

## Deluge Systems

In areas of risk in which a very rapid expansion of the fire must be taken into account, deluge systems are used.

In contrast to sprinkler systems, open extinguisher nozzles are placed throughout the whole area to be protected. Along with the protected room, deluge systems are especially suited for the protection of buildings.

Typical areas of application:

- Fuel depots
- Refineries
- Cable shafts and basements
- Conveyor apparatus
- External transformers
- Timber processing industry
- Waste disposal operations



Image: Robert Tober

Triggering can either be hydraulic, pneumatic, electric or manual. A network of sensors or a fire detector system in the protected area controls the valve's switch by remote control in the event of an outbreak of fire.

In their positioning, therefore, it is necessary to consider whether or not any unintentional false alarms will trigger the system.

Because of an omission in the guidelines in Austria, the VdS (German federation of property insurers) Guideline - 2109 is to be applied when planning deluge systems.