

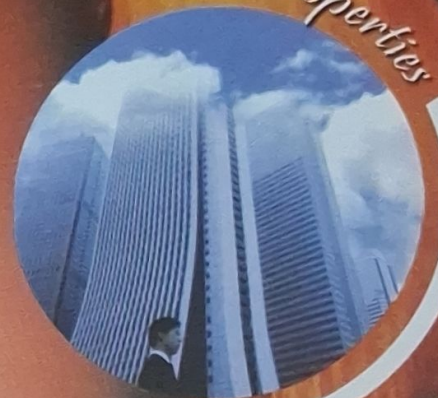
Fire Extinguishers

FIRE SHIELD

Protecting Lives.....



..... Properties



& Environment



ADVANCING SAFETY W  RLDWIDE

POWDER TYPE FIRE EXTINGUISHERS

The Blanketing effect of Dry Powder provides a swift fire fighting action by cutting the atmospheric oxygen connection with the fire, thereby, preventing the re-ignition of flames.



Trolley Mounted



Cartridge Type

IS:15683



CM/L-5507968

IS:10658



CM/L-5491171

Specification

Capacity (kgs)	4	6	9	25	50	75
I.S. Specification	15683	15683	15683	10658	10658	10658
Test Pressure (Kgf/cm ²)	35	35	35	30	30	30
Co ₂ Cartridge	120gms	120gms	200gms	1ltrs	3ltrs	3ltrs
Bulk Range (m) ≥	3	3	4	6	8	10
Discharge Time (s) ≥	10	17	23	25	40	50
Fire Rating	13B	21B	34B	-	-	-
Temperature Range	- 30°C to +55°C			-	-	-

Note: Available with Sodium Bi Carbonate Base Powder suitable for "B" & "C" classes of fire and Mono Ammonium Phosphate Base Powder suitable for "A", "B" & "C" classes of fire.

IS:15683

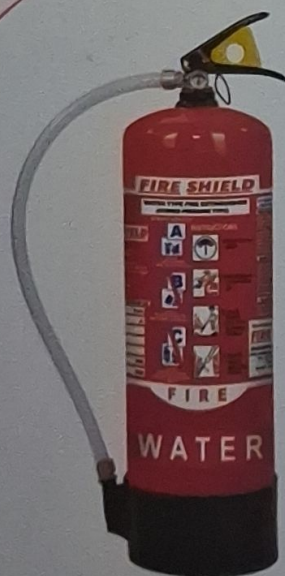


CM/L-5507968

IS:13385



CM/L-5508162



Stored Pressure

WATER TYPE FIRE EXTINGUISHERS

The effect of Water provides a swift fire fighting action by Striking and Cooling the surface of fire, thereby, suppressing the flames.



Cartridge Type

Trolley Mounted

Specification

Capacity (ltrs)	9 (SP)	9 (CT)	50	135
I.S. Specification	15683	15683	13385	-
Test Pressure (Kgf/cm ²)	35	35	30	30
CO ₂ Cartridge (gms)	-	60	300	1000
Bulk Range (m) ≥	4	4	10	12
Discharge Time (s) ≥	60	60	80	120
Fire Rating	3A	3A	-	-
Temperature Range	+5°C to +55°C		-	-

Caution: Not to use on electrical fire.

ABC POWDER TYPE FIRE EXTINGUISHERS

The Blanketing effect of Dry Powder provides a swift fire fighting action by cutting the atmospheric oxygen connection with the fire, thereby, preventing the re-ignition of flames.



Manual

Automatic

Manual



Manual

IS:15683

 CM/L-5507968

Specification

Types of Fire Extinguishers	Manual					Automatic		
Capacity (Kgs)	1	2	4	6	9	2	5	10
I.S. Specification	15683	15683	15683	15683	15683	-	-	-
Test Pressure (Kgf/cm ²)	35	35	35	35	35	30	30	30
Bulk Range (m) ≥	2	2	3	3	4	2m ² /3.5m ³	4m ² /8m ³	8m ² /15m ³
Discharge Time (s) ≥	8	8	10	17	23	-	-	-
Fire Rating	1A&8B	1A&8B	1A&13B	2A&21B	3A&34B	-	-	-
Temperature Range	- 30°C to +55°C					-	-	-

FOAM TYPE FIRE EXTINGUISHERS

The Blanketing effect of AFFF provides a swift fire fighting action by cutting the atmospheric oxygen connection with the fire, thereby, preventing the re-ignition of flames.



Cartridge Type

Trolley Mounted



Stored Pressure

IS:15683



CM/L-5507968

Specification

Capacity (ltrs)	9 (SP)	9 (CT)	50	135
I.S. Specification	15683	15683	13386	14951
Test Pressure (Kgf/cm ²)	35	35	30	30
CO ₂ Cartridge (gms)	-	60	300	1000
Bulk Range (m) ≥	3.5	3.5	10	12
Discharge Time (s) ≥	40	40	60	90
Fire Rating	3A&34B	3A&34B	-	-
Temperature Range	+5°C to +55°C	-	-	-

IS:13386



CM/L-5508061

Caution: Not to use on electrical fire.

IS:15683



CM/L-5507968

CARBON-DI-OXIDE TYPE FIRE EXTINGUISHERS

The effect of Carbon-di-oxide provides a swift Cooling action and prevents the re-ignition of inflammable vapours.



Trolley Mounted

Portable

Specification

Capacity (kgs)	2	3	4.5	6.5	9	22.5
Water Capacity (ltrs)	3	4.8	6.8	10.2	13.5	34
I.S. Specification	15683	15683	15683	2878	2878	2878
Bulk Range (m) ≥	1.5	2	2.5	-	-	-
Discharge Time (s) ≥	9	11	13	10	15	20
Fire Rating	8B	13B	13B	-	-	-
Temperature Range	-30°C to +55°C					

IS:2878



CM/L-1839670

IS:15683



CM/L-5507968



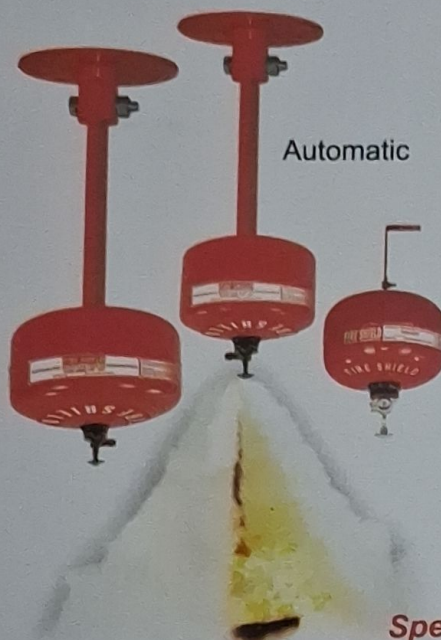
Manual



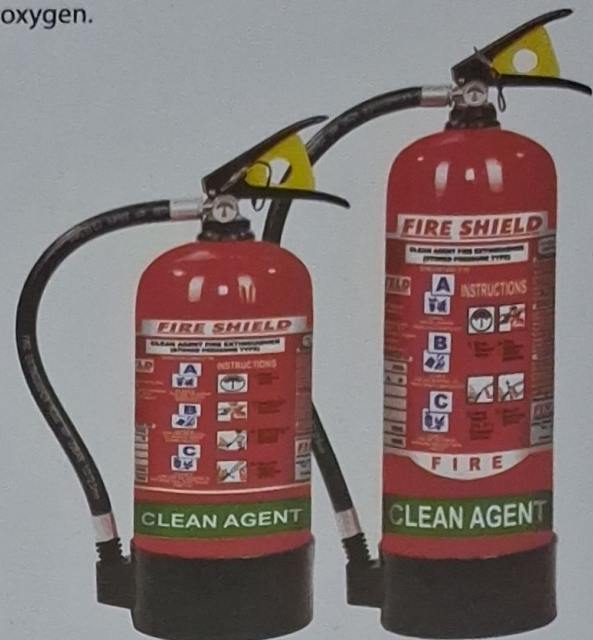
HFC CLEAN AGENT FIRE EXTINGUISHERS

Safe, effective, environment - friendly

Fire Shield Clean Agent Fire Extinguishers uses, clean agents, viz. HFC 236, HFC 227, FM 200 superpressurized with nitrogen. These are light-weight & easy-to-use fire extinguishers which extinguishes fire within a span of 10 seconds only by a combination of chemical & physical mechanism without effecting the available oxygen.



Automatic



Manual

Specification

Types of Fire Extinguishers	Manual			Automatic		
Capacity (kgs)	2	4	6	2	5	10
I.S. Specification	15683	15683	15683	-	-	-
Test Pressure (Kgf/cm ²)	35	35	35	30	30	30
Bulk Range (m) ≥	2	2.5	3	2m ² /3.5m ³	4m ² /8m ³	8m ² /15m ³
Discharge Time (s) ≥	8	12	16	-	-	-
Fire Rating	8B	1A&13B	2A&21B	-	-	-
Temperature Range	+5°C to +55°C			-	-	-

CARBON-DI-OXIDE CARTRIDGES

For use in Fire Extinguishers

IS:4947



CM/L-5189475



Specification

Capacity (gms)	30	60	120	200	300
I.S. Specification	4947	4947	4947	4947	4947
Test Pressure (Kgf/cm ²)	250	250	250	250	250
Filling Ratio	0.667	0.667	0.667	0.667	0.667

IS:5290
ISI
CM/L-5448776



FIRE SHIELD

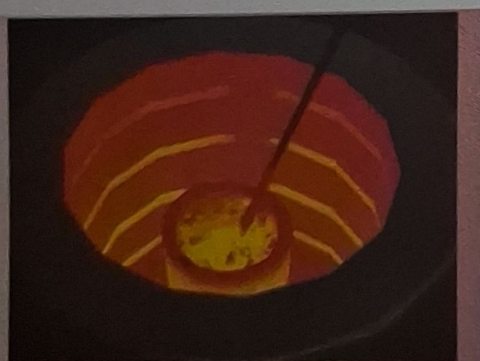
Make Landing Valve
(Type 'A') ISI Marked



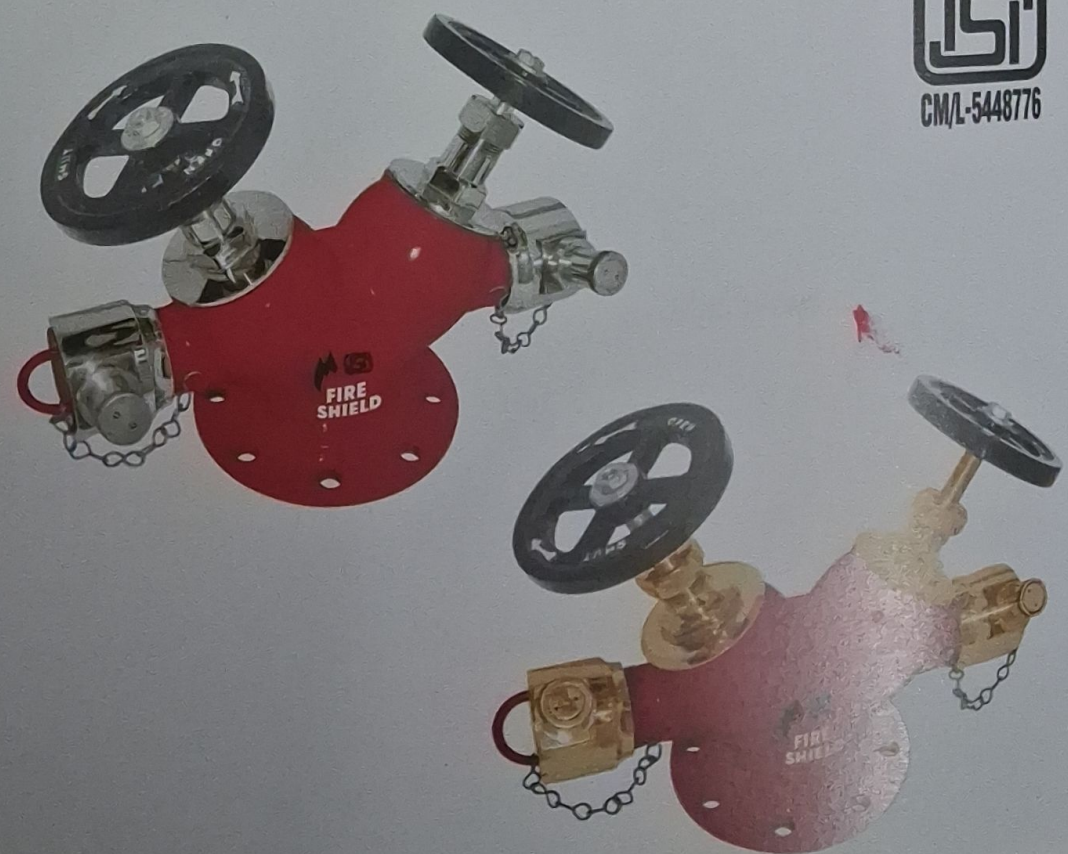
Specification : Oblique type, flanged inlet of 75mm with 200mm OD & 160mm PCD, with single female instantaneous outlet of 63mm
MOC : Gun Metal (GM), Stainless Steel (SS 304) & Aluminium (AL)
Performance Test : H.P. tested to 21kgf/cm²

FIRE SHIELD

Make Landing Valve
(Type 'B') ISI Marked



Specification : Conforming to IS:5290, flanged inlet of 100mm with 220mm OD & 180mm PCD, with double head & double female instantaneous outlet of 63mm
MOC : Gun Metal (GM), Stainless Steel (SS 304) & Aluminium (AL)
Performance Test : H.P. tested to 21kgf/cm²



IS:5290
ISI
CM/L-5448776

FIRESHIELD

Advancing Safety Worldwide

IS:903

CM/L-5448675



FIRE SHIELD

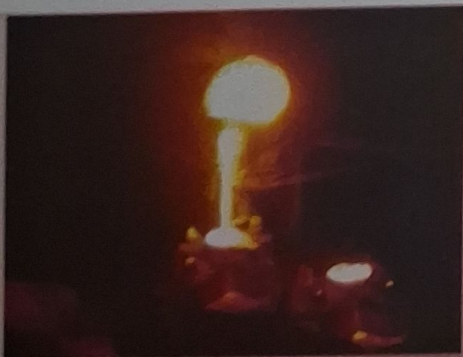
Make Fire Hose Delivery
Coupling ISI Marked



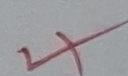
Specification : 63mm Male & Female instantaneous pattern couplings with multi-serrated or ribbed tail
MOC : Gun Metal (GM), Stainless Steel (SS 304) & Aluminium (AL)
Performance Test : H.P. tested to 21kgf/cm²

FIRE SHIELD

Make Branch Pipe &
Nozzle ISI Marked



Specification : Solid jet type, hand-held Nozzle having 63mm male instantaneous coupling-connection
MOC : Gun Metal (GM), Stainless Steel (SS 304) & Aluminium (AL)
Performance Test : H.P. tested to 21kgf/cm²



IS:903

CM/L-5448675

FIRE SHIELD RUBBERLINED HOSE TYPE A & TYPE I

Description

Time tested traditional quality, spurn polyester and polyester filament synthetic jacketed fire hose with high ozone resistant EPDM rubber lining, conforming to BS: 6391 (Type 1) & IS:636 (Type A).

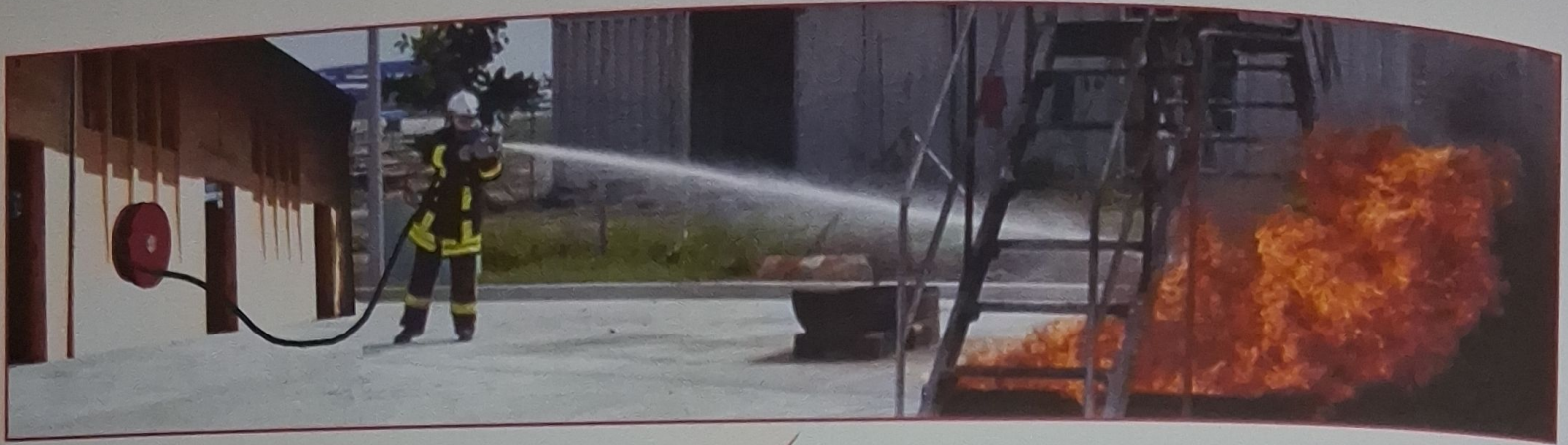
Salient Features

- Widely approved and standardized by Defense & State Fire Service
- Easy Visibility
- Maintenance free
- Suitable for use in multi storeyed buildings, Power Plants, Steel Plants, Railways, Mines & all other industries
- Fungus and heat resistant
- Length up to 30 meter (max) as per customer demand



Specification

Fire Shield - Rubberlined Hose Type A & Type I						
Internal Diameter		Max. Weight	Proof Pressure		Burst Pressure	
mm	Inch		PSI	Kg/sq.cm	PSI	Kg/sq.cm
38	1½"	260	315	22	515	36
50	2"	335	315	22	515	36
63	2½"	425	315	22	515	36
70	2¾"	480	315	22	515	36



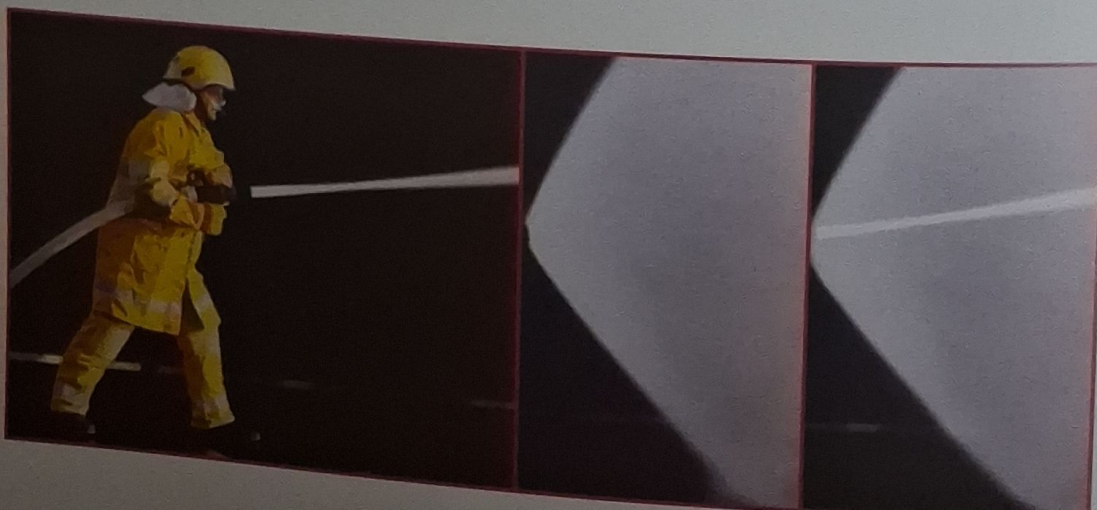
HOSE REEL



- IS : 884 / EN 671 - 1
- Side plate powder coated finish red
- Threaded Inlet connection
- Outlet connection for hose can rotate for left and right direction
- Waterways made Seamless tubing
- Operating pressure : 150 PSI Max
- Flow rate : 16GPM at 100 PSI
- Fixed / Swinging Type

Specification

Description	Hose Size	Hose Length
Swinging Type	3/4"	30 Meter



ALARM VALVE

Description

Alarm Valve is a double seated clapper check valve with grooved seat design, which ensures positive water flow for alarm operation and is designed for installation in wet pipes sprinkler system. external bypass prevets false alarm under all supply pressure condition. In the event of variable pressure condition, false alarm is prevented with the provision of retard chamber, thus the design allows for installation under both variable and constant supply pressure condition.

Operation of one or more automatic fire sprinklers causes the water flow into the sprinkler system causing the alarm valve to open, allowing continous flow of water into the system and transmittal of alarm, both electrical and mechanical.

Operation

The Fire protection system initially when being pressurized, will allow water to flow into the system until the water supply and system pressure is equalized and the clapper closes the waterway. Once the pressure is stabilized, the fire protection system is ready to be placed in service and then the alarm control valve must would show a higher or equal pressure reading than the water pressure gauge connected to the supply side of the valve. This occurs because of the bypass line connecting downstream and upstream side of the alarm valve, which allows water pressure side of the alarm valve, which allows water pressure surge to pass without lifting the valve clapper off its seat, thereby causing excessive high pressure surge entrapped in the system side due to presence of a check valve, which generally prevents false alarm.

Sudden high pressure surge, as might be encountered by the start-up of a large fire pump may lead the valve clapper to lift momentarily, allowing water to flow through grooves in the valve seat to the retard chamber. The water in the alarm line is automatically drained out, which helps to prevent false alar due to successive transient surge in supply pressure. Restriction assembly located beneath the retard chamber consists of inlet and drain restriction orifices, which are established by considering the volume of the retard chamber to meet the listing and approval requirement with regard to time-to-alarm. These requirements represent a balancing of the need to reduce the possible false alarm due to a transient surge in supply pressure and to achieve desired minimum time-to-alarm following a sprinkler operation.

In constant presure installation, the retard chamber is not required and the water passing through the groove in the alarm valve seat flows directly through restriction nozzle assembly to activate the machanical & electrical alarm.



Specification

END CONNECTION	Flange X Flange Flange X Groove Groove X Groove
NOMINAL SIZE	200, 150, 100 & 80 NB
MAXIMUM SERVICE PRESSURE	17.5 Bar (250 PSI)*
THREADED OPENING	BSPT
MOUNTING	Vertical
FLANGE CONNECTION	ANSI B16.42 #150 (Flange drilling matching to ANSI B16.5#150)
TRIM	Galvanised Fitting With Brass Valves
FACTORY HYDROSTATIC TEST PRESSURE	35 Kg./Sq.. Cm. (500PSI)
FRICTIONAL LOSS IN TERMS OF EQUIVALENT LENGTH OF PIPE (C-120)	200 NB - 7.50 Mtrs. 150 NB - 7 Mtrs. 100 NB - 6.2 Mtrs. 80 NB - 4.7 Mtrs.
FINISH	Red RAL 3000
APPROVAL	UL Listed

SPR

Specification

Style
Sizes
Max. Service
Approvals

Application

Sprinkler Flexi
sprinkler head
easily position
height. Installa
require any sp

The flexible dr
a corrugated s
and brackets,
to locate and
but also make
eliminating c

The structure
thread (whic
seat at the R
leakage cause
unskilled ins

Description

The HD-Fle
to save time
unskilled w
to be instal
high qualiti

SPRINKLER FLEXIBLE DROP

Specification

Style	Unbraided & Braided
Sizes	700mm, 100mm 1200mm 1500mm, 1800mm
Max. Service Pressure	175 PSI (12 Bar)
Approvals	UL Listed

Application

Sprinkler Flexible Drop system is a ready to use assembly to fit sprinkler heads in desired location in a suspended ceiling. it easily positions the sprinkler in center of ceiling tile at a correct height. Installation can be done in 10 to 15 minutes and does not require any special preparation.

The flexible drop system is a complete unit in itself which includes a corrugated stainless steel flexible drop with nipple, square bar and brackets, which are fitted to the ceiling tile support rails to locate and secure the sprinkler in the correct position time but also makes the installation process a 'mess-free' activity by eliminating cutting and threading activities on site.

The structure of threaded connection of the fitting is a limited thread (which cannot be over-tightened), and the packing seat at the Reducer and Nipple is tapered to 45°. This prevents leakage caused by damaged packing due to over tightening by an unskilled installer.

Description

The HD-Flex Sprinkler Drop is an innovative product designed to save time and cost. It can be installed fast with ease by an unskilled worker and its flexibility also allows the sprinkler drop to be installed in a limited space. The advance technology and high quality control of FIRE SHIELD meets customers' high



standard. HD-Flex Sprinkler Drop is design in accrdance with NFPA 13, 13D, and 13R for limited flexible application.

All of Anchoring components to building components for this sprinkler hose fitting are intended for use with drop ceilings, reference to specific ceiling constructions such as intermediate and heavy duty ceiling as described in the standard Specification for the Manufacture, Performance, Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel ceiling, ASTM C635 when installed in accordance with the standrd practice for installation of Metal Ceiling Suspension System for Acoustical Tile and Lay-in Panel ASTM C636.

Pendent, Upright And Recessed Pendent Sprinkler

Specification

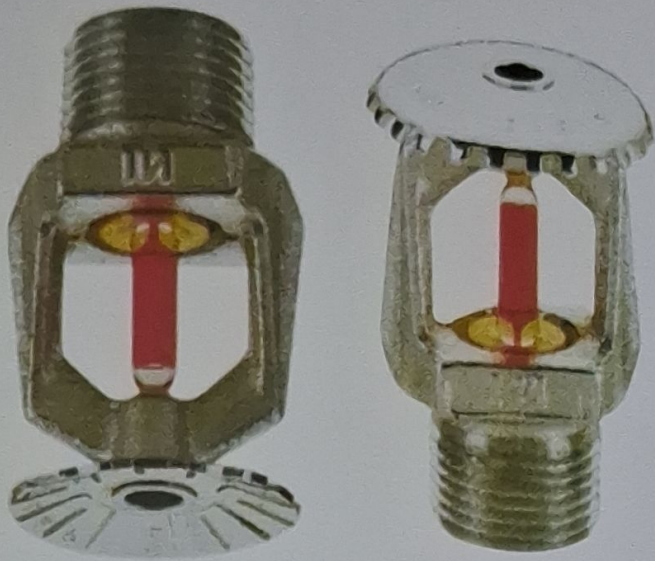
Style	Upright, Pendent and Recessed Pendent
Temperature Response	Standard Response - 5mm glass bulb Quick Response - 3mm glass bulb
Coverage	Standard Coverage
K-Factor	5.6 US (80 metric)
Nominal Thread Size	1/2" NPT or BSPT
Max. Working Pressure	175 PSI (12 Bar)
Factory Hydrostatic Test Pressure	500 PSI (35 Bar)
Min. Operating Pressure	7 PSI (0.5 Bar)
Temp. Rating	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F)
Approvals	Refer Table - 1

Description

Pendent & Upright Sprinkler

HD Pendent and Upright Sprinklers are designed for use in light and ordinary hazards. The temperature response is standard response (5 mm glass bulb) and quick response (3mm Glass Bulb). The sprinklers come with compact design, glass bulb type, available in several different finishes and temperature ratings. The position, and upright sprinklers are to be installed in the upright position.

Pendent Recessed Sprinklers are installed with adjustable or non-adjustable Escutcheon plates (also termed as Rosette plates). These are intended to be installed with finished ceilings. Escutcheon plate adjustment provides convenience in Pendent Sprinkler installation in case of areas with finished ceilings or walls.



Approvals

HD SIN	RESPONSE TYPE	TYPE	TEMP RATING	LISTING
HD201	QR	PENDENT	57°C (135°F) 68°C (155°F) 79°C (175°F) 93°C (200°F)	UL
HD202	QR	UPRIGHT	57°C (135°F) 68°C (155°F) 79°C (175°F) 93°C (200°F)	UL
HD101	SR	PENDENT	57°C (135°F) 68°C (155°F) 79°C (175°F) 93°C (200°F)	UL
HD202	SR	UPRIGHT	57°C (135°F) 68°C (155°F) 79°C (175°F) 93°C (200°F)	UL

Sprinkler Operation

The Sprinkler operation device is state of the art heat responsive frangible glass bulb supply by a world leader in this innovative technology. The glass bulb contains a fluid which expands when exposed to heat.

When the rated temperature is reached the bulb shatters and water flows through the sprinkler and strikes the deflector, forming a uniform water spray pattern to control or extinguish the fire.

HORIZONTAL
SI

Description

Horizontal

HD Horizontal Sprinklers are designed for use in light and ordinary hazards. The temperature response is standard response (5 mm glass bulb) and quick response (3mm Glass Bulb). The sprinklers come with compact design, glass bulb type, available in several different finishes and temperature ratings. The position, and upright sprinklers are to be installed in the upright position. The HD Horizontal Sprinkler is designed for use in light and ordinary hazards. The temperature response is standard response (5 mm glass bulb) and quick response (3mm Glass Bulb). The sprinklers come with compact design, glass bulb type, available in several different finishes and temperature ratings. The position, and upright sprinklers are to be installed in the upright position. The HD Horizontal Sprinkler is designed for use in light and ordinary hazards. The temperature response is standard response (5 mm glass bulb) and quick response (3mm Glass Bulb). The sprinklers come with compact design, glass bulb type, available in several different finishes and temperature ratings. The position, and upright sprinklers are to be installed in the upright position.

Sprinkler

The Sprinkler operation device is state of the art heat responsive frangible glass bulb supply by a world leader in this innovative technology. The glass bulb contains a fluid which expands when exposed to heat. When the rated temperature is reached the bulb shatters and water flows through the sprinkler and strikes the deflector, forming a uniform water spray pattern to control or extinguish the fire.

CONCEALED PENDENT SPRINKLER



Temp. Rating Approvals

68°C (155°F) for Sprinkler bulb & 57°C (135°F) for Cover Plate, for Quick Response Sprinkler.

57°C & 68°C (135°F & 155°F) for Sprinkler bulb & 57°C (135°F) for Cover Plate, for standard Response Sprinkler.

79°C & 93°C (135°F & 155°F) for Sprinkler bulb & 68°C (155°F) for Cover Plate, for standard Response Sprinkler.

Description

Pendent Concealed Sprinklers

HD Pendent Concealed Sprinkler are thermo-sensitive glass bulb sprinklers having decorative flat cover plate designed to conceal the sprinkler for smooth ceiling. The cover plates are available in several decorative finishes to match architectural requirements. The unique design allows installation and testing of the sprinkler prior to installation of the cover plate with cup. Sprinkler housing is threaded to fix cover plate with cup assembly to provides 12.7mm (1/2") vertical adjustment.

Specification

Style	Concealed Sprinkler
Temperature Response	Standard Response - 5mm glass bulb Quick Response with 3mm glass bulb
Coverage	Standard Coverage
K-Factor	5.6 US (80 metric)
Nominal Thread Size	1/2" NPT or BSPT
Max. Working Pressure	175 PSI (12 Bar)
Factory Hydrostatic Test Pressure	500 PSI (35 Bar)
Min. Operating Pressure	7 PSI (0.5 Bar)
Finish	Chrome Plated

The cover plate and the cup design allows installation of the sprinkler and pressure testing of the fire fighting system prior to installation of a suspended ceiling or final painting of the ceiling. The sprinkler cover assembly can be removed and reinstalled for removal of ceiling panels for access to building service equipments. HD Pendent Concealed Sprinklers are Standard Response (5mm glass bulb) or Quick response (3mm glass bulb) with standard coverage.

Sprinkler Operation

The Sprinkler operating device is state of the art heat responsive frangible glass bulb supplied by a world leader in this innovative technology. The glass bulb contains a fluid which expands when exposed to heat.

When the rated temperature is reached, the bulb shatters and water flows through the sprinkler and strikes the deflector, forming a uniform water spray pattern to control or extinguish the fire.

Water Jet Monitor

- Standpost Mounted
- Carbon Steel Water Ways
- Hot Dipped Galvanised
- Gun Metal Swivel joint with S.S. ball Bearings
- Flanged Inlet
- Horizontal 360° & vertical +90° & -45° rotation
- Max. Working Pressure 150 PSI
- Locking Device for Horizontal and vertical position
- Solid jet Nozzle

Specification

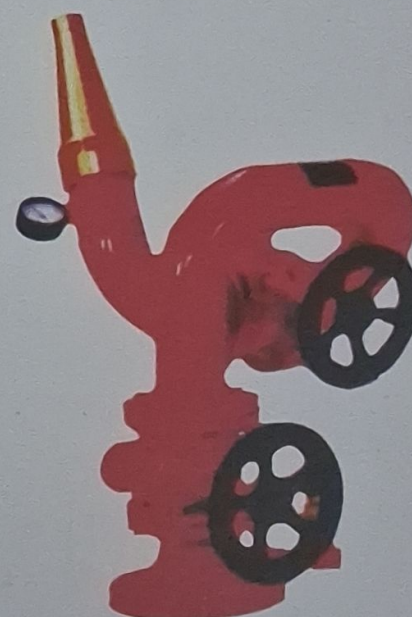
Description	Nozzle
500 GPM @ 100 PSI with 2 ½ " Waterways	Aluminium Alloy
625 GPM @ 100 PSI with 3 " Waterways	
1000 GPM @ 100 PSI with 4 " Waterways	

Note: Above Monitors are also available with Jet Spray, Aqua Foam Nozzles & Foam Barrel.



Long Range Water monitor

- Standpost Mounted Type
- Horizontal 360° & vertical +90° & - 45° rotation
- Hand - wheel for rotation of Swivel Joint
- Available in S.S. or Carbon Steel
- Gun Metal Swivel Joint with Ball Bearing
- Hot Dipped Galvanised for carbon Steel Construction
- Can be used with Jet Nozzle or Jet Spray Nozzle
- Flanged Inlet



Specification

Description	Monitor MOC	Nozzle MOC
1000 GPM @ 100 PSI with 4 " Waterways with Jet Nozzle	Carbon Steel S.S. Gun Metal	Aluminium Alloy S.S. Gun Metal
1000 GPM @ 100 PSI with 4 " Waterways with Jet-Spray Nozzle		
1250 GPM @ 100 PSI with 4 " Waterways with Jet Nozzle		
1250 GPM @ 100 PSI with 4 " Waterways with Jet-Spray Nozzle		
1500 GPM @ 100 PSI with 4 " Waterways with Jet Nozzle		
1500 GPM @ 100 PSI with 4 " Waterways with Jet-Spray Nozzle		
2000 GPM @ 100 PSI with 6 " Waterways with Jet Nozzle		
2000 GPM @ 100 PSI with 6 " Waterways with Jet-Spray Nozzle		
4000 GPM @ 100 PSI with 8 " Waterways with Jet Nozzle		



2-Way Inlet Breeching

- Body : Cast Iron
- Inlet : Two Instantaneous with NRV
- Outlet : Flanged - 80 NB
- Working Pressure : 150 PSI
- Test Pressure : 325 PSI

Specification

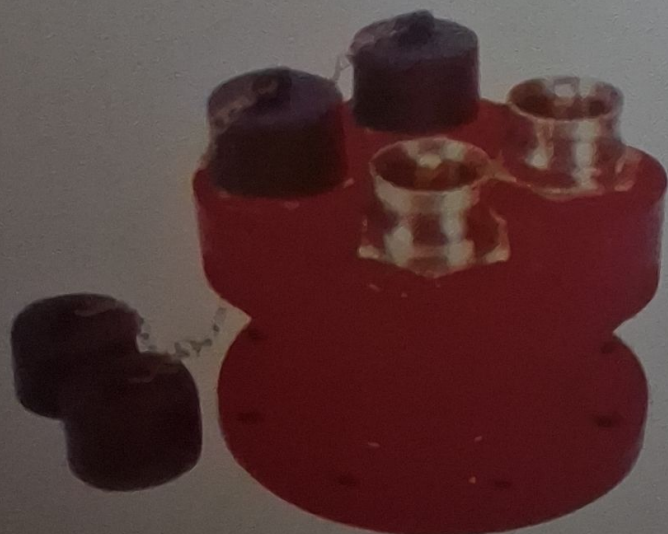
Description	Material of Construction
Two way Inlet Breeching	Cast Iron with GM / SS

3-Way Inlet Breeching

- Body : Cast Iron
- Inlet : Three Instantaneous with NRV
- Outlet : Flanged 100 NB
- Working Pressure : 150 PSI
- Test : pressure : 325 PSI

Specification

Description	Material of Construction
Three way Inlet Breeching	Cast Iron with GM / SS



4-Way Inlet Breeching

- Body : Cast Iron
- Inlet : Four Instantaneous with NRV
- Outlet : Flanged - 150 NB / 100NB
- Working Pressure : 150 PSI
- Test Pressure : 325 PS

Specification

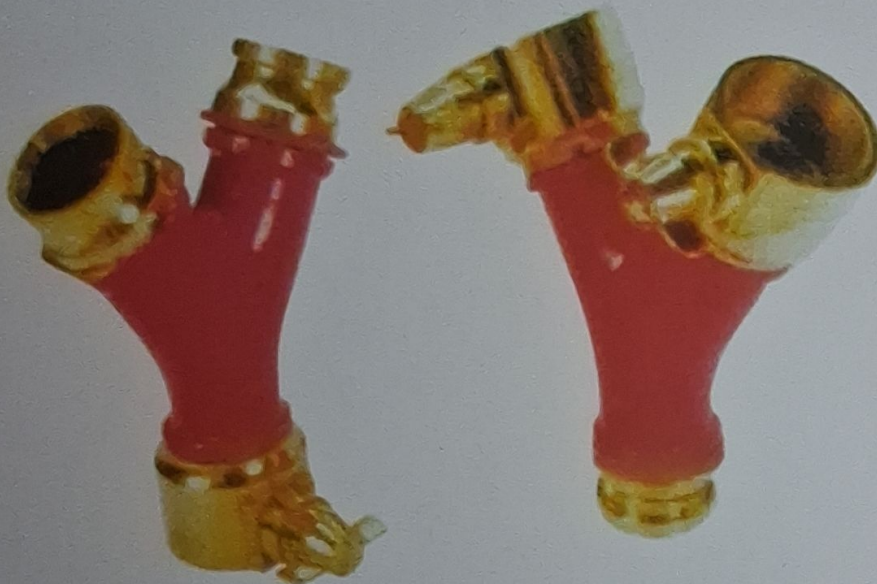
Description	Material of Construction
Four way Inlet Breeching	Cast Iron with GM / SS

Air release Valve

- Body : Copper Alloy
- Inlet Connection : Threaded male Connection

Specification

Description	Material of Construction
Inlet Connection with ¾" BSP	Copper Alloy
Inlet Connection with 1" BSP	



Dividing and Collection Y Breeching

- Intel and Outlet Collection : Instantaneous
- Max. Working Pressure : 150 PSI
- Hydro testing Pressure : 350 PSI
- Size : 1½" & 2½"

Specification

Description	Material of Construction
Dividing Breeching	Gun Metal
Collecting Breeching	

Hose Box

- Suitable for storing one / two nos. 7.5 / 15 Mtr hoses & one Nozzle
- Lightweight
- Weatherproof Powder Coated
- Wall Mounted with M.S. Stand
- Finished with P.O Red Colour

Specification

Description	Size	Material of Construction
Double Hose Box	30 X 24 X 10"	CRC Sheet
Single Hose Box	20 X 24 X 10"	



Conventional Fire Alarm & Detection System

- Proven detection performance
- Wide operating voltage with flashing-LED
- Usable with security systems

FIRE DETECTORS

The detection of fire is the first and the most important step in order to initiate the process of extinguishing any fire. Fire Detectors detect the fire through smoke or heat and signal the Control Panel by electronic impulses about the alarm-state.

IONISATION SMOKE DETECTOR

As smoke enters the detector, it reduces the current flow in the low activity radioactive foil of Americium 241, increasing the voltage, monitored by electronic circuitry, which triggers the detector into alarm-state.



OPTICAL SMOKE DETECTOR

As smoke enters the detector the light pulse from LED gets scattered, which is registered by the photo-diode, changing the detector into alarmstate.



HEAT DETECTOR

In the event of fire, the temperature of the exposed thermister increases rapidly, resulting in an imbalance, causing the detector to change into alarm-state.



BASE

The base have been designed to enable detectors to be plugged in without any need for force, particularly useful while fitting to the suspended ceilings.



HOOTER

Provides a distinct audible alarm in the state of fire, after receiving an electronic impulse from the Control Panel.



RESPONSE INDICATOR

Indicator LED produces red light in alarm-state, providing a visual signal.



MANUAL CALL POINT

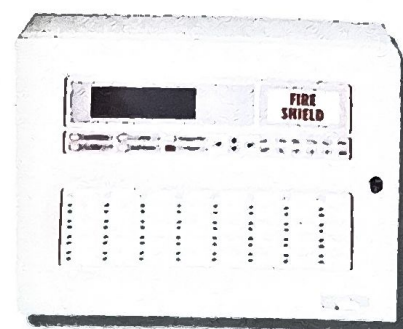
An optional component providing an added advantage of manually signaling the Control Panel about the alarm-state.



Microprocessor based Conventional/Analogue Addressable Fire Alarm Control Panels

After receiving electronic impulses from the detectors or MCP it declares the emergency state of fire by sounding the hooters.

- 2 - 16 zones/2 or 4 loop & 2 to 16 loop capacity.
- Upto 26 devices per zone/126 devices per loop.
- User friendly controls with clear, unambiguous screen.
- Battery back-up with built-in charging.
- Public address system with two-way communication .
- Automatic test mood with cross-zoning facility.
- Compliant with IS : 2189 & EN54 parts 2 & 4.
- Extensive mode change options by day/night and special group allocation.
- Windows-based, fully upload/download PC software package.
- User definable text messages.
- Compatible with Auto-Dialers to intimate fire-emergency.

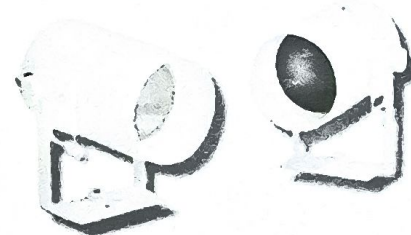


Beam Detector

Principle: It consists of three main parts - the transmitter, which projects a modulated infra-red light, the receiver, which registers the light and produces an electrical signal and the interface, which processes the signal and generates alarm or fault signals.

Coverage: The transmitter and receiver are designed to be fitted on opposite walls approximately 30 to 60 cm below the ceiling, to protect an area upto 100 m long and 15 m wide, a total of 1500 m².

Applications: It has been designed to protect large open spaces such as museums, churches, warehouses, factories, shopping malls etc.



Flame Detector

Principle: An infrared sensor, designed to detect specific types of flames, making it immune to solar radiation and other nuisance sources of infrared. It is sensitive to low-frequency, flickering infra-red radiation, emitted by flames during combustion.

Applications: It is designed for use in large areas that require a detector to give a fast response in potentially dusty or highly flammable environments, such as textile factories, aircraft hangars etc.



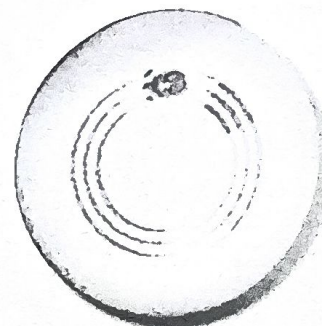
Battery Operated Detector

Easy installations, No wiring / ducting

Applications :

It is operated on battery, meant for use in small areas like home, small offices, workshops etc.

- Easy testing facility by depressing the button.
- Easy installation with convenient clamps.
- Low battery signal is indicated when it beeps about once a minute.



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be supplied



SYSTEMS