

## **1.4. Automatic Sprinkler Systems**

### **1.4.8. Dry pipe Pre-action Sprinkler System**

A sprinkler system employing automatic sprinklers attached to a piping system containing air under pressure with a supplemental detection system installed in the same areas as the sprinklers. The operation of the detection system actuates tripping devices that open dry pipe valves simultaneously and without loss of air pressure in the system. The operation of the detection system also opens listed air exhaust valves at the end of the feed main, which usually precedes the opening of sprinklers. The detection system also serves as an automatic fire alarm system.

### **1.4.9. Deluge Sprinkler System**

A sprinkler system employing open sprinklers that are attached to a piping system that is connected to a water supply through a valve that is opened by the operation of a detection system installed in the same areas as the sprinklers. When this valve opens, water flows into the piping system and discharges from all sprinklers attached thereto.

### **1.4.10. Branch line**

The pipes in which the sprinklers are placed, either directly or through risers.

### **1.4.11. Cross Mains**

The pipes supplying the branch lines, either directly or through risers.

### **1.4.12. Feed Mains**

The pipes supplying cross mains, either directly or through risers.