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Sprinkler System— Dry-Pipe Valves, Inspection and Testing Checklist

Regular inspection, testing, and maintenance of dry-pipe sprinkler valves and associated quick-opening devices are critical to ensure effective performance of a sprinkler system. All inspections and tests should be performed in accordance with NFPA 25, *Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems (2014 Edition)*, published by the National Fire Protection Association (NFPA).

Prior to performing any test, the facilities alarm system provider/monitoring station should be notified of the testing and following conclusion of the testing. When the results of any inspection or test are negative, a qualified sprinkler contractor should be contacted to investigate and correct the deficiencies.

The following checklist can be used to identify the required valve inspection and testing frequency for a dry-pipe valve sprinkler system:

Weekly Inspections

	YES	NO	NA
Is the temperature of the enclosure, room, or area for the valve at least 40°F (4°C)? If the enclosure, room, or area is not equipped with a low-temperature alarm, this inspection should be performed daily.			
Does the supply-side pressure gauge indicate normal water supply pressure?			
Are the dry-side pressure gauge readings within manufacturer’s specifications? If the system is equipped with a low-pressure alarm, this inspection can be performed monthly, rather than weekly			
Does the quick-opening device gauge, if so equipped, indicate the same pressure as the dry-side system pressure?			

Monthly Inspections

	YES	NO	NA
Does the valve assembly show any sign of leaking or physical damage?			
Are all valves in the correct operating positions, as indicated by the system diagrams?			

Annual Inspections

	YES	NO	NA
Is the interior surface of valve body free from corrosion?			
Are low temperature alarms, when present, inspected for damage?			

Quarterly Testing

	YES	NO	NA
Is the priming water filled to proper level, as per the manufacturer's specifications?			
Does the quick-opening device activate properly?			
Does the low air pressure alarm function properly?			

Annual Testing

	YES	NO	NA
Is a limited-flow, trip test of the dry-pipe system and quick-opening devices performed during warm weather?			
Is a low temperature alarm function test performed at the beginning of the heating season?			
Are air pressure maintenance devices tested?			
Does the air supply refill the systems, following a trip test, in 30 minutes or less? This time can be extended to 60 minutes in refrigerated spaces having a temperature of less than 5°F (-15°C).			

Multi-Year Inspections and Tests

	YES	NO	NA
Are all system strainers, filters, and restricting devices tested every five years for corrosion and obstructions?			
Is a full-flow, system trip test, including the quick opening, performed every three years?			
Are system gauges tested or replaced every five years? Gauges should be accurate to within three percent of full scale.			
Is the system tested every three years for air leaks?			

 To learn more about Hanover Risk Solutions, visit hanoverrisksolutions.com



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