**Description**

The GW AIS*-135 low pressure water mist nozzle is developed specifically to meet the performance requirements of *AIS-135 Fire Detection and Suppression Systems (FDSS) for Buses*.

*AIS= Automotive Industry Standard

Principle of operation

The nozzle is a simple, robust construction generating a wide-angle spray of water mist by single jet impingement on the centre deflector. The deflector and nozzle orifice are protected from damage and contamination by a blow-off cap fitted with a PTFE-bush to ensure a non-sticking and reliable cap release. The nozzle is installed in a dry pipe system, and when water pressure is applied, the blow-off cap is ejected, followed by the distribution of a very fine water mist.

Application

The GW AIS-135 nozzle is designed for applications according to the specifications set out in AIS-135 section 4.5.4 to 4.5.7 – i.e. low-pressure / low-consumption suppression systems for fires that originate from engine compartment of buses, and the control of heat and smoke in bus occupant compartment.

The nozzle's extreme low water consumption makes it ideal for smaller stand-alone systems with limited water capacity – and applications where wetting must be kept at a minimum.

Installation

The nozzle is designed for pendent installation for optimum water mist distribution, but can be installed in any direction. Shall only be installed in clean, corrosion-free pipework to prevent clogging of the nozzle orifice. Only non-corroding pipe material (e.g. SS304, or better) shall be used to avoid any formation of corrosion products inside the pipe.

Strainer

The water shall be free from any impurities larger than 1mm in length or diameter. A strainer with max. mesh size of 1mm must be installed to rinse the system water before entering the nozzle pipe work.

Material

All components are selected from non-corrosive materials to support a robust and reliable performance in most environments. Standard material is brass, but other materials are available on request.

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Data Sheet:

GW AIS-135
(K0,64)

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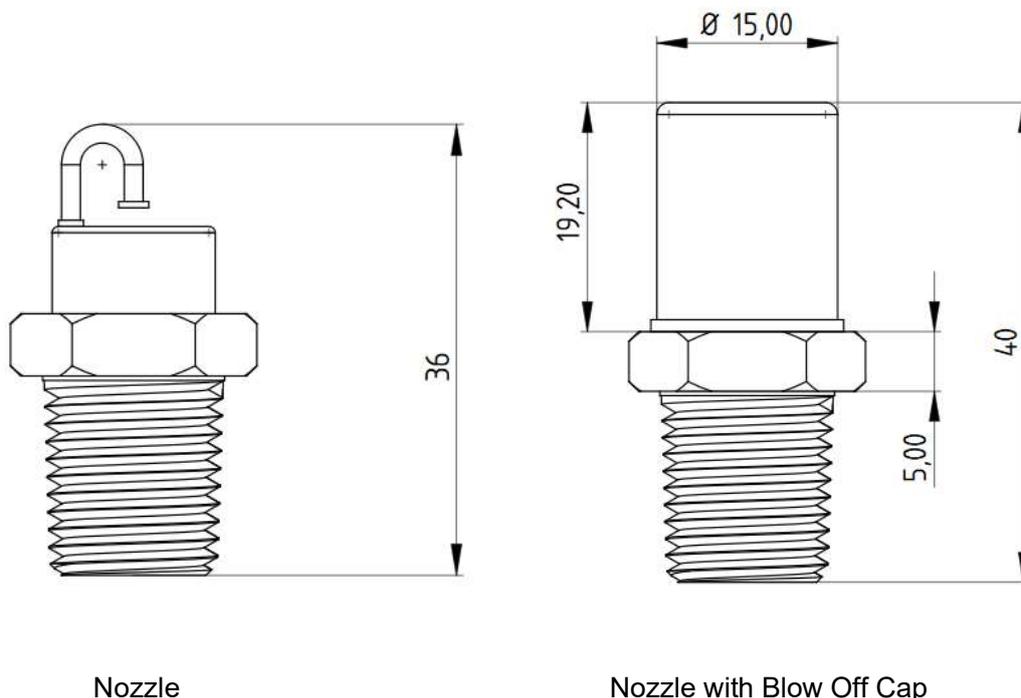
14 November 2022

GW
AIS-135 Water Mist Nozzle
 K0,64 - non-automatic – low pressure

Technical data

Material: Body	SS304
Material: Deflector	SS304
Material: Bush	PTFE
Material: Blow-Off Cap	SS304
K-factor (metric)	0,64
K-factor (U.S))	0.044
AIS-135 min. operating pressure	7 bar
Flow Rate @ 7 bar	1,7 LPM
Spray Angle	170° (+/- 10°)
Min. operating pressure	3 bar
Max. operating pressure	16 bar
Threaded connection (body)	1/4" BSPT (male) – NPT optional
Wrench Flat dimension (hex)	17 mm (AF)

Dimensions (mm)



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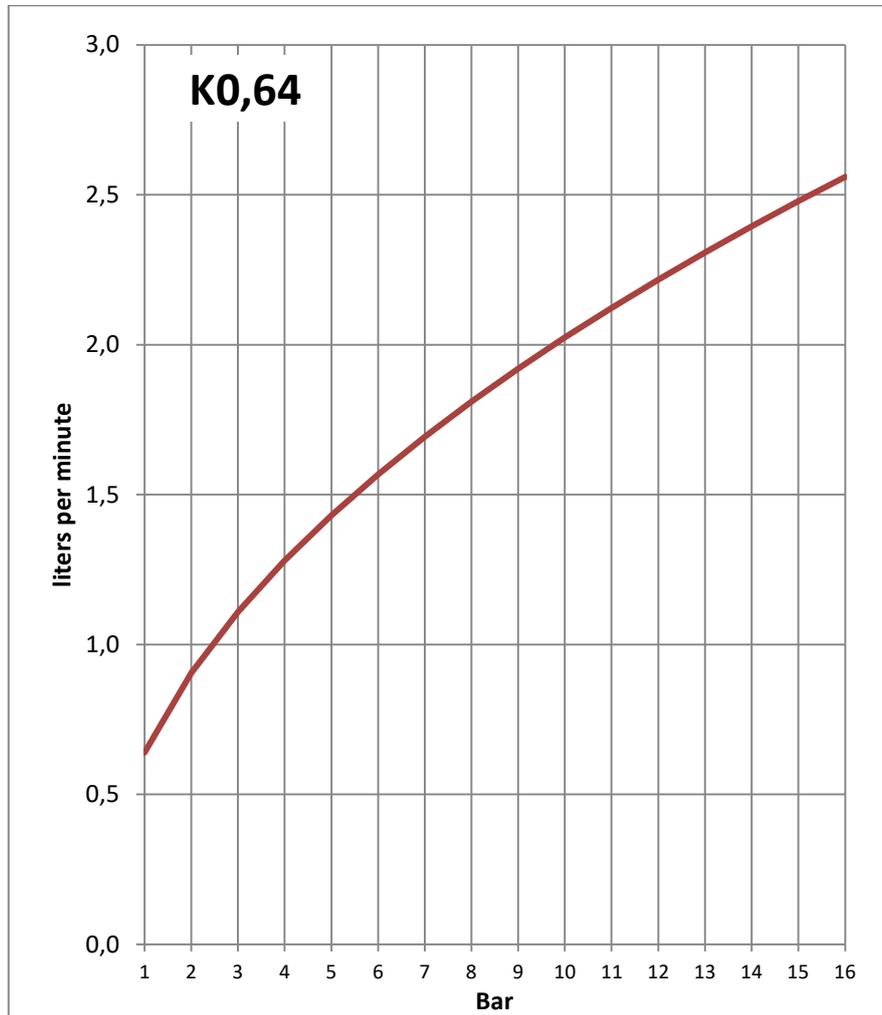
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Flow vs. Pressure



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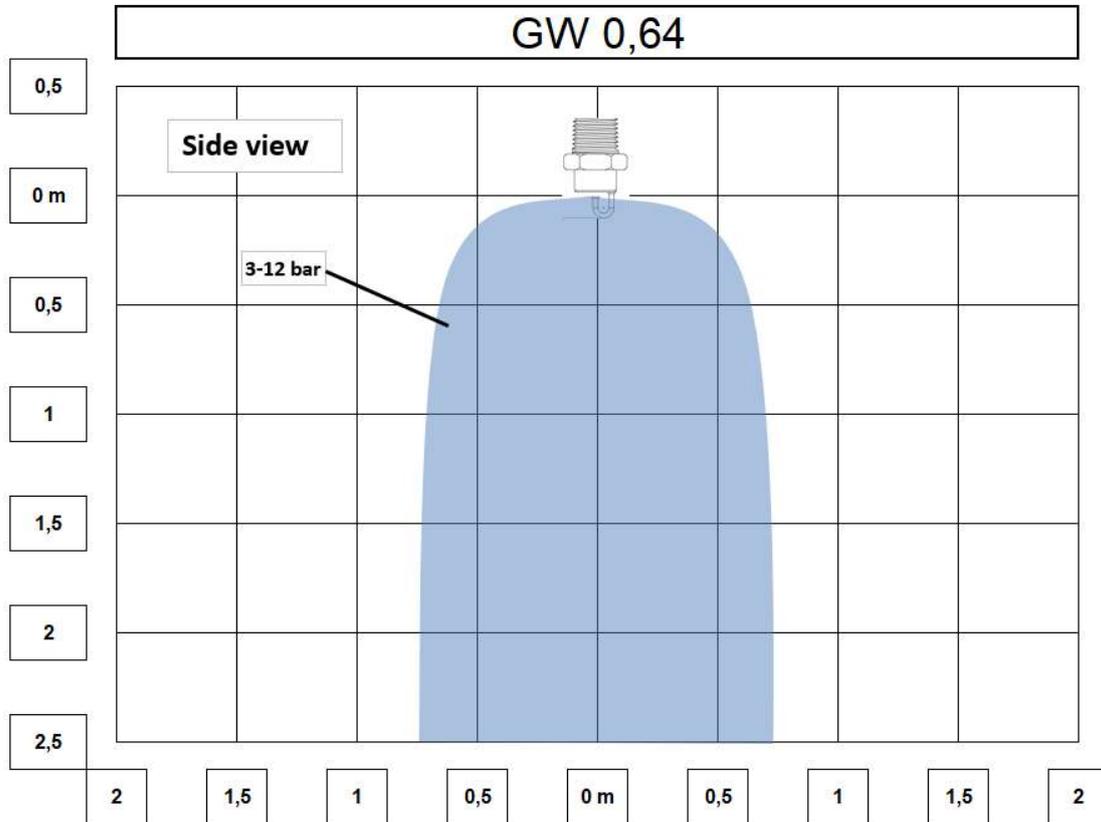
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Spray Pattern



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