

Description

The FIRE KILL™ K6-North Sea, K6-Pacific and K6-Mediterranean water mist system consist of open low-pressure water mist nozzles.

Water-based fire-extinguishing systems for use in machinery spaces of category A and cargo pumprooms equivalent to fire-extinguishing systems required by SOLAS regulation II-2/10 and chapter 5 of the FSS Code should prove that they have the same reliability which has been identified as significant for the performance of fixed pressure water-spraying systems approved under the requirements of SOLAS regulation II-2/10 and chapter 5 of the FSS Code.

The FIRE KILL™ K6 system utilized the Model K6 nozzle which can be supplied in varied materials and with different thread types.



Approvals

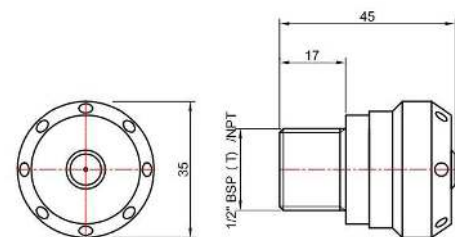
The FIRE KILL™ K6 systems have been tested and approved by DnV in accordance with the latest revision of the IMO MSC Circ. 1165 EQUIVALENT WATER-BASED FIRE-EXTINGUISHING SYSTEMS FOR MACHINERY SPACES AND CARGO PUMP-ROOMS. The system is holding MED-B, UK MER-B and TA by DNV.



Technical data

General Description			
Trade name	North Sea	Pacific	Mediterranean
Max net volume	5026 m ³	3842 m ³	1000 m ³
Typical gross volume	5922 m ³	4520 m ³	1175 m ³
Min. water pressure	9,0 Bar	8,0 Bar	8,0 Bar
Max. working pressure	16 Bar		
Nozzle spacing	3,0m x 3,0m	3,0m x 3,0m	4,0m x 4,0m
Distance to wall	1,5m	1,5m	2,0m
Height (max)	10,0m	10,0m	5,0m
Water density	1,87 mm/min	1,74 mm/min	0,99mm/min
Specific Description			
K-factor (metric)	5,6 (l/min@1 bar)		
Drop size	DV90 < 300 µm		
Weight	0.13 kg		
Housing	Brass / SS316 / Titanium gr. 2		
Coating (Brass only)	NiSn		
Strainer	Stainless Steel		
Thread	½" BSP/BSP-T/NPT		
Other products in the system			
Name	Model		
Control valve	C-EL (DN50 / DN 80 FM Approved)		
N-Pipe	Type I-FF		
Filter	Model F, DN 50 and DN80		

Dimension



Spray pattern



Applications

Machinery spaces of category A are those spaces and trunks to such spaces which contain:

- .1 internal combustion machinery used for main propulsion; or
- .2 internal combustion machinery used for purposes other than main propulsion where such machinery has in the aggregate a total power output of not less than 375 kW; or any oil-fired boiler or oil fuel unit.

Oil fuel unit is the equipment used for the preparation of oil fuel for delivery to an oil-fired boiler, or equipment used for the preparation for delivery of heated oil to an internal combustion engine, and includes any oil pressure pumps, filters and heaters dealing with oil at a pressure of more than 0.18 N/mm².

Installations

The K6 nozzles are installed as a deluge system in an open pipework. Nozzles should be located 100 mm to 200 mm below the ceiling.

Components and pipes should be cleaned/flushed from debris, shavings and impurities and welded items should be cleaned to make sure that there is no abundance of loose debris. The installer should be careful not to get sealant into the pipe system. It should be checked extensively that the components are positioned correctly according to the system plans and specifications.

All components should be securely fastened to rigid, robust structures by approved means. The fire protection system shall not consist of material combinations with risks of galvanic corrosion system pipes and other system components. It is advised that the system utilize pipes and system components in stainless steel, AISI 304 or AISI 316, or copper alloys as to minimize risk of corrosion and clogging of the pipes and other system components.

It is prohibited to use components with black iron parts and other such highly corrosive materials else used in traditional sprinkler systems.

System components shall in all cases be according to the local applicable standards, and be accepted by the authorities having jurisdiction.

Caution

The K6 nozzles shall be installed in locations not containing materials which may produce violent reactions or significantly hazardous materials when reacting with water and should be installed in locations where the nozzle is not likely to sustain physical damage.

Contact

For further information on **FIRE KILL™** products, please contact our sales department at Sales@vidfirekill.com

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