

LEADING THE FIGHT  
AGAINST FIRE



**SRI**

[www.sri.com.my](http://www.sri.com.my)



**SRI**

**FireTec**

**CARBON DIOXIDE**

**SRI**

**FireTec**

USE UPRIGHT ↑

WARNING: USES ONLY IN  
ESPECIALLY IN A UNIFORM SRI

USE FIRE, ELECTRICAL EQUIPMENT FIRE IN A UNIFORM SRI  
REMOVE AFTER COMPLETE OR PARTIAL DISCHARGE TO AVOID EXPLOSION OR INJURY

**FireTec**

## What is SRI-FireTec ?

SRI-FireTec is a compact, yet very flexible, automatic and autonomous fire detection and extinguishing systems. The system works by automatically detecting and suppressing fire at its infant stage to safeguard the assets.

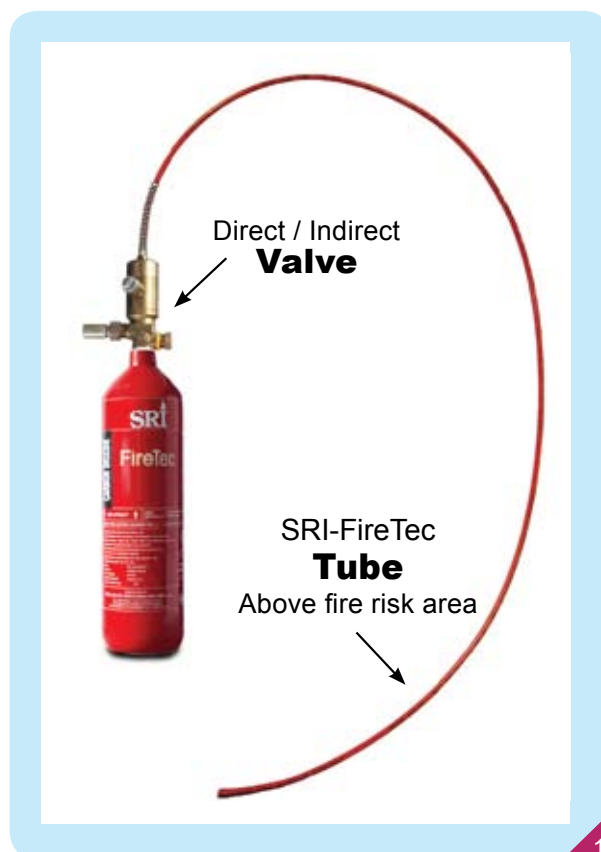
The effectiveness of SRI-FireTec system comes from the revolutionary polymer tubing that will rupture when exposed to flame. This specialized SRI-FireTec detection tube boasts of excellent vibration resistance, flexibility, durability and precise temperature sensitivity, which allow it to rapidly react when the heat from fire is present.

SRI-FireTec detection tube is routed throughout the protected area and it acts as multi-sensor and multi-extinguishing jet triggering the nozzle where the heat is detected. When fire starts, the SRI-FireTec detection tube will burst at its hottest spot (100°C). As a matter of fact, the suppression agent is discharged through the nozzle-like opening, suppressing fire in seconds before any further damages is being done.

SRI-FireTec system does not require any electricity or external power supply. It continues to provide the vital fire protection even in the event of power failure. SRI-FireTec system can also be configured in such a way that it is able to provide audible alarm, manual release and power cut-off.

### Cylinder Containing :

- Water
- CO2
- Powder
- Foam
- Halon replacement





# How does SRI-FireTec work?

## Direct Release System



The Direct Release System utilizes the SRI-FireTec tubing as both the fire detection as well as delivery system for the fire suppressant. The portion of the tube nearest the hottest point of the fire ruptures, forming an effective discharge "nozzle". The pressure drop in the tube releases the entire contents of the cylinder through this nozzle.

- Light weight, small system
- Compact system, easy to install, just 1 tube
- High pressure storage
- Extinguishes on the spot with low pressure
- Suitable for small area coverage of 5m<sup>3</sup>

## Indirect Release System



With the Indirect Release System, the SRI-FireTec tubing is used only as a detection device. The fire suppression agent is delivered via copper tubing, stainless steel tubing or braided hose. Once the tubing bursts, the suppressant is discharged through strategically placed nozzles within the protection enclosure.

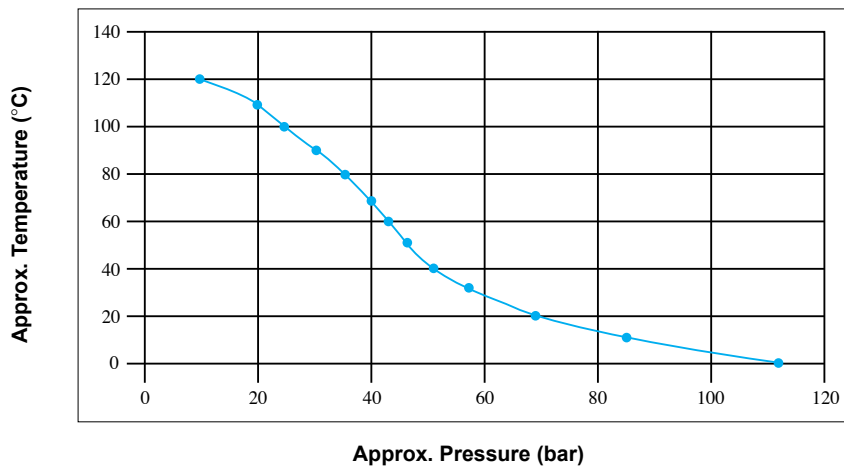
- Separate extinguisher and detection circuit
- High pressure / high volume extinguishing
- To protect larger installation
- Extinguishes a larger zone
- Suitable for area larger than 5m<sup>3</sup>

# SRI-FireTec Tube - The Difference



- ▶ Acts as a multi-sensor and multi extinguishing jet
- ▶ Made of a high-tech polymer
- ▶ Combines Long time resistance, flexibility, temperature sensitivity
- ▶ When bursting at the hottest spot, it ruptures as a nozzle shape opening.

## Internal Pressure of the SRI-FireTec Tube (bar)

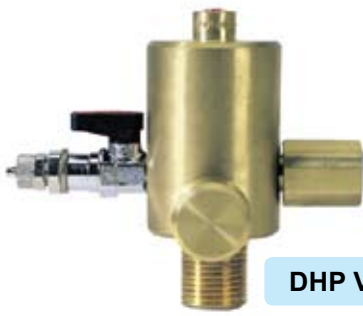


Burst temperature is in relation with the internal pressure of the tube.

## SRI-FireTec Detection-tubing standard Vs special

Type of detection-tubing	FireTec-tubing, standard	FireTec-tubing, special
Article-Nr	<b>B07800002</b>	<b>B07800200</b>
Dimensions	Outside-diameter: 6mm Inside-diameter: 4mm	Outside-diameter: 6mm Inside-diameter: 4mm
Colour	Red	Black
Design / Layer	Mono-layer	Multi-layer
Temperature range	-30°C...+80°C	-30°C...+100°C
Max. working pressure	20bar at 20°C	20bar at 20°C
Min. bending radius	100mm	150mm
Technical Characteristics	Usefull for stationary-applications (CNC machinery, electrical cabinets, etc.)	Usefull for mobile, outside & special-applications with large temperature cycles, high UV-impact, high ambient temperature over long terms, impact of aggressive agents & environment (vehicle-protection, rail-way-applications, laboratory fume cabinets, etc.)

# Low and High Pressure Valves



**DHP Valve - B0703**



**IHP Valve - B0702**

## Direct High Pressure (DHP) & Indirect High Pressure (IHP) Valves

Extinguishing Agent	CO2
Working Pressure	60 bar at 20°C
Pressure Reducing Valve	$P_N = 0.022 \cdot P_B + 14\text{bar}$ $P_N = \text{Secondary Pressure}$ $P_B = \text{Container Pressure}$
Rupture Disk Safety	250bar
Safety Valve	35bar ± 5bar
Operating Temperature Range	-20°C to 60°C
Approval	CE0029



**ILP Valve - B0701**



**DLP Valve - B0700**



**DLP2 Valve - B0704**

## Indirect Low Pressure (ILP) & Direct Low Pressure (DLP) Valves

Extinguishing Agent	Powder, Water foam, Halon alternative
Working Pressure CO2 at 20°C	10 ~ 18 bar
Pressure Reducing Valve	N/A
Rupture Disk Safety	N/A
Safety Valve	N/A
Operating Temperature Range	-20°C to 60°C
Approval	CE0029

# Application where SRI-FireTec can be used

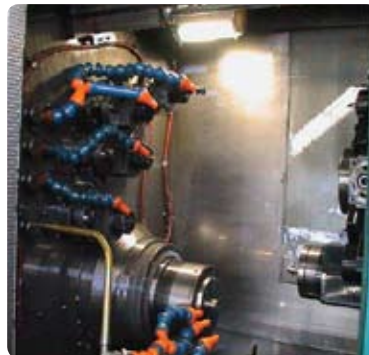
## Machines

- Production equipments
- Machinerooms
- Generators
- Agriculture machines
- Vending machines
- Washing machines



## Electrical Gadget

- Computers
- Electronics
- Washing machines
- Jukeboxes
- Dishwasher, fridges



## Stores / Cabinets

- Flammable liquid stores
- Companies kitchen
- Laboratories
- Generator rooms



## Vehicles

- Forklifts
- Boats
- Trucks
- Cars
- Motorcycles



## Equipments

- Test equipments
- Medical equipments
- Laboratory equipments



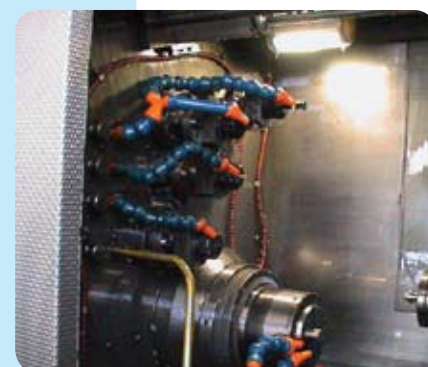


# SRI-FireTec System Advantages

- Linear detection line
- Rapid reaction line
- 24 hours a day ready for use
- No external power supply
- Flexible positioning of the SRI-FireTec tube
- Can be installed into inaccessible areas
- Minimal environmental damages
- Minimum maintenance
- Low and high pressure applications
- Not affected by vibration or knocks
- Quick and simple installation
- Low price - high performance relationship
- No accidental discharges through disruption of the SRI-FireTec tube
- Can be used in every environment (marine, industrial atmosphere)



- ▶ The SRI-FireTec recognition and extinguishing system is always ready for use.
- ▶ There is no need for an external power supply, this reduces installation costs and note also that the system will not be shut down or affected by power cuts.
- ▶ Flexible positioning advantages from the detector tube, allows use for every object that needs protection.
- ▶ The SRI-FireTec tube can be lead into empty spaces or otherwise inaccessible areas that would be difficult or impossible to protect.
- ▶ The SRI-FireTec tube and coupling has the function of being a multi-sensor combined with multi-extinguishing jets, which will always be activated at the moment at which the discharge temperature is reached.





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