

# Datasheet Sheet: Bilge Protection Horizontal Open low Pressure Water Mist system

Model: Biscay N-pipe K1



## Description

The VID Fire-Kill Model Biscay Water Mist Bilge System fights bilge fires with pure water. It can be installed in bilges of up to 1,1m height.

The Biscay fire protection system consists of 6 meters long VID Fire-Kill N-pipe stainless steel pipes 316L, with integrated miniature Low Pressure VID Fire-Kill model K1 Water Mist Nozzles.

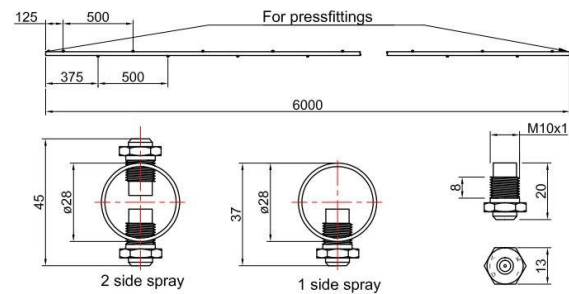
Biscay systems are fast and simple to install and requires the use of a minimum of pipe fittings. Biscay systems are delivered in 6 meter N-pipe lengths with pre-made threaded connections for VID Fire-Kill K1 water mist nozzles on two sides of the N-Pipes (A total of 24 K1 nozzles per 6m N-Pipe). K1 nozzles are supplied together with the N-Pipes ready for installation In the N-Pipes using a 13mm top spanner, after the N- pipes have been installed and flushed for impurities.

The system is supplied in 6 meter length pipes and as standard 28x1.2mm size with blank ends prepared for press fittings. Together with the pipe come 16 nozzles of the type K1 each with a K-factor of 0.9 (metric).

Option: Plastic protection caps for K1 nozzles are available.

## Approvals

The Model K1 Biscay system has been tested in accordance with the latest revision of the IMO MSC/Circ. 1165 for protection under bilge, and approved by DNVGL.



Overall Technical Data		
Application	Bilge Protection	
General Description		
Minimum water pressure	11 bar	
Maximum working pressure	16 bar	
K-Factor 6 m pipe	21,6 (l/min/vbar)	
K-factor (metric)	0,90 (l/min/vbar)	
Drop size	DN <sub>90</sub> < 300 µm	
Application		
Spacing (max)	0,50 m x 1,70 m	
Installation height	Min	0.37 m
	Max	0.45 m
Specific Description		
Dimension	See fig. above	
Pipe dimension	∅ 28 x 1,2 mm	
Weight (Nozzle)	0,024 Kg	
Pipe material	AISI 316L	
Nozzle material	AISI 303	
Pipe ends	28 mm plain	
Hydraulic System		
Water density	7,0 mm/m <sup>2</sup>	
System operation time	> 30 min	
Related Products		
Name	Model	
Control Valve	C-EL	

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## Installation and hydraulic calculation:

Biscay systems should be hydraulic designed to provide minimum water pressure of 11 bars on all K1 nozzles installed in the design areas which the authorities having the jurisdictions require for bilge fire protection systems.

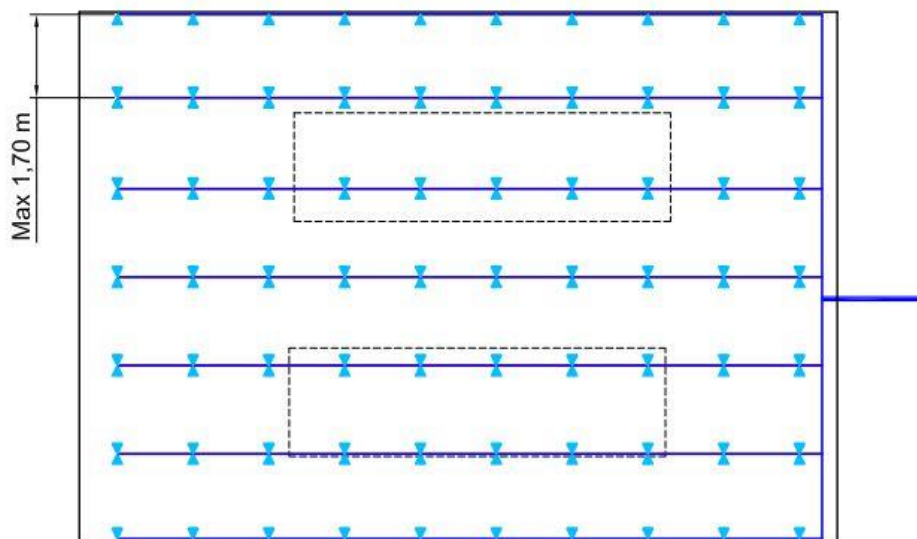
N-Pipes should be installed using hangers and fittings which comply with N-Pipes in stainless steel AISI316L. A VID Fire-Kill model F filter with sufficient capacity should fitted at the water inlet to the Biscay system. The pipe system shall be flushed for debris and impurities prior to K1 nozzles are fitted the N-Pipes. In system with nozzles having protection caps, the protection caps are fitted after the nozzle system has been functional tested.

## Maintenance:

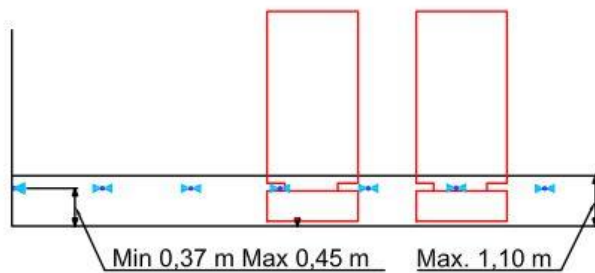
The system inlet filter should be serviced after each system activation.

## Contact

For further information on Model B1 nozzle or similar products, please contact our sales department at [Sales@vidaps.dk](mailto:Sales@vidaps.dk)



Area below floor plates



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