

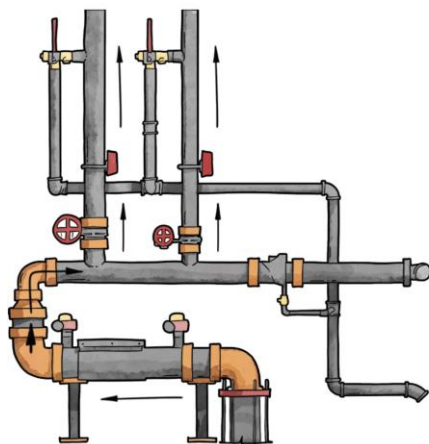
COMPONENTS OF A SPRINKLER SYSTEM?

INTRODUCTION TO SPRINKLER & STANDPIPE SERIES BY MEYERFIRE UNIVERSITY | OCTOBER 2021

SUMMARY

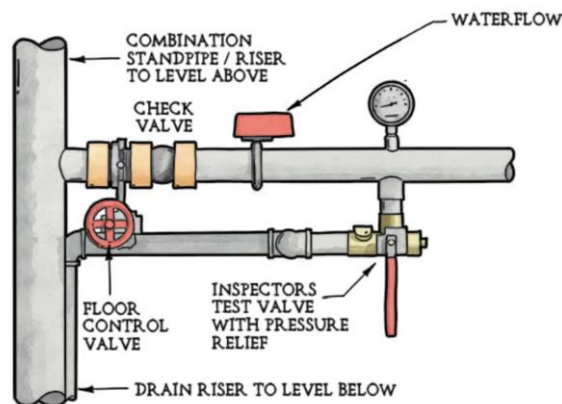
What are the main components of a fire sprinkler system?

- **Water Supply:** Municipal, Fire Pump, Tank
- **Water service** is the connection between the municipal water supply and the building
- **Backflow preventors** provided to prevent water from flowing back into the municipal system, required by the plumbing code.
- **Sprinkler risers** are where systems are isolated with a control valve (and other equipment) to break a system into zones. Zones allow for maintenance without taking the entire building offline.
- **Indicating valves:** butterfly valve, OS&Y, post indicator valve
- **Check valve:** only required with combined sprinkler and standpipe system.
- **Monitoring Device:** waterflow switch (wet pipe) or pressure switch (dry system)
- **Inspectors Test & Main Drain:** used to test check valve and water flow switch
- **Pressure Gauge:** Indicates pressure within system
- **Feed Main, Cross Main, Branch Lines, Arm Overs:** The feed main is a dedicated path without other connections. A cross main connects to branch pipe. Branch lines are the smaller pipes that serve sprinklers directly. Armovers are the connections between a sprinkler and a branch pipe.
- **Sprinklers:** A nozzle that is held closed by a glycerin filled glass bulb, or other fusible link, is opened automatically based upon heat.



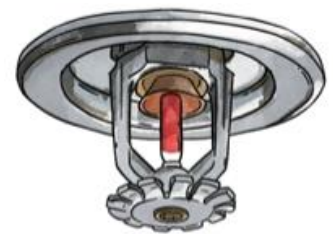
Riser Assembly

Shown: Horizontal backflow preventor, and (2) wet system risers



Riser

Often referred to as a "Floor Control Assembly"



Sprinkler

A recessed-style, pendent sprinkler

VIDEO LINK

www.meyerfire.com/university/components-of-sprinkler-systems

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