

Applications:

N-Pipes are used as nozzle pipes with nozzles in Low Pressure Water Mist Systems for fire protection.

Where water flows into a N-pipe multiple water mist nozzles do simultaneously distribute water mist from the N-pipe to fight fires, or to cool the surroundings of fires.

N-pipe Systems are used in both local applications, and full flooding applications.

Local applications:

Examples on local applications are:

- Protection of staircases and escape routes
- Protection of window facades
- Protection of archives and libraries
- In-rack protection in storages.
- Protection of large rooms with sectionalized systems.
- Protection of Atriums
- Protection of car-parks
- Protection of ducts, corridors, shafts and tunnels.
- Protection of process lines and process areas.
- Protection of engines, motors, generators etc.
- Cooling of tanks and/or pre-venting of objects.
- Etc.

N-pipes may be used in systems with water mist only and foam enhanced water mist.

Full Flooding applications:

Examples on full flooding applications:

- Engine rooms
- Bilge protection
- Processing-areas
- Paint booths
- Etc.

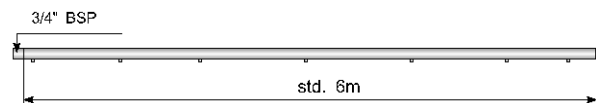
Description:

N-pipes consist of a 25mm stainless steel (AISI316) pipe with integrated low pressure

water mist nozzles. N-pipes have 3/4" threaded connection and a closed end.

N-Pipes are as standard supplied in 6m lengths. As options N-pipes are supplied in lengths in accordance with customer wishes.

N-Pipes are available with a variety of nozzle types. The nozzle type should match the application.



Types of N-pipes:

The nozzles on N-pipes are fitted with maximum 1m distance between the nozzles. The short distance between the nozzles ensures a homogeneous water mist distribution.

N-Pipes are supplied with the nozzles. Spare nozzles are available should nozzles be damaged.

N-Pipe Type I: One side spray.

Applications: Local and full flooding systems.

Length of N-pipe (m): 6
 Number of nozzles: 6
 Water pressure: (bar) 4 – 16

Nozzle types:	BM-1-16	BM-1-28
K-factor per nozzle:	1,6	2,8

K-factor per meter (litres/min/bar): 1 x 1.6 or 1 x 2.8
 Distance between N-pipes parallel(m): max. 4
 Distance between N-pipes in ends (m): 1

N-Pipe Type V: One side spray.

Applications: Local and full flooding systems.

Length of N-pipe (m):	6
Number of nozzles:	6
Water pressure: (bar)	4 – 16

Nozzle types:	BM-1-16	BM-1-28
K-factor per nozzle:	1,6	2,8

K-factor per meter (litres/min/bar):	1 x 1.6 or 1 x 2.8
Distance between N-pipes parallel (m):	max. 4
Distance between N-pipes in ends (m):	1

N-Pipe Type 2V: Two side spray

Applications: Local and full flooding systems.

Length of N-pipe (m):	6
Number of nozzles:	12
Water pressure: (bar)	4 – 16

Nozzle types:	BM-1-16	BM-1-28
K-factor per nozzle:	1,6	2,8

K-factor per meter (litres/min/bar):	2 x 1.6 or 2 x 2.8
Distance between N-pipes parallel (m):	max. 3
Distance between N-pipes in ends (m):	1

Installation:

N-pipe systems should be hydraulic calculated.

N-Pipes should be installed in clean pipe systems. The pipe systems should be made in materials which do not corrode with water, and which do not cause galvanic corrosion with N-Pipes.

The whole pipe system should be rinsed and flushed for impurities before N-pipes are attached to the pipes.

All pipes and components should be fastened to permanent beams, ridged ceilings or supported beams using good quality pipe hangers and pipe holders.

Strainers with sufficient capacities for minimum 60 minutes water duration having

mesh sizes 1-1,5mm should be installed in the water riser pipes on locations which are easy to access. It should be possible to empty and clean the filters after the system has been activated.

Other components:

The Fire-Kill product program includes

- N-pipe systems for atrium protection.
- N-pipe systems for tunnel protection.
- SUFA Valve program for local application N-pipe Systems.
- Model C Valves for full flooding N-pipe systems.