

1. RELATED SPECIFICATIONS
 - A. Preaction Fire Sprinkler System.
 - B. Dry-Pipe Fire Sprinkler System.
 - C. Quality Control.
 - D. Common Work Results for Fire Suppression.
 - E. Schedules for Fire Suppression.
 - F. Contract drawings
 - G. General provisions of the contract, including General and Supplementary Conditions

3. **SUBMITTALS**

A. Product Data. Include, as applicable, product rated capacities, operational characteristics, and materials and standards of construction.

B. Shop Drawings. Show device installation locations and details.

C. Closeout Submittals

1. Location of devices on system as-built drawings.

2. Operation and maintenance instructions.

D. Operation and Maintenance Submittals.

5. PIPE AND FITTINGS. Pipe and fittings to connection of supervisory pressure source to device inlet, and device outlet for fire sprinkler valve trim.

A. Valve - Schedule 40 Steel, per ASTM A53 / A53M - Specification for Pipe, Steel, Black, Welded and Seamless.

B. Nipples - Steel Pipe Nipples, Threaded End, per ASTM A733 - Specification for Welded and Seamless Carbon Steel Pipe Nipples.

C. Fittings - All fittings shall be black. Galvanized fittings shall not be used. Fittings per ASTM B16.3 - Malleable Iron Threaded Fittings, or ASTM B16.4 - Cast Iron Threaded Fittings.

D. Couplings - Per ASTM A695 - Specification for Threaded Couplings, Steel, Black, Welded or Seamless, for Use in Steel Pipe Joints.

E. Unions. Use unions only as necessary where joining pipe is impossible or impractical otherwise than unions. per ASTM B16.39 - Malleable Iron Threaded Pipe Unions.

F. Threads - Threaded ends per ASTM B2.1 - Basic Standards for Steel Pipe Threads, and ANSI B1.20.1 - Pipe Threads, General Purpose (Inch). All threads shall be NPT.

G. Copper tubing or brass hose shall not be used.

7. **STORAGE AND HANDLING.** Deliver all material and equipment properly identified by type, size, manufacturer's name and specification section. All material to be undamaged. Do not store exposed to weather. Store indoors or cover to protect from damage. Protect all material and equipment to prevent damage and entrance of foreign matter. During loading, transporting, and unloading, handle all material and equipment with care to prevent damage. Do not drop. Store all material and equipment to the satisfaction of the Resident Engineer.

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| 8. | INSTALLATION A. Location and Arrangement. Contract drawings, plans, schematics, and diagrams indicate general location and arrangement of device(s). Shop drawings shall indicate actual device installation layout. Install device(s) per approved shop drawings. B. Deviations. Installation deviations from approved shop drawings require written approval from the Engineer. During installation, do not deviate from approved shop drawings without written approval from the Engineer. C. Sprinkler Mount the device in the piping system to the supervisory pressure inlet connection on the sprinkler valve trim. Observe manufacturer's instructions for device operation, and inlet / outlet connections. D. Pipe Ends. Ream ends of pipe to remove burrs. Bevel plain ends of pipe. E. Examination. Examine all pipe and fittings thoroughly before installation. Do not install damaged or defective pipe or fittings. F. Cleaning. Remove scale, slag, dirt, cutting and threading shavings, and debris from inside and outside of pipe after fabrication and before assembly. Use a non-toxic solvent to remove pipe end dirt. Pipe shall be free of scale and debris. G. Adjustment. Adjust the device in accordance with manufacturer's commissioning instructions. Determine proper supervisory pressure from Contract drawings. |
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