



# **PRODUCT MANUAL**

## **FIRE EXTINGUISHER**

**Water CO<sub>2</sub> Cartridge Type (Capacity 6  
& 9 Liter)**

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## [KANEX FIRE EXTINGUISHER] [Water CO<sub>2</sub> Cartridge Type (Capacity 6 & 9 Liter)]

### INTRODUCTION

This manual contains product description, installation, operating, maintenance, inspection and refilling for the KANEX brand Portable Water based Fire Extinguisher of capacity 9 Liter by weight of Liquid. This model is designed to extinguish 'A' and 'B' type fires involving material like Wood, Paper, Cotton, Plastic and Petro Chemical products, Paints, Resins, Pigment, Varnish,

**The water based Fire Extinguisher is not used on compressed gas fire like LPG, CNG, etc. as well as on Electrical Fire.**

### PRODUCT DESCRIPTION

- The principal advantage of KANEX Portable type Water based Fire Extinguisher is that the fire extinguisher is handy type and it is easily handled by a single person.
- Body Shell made of Mild steel sheet as per standard given in IS 513 and IS 15683, is constructed by welding and the shape of the body is cylindrical. The domes ends of the body are dished outwards.
- The charge, Water is an extinguishing media that gives cooling effect on the fire to be put out. The charge is actuated by CO<sub>2</sub> gas cartridge of IS 4947.
- The discharge of the CO<sub>2</sub> gas is by puncturing the frangible disc of cartridge with the piercer needle of the cap. The squeeze grip valve is made of forged Brass material.
- The discharge nozzle is designed to adopt maximum aeration during the performance in water CO<sub>2</sub> type Fire Extinguisher.

### INSTALLATION

Installation of the KANEX Fire Extinguisher requires that the equipment be uncrated, placed in its proper position and secured in place with caster locks.

One set of accessories is packed with fire extinguisher for use in installation either attached with the body or loose in a packet. Please compare your supplied accessories with the following list.

Discharge Nozzle  
Discharge Hose Pipe ( length 560 mm)  
CO<sub>2</sub> Gas Cartridge (Gas weight 60 Gm)  
Wall Bracket



To assemble the Fire Extinguisher,

- Tighten the Discharge Hose at discharge connection of the fire extinguisher. The end of the hose is fitted to the discharge nozzle
- Remove the Cap for filling the extinguishing charge
- The total Capacity of the fire extinguisher is 9 liter. The level up to which the solution (charge) filled is marked on the body externally by labeling “**SOLUTION LEVEL**”. The level is also permanently marked into the body in form of M.S. Strip
- For water CO<sub>2</sub> type fire extinguisher, the extinguishing charge is water.
- Tighten the Cap ensuring the existence of Cartridge fitted with the cap and Cap washer into the Cap. For tightening rotation must be in clockwise direction
- Now, the “KANEX” brand water based Fire Extinguisher is ready to save your properties and lives against FIRE.
- Mount the Fire Extinguisher on wall bracket that shall be properly fitted on wall

### **OPERATION**

- ✓ To be operated the Kanex fire extinguisher is held in an upright position
- ✓ The Discharge Hose is hold firmly in the hand.
- ✓ The safety sealing device is removed
- ✓ The locking clip is pulled
- ✓ The lever is squeezed.
- ✓ The discharge should be directed at the base of the flames

There are two methods of directing the discharge to adopt the better extinguishment

- a) The most commonly used method of agent application on contained flammable liquid fires is to start at the near edge and direct the discharge in a slow, side-to-side sweeping motion, gradually progressing toward the back of the fire.
- b) The other method is called ‘Over head application ‘. The discharge nozzle is directed in a dagger or downward position (at an angle of 45 degrees) toward the center of the burning area.

Generally, for spills fire, the side-to-side sweeping motion could give better results.

The discharge should be applied to the burning surface even after the flames are extinguished to allow added time for cooling and to prevent possible reflash.

### **PRINCIPALS OF OPERATION**

The Water based agent extinguishes by cooling on the Fire surface so that the oxygen levels are kept below the percentage required for combustion.

The range of discharge time for water CO<sub>2</sub> type Fire Extinguisher is 30-40. The percentage discharge of the extinguishing media is more than 90 %.



## INSPECTION, MANINTENANCE AND RECHARGING

The owner or the designated agent or occupant of a property in which fire extinguishers are located shall be responsible for inspection, maintenance and recharging.

### INSPECTION:

Fire Extinguisher shall be inspected when initially placed in service and then after at approximately 30 day intervals for routine maintenance. The inspection should be in following points of view.

- Safety Seals not broken or missing
- Visually damage, corrosion, leakage or clogged discharge connection
- Condition of nozzle, Hose Pipe, Cap, wall bracket and fire extinguisher itself
- Weighing of CO<sub>2</sub> cartridge should be carried out at an interval of at least 3 months.
- If the weight is found less than 10 % the stamped filled weight, embossed onto cartridge nut, send the CO<sub>2</sub> cartridge for recharging immediately.

### RECHARGING:

It is important to reenergize the Fire Extinguisher as soon as possible to eliminate the potential of recombustion or fire. Each fire extinguisher shall have a tag or label securely attached that indicates the month and year recharging was performed and that identifies the person performing the service.

It is essential to recharge the fire extinguisher as soon as the extinguisher is used for either extinguishing the fire or used for demonstration. The extinguisher must be recharged at a stipulated time duration that is a due of refilling.

### **Fire Extinguisher Part List [Water CO<sub>2</sub> (Capacity 6 & 9 Liter)]**

INDEX	DESCRIPTION	MOC	QTY.	UNIT
01	Body Shell	M.S.	01	No.
02	Valve body	Brass	01	No.
03	Neck Ring	M.S.	01	No.
04	Siphon Tube	Plastic	01	No.
05	Discharge Hose	EPDM	01	No.
07	Nozzle	Brass	01	No.
08	CO <sub>2</sub> Gas Cartridge (60 GM.)	M.S	01	No.
09	Mounting Bracket	M.S	01	No.