

Table 13.1.1.2

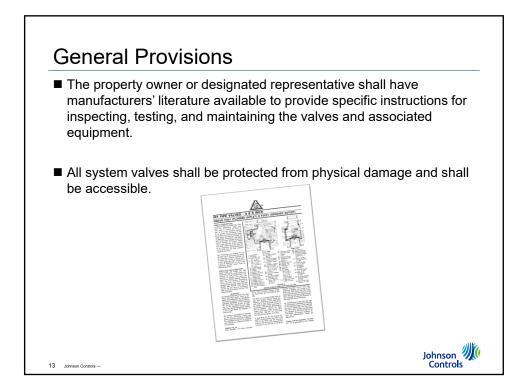
Table 13.1.1.2 Summary of Valves, Valve Components, and Trim Inspection, Testing, and Maintenance

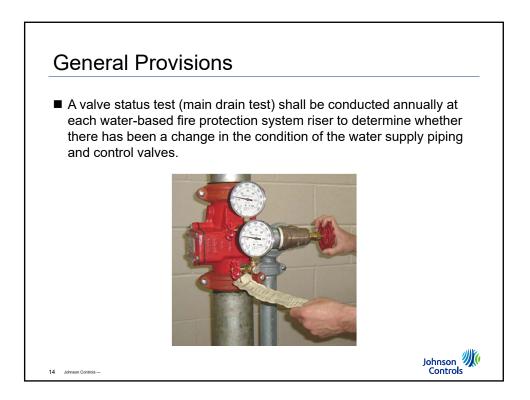
| Item | Frequency | Reference |
|--|-----------|---------------------|
| Inspection | | |
| Alarm Valves | | |
| Exterior | Quarterly | 13.4.1.1 |
| Interior | 5 years | 13.4.1.2 |
| Strainers, filters, orifices | 5 years | 13.4.1.2 |
| Backflow Prevention Assemblies | | |
| Reduced pressure | Weekly | 13.7.1 |
| Reduced-pressure detectors | Weekly | 13.7.1 |
| Interior | 5 years | 13.7.1.3 |
| Check Valves | | |
| Interior | 5 years | 13.4.2.1 |
| Control Valves | , | |
| All valves except locked or supervised | Weekly | 13.3.2.1 |
| Locked or supervised | Monthly | 13.3.2.1.1 |
| Electrically supervised | Quarterly | 13.3.2.1.2 |
| Dry Pipe Valves/ | | |
| Quick-Opening Devices | | |
| Enclosure (during cold weather) | | Chapter 4 |
| Exterior | Monthly | 13.4.5.1.2 |
| Interior | Annually | 13.4.5.1.3 |
| Strainers, filters, orifices | 5 years | 13.4.5.1.4 |
| Low temperature alarm | Annually | Chapter 4 |
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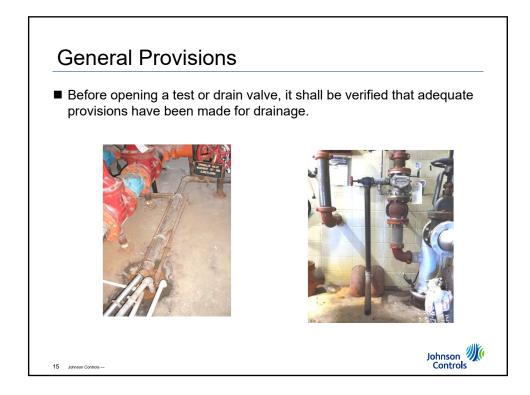
| spection | | | |
|--|---------------------|------------|--|
| Deluge Valves | | | |
| Enclosure (during cold weather) | Daily/weekly | Chapter 4 | |
| Exterior | Monthly | 13.4.4.1.1 | |
| Interior | Annually/5 years | 13.4.4.1.2 | |
| Strainers, filters, orifices | 5 years | 13.4.4.1.3 | |
| Fire Department Connections | Quarterly | 13.8.1 | |
| Gauges | Monthly/quarterly | 13.2.5 | |
| Hose Valves | Quarterly | 13.6.1 | |
| Preaction Valves | | | |
| Enclosure (during cold weather) | | Chapter 4 | |
| Exterior | Monthly | 13.4.3.1.1 | |
| Interior | Annually/5 years | 13.4.3.1.2 | |
| Strainers, filters, orifices | 5 years | 13.4.3.1.3 | |
| Pressure-Regulating and Relief Valves | | | |
| Master pressure-regulating | Weekly | 13.5.4.1 | |
| Sprinkler system pressure-reducing | Quarterly | 13.5.1.1 | |
| Hose connection pressure-regulating | Annually | 13.5.2.1 | |
| Hose rack pressure-regulating | Annually | 13.5.3.1 | |
| Fire pump circulation relief | With no flow test | 13.5.6.1 | |
| Fire pump main pressure-relief | With fire pump test | 13.5.6.2.1 | |
| Valve Supervisory Signal Initiating Device | Quarterly | 13.3.2.1.3 | |
| Supervisory Signal Devices (except valve | Quarterly | 13.2.6.1 | |
| supervisory switches) | | | |

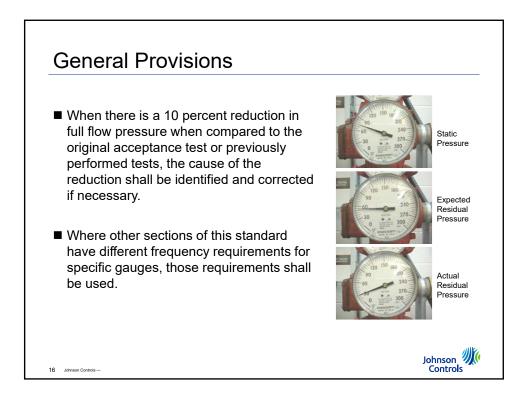
| Table 13.1.1.2 Continued | | | |
|---|-------------------------------|---------------------------|--|
| Item | Frequency | Reference | |
| Dry Pipe Valves/ | | | |
| <i>Quick-Opening Devices</i> Air leakage | 3 years | 13.4.5.2.9 | |
| Priming water | Quarterly | 13.4.5.2.1 | |
| Low air pressure alarm Quick-opening devices | Annually Quarterly | 13.4.5.2.6 13.4.5.2.4 | |
| Trip test | Annually | 13.4.5.2.2 | |
| Full-flow trip test | 3 years | 13.4.5.2.2.2 | |
| Gauges | 5 years | 13.2.5.2 | |
| Main Drains | Annually/quarterly | 13.2.3 | |
| Preaction Valves | 0 | 10 4 0 0 1 | |
| Priming water | Quarterly | 13.4.3.2.1 13.4.3.2.11 | |
| Low air pressure alarms | Quarterly Annually/3 years | 13.4.3.2.2 and 13.4.3.2.3 | |
| Trip test Air leakage | 3 years | 13.4.3.2.6 | |
| Low temperature alarm | Annually | 13.4.3.2.12 | |
| Pressure-Regulating and Relief Valves | | 10.10.2.12 | |
| Master pressure-regulating | Quarterly/annually | 13.5.4.2 and 13.5.4.3 | |
| Sprinkler systems pressure-reducing | Annually/5 years | 13.5.1.3 and 13.5.1.2 | |
| Hose connection pressure-regulating | Annually/5 years | 13.5.2.3 and 13.5.2.2 | |
| Hose rack pressure-regulating | Annually/5 years | 13.5.3.3 and 13.5.3.2 | |
| Fire pump circulation relief | With churn test | 13.5.6.1.2 | |
| Fire pump pressure relief valves | With fire pump test | 13.5.6.2.2 | |
| Hose Valves | Annually/3 years | 13.6.2 | |
| Waterflow Alarms | Quarterly/semiannually | 13.2.4 | |
| Supervisory Signal Devices (except valve supervisory switches) | Annually | 13.2.6.2 | |

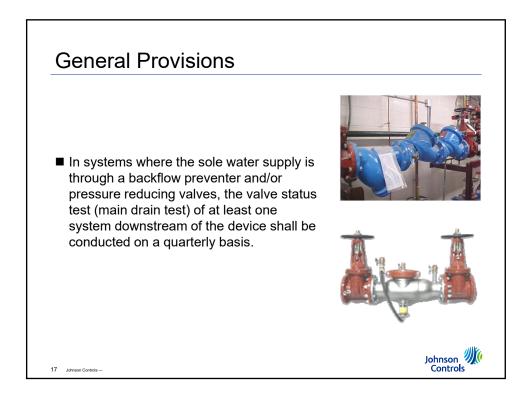
| <u>Maint</u> | enance | | | |
|-----------------------|---|-------------------------------|--------------------|---------|
| | | | | |
| | Maintenance Alarm Valves | Per manufacturer | 13.4.1.3 | |
| | Backflow Prevention Assemblies | Per manufacturer | 13.7.3 | |
| | Check Valves Control Valves (outside screw and yoke) | Per manufacturer Annually | 13.4.2.2 13.3.4 | |
| | Deluge Valves (ouiside screw and yoke) | Annually/5 years | 13.4.4.3 | |
| | Dry Pipe Valves/ | Annually | 13.4.5.3 | |
| | Quick-Opening Devices Hose Valves | As needed | 13.6.3 | |
| | Prose values Preaction Values | As needed Annually/5 years | 13.4.3.3 | |
| | | | | |
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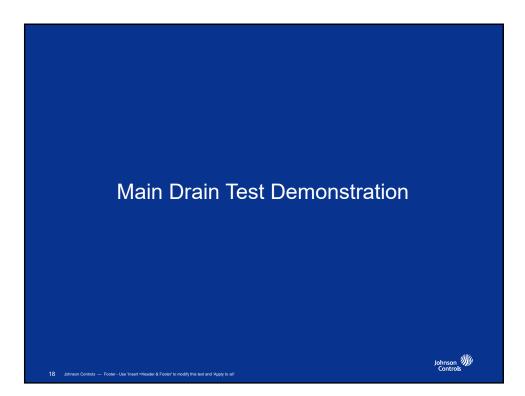


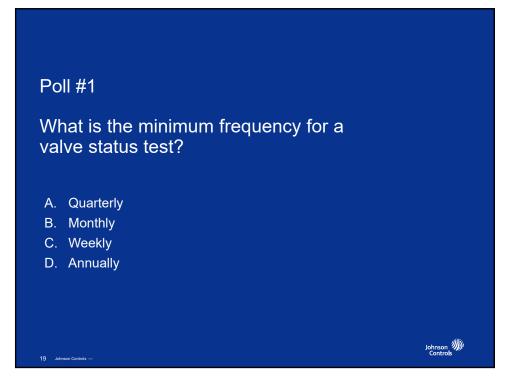




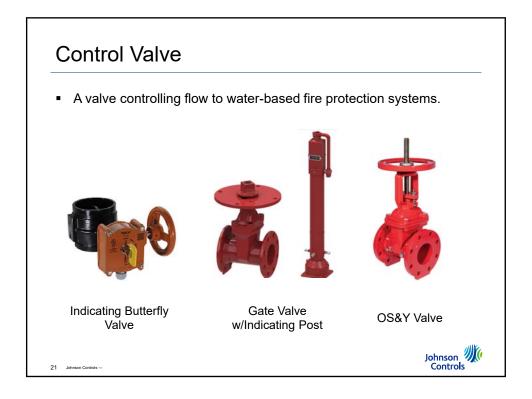


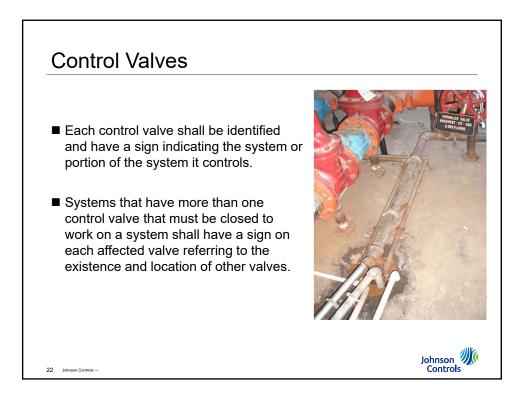












Control Valves

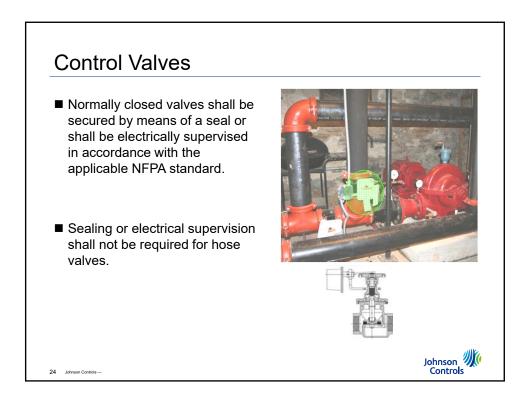
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- When the valve is returned to service, a drain test (either main or sectional drain, as appropriate) shall be conducted to determine that the valve is open.
- Each normally open valve shall be secured by means of a seal or a lock or shall be electrically supervised in accordance with the applicable NFPA standards.





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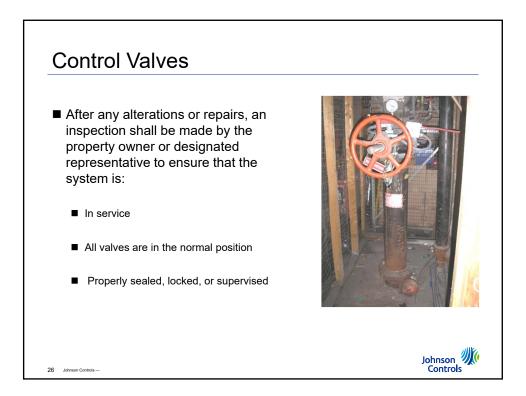


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- All valves that are locked or supervised in accordance with applicable NFPA standards shall be permitted to be inspected monthly.
- Valves that are electrically supervised shall be permitted to be inspected quarterly.



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Control Valves

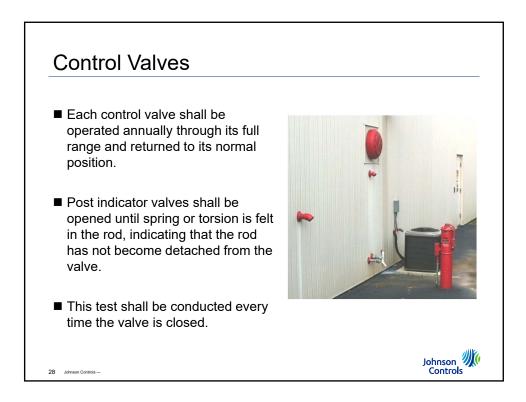
- The valve inspection shall verify that the valves are in the following condition:
 - (1) In the normal open or closed position
 - (2)*Sealed, locked, or supervised
 - (3) Accessible

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- (4) Provided with correct wrenches
- (5) Free from external leaks
- (6) Provided with applicable identification



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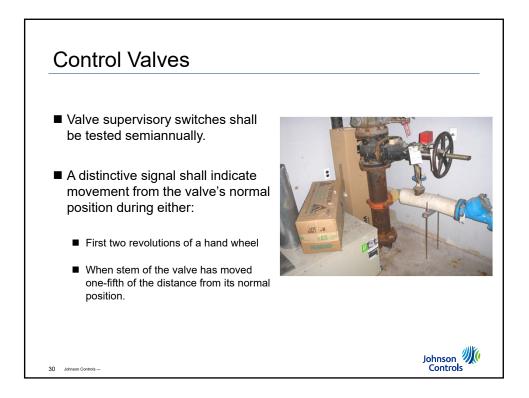
Control Valves

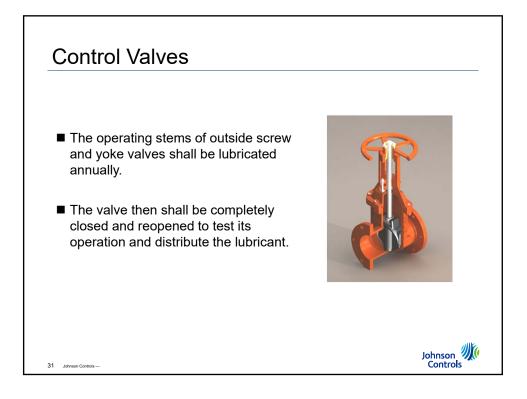
- Post indicator and outside screw and yoke valves shall be backed a one-quarter turn from the fully open position to prevent jamming.
- A main drain test shall be conducted any time the control valve is closed and reopened at system riser.

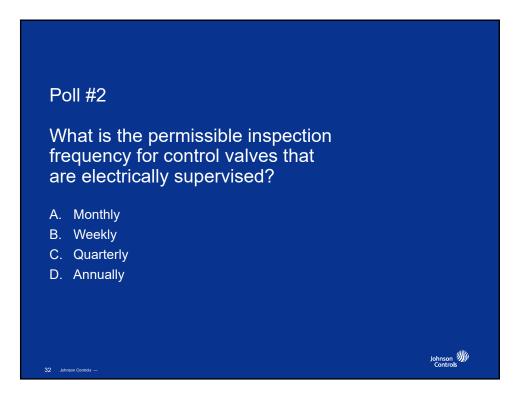
29 Johnson Controls -





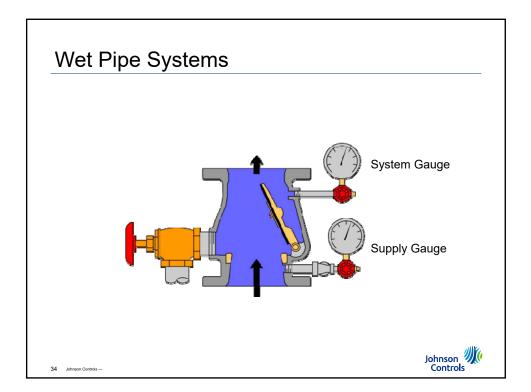


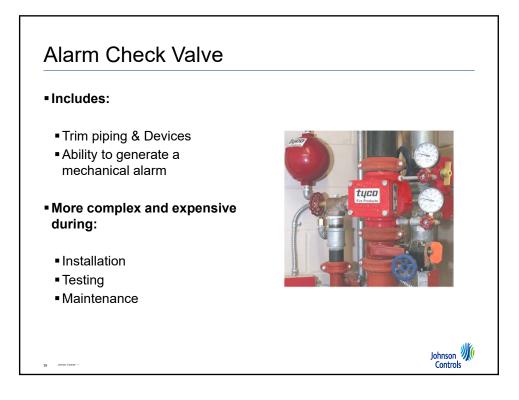


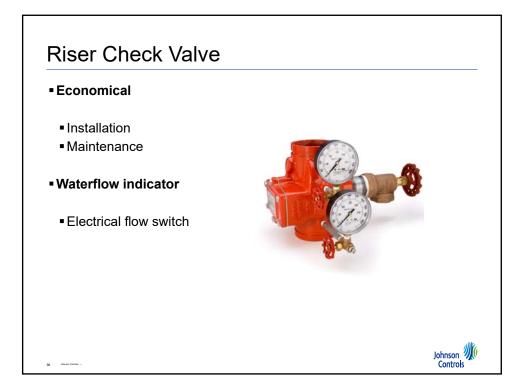


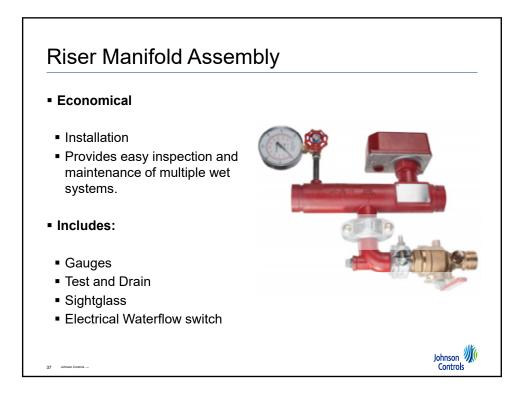
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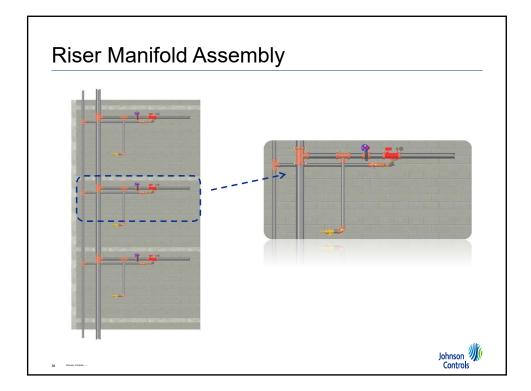


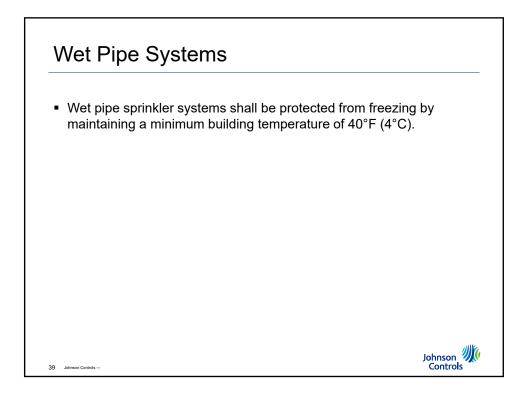


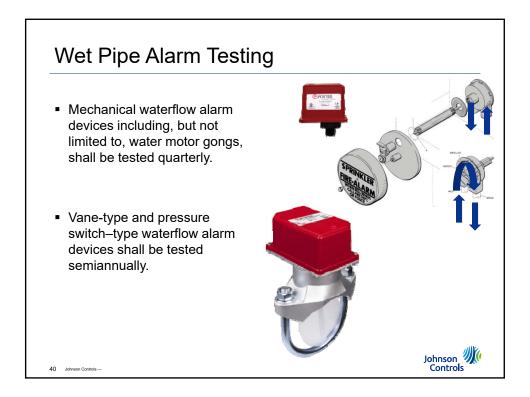


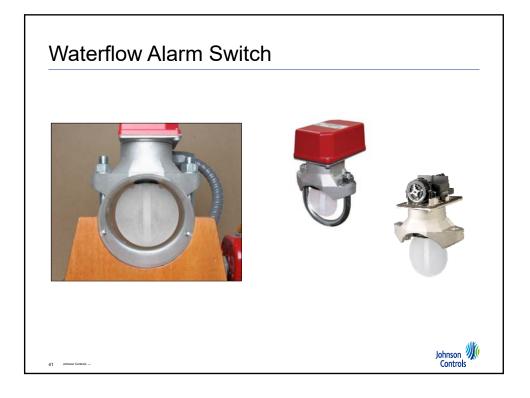














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