



Low Pressure Automatic Sidewall Water Mist Nozzle OH-SW

The automatic low pressure sidewall water mist nozzle is an ideal alternative to traditional sprinklers in Ordinary Hazard 1 applications for hotels, residential and offices.

Key advantages are larger area of coverage than traditional sprinklers and a lower k-factor. This results in less water quantity per area of maximum operation. The installation cost benefits include the use of smaller diameter pipe, smaller pump sets and smaller capacity supply water tanks.

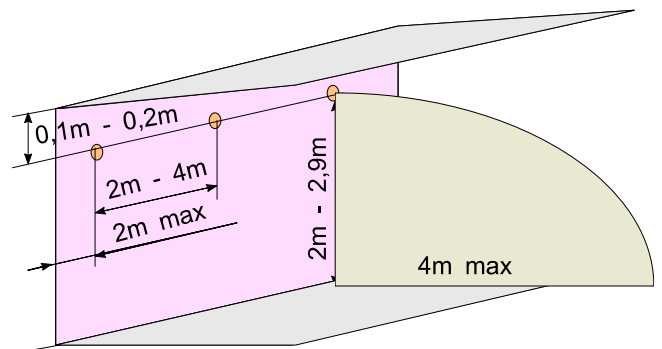
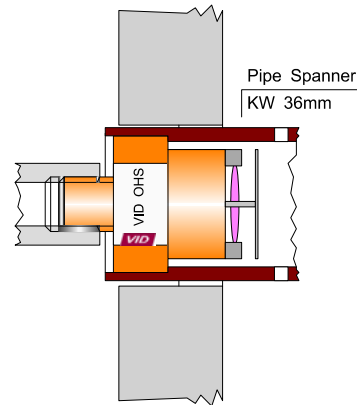
For a typical application designed to OH1 (BS EN12845) for 72m² area of maximum operation, flow is required for only 5 nozzles with a maximum flow rate of 150 l/min.

The system operation pressure is 6 bar and main pipe sizes above 1 1/2" are rarely needed.

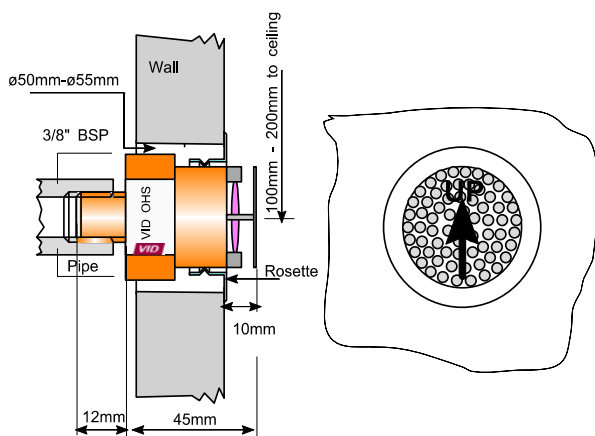
The nozzle is installed horizontally partly embedded in the wall surfaces. The nozzle and its rosette blend into the wall surface to make a visually discrete installation.

The nozzles are designed particularly for use in apartments and hotels. The product range is complimented by dedicated pump sets, alarm valves, hydraulic flow calculations and customer service from the leading independent manufacturer of fixed fire extinguishing products.

The nozzles are installed with maximum spacing of 3.7m between the nozzles. The throw is 4m into the room. The nozzles should be orientated with the glass bulb in vertical position and the marking pointing upwards.



Technical Data



Minimum Water Pressure on Nozzle (bar)	5
Maximum working pressure: (bar)	16
Nozzle materials: Nozzle housing:	Brass
Strainer: Stainless steel	Cover: Aluminium.
Time response index (metric)	RTI < 45 fast
Nominal release temperatures: (°C)	57, 68
Finish on cover plates:	chrome

Nozzle installation:

Nozzle position:	sidewall
Nozzle to be installed maximum height	3m
Nozzle to be installed with cover plate positioned	0.1-0.2mm below the ceiling surface
Maximum spacing between nozzles	3.7m
Spacing to wall (m)	1.85m
Mounting hole diameter	ø50mm – ø55mm
Pipe grade – copper, CPVC, stainless or high quality galvanised	

Hydraulic system design:

Design water density: (mm/m ²)	2.24
Nozzle K-factor (l/min/√bar)	12.5
Design coverage area:	3.7m x 4m