves** Model - SPF G 10



**Cotton Knitted Hand Gloves** Model - SPF G 08



Safety Shoes Model - SPF S 06



Safety Shoes Model - SPF S 07



Safety Shoes Model - SPF S 09



Safety Shoes Model - SPF S 10



Safety Shoes Model - SPF S 02



**Reflective Jacket** Tape 1 Inch Model - SPF J 01



Double Tape with zip Tape 2 Inch Model - SPF J 05



**Double Gray Tape** Tape 2 Inch Model - SPF J 06



**Reflective Jacket** Tape 2 Inch Model - SPF J 07



**Red Helmet** Model - SPF H 01



**Reflective Jacket** Tape 2 Inch Model - SPF J 02



3 Way Model - SPF J 09



3 Way Model - SPF J 10



3 Way Model - SPF J 11



**Yellow Helmet** Model - SPF H 02



5 Persons



15 Persons



50 Persons



Powder Coated Q Manager



Safety Cones







Rubber / Plastic Speed Breaker

**Corner Guard** 

**Reflective Tape** 



**Solar Blinkers** 

**Plastic Floor Stand** 

**Baton Light** 









**Solar Road Stud MS** 

Road Stud PVC Without Solar

**Rechargeable Baton Light** 

**Triangle** 

# **TRAFFIC ZONE**







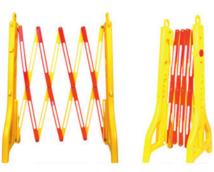
Cassetes (Red, Blue, Black) 2.50 mtr.

**Caution Tape** 

**Single Layer** Wind Sock **Double Layer** 









Heavy Fold/Expandable Barrier (Red) (2300L x 1000H) Barrier (Red) (2500L x 940H)

Foldable/Expandable

**Warning Bollards** Size - 800mm, 1100mm







Chain (Plastic Chain)



Water Fillable Barrier



**Barrier** 









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

**Dome Mirror** 

**Life Buoy Ring** (IRS Approved)

# ABC POWDER TYPE FIRE EXTRINGUISHER





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)	O2 Mtrs.	02 Mtrs.	04 Mtrs.	05 Mtrs.	05 Mtrs.
OPERATING PRESSURE	15 BAR				
TEST PRESSURE	35 BAR				
EXPELLANT	NITROGEN	NITROGEN	NITROGEN	NITROGEN	NITROGEN
O₂CARTRIDGE 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 EXTRINGUISHER

CAPACITY	25 KG STORED PRESSURE	50 KG STORED PRESSURE
TYPE	Wheeled type ABC	Wheeled type ABC
IS NO.	IS 16018	IS 16018
FIRE RATING	16A 189B	20A 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.	45-50 Sec.
CHARGE PRESSURE	1.5Mpa	1.5Mpa
TEST PRESSURE	3.5 Mpa	3.5 Mpa
EXTINGUISHER	ABC DRY CHEMICALPOWDER	ABC DRY CHEMICALPOWDER
MEDIA	IS 4308	IS 4308
EXPELLANT	NITROGEN	NITROGEN
LENGTH OF HOSE PIPE	2 mtrs.	4 mtrs.





# FOAM TYPE FIRE EXTRINGUISHER





92		
MODEL	6 liter MF	10 liter MF
CYLINDER MATERIAL	M.S.	M.S.
CAPACITY (Ltr.)	6	10
FIRE RATING	3A 89B	4A 144B
EXTINGUISHING MEDIUM	AFFF FOAM IS 4989	AFFF FOAM IS 4989
TEMPERATURE RANGE	+5°c to + 60°c	+5°c to + 60°c
AVERAGE DISCHARGE TIME (Sec.)	12-16 Sec.	18-20 Sec.
AVERAGE DISCHARGE RANGE (Meters)	05 Mtrs.	05 Mtrs.
OPERATING PRESSURE	15 BAR	15 BAR
TEST PRESSURE	35 BAR	35 BAR
EXPELLANT	NITROGEN	NITROGEN
Co2 CARTRIDGE CAPACITY (grams)	-	_

## FOAM TYPE FIRE EXTINGUISHER

In the event of a fire, these extinguishers are designed to quickly and effectively suppress flames fueled by flammablliquids such as gasoline or oil. The main agent is used to suppress the fire is AFFF(aquas film forming foam and water) which creates separation layer between combustible fuel and fire.

## APPLICATIONS,

Specific to use fire accrued by liquid fuel like kerosene, edible oil etc.

# FOAM WHEELED TYPE FIRE EXTRINGUISHER

CAPACITY	MECHANICAL FOAM	MECHANICAL FOAM 50 liter	
CAFACITI	25 liter		
ТҮРЕ	Foam based	Foam based	
IS NO.	IS 16018	IS 16018	
FIRE RATING	16A 189B	20A 233B	
OPERATING TEMPERATURE	+5° C TO +55° C	+5° C TO +55° C	
AVERAGE JET LENGTH THROW (IN MTRS)	6 Mtrs.	6 Mtrs.	
AVERAGE DISCHARGE PERCENTAGE	95%	95%	
AVERAGE DISCHARGE TIME (SEC)	25-30 Sec.	40 Sec.	
OPERATING PRESSURE	1.5Mpa	1.5Mpa	
TEST PRESSURE	3.5 Mpa	3.5 Mpa	
EXTINGUISHER MEDIA	AFFF Foam As per IS 4989	AFFF Foam As per IS 4989	
EXPELLANT	NITROGEN	NITROGEN	
EXPELLANT CAPACITY	-	-	
LENGTH OF HOSE PIPE	2 mtrs.	2 mtrs.	



# **CARBON DIOXIDE FIRE EXTRINGUISHER**





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, CO2 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 EXTRINGUISHER**

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	558	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	Co2 Gas as per IS 15222	Co2 Gas as per IS 15222
EXPELLANT	CO <sub>2</sub>	CO <sub>2</sub>
LENGTH OF HOSE PIPE	2 Mtrs.	2 Mtrs.



# **KITCHEN TYPE FIRE EXTRINGUISHER**



Kitchen type fire extinguisher offers a distinctive unique feature by reacting chemically cooking oil or fats (saponification) & forms non-combustible layer on surface, thereby provides a very fast flame knock down & complete securement of grease related fire. High reactive of chemicals, reduces fire intensity of oil immediately and also it does not produce any hazardous by-product due to fire or reaction with burning oil. Ease of post fire cleaning, also non corrosive product after fire.



8225	0	100
MODEL	6Ltrs. K	9Ltrs. K
CYLINDER MATERIAL	S.S	S.S
CAPACITY (Ltrs.)	6 Ltrs.	9 Ltrs.
FIRE RATING	25F	75F
EXTINGUISHING MEDIUM	WET CHEMICAL	WET CHEMICAL
AVERAGE DISCHARGE TIME (Sec.)	15-18 Sec.	18-20 Sec.
AVERAGE DISCHARGE RANGE (Meters)	03 Mtrs.	04 Mtrs.
OPERATING PRESSURE	15 BAR	15 BAR
TEST PRESSURE	35 BAR	35 BAR
EXPELLANT	NITROGEN	NITROGEN

#### AUTOMATIC MODULAR TYPE FIRE EXTINGUISHER

Our Automatic Modular Type Fire Extinguisher is ideal for using in unoccupied rooms or spaces. It is automatic type fire extinguisher which is operated when it comes in the contact of fire

#### APPLICATION,

Server Room, Electric Room, Unmanned Protection Area etc.

MODEL	M05	M10
CAPACITY	5 KG	10 KG
DESIGN	Ceilling mounted	Ceilling mounted
AVERAGE DISCHARGE TIME	6-8 sec	10-15 sec
HANGING HEIGHT ABOVE RISK	1.5 to 2 Mtr	1.75 to 2.25 Mtr
AREA PROTECTION	2 to 2.5 m <sup>2</sup>	4 to 5 m <sup>2</sup>
VOLUME PROTECTION	6 m³	10 m³
AVERAGE % DISCHARGE	99%	99%
OPERATING TEMPERATURE	68°C	68°C
SERVICE / TEST PRESSURE	15 / 35 BAR	15 / 35 BAR
EXPELLING AGENT	Nitrogen / Clean Agent	Nitrogen / Clean Agent









#### 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 propellent.

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	1.03 ± 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

<sup>\*</sup> Also available in Freeze Protected Type

<sup>\*\*</sup> Value depends equipment used and system parameters

# **CLEAN AGENT GAS**

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





# **PHYSICAL PROPERTIES**

Molecular Formula	C 6F 12O	Solubity 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
Boiling 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 m A (Standard Leakage Current < 10mA)
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
leat of vaporization at boiling point	88.0 kJ/kg	GWP	1.0
Liquid Viscosity@25 C	0.524 cp	ATL	0.014

# **HFC 227ea/FM 200 GAS**









**Manual Actuator** 



**Electric Cum Manual Actuator** 









**DLP Valve** 

CO<sub>2</sub> Valve

**ILP Valve** 

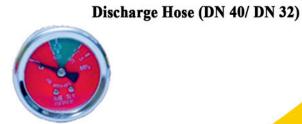
FM 200 Discharge Nozzle





**Inter Connecting Hose** 





**UL-Listed Heat Detection Tube** 

**Pressure Guage** 

# 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



SAFETY LOCK PIN



WALL BRACKET

TAMPER SEAL

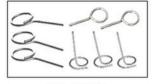


RUBBER O RING



THERMOPLASTIC HOSE PIPE

PVC NOZZLE



FLOOR STAND



VEHICLE CYLINDER BRACKET



PRESSURE GUAGE



HYDRANT WEEL



HOSE ASSEMBLY



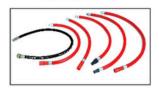
HOSE WITH HORN



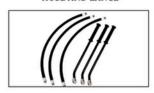
HOSE AND LANCE

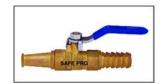


NOZZLE / SHUT OFF VALVE













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