

LoFlow K-15

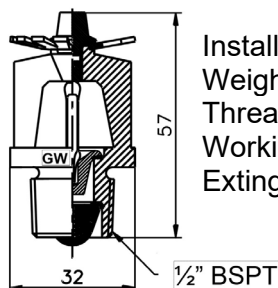
WATER MIST SPRINKLER

LOW PRESSURE, AUTOMATIC






Technical Specification:

K-Factor:	15 (metric) / K 1.04 (US)
Spray angle	160° - 175°
RTI	< 50ms ^{-1/2} (QR, quick response)
Bulb release temp.	57, 68, 79, 93, 141°C
Droplet Size:	DN ₉₀ < 300 μm
Material Nozzle:	Brass
Material Deflector:	Brass
Finish	Chrome Plated
Material Filter:	Stainless Steel 316, mesh



Installation:	Pendent
Weight:	74g
Thread:	1/2" BSPT (NPT optional)
Working Pressure:	6 - 16 Bar
Extinguishing Agent:	Fresh water, sea water or foam enhanced water.

Models (deflector style):

 <p>8 holes</p> <p>Application: Open Spaces</p> <p>Model O</p>	 <p>16 holes</p> <p>Application: Corridors</p> <p>Model C</p>	 <p>16 holes 4 twisted tines</p> <p>Application: Shops and Storage</p> <p>Model S</p>
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Description

The LoFlow K-15 series of fine spray / water mist sprinklers was developed in response to the demand for efficient and reliable maritime fire protection as specified by IMO A800 *) see note page 3.

The LoFlow K-15 is based on the iconic GW-DD frame which offers a harmonious and distinct look, yet with a unique aesthetic, sharply shaped and modern appearance. The sprinkler heads are installed in fully hydraulic designed wet pipe sprinkler systems, in accordance with GW installation manual 715.

The LoFlow K-15 can be used with fresh, sea and foam enhanced water.

It has been successfully tested against a range of typical machinery space fires, as documented in the report:

“Development of Low-Pressure Fine Water Spray for the Royal Navy: Results of Full Scale Trials”

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Application

The LoFlow K-15 Model O and C (68°C, only) are FM approved to Class 5560 (FM Approval Standard for Water Mist Systems) for protection of light hazard (HC-1), **non-storage and non-manufacturing occupancies** as defined in FM datasheet 3-26 – such as:

Occupancies					
Healthcare Facilities	Business Facilities & Apartments	Educational Facilities	Transport & Logistic	Leisure Facilities & Public Assembly	Telecom., Film Studios and Research Centers
Hospitals Hospital Labs. Nursing Homes Convalescent Homes Kitchens Care Homes Penal Institutions	Offices Hotels Flats Apartments	Universities Schools Kindergartens Colleges Dormitories & Residence Halls Prisons Detention Centers	Airport Terminal Bus Station Train Station Ferry Port Cruise Terminal Bicycle Parks	Museums Monuments Restaurants (Seating areas) Gyms Places of Worship Ski Lift Stations Zoo/Aquarium Auditoriums Aquatic Center (Swimming Pool & Spa) Theatres Cinemas Convention Centers Theme Parks Libraries	Laboratories Control Rooms

Design limitations

Applications (FM Class 5560)	Model O	Model C
	Open Spaces	Corridors and confined spaces
Installation height, max.	5m	2,4m
Min./Max. sprinkler spacing	2,0m / 3,5m	3,5m
Distance from wall	1,75m	1,75m
Max. enclosure area	unrestricted	49m ² ¹⁾
Min. water pressure	6 bar	6 bar
Nominal temp. rating	68°C	68°C
	¹⁾ A single Model C may be installed in rooms not exceeding 4 x 3m. A single Model C may be used to protect hallways not exceeding 3,5m in width.	

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Approvals:

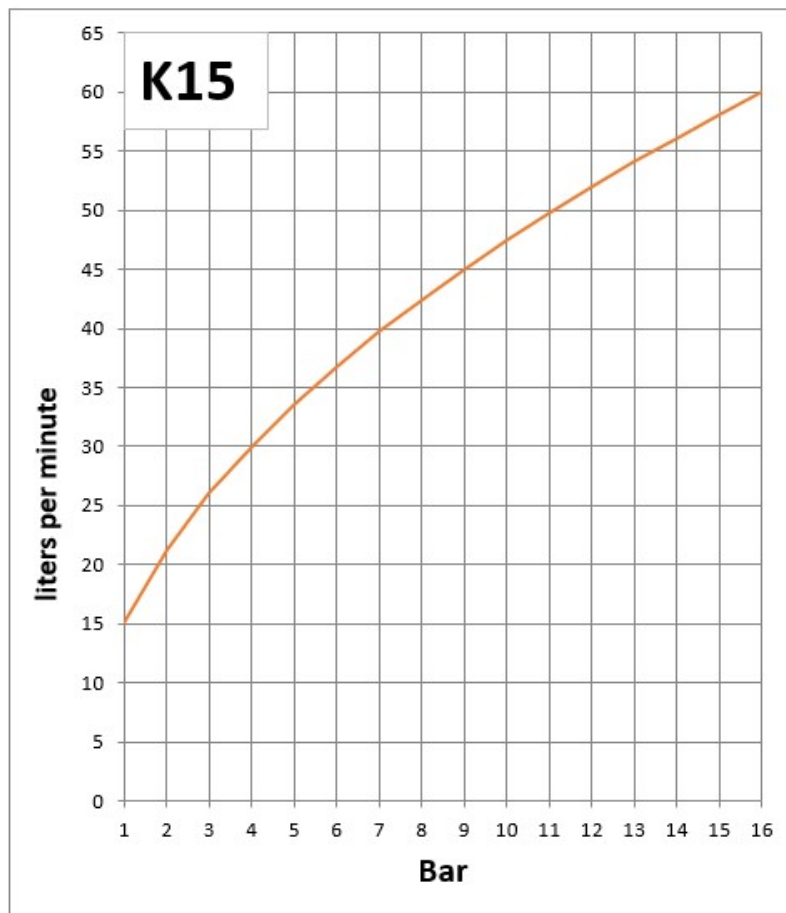


FM (Factory Mutual): LoFlow K-15 Model O and C – 68°C Quick Response (and open version).

*) NOTE:

Due to changes in IMO test protocols calling for non-commercially viable high-cost re-testing, it was decided not to renew marine approvals, hence the GW LoFlow K-15 Model O, C and S no longer holds MED or Class Society approvals.

Pressure / Flow



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Spray Graph

