

# FIRE SUPPRESSION SYSTEMS FOR MATERIAL HANDLING EQUIPMENT



*Dafo Vehicle Fire Protection supplies fire detection and suppression systems for applications in heavy vehicles in material handling, and many other areas. In ports where the operation is constant, there is no room for downtime. Furthermore a potential fire in a port or dock environment would have a significant impact on the operation and surrounding environment.*

*Dafo has been in business for over 100 years and has always been in the front line of technology. The overall objective of Dafo has always been to work with continuous improvements, research, and developments to make our systems more reliable, sustainable and innovative.*

  
**vehicle fire protection**

2021-10-19 v4

Dafo Vehicle offers the most reliable and effective fire suppression systems for material handling equipment designed to survive demanding conditions and challenging working environments to secure the safety of operations.

The systems are designed to mitigate losses due to fire and reduce the impact on investment, reducing downtime, securing business continuity, and increasing the productivity of the end-users. Dafo Vehicle's robust system not only protects individual hazards within the vehicle, but it is also a system that easily can be maintained and refilled on-site which reduces downtime and operational costs with very low TCO.



### DAFO VEHICLE FIRE SUPPRESSION SYSTEMS

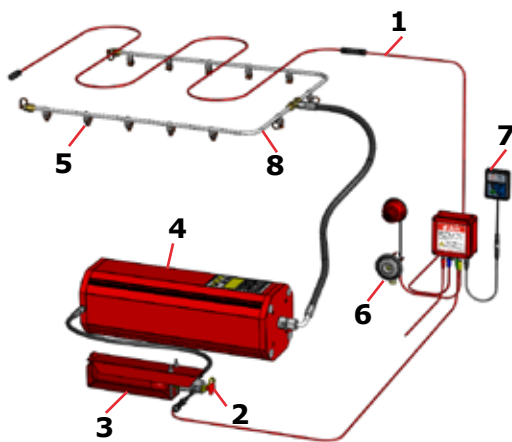
A tested and certified fire suppression system in combination with efficient fire detection is the best first line of defence in case of an emergency. The Dafo Vehicle Fire Suppression System, equipped with a linear heat detector wire, responds immediately to any increase in temperature. Its fully automatic system detects and quickly extinguishes the fire. The agent is released through a pipe system with specially designed nozzles that effectively cover the protected areas. Upon request manual release of the system can be provided.

### FORREX - MAKES THE DIFFERENCE

The basis of Dafo Vehicle's system is the suppression agent Forrex which is specially developed to suppress fires in combustible engines. Forrex is highly effective on flammable liquid fires like petrol, diesel and hydraulic oils. The system combines the features of liquid and dry chemical, includes unique and propriety tailormade solutions and offers outstanding flame knockdown and unique protection against re-ignition as it will cool down the overheated engine parts in case of a thermal event.

### PERSONNEL SAFETY

The harmless extinguishing liquid and normally pressureless containers presents no health risk to operators or staff.



### BENEFITS

- Strong cooling effect
- Film forming effect to prevent re-ignition
- Pressure-less container (Personnel safety)
- Freeze protected down to -50° C
- Easy maintenance
- Easy to clean up after discharge
- Independent system
- Non corrosive
- Environment friendly

### FUNCTION

Fire is indicated by a linear heat detector wire (1) that sends a signal to the actuator (2) which punctures the burst disc of the propellant gas cartridge (3) and releases nitrogen to the agent container (4) that distributes the Forrex liquid to the nozzles (5) through the pipe system (8). At the same time the alarm system is activated, an alarm horn (6) in the vehicle and a light signal in the panel will warn the driver (7).

### STANDARDS & CERTIFICATES

Standards and regulations are a central part of our business operation and cover most of our products and system designs.

Dafo Vehicle Fire Protection honors and fulfills all valid standards and regulations in the markets where we operate. We are constantly working to obtain all relevant certifications where it is applicable.

AS 5062, UNECE Regulation 107, SPCR 183, AIS 135, SBF 127 and IS 6278 are some of the certificates that we hold.

