



## PYPLOK & WATER MIST SYSTEMS

### A. What are Water Mist Systems?

Whenever there is a fire, the first and foremost thought that appears in one's mind is to use water to douse it. Water mist systems are an improved way of how water is used to douse the fire. Water mist systems use fine droplets to extinguish the fire by cooling it down. The cooling effect of water mist will be anywhere around 6 to 7 times that of traditional water sprinkler systems.

For any fire to occur the minimum ingredients are Oxygen, Heat and Fuel. It is also called the fire triangle.



The removal of any of these three components will extinguish the fire. The water mist system extinguishes the fire by neutralizing heat and oxygen, hence it results in quicker firefighting.

The efficiency of a water mist system in fire suppression depends on its spray properties, like droplet size distribution, flux density and spray dynamics, with respect to the fire scenario, such as the shielding of the fuel, fire size and ventilation conditions.

Water mist system has the below advantages as compared to traditional sprinkler system or gaseous systems-

- a. It has a very quick response
- b. Water damage to the subject of fire is minimized
- c. Not toxic
- d. Environmentally safe
- e. Highly efficient to suppress a wide variety of fires

**B. Why use PYPLOK in Water Mist Systems?**

**1. High Pressure**



PYPLOK is a High Pressure Fitting which can take 6000 psi/415 bar upto 2" NPS. This is ideal for Water Mist System which is based on high pressures.

**2. No Welding**



**No Nozzle clogging due to improper flushing, weld remnants and weld erosion**

**3. Speciality Fittings**



**PYPLOK has tailor made fittings for Water Mist System to decrease the number of joints/leaks**

**4. Complete Portfolio**



**PYPLOK has a huge portfolio of fittings from 1/4" to 4" (6 to 115 mm)**

**PYPLOK is available in CS/SS/Cu-Ni/Duplex/Super Duplex. Hence the customer can be rest assured to be sourcing from one OEM (PYPLOK) as opposed to many OEM's in the case of fittings which have size & material limitations**

5. Certified Product



**PYPLOK is type approved by DNV/ABS/LR/BV/Class NK/CCS/RMRS/KR which makes it versatile to be used in different industries and regions.**

6. References in Water Mist Systems



**PYPLOK has a healthy list of past project installations which show its excellent usability in Water Mist Systems worldwide.**

**C. Applications in Water Mist System**



**PYPLOK TOOL CRIMPING THE PYPLOK FITTING ON A WATER MIST LINE**



Pyplok® has been used in water mist systems for City Halls, Museums, Genetic Labs, Libraries, heritage buildings, Motorway Tunnels, Underground Depot, Yachts, Cruise lines and many more.