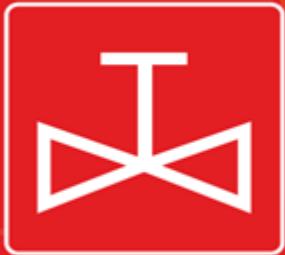


NFP



FIREFIGHTING & SAFETY CATALOG



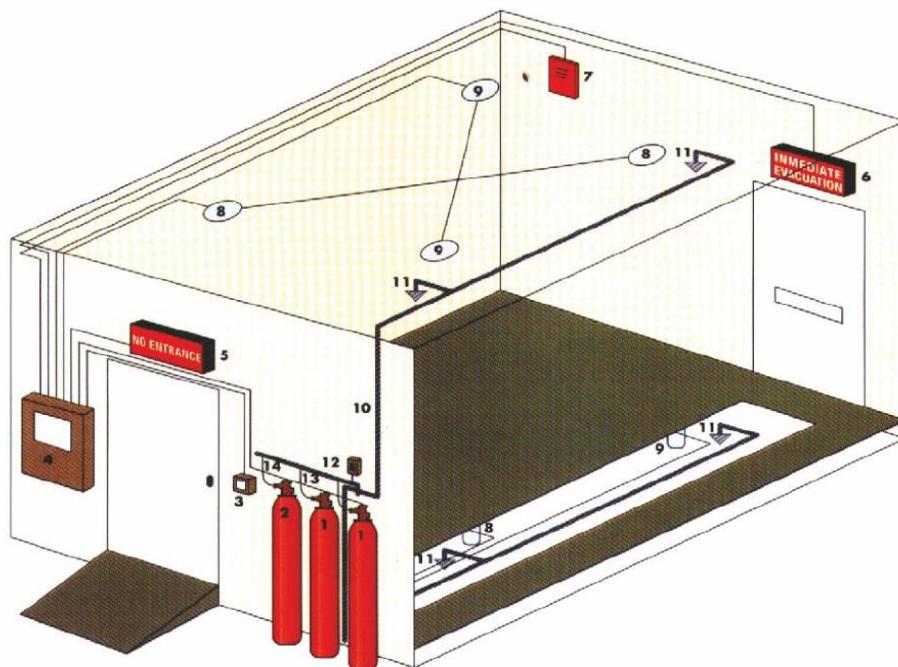


FIRE PROTECTION SYSTEMS

CLEAN AGENT FIRE EXTINGUISHING SYSTEM

The benefits of a Clean Agent Fire Extinguishing System are speed in suppressing fires, reducing damages, saving on floor space and allowing visibility. It leaves no residue and doesn't require costly clean-up, unlike sprinklers and other fire protection systems. Our systems are designed to extinguish a fire quickly and effectively thus allowing businesses to continue operating with minimal interruptions.

Clean Agent Fire Extinguishing Systems are great in applications ranging from telecommunications and data processing to switch gear rooms, military applications and cell sites to high-tech medical applications.



1. Master Cylinder
2. Slave Cylinder
3. Abort Button
4. Control Panel
5. Warning Sign
6. Warning Sign
7. Siren
8. Zone 1 Detector
9. Zone 2 Detector
10. Piping
11. Nozzle
12. Pressure Switch
13. Manifold
14. Discharge Hose

FM-200® GAS BASED FIRE EXTINGUISHING SYSTEM

- Colourless, odourless and non conductive
- No Ozone layer depletion
- Extinguishes fires mainly by physically
- No residue to clean up after discharge
- Suitable for occupied areas
- Widely accepted as substitute to Halon 1301
- Economic
- Discharge time: 10 seconds

Applications: Computer rooms, electrical equipment rooms/centers, industrial areas, valued material storages, archives, museums, telecommunication equipment rooms, oil and gas industry, turbine cabinets.



■ NAF 125 (HFC 125) GAS BASED FIRE EXTINGUISHING SYSTEM

- Colourless, odourless and non conductive
- No Ozone layer depletion
- Extinguishes fires absorbing heat
- No residue to clean up after discharge
- Suitable for occupied areas
- Widely accepted as substitute to Halon 1301
- Discharge time: 10 seconds

Application: Computer rooms, electrical equipment rooms/centers, valued material warehouses, archives etc.



■ INERT GAS (ARGON IG01) FIRE SUPPRESSION SYSTEM

- Natural gas present in the atmosphere
- Design in compliance with ISO 14520, NFPA 2001 and CEA 4008
- Suitable for occupied areas
- Electrically non-conductive
- No residue to clean up after discharge
- More economical and less storage space
- Zero Ozone Depletion Potential
- No greenhouse effect
- No decomposition products

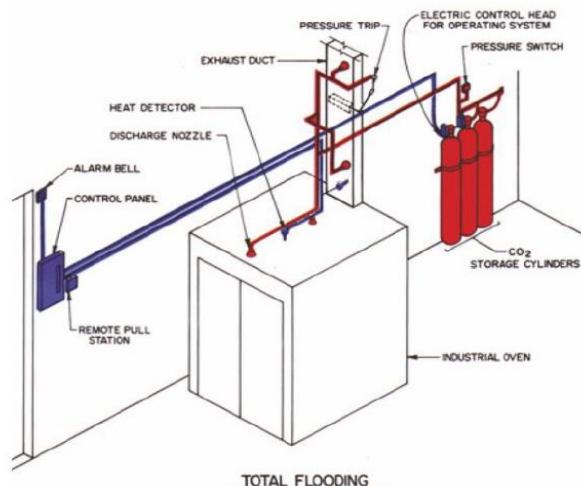
Application: It is ideal for the protection of archives, computer rooms any other electrical installation that may present a fire hazard.



■ CO₂ GASEOUS SUPPRESSION SYSTEM

- No Ozone layer depletion
- Extinguishes fires mainly by physically
- Local application or total flooding application
- Not suitable for occupied areas
- Low refilling cost, Locally available and easily refilled
- Discharge time: 60 seconds

Applications: Transformer rooms, electrical equipment rooms/centers, valued material storages, archives, cable and installation galleries, flammable equipments warehouse etc.



■ WATER MIST SYSTEM

- Ecological. Does not harm environment
- Safe for the protection of equipment and occupied areas
- Minimal water damage
- Efficient for flammable liquid fires
- Electrically non conductive (use of demineralised water)
- Rapid temperature reduction
- Economical. Minimum cost of extinguishing agent
- Independent system or pumping equipment



Applications: Flammable liquid fires, wet chemical and industrial fires, turbine and generator cabins, transformer rooms, walking ladders and escalators, valued material warehouse, cable and installation galleries, road tunnels.

■ FIRE SPRINKLER SYSTEM

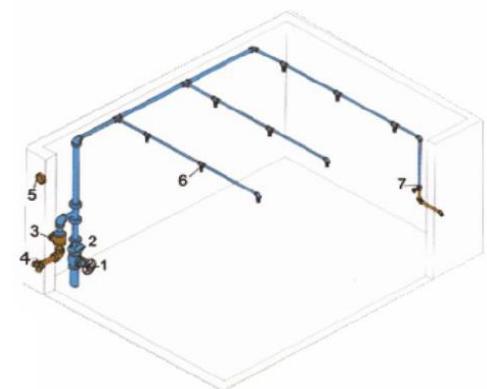
For fire protection purposes, an integrated systems of underground and overhead piping designed in accordance with fire protection engineering standards. The installation includes at least one automatic water supply that supplies one or more systems. The portion of the sprinkler system above ground is a network of specially sized or hydraulically designed piping installed in a building, structure, or area, generally overhead, and to which sprinklers are attached in a systematic pattern. Each system has a control valve located in the system riser or its supply piping. The system is usually activated by heat from a fire and discharges water over the fire area.



■ WET SPRINKLER SYSTEM

A sprinkler system employing automatic automatic sprinklers attached to a piping system containing water and connected to a water supply so that water discharges immediately from sprinklers opened by heat from a fire.

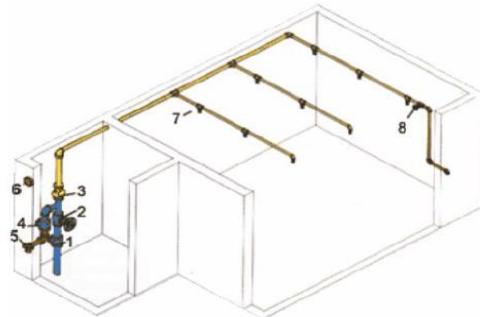
1. Control Valve
2. Wet Alarm Check Valve
3. Check Valve
4. Water Supply
5. Water Motor Gong
6. Automatic Sprinkler
7. Test & Drain Valve



■ DRY SPRINKLER SYSTEM

A sprinkler system employing automatic sprinklers that are attached to a piping system containing air or nitrogen under pressure, the release of which (as from the opening of a sprinkler) permits the water pressure to open a valve known as a dry pipe valve, and the water then flows into the piping system and out the opened sprinklers.

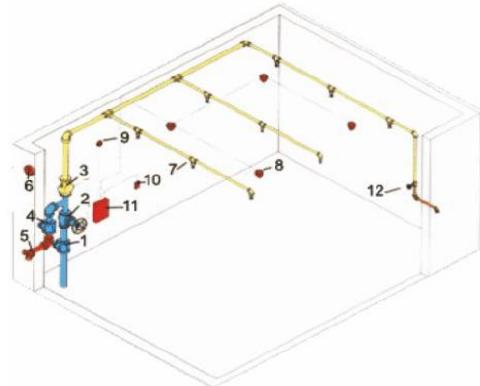
1. Control Valve
2. Alarm Check Valve
3. Dry Pipe Valve
4. Check Valve
5. Water Supply
6. Water Motor Gong
7. Automatic Sprinkler
8. Test & Drain Valve



■ PRE-ACTION SPRINKLER SYSTEM

A sprinkler system employing automatic sprinklers that are attached to a piping system that contains air that might or might not be under pressure, with a supplemental detection system installed in the same areas as sprinklers.

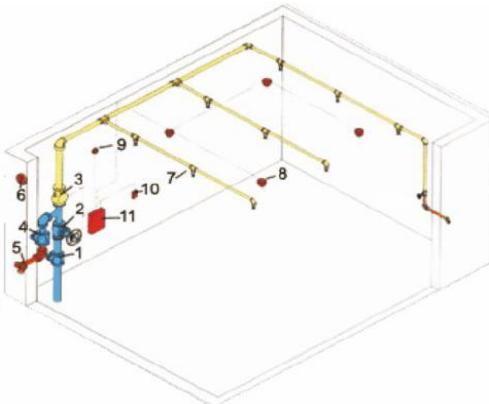
1. Check Valve
2. Control Valve
3. Preation Valve
4. Check Valve
5. Water Supply
6. Water Motor Gong
7. Sprinkler (closed)
8. Detector
9. Siren
10. Manual Release Station
11. Control Panel
12. Test & Drain Valve



■ DELUGE SPRINKLER SYSTEM

A sprinkler system employing open sprinklers that are attached to a piping system that is connected to a water supply through a valve that is opened by the operation of a detection system installed in the same areas as the sprinklers. When this valve opens, water flows into the piping system and discharges from all sprinklers attached thereto.

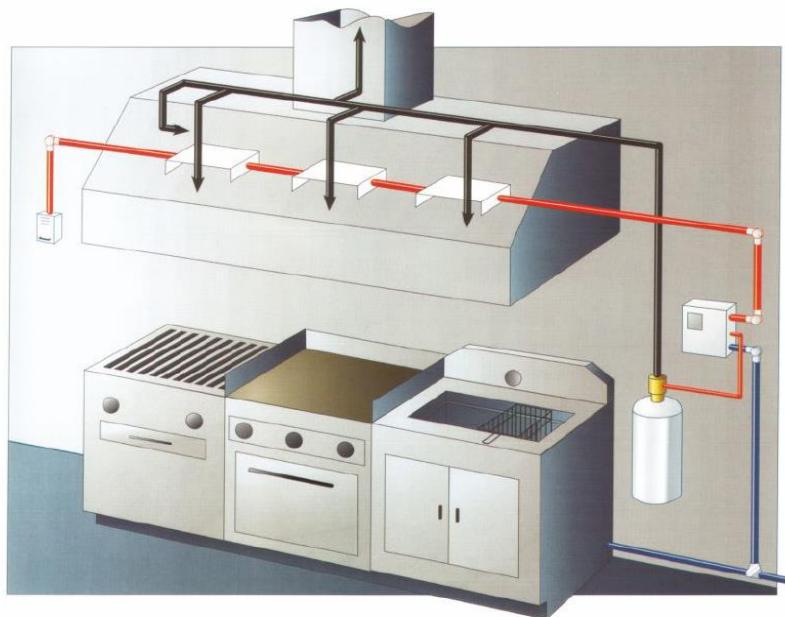
1. Check Valve
2. Control Valve
3. Deluge Valve
4. Check Valve
5. Water Supply
6. Water Motor Gong
7. Sprinkler (open)
8. Detector
9. Siren
10. Manual Release Station
11. Control Panel



KITCHEN WET CHEMICAL SYSTEM

Wet chemical is most commonly used to extinguish cooking oil fires. It is the primary source of extinguishing kitchen fire's, most of the wet chemical potassium compounds are highly corrosive and have limited uses for fire protection.

Wet chemical suppresses fires by a process called saponification. Saponification is the process of chemically converting the fatty acid contained in the cooking medium to soap, or foam, and it accomplishes extinguishment by forming a surface coating.

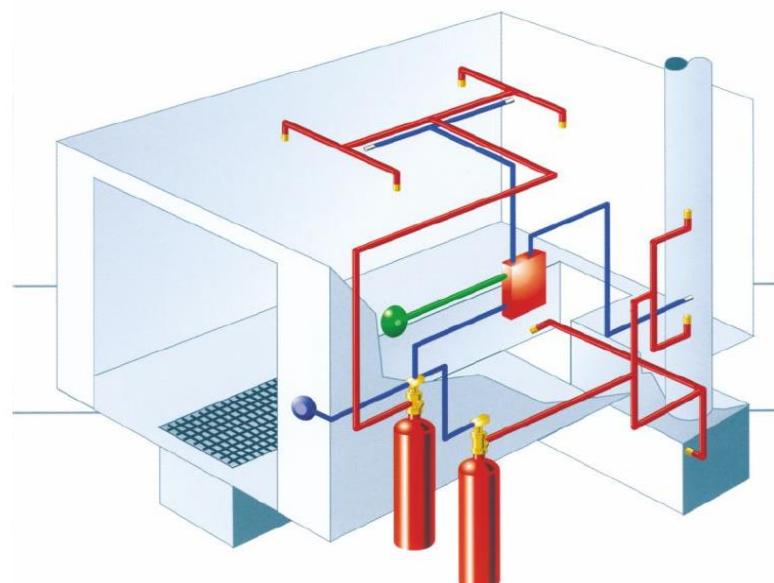


DRY CHEMICAL FIRE SUPPRESSION SYSTEM

Dry Chemical System, provides 24-hour fire protection for a wide variety of industrial processes, equipment, machinery and paint spray booth applications. The system has the choice of two dry chemical agents effective on Class A, B and C fires.

Total flooding or local application design options. The system includes detectors, a control unit, agent storage cylinders, piping and discharge nozzles.

Application: Paints storage areas, spray paint booths, gas stations



FIRE PUMPS

Fire pumps are needed when the local municipal water system cannot provide sufficient pressure to meet the hydraulic design requirements of the fire sprinkler system. This usually occurs if the building is very tall, such as in high-rise buildings, or in systems that require a relatively high terminal pressure at the fire sprinkler in order to provide a large volume of water, such as in storage warehouses. Fire pumps are also needed if fire protection water supply is provided from a ground level water storage tank.

The fire pump starts when the pressure in the fire sprinkler system drops below a threshold. The sprinkler system pressure drops significantly when one or more fire sprinklers are exposed to heat above their design temperature, and opens, releasing water.

All pumps are designed and manufactured in accordance with NFPA 20

Electric:

Capacity Range: 100 - 5000 GPM

Pressure Range: 40 - 470 PSI

HP: 20 – 1000 HP

Diesel:

Capacity Range: 100 - 5000 GPM

Pressure Range: 40 - 475 PSI

BHP: 20 – 1000 HP

RPM: 1470 – 3000 RPM



■ SMOKE & HEAT DETECTORS & SIRENS

■ SMOKE DETECTOR

Smoke detectors sample the atmosphere every four seconds and the measurements are processed by microprocessor. The processing power is used as part of the design to eliminate unwanted alarms.



■ HEAT DETECTOR

Heat Detector monitors temperature by using a single thermistor network which provides a voltage output proportional to the external air temperature.



■ SIRENS

A compact combination of a high output sounder and beacon for areas requiring both audible and visual indication of alarms, ideal for use in noisy manufacturing areas



■ FLAMMABLE and TOXIC Gas Detector

- Infra-red, Catalytic, Electrochemical and PID sensor
- 4-20 mA analog output
- 2 adjustable Alarm level relay contacts
- 1 line, 4 characters LCD display screen
- -20 to +55 C operating temperature
- Stainless steel sensor casing
- Easy Calibration by means of Remote Control
- Aluminum die-cast or Stainless steel casing material
- Normal, Fault and Alarm local LED indication
- Visual alarm rotating LEDs with different frequencies and colors for normal and alarms indication



■ UV/IR FLAME Detector

- Infra-red, Ultra-violent sensor
- 4-20 mA analog output
- adjustable sensitivity range by dip switch
- -20 to +60 C operating temperature
- Aluminum Die-cast ATEX approved body
- Weather proof IP 65
- Easy access to termination without touching sensors alignment
- Normal, Fault and Alarm local LED indication
- Built-in Test Technology



SAFETY EQUIPMENT

■ RESPIRATORING

■ SELF CONTAINED BREATHING APPARATUS

Specially developed for long duration maintenance operations in an industrial environment, where the atmosphere is toxic or oxygen-deficient.

- EN 139 • EN 142 • EN 137 • EN 136 • CE0194/0060



■ SCBA FOR LONG DURATION OPERATION

It can be used with a cylinder or connected to an external breathable air source. Very comfortable and perfectly versatile, it offers the wearer a total protection of the respiratory tracts. Compliant with EN137:2006, type 2.

- EN137:2006 Type 2 • ISO 9001 • Bureau Veritas for Marine use (SOLAS, MSC and MED)



■ SCBA FOR FIRE FIGHTING AND OIL&GAS INDUSTRY

Self Contained Breathing Apparatus designed for firefighting and Oil&Gas industries. It fulfills the requirements of the most recent EN 137 standard, type 2 classification.

- EN 137:2006 Type 2 • CE0194/0060 • ISO 9001 • Bureau Veritas for Marine use (SOLAS, MSC and MED)



■ SCBA DESIGNED FOR SHIPPING

Self Contained Breathing Apparatus designed for shipping, where such devices are mandatory. It is a user-friendly apparatus allowing a safe and comfortable breathing. Compliant with the most recent MED, SOLAS and EN 137, Type 2 standards.

- EN 137:2006 Type 2 • Bureau Veritas for Marine use (SOLAS, MSC and new MED) • CE0194/0060



■ SCBA FOR FIRE FIGHTING

Self Contained Breathing Apparatus specially designed for firefighting. It is very comfortable thanks to its thermo-compressed harness. It fulfills the requirements of the EN 137:2006 standard, type 2.

- EN137:2006 Type 2 • CE0194/0060 • ISO 9001 • Bureau Veritas for Marine use (SOLAS, MSC and MED)



■ SCBA FOR SHORT INSPECTIONS

Self Contained Breathing Apparatus designed with a jacket. User-friendly and versatile, it is ideal for short inspections in confined spaces or for maintenance operations. Can be used for escape thanks to its 10 to 35 mn autonomy.

- EN 137:2006 Type 1 • CEO194 /0060 • ISO 9001



■ MINI SCBA

Self Contained Breathing Apparatus developed for short-duration operations. Can be connected to an external air source for longer interventions. Light, comfortable and designed for quick donning, it provides the end-user with an excellent comfort and breathing safety. Can also be used for escape.

- EN 402 • ISO 9001



■ ESCAPE SOLUTIONS

■ ESCAPE HOOD

Compact and easy to use escape hood for chemical emergency. Lightweight bag for optimal comfort in long duration works. Aluminium bag for safe storage. Wide screen and high visible colour for protection and safety while evacuating.



■ EMERGENCY ESCAPE BREATHING DEVICES

Light, compact and easy to use, our Emergency Escape Breathing Devices (EEBD) are perfectly adapted to confined spaces, marine, industrial and Oil & Gas applications. They are available with a duration from 10 to 20 minutes.

- CE 0194 • EN 402 • EN 1146 • ISO 9001



■ COMPRESSED AIR CYLINDER

Steel and composite compressed air cylinders meet a wide range of applications, needs, and budgets.

All valves are according to EN 144-1 and 144-2



■ PROTECTING CLOTHING

■ REUSABLE TECHNICAL WORKWEAR

Chemical reusable protective suit. Gastight available with SCBA outside or inside.

- EN 943-1 A - Performance requirements for ventilated and non-ventilated "gas-tight" chemical protective suits. Type A: with a breathable air supply
- EN 943-1 B - Performance requirements for ventilated and non-ventilated "gas-tight" chemical protective suits. Type B: with a breathable air supply



Head-to-toe protection for the user against accidental contact with a flame, molten aluminium and metal splashes, convective heat and high radiant heat.



■ WORKWEAR

A complete range of comfortable workwear parkas offering protection against all types of foul weather with watertight seams, padded linings, waterproof outershells and breathable coatings

For those working indoor, a complete range of functional, windproof and warm waistcoats offering comfort and protection

- 89/686/EEC - Comply with the European directive 89/686/EEC and the EN standard 340-PPE category



Ideal waterproof, windproof parkas that will protect you on low visibility environment.

- European Directive 89/686/EEC standards 471 Class 3, EC Category PPE II and EN 340 Protective Clothing General requirements



■ REUSABLE RESPIRATORS

■ FILTERS

Wide range of filters for particulates, gaz/vapor and combined protection. Lightweight filters and ergonomic shape for optimal comfort for long duration works. Resistant plastic case for long durability. Specific threading for enhanced safety.

- EN 14387



■ HALF MASKS FOR SHORT USE

Easy to use, safe and hygienic. Great field of vision thanks to low filters positioning.

- EN 405



■ FULL FACE MASK

Comfortable wear and wide field of vision for long duration works. Soft skirt in silicone with ergonomic design for optimal fitting.

- EN 136

■ INSTRUMENTATION

■ PORTABLE GAS DETECTOR

In order to evaluate how much the human being is endangered by hazardous substances in the ambient air or explosive mixtures of gases and vapours in the air, appropriate measuring instruments can be used to recognize, measure and monitor dangerous concentrations.

- SGS USTC Class 1 Division 1 Groups, A, B, C, D Temp code T3C (Approved to UL-913)
- SGS/USTC Class II, Division 1, Groups E,F,G
- ATEX (DEMKO) Ex d ia IIC 170C (T3)
- ATEX (DEMKO) Ex d ia IIC 170C (T3)



FIREFIGHTING EQUIPMENT

FIRE FIGHTING EQUIPMENT

FIRE CABINETS



■ FIRE EXTINGUISHERS

■ WATER FIRE EXTINGUISHERS

Water is still one of the most useful of all available fire extinguishants. It works through its cooling effect on fire, and under pressure from a controllable-discharge extinguisher, can penetrate and knock out deep-seated Class A fires.

Fire ratings provide a means of measuring the effectiveness of an extinguisher in terms of the maximum size of fire that can be extinguished.



■ FOAM FIRE EXTINGUISHERS

Spray Foam fire extinguishers provide a fast, powerful means of tackling 'A' and 'B' class fires. Highly effective against petrol and volatile liquids, forming a flame smothering seal over the surface and preventing re-ignition. Ideal for multi-risk usage. Fire ratings provide a means of measuring the effectiveness of a fire extinguisher in terms of the maximum size of fire that can be extinguished



■ POWDER FIRE EXTINGUISHER

Dry powder fire extinguishers are a highly versatile Class A, B & C fire-fighting medium suitable for most risks. In addition to dealing with electrical hazards, flammable liquids and gases, powder is also effective for vehicle fires.

■ CARBON DIOXIDE EXTINGUISHER

Fire ratings provide a means of measuring the effectiveness of an extinguisher in terms of the maximum size of fire that can be extinguished. Class B is related to fire surface area and the rating figure to the quantity of flammable liquid in a ratio of 1/3 water, 2/3 fuel that can be extinguished in a circular tray.

Gas is harmless to delicate equipment and materials. Ideal for modern office environments, all electronic risks, and where oils, spirits, solvents and waxes are in use.



■ MOBILE TROLLEY UNITS

Designed to protect large industrial and marine risks, wheeled mobile units can be supplied in a choice of sizes and extinguishant to suit the specific risk.

- Foam
- Powder
- CO₂

FIRE HOSES



Construction

- 100 % high tenacity polyester yarn
- Circular-woven twill weave, warp threads multiple twisted
- High-quality, very light synthetic rubber on the basis of EPDM

Construction

- 100 % high tenacity polyester yarn, circular-woven (reinforcement)
- Embedded in a high-quality, special synthetic rubber on the basis of Nitrile/PVC
- Extruded through the polyester weave



Construction

- 100 % high tenacity polyester yarn yellow dyed
- Circular-woven twill weave, warp threads multiple twisted
- High-quality, very light synthetic rubber on the basis of EPDM

■ SPRINKLER

Standard Spray Sprinkler

Residential Sprinkler

Extended Coverage Light Hazard Sprinkler

Nozzle & Window Sprinkler

Sprinkler Types:

- Upright Sprinkler
- Conventional
- Pendent
- Vertical Sidewall
- Horizontal Sidewall

Temperature Ratings: 57°C, 68°C, 79°C, 93°C, 141°C, 182°C

Water Working Pressure Rate: 175 Psi (12 Bars)

UL Listed, FM Approved



■ ALARM CHECK VALVE

Alarm Check Valves used in wet pipe sprinkler systems. They primarily serve a dual purpose in that they prevent a reverse flow of water through their bodies (non-return) and also provide for the use of a hydraulic fire alarm which is not dependent upon an electrical power supply for its operation.

Water Working Pressure Rating – 175 Psi (12 Bars)

Sizes: 3" – 4" – 6" – 8"

UL Listed, FM Approved



MONITORS

DECK/PORTABLE MONITOR

- Compact folding base can be stored in any truck compartment or preconnected in the hose bed
- Legs lock in folded and deployed positions
- Safety stop at 30 degree above horizontal
- Stainless steel ball bearings at all rotation joints
- Liquid filled pressure gauge
- Grease fittings for lubrication
- Red paint finish
- Dual application-use as portable monitor or add the top flange for deck mount use



SINGLE WATERWAY MONITOR

- Durable, Lightweight Aluminum Construction
- Corrosion resistant brass construction
- Grease fittings at each swivel joint
- Stainless steel ball bearings at each swivel joint
- 360 degree rotation w/positive lock
- Vanes at each elbow to reduce friction loss, improving range of stream



HAND WHEEL MONITOR

- Corrosion Resistant Brass Construction
- Single waterway low friction loss
- Full 360 degree rotation with positive twist lock
- Stainless steel ball bearings
- Red epoxy paint finish
- Vertical travel from 90° above to 60° below horizontal



WATER-POWERED OSCILLATING MONITORS

- The monitor and body of the oscillating unit are manufactured of brass. The water drive wheel is bronze with bronze supply gate valve.
- UL Listed
- Capable of flowing foam or water
- Unique water drive wheel design
- Arc of oscillation adjustable via 6 set points
- Manual override capabilities in both horizontal and vertical degree fields
- Double reduction oil bath gearbox
- Grease fittings and two rows of stainless steel ball bearings at all rotation joints on monitor
- All brass and stainless steel construction
- Monitor has one tiller bar control for manual control
- Unit equipped with a garden hose test connection. This allows functional check of the oscillation mechanism without system flow.





RESCUE EQUIPMENT

HYDRAULIC RESCUE DEVICE

CUTTERS

Heavy Duty Blades provide non-slip cutting action. Dual moving blades with spreading capability make this cutter ideal for the heaviest cuts and an excellent performer in simultaneous tool operation situation

- Opening widths up to 10"
- Cutting force up to 248,000 lbs
- Operating pressure 9,135 to 10,440 PSI
- High pressure pigtails, 20" long, equipped with kink protection
- Automatic locking, flat face quick connect couplings



SPREADER

Made from a high-strength yet light-weight metal alloy. With high forces for spreading, pulling and squeezing applications.

- Spreading widths up to 32 1/4"
- Spreading force up to 156,195 lbs
- Operating pressure 9,135 to 10,440 PSI
- High pressure pigtails, 20" long, equipped with kink protection
- Automatic locking, flat face quick connect couplings



COMBINATION TOOL

A combination tool with an exceptional performance: extreme spreading width and force, cuts with a "bite". The cutting blades are replaceable.

- Spreading width up to 18"
- Unique: design is based on the construction principle of a spreader
- Operating pressure 9,135 to 10,440 PSI
- High pressure pigtails, 20" long, equipped with kink protection



RESCUE RAMS

Rescue rams are the ideal complement to spreading tools.

- Opening widths up to 63" / Spreading force up to 50,400 lbs
- Operating pressure 9,135 to 10,440 PSI
- High pressure pigtails, 20" long, equipped with kink protection
- Automatic locking, flat face quick connect couplings



■ MISCELLANEOUS POWER UNITS

■ POWER UNITS

Power Units with Gasoline Engine

Power Units with Electric Motor

Atex Certified Power Units



■ MOBILE

Gasoline Engine

Electric Engine

Diesel Engine



■ HAND & AIR HYDRAULICS

Compressed Air Hydraulic Pump

- Low weight, easy to use, very mobile
- Low operating noise



Hand Pump

- Low weight, easy to use, very mobile
- Automatic switch-over from low to high pressure for quick work
- Flow rate low pressure: 10,8 cm³



FIRE TRUCK

FIRE TRUCK

Construction

The superstructure is made of Steel Covering. All components of the superstructure are assembled to an auxiliary frame. This frame is fastened to the main chassis by means of suitable fastening to avoid harmful influences on the bodywork.

Design

In such a way to allow maximum accessibility to all areas

Working Deck

Covered by anti-slip material with light alloy handrails.

Roof Access

Climbing ladder is fixed at the rear part of the vehicle to access the roof of the vehicle. Handgrips are provided where necessary.

Storage Lockers

There are four storage lockers on each sides of the vehicle. The lockers are closed by aluminum roller shutters. The base of the lockers are covered with aluminum plates. Drain holes are provided on the floor of the compartment to supply the water drainage.





N F P H
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