

YOUR TANK IS ONLY AS SAFE AS ITS FIRE PROTECTION

Fuel storage capacity is a critical investment. But every tank that goes into service unprotected – or under-protected – is a liability waiting to be triggered by lightning, equipment failure, or operational error.

Protect your assets properly and de-risk your fuel storage project today.



DON'T LET A LIGHTNING STRIKE TAKE OUT YOUR INVESTMENT

Lightning causes nearly one-third of all tank fires – and 95% of rim seal fires. Inadequate roof-to-shell bonding is the primary culprit, and conventional shunt systems have been proven to arc under any conditions.

The **RGA[®] Retractable Grounding Assembly** from Lightning Eliminators & Consultants (LEC) eliminates these vulnerabilities with a permanent, low-impedance bond that works independently of tank shell condition – and is pre-tensioned at the factory for immediate deployment.

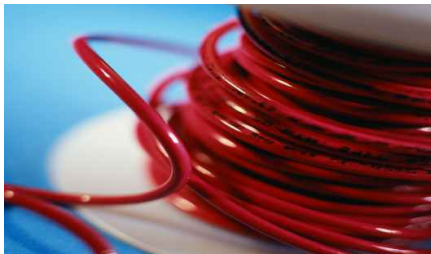
- **Pre-tensioned at the factory** – no on-site setup required
- **340% greater retraction force** than previous-generation units
- **Corrosion-resistant aluminium cable** – developed for marine environments, highly resistant to H₂S
- **Installs in two hours** on new or in-service tanks
- **Conforms to API 545 and NFPA 780** – meets bypass conductor requirements



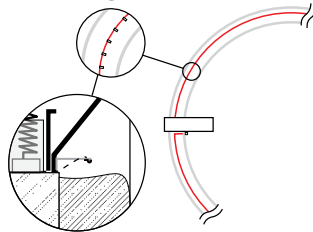
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CABLE: A PERFECT SOLUTION FOR TANKS

Conventional point detectors are unreliable across the large, complex, or hard-to-access geometries typical of fuel storage infrastructure. High ambient temperatures, dust, and low humidity can further cause point detectors to false-alarm or lose sensitivity – leaving critical areas effectively unmonitored.



Floating Rooftop Tanks



SafeCable LHD™ Linear Heat Detection Cable from Safe Fire Detection provides continuous, distributed heat monitoring across the full length of installed cable, engineered specifically for the harsh chemical and UV-exposed environments of fuel storage facilities.

- **Detects heat anywhere** along entire cable length – no blind spots
- **Six alarm temperature ratings** from 68°C to 235°C
- **Chemical, UV, and corrosion-resistant** outer polymer jacket
- **Compatible** with all listed addressable or conventional panels – no proprietary hardware
- **Up to 3,048m coverage per zone** – ideal for large tank perimeters

HIGH-VOLUME FOAM DELIVERY WHEN EVERY SECOND COUNTS

The industry-accepted response time between ignition and foam blanket coverage is 34 minutes, and that assumes perfect conditions: reliable detection, no human error, pumps and foam systems fully maintained, and no adverse weather. It's too long. Fixed monitors capable of immediate, high-volume delivery are the critical hedge against that chain of assumptions failing.

Our **fog/jet monitors** deliver precision water and foam suppression across two configurations – manual oscillating and remotely operated electrical – covering every operational scenario from routine response to hazardous zone deployment.

- **Flow rates from 500 to 20,000 L/min** across the FJM-80 to FJM-200 range
- **Jet throw up to 130m** for stand-off suppression of large-diameter tanks
- **Self-oscillating operation (WTO)** – internal water-driven turbine, no external power required
- **Full remote control (EL)** – motorised elevation, rotation, and pattern adjustment
- **ATEX-certified for Zones 1 and 2** – safe deployment in live flammable atmospheres

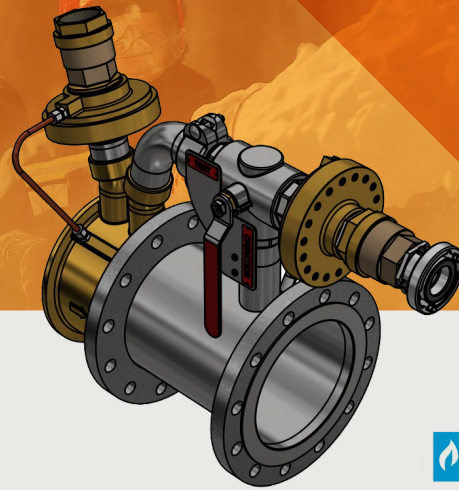


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FUTURE-PROOF YOUR FOAM SYSTEM FOR THE PFAS TRANSITION

The shift from PFAS-based AFFF to fluorine-free foam is not a simple concentrate swap – it requires reassessment of proportioning equipment, application rates, and system compatibility. Proportioning accuracy with fluorine-free concentrates is a known issue across common proportioner types and must be verified during transition. A proportioner that can't handle higher-viscosity concentrates – or wastes expensive foam every time it's tested – compounds an already complex problem.

The **Incendium IPPT Balanced Pressure Proportioner** is specifically engineered to handle fluorine-free, ARC, and other high-viscosity foam



concentrates, combining wide-range accurate proportioning with a patented test function that verifies system performance without discharging or wasting any concentrate.

- **Proportions from 1% to 3%** across a 120:1 flow range – 150 to 18,000 lpm
- **Engineered for fluorine-free and high-viscosity concentrates** – PFAS transition ready
- **Live system testing without foam discharge** – concentrate is captured and returned to tank
- **Low pressure drop across entire flow range** – minimal impact on system hydraulics
- **Certified to EN 13565-1** – bronze and 316L stainless steel construction throughout

DETECT REAL FLAMES FAST – WITHOUT TRIGGERING ON EVERYTHING ELSE

Conventional UV/IR flame detectors require both UV and infrared radiation to be present before triggering – a limitation that can delay or prevent detection in certain fuel fire scenarios. In fuel storage environments, hydrocarbon vapours can absorb the UV radiation that conventional detectors rely on, actively interfering with detection and false alarm exclusion.



GASENSOR TECHNOLOGY
THE CHOICE FOR PERFORMANCE

Standard infrared detectors are also habitual false alarm offenders – in live fuel facilities, an unnecessary suppression discharge carries its own serious consequences.

Gasensor's **Multi Spectrum Infrared Flame Detector** uses AI-based recognition across four infrared spectral bands to distinguish genuine hydrocarbon flames from background interference – delivering more than four times the detection range of conventional UV/IR units.

- **65m detection range** – vs 15m for conventional UV/IR detectors
- **100° horizontal, 90° vertical field of view** – maximum area coverage per unit
- **AI-powered false alarm immunity** – learnable suppression of site-specific interference
- **Continuous optical path scanning** – self-monitors lens clarity for reliable detection
- **ATEX, IECEx, FM certified, SIL 2** – fully rated for explosive atmosphere deployment

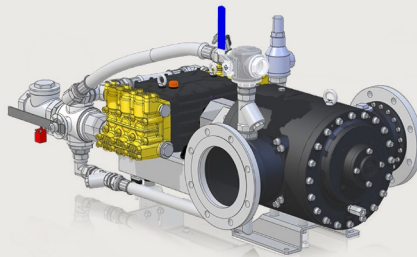
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FIXED ROOF TANK FOAM SUPPRESSION: PROPORTION IT RIGHT, DELIVER IT RIGHT

A foam concentrate mixed below its correct proportioning rate produces foam incapable of developing full extinguishing power. And even correctly proportioned foam fails if it isn't delivered gently to the fuel surface, as turbulent application drives foam beneath the burning liquid, destroying its blanketing effect.

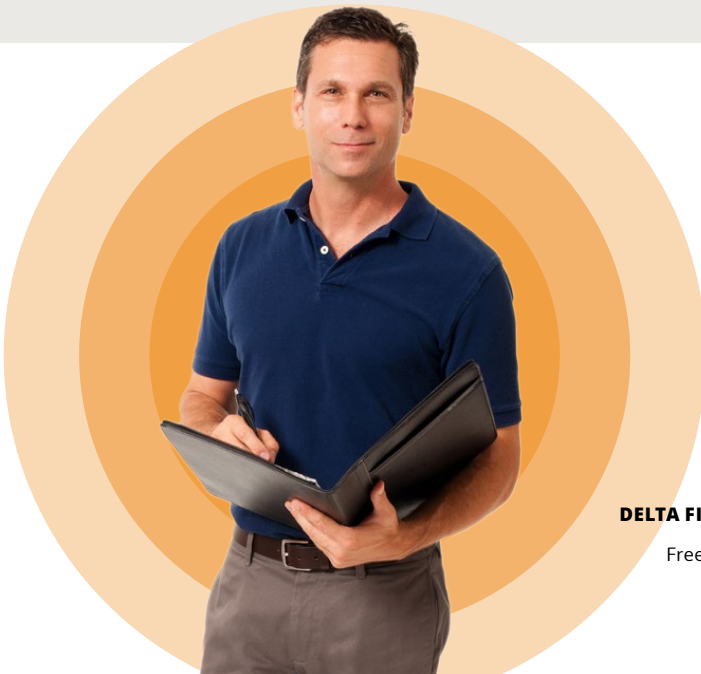
The **FIREMIKS® Foam Proportioning Pump** is a water-motor-driven dosing system that uses firefighting water pressure itself to drive precise concentrate injection, requiring no external power source and maintaining accurate proportioning across a wide flow range.

- **Accurate 3% dosing** from 310 lpm to 2,400 lpm across 2–16 bar
- **Water-motor driven** – no electrical supply required for operation
- **Automatic flushing on shutdown** – no concentrate residue in pipework
- **Available in aluminium, bronze, or stainless steel** for fresh or saltwater environments
- **Conforms to NFPA 11, EN 13565, and NFPA 1901** – FAT testing available



The **Incendium TFG Tank Foam Generator** delivers the correctly proportioned solution to the burning liquid surface, using an integrated foam generator and deflector system to spread low-expansion foam evenly along the tank's inner wall — minimising fuel disturbance and maximising blanket effectiveness.

- **Foam expansion ratio up to 10:1**, optimised for surface blanketing
- **Capacities up to 3,000 lpm** (TFG-100) across 4–16 bar inlet pressure
- **Integrated gas-stop** allows foam testing without breaking the seal
- **Full 316/316L stainless steel construction** – corrosion resistant, low maintenance
- **Certified to EN 13565-1, NFPA 11 Type II discharge outlet compliant**



GET IN TOUCH

For an informal chat about your best solution for tank fire prevention, contact Delta Fire today.

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