



SPRINKLER HEADS

Sprinkler heads come in a variety of types. However, they can be broken into two main types, OPEN OR CLOSED. Open heads are "spray heads" that are actuated when fire detection devices are installed in the area then send a signal to open a *Deluge Valve*. Closed heads activate upon a release mechanism on the head itself.

The three most commonly used release mechanisms are **Fusible Links**, **Glass Bulbs** and **Chemical Pellets**, all which *fuse* or open in response to heat. The release mechanism then gives way to allow water to flow from the branch piping through the head. Depending on the type of head, placement and deflector a certain type of water spray will fall – cooling the gases, pre-soaking surrounding combustibles or if designed to, extinguish the fire.



FRANGIBLE BULB SPRINKLER HEAD



DAMAGED FRANGIBLE BULB HEAD



VARIETY OF HEADS



MANUAL DELUGE ACTUATION STATIONS

Tactical Considerations:

- Dedicate a crew to the system.
- Position an engine for system support using a dedicated hydrant or water supply.
- Do not shut down supply until IC orders.
- Support the system first.
- Size up area and determine system type.
- Prepare for Overhaul