POLY Extinguishing System

SL500 - SL6000 CAFS

Description

POLY CAFS extinguishing systems are energy-autonomous, compressed air foam based extinguishing systems. In stationary fire fighting systems they are used to protect buildings, special machines such as paint shops, conveyor belts, and forging presses as well as flammable materials (e.g. plastics, waste).
These systems do not require motors, pumps, air compressors, or electricity. Compressed air provides the energy to power the system. Compressed air foam can be released via nozzles, turrets, or branch pipes.

Advantages

CAFS - innovative firefighting equipment

- Consistent foam quality through homogeneous foam structure
- Highest extinguishing efficiency
- Sustainable cooling
- Excellent safety against back-burning
- Rapid smothering of flames through oxygen deprivation
- Deep penetration into the flammable material by reducing the surface tension of the water
- Minimization of water damages due to lower application rates
- CAF foam sticks to hot surfaces

Advantages

- Highest extinguishing performance
- Applicable for A & B fires
- Size of water tank is adapted to the protection target
- Low installation and maintenance costs
- Activation of different extinguishing sections possible

CAF production with Premix

- The extinguishing agent is readily mixed in the tank
- CAFS foam expansion due to compressed air
- No need for a foam proportioning system
- Frost-resistant foaming agent can be used
- Small space requirements
- Easy refilling of the system

CAF production with Admix

- Water and foaming agent are stored in separate tanks and are mixed at the system acitvation
- CAFS foam expansion due to compressed air
- The use of non-premix-resistant, fluorine-free foaming agents is possible
- Low maintenance costs

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Technical data

Proportioning ratio	1 % / 3 %
Propellant	Compressed air (50 l / 300 bar (13.2 US gal / 4,351 psi) compressed air cylinders)
Flow	MK100 (100 l/min) (26.4 US gal / min) MK200 (200 l/min) (52.8 US gal / min) MK300 (300 l/min) (79.2 US gal / min)
Operating temperature [1]	-20°C to +50°C / -4°F to 122°F
Working pressure	9 - 14 bar / 130 - 203 psi

[1] Depending on foaming agent used.

	Water tank contents	Proportioning ratio	Foam tank [2]	Compressed air [3]
SL500	500 l (132 US gal)	1 %	SL50	1 x 50 l / 300 bar (1 x 13.2 US gal / 4,351 psi)
		3 %	SL50	
SL750	750 l (198 US gal)	1 %	SL50	2 x 50 l / 300 bar (2 x 13.2 US gal / 4,351 psi)
		3 %	SL50	
SL1000	1,000 l (264 US gal)	1 %	SL50	2 x 50 l / 300 bar (2 x 13.2 US gal / 4,351 psi)
		3 %	SL50	
SL1200	1,200 l (317 US gal)	1 %	SL50	3 x 50 l / 300 bar (3 x 13.2 US gal / 4,351 psi)
		3 %	SL50	
SL1500	1,500 l (396 US gal)	1 %	SL50	3 x 50 l / 300 bar (3 x 13.2 US gal / 4,351 psi)
		3 %	SL100	
SL2000	2,000 l (528 US gal)	1 %	SL50	4 x 50 l / 300 bar (4 x 13.2 US gal / 4,351 psi)
		3 %	SL100	
SL3000	3,000 l (793 US gal)	1 %	SL50	6 x 50 l / 300 bar (6 x 13.2 US gal / 4,351 psi)
		3 %	SL200	
SL4000	4,000 l (1,057 US gal)	1 %	SL100	8 x 50 l / 300 bar (8 x 13.2 US gal / 4,351 psi)
		3 %	SL200	
SL5000	5,000 l (1,321 US gal)	1 %	SL100	10 x 50 l / 300 bar (10 x 13.2 US gal / 4,351 psi)
		3 %	SL300	
SL6000	6,000 l (1,585 US gal)	1 %	SL100	12 x 50 l / 300 bar (12 x 13.2 US gal / 4,351 psi)
		3 %	SL300	

[2] Premix systems do not have foam tanks or proportioning systems, since water and foaming agent are already mixed at the correct ratio in a container.
[3] At 14 bar (203 psi). The number of compressed air cylinders can change if the working pressure varies.

Contact

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