

Table 9.12: Water Mist System Requirements

ITEMS	REQUIREMENTS
11. SYSTEM PROTECTION AREA LIMITATIONS	i. The maximum area on any floor to be protected by water mist supplied by any one water mist system riser or a combined system riser shall be 4831 m ² for Light Hazard and Ordinary Hazard.
12. PRESSURE GAUGES	i. Pressure gauges shall be installed in the following locations. a. On both sides of a pressure regulating valve b. On the pressurized side of all supply connections c. On the pressurized side of all system control valves d. On all pressurized storage containers e. On all air supplies for dry pipe and pre-action systems
13. STRAINERS AND FILTERS	i. All installed water mist systems must have a suitable and approved water basket inline water filter and a suitably approved Y-strainer to capture any dirt from entering the pumps and causing nozzle blockages. ii. Every water mist nozzle shall have a suitable inbuilt stainless steel sieve to prevent dirt from entering the nozzle and causing blockages.
14. VALVES	i. All valves in the system shall be listed and installed as per their listing. ii. Valves on connections to water supplies, sectional control and isolation valves, and other valves in supply pipes to nozzles. iii. Water mist system Control and activation valves shall operate by an approved mechanical, electrical, or pneumatic means.
15. PRV'S	i. Compressed gas pressure reducing valves shall be installed as per their listing, where the supply pressure is higher than the system design pressure. ii. Pressure set, point-adjusting mechanisms on the PRVs shall be tamper resistant, and the adjustment shall be indicated by a permanent marking.
16. DRAIN AND TEST CONNECTIONS	i. Each water mist system shall have a drain on the system side of the control valve. ii. The inspector's test connections shall contain an orifice equal to or smaller than the smallest nozzle installed in the system.
17. HANGERS AND SUPPORTS	i. Hangers and supports shall be located in accordance with the requirements contained within the system's design manual. ii. The length of an unsupported arm over to a nozzle shall not exceed 0.6 m (2 ft.) for steel pipe or 0.3 m (1 ft.) for steel tubing. iii. Hangers used on low pressure water mist systems shall be permitted to be designed and installed in accordance with Table 9.7.30 . iv. The tube Hanger Maximum spacing shall be as per Table 9.12.B .

Table 9.12.B: Water Mist Tube Hanger Spacing

TUBE O.D (Outer Diameter)	MAXIMUM SPACING BETWEEN HANGERS
1. 6– 14 mm	1.21 m
2. 15– 22 mm	1.52 m
3. 23-28 mm	1.82 m
4. 30-38 mm	2.12 m
5. 40-49 mm	2.42 m
6. 50– 59 mm	3 m
7. 60– 70 mm	3.33 m
8. 71-89 mm	3.64 m
9. 90-108 mm	3.94 m