



APPLICATION SPOTLIGHT

Foam-Water Systems / Ignitable Liquids



⊗ Hazard

Fire or spill of ignitable liquids in manufacturing or storage, involving hydrocarbon and/or polar solvent based materials.

✓ Solution

Fixed foam-water systems utilizing C₆ based PFOS-free ARCTIC AFFF/ATC and RE-HEALING fluorine-free foam concentrates.

⊕ Connect

For more information about how Solberg can build the right solution for you, contact your local authorized Solberg representative.

FOAM-WATER SYSTEMS

Storage Hazards Require Protection

FLAMMABLE & COMBUSTIBLE LIQUIDS

The manufacture and storage of flammable and combustible liquids presents an ever present and dangerous risk of spill or fire. With hundreds if not thousands of pure and blended materials classified as flammable or combustible liquids, *NFPA 30 Flammable and Combustible Liquids Code* groups these liquids into six classification categories based on a materials flashpoint. Additionally, other physical properties of the ignitable liquid must be considered as part of any risk assessment, these include reactivity and heat release rates.

Types and sizes of packaging containers are based on end-use requirements, and are produced from a variety of materials ranging from steel, plastic and composites to fiberboard and glass. Storage of these materials typically falls under one of three categories: *manufacturing facilities* that either produce or consume the materials; *distribution/warehouse centers* such as those built on a national or regional infrastructure level and *commercial retail outlets* on a local level. The quantity of material in each of these property settings can vary from millions of gallons down to a few hundred of gallons. An accidental spill or fire in any one of these locales can be devastating posing a threat to worker and property safety, the public and the environment.

Foam Water Systems

Companies that produce or store flammable and combustible liquids must comply with national, state and local fire codes, in addition to applicable insurance underwriting requirements. Documents that provide guidance on foam-water systems for this risk include: *NFPA 11 Standard for Low, Medium, and High-Expansion Foam*; *NFPA 16 Standard for the Installation of Foam-Water Sprinklers and Foam-Water Spray Systems*; *NFPA 30 Flammable and Combustible Liquids Code*; and *FM Global Property Loss Prevention Datasheets 7-29 Ignitable Liquid Storage in Portable Containers and 4-12 Foam-Water Sprinkler Systems*.



“Talk to us. See for yourself the difference it makes when you have Solberg on your side.”



✓ Experience

Our experienced technical pros are known for their ability to identify solutions that are not only the most effective, but the most cost-effective as well. Solberg is your partner in valued-engineered fire foam product solutions.

✓ Certifications

- UL Listed
- ULC Listed
- FM Approved

[Certifications vary upon concentrate and sytem types]

Protecting Your Assets

While final general requirements for the protection of manufacturing and storage of ignitable liquids depend on many variables (hazard area, container material, container size, liquid evaluation, ignition source(s), storage array, human factor, etc.) the minimum design criteria for foam-water sprinklers identified in these documents are based on application rate, hazard area, duration time and foam concentrate type. Further, it is critical that the foam ratio controller (i.e. proportioner) is sized for the maximum system flow and a minimum of (4) sprinklers operating at the most remote area.



Solutions You Can Count On

Balanced Pressure Proportioning Systems offered by Solberg meet today's ever changing environments associated with the design requirements of foam-water systems for protecting the manufacture and storage of ignitable liquids. SOLBERG C₆ based PFOS-free ARCTIC™ 1%, 3% AFFF and 3x3% ATC™ AR-AFFF foam and RE-HEALING™ RF3, 3% fluorine-free foam concentrates are uniquely designed and certified for use in foam-water systems providing maximum fire control, extinguishment, and burn-back resistance. Which is paramount to the protection of ignitable liquids, property, life safety and the environment.

Solberg is your expert resource to guide you thru the decisions required for compliance. For more information about how Solberg can build the right solution for you, contact your local factory representative, technical services or authorized Solberg representative.



C₆ ARCTIC AFFF / ARFFF and RE-HEALING Foam Concentrates

HAVE QUESTIONS?

For more information about which foam product works best for specific applications — or other questions — contact your local authorized Solberg Distributor or Factory Representative.

Solberg is a member of THE AMEREX GROUP, an alliance of independent companies with a singular purpose: revolutionize the course of fire suppression technology with safer, more effective, and more sustainable solutions. Together, we are Moving Industries Forward by Redefining Fire Suppression. www.solbergfoam.com

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