

SECTION 21 1200
FIRE-SUPPRESSION STANDPIPES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Fire hose cabinets.
- B. Valves.
- C. Fire department connections.
- D. Fire extinguishers located in hose cabinets.

1.02 RELATED REQUIREMENTS

- A. Section 10 4400 - Fire Protection Specialties.
- B. Section 21 0500 - COMMON WORK RESULTS FOR FIRE SUPPRESSION: Fire protection piping.
- C. Section 21 0523 - General-Duty Valves for Water-Based Fire-Suppression Piping.
- D. Section 21 0553 - Identification for Fire Suppression Piping and Equipment.
- E. Section 21 1300 - Fire Suppression Sprinklers.
- F. Section 21 3000 - Fire Pumps.
- G. Section 22 0553 - Identification for Plumbing Piping and Equipment.

1.03 REFERENCE STANDARDS

- A. FM (AG) - FM Approval Guide; current edition.
- B. ITS (DIR) - Directory of Listed Products; current edition.
- C. NFPA 10 - Standard for Portable Fire Extinguishers; 2013.
- D. NFPA 14 - Standard for the Installation of Standpipe and Hose Systems; 2013.
- E. NFPA 1963 - Standard for Fire Hose Connections; 2014.
- F. UL 4 - Armored Cable; Current Edition, Including All Revisions.
- G. UL 405 - Fire Department Connection Devices; Current Edition; Including All Revisions.
- H. UL (DIR) - Online Certifications Directory; current listings at database.ul.com.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Meeting: Conduct a preinstallation meeting one week prior to the start of the work of this section; require attendance by all affected installers.

1.05 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide manufacturer's catalog sheet for equipment indicating rough-in size, finish, and accessories.
- C. Shop Drawings: Indicate supports, components, accessories, and sizes.
 - 1. Submit shop drawings and product data to Owner's insurance underwriter for approval.
 - 2. Submit proof of approval to Architect.
- D. Project Record Documents: Record actual locations of components.
- E. Operation Data: Include appropriate manufacturer's data.
- F. Maintenance Data: Include servicing requirements and test schedule.
- G. Certificates: Provide certificate of compliance from authority having jurisdiction indicating approval of field acceptance tests.

1.06 QUALITY ASSURANCE

- A. Perform Work in accordance with NFPA 14. Maintain one copy on site.

- B. Installer Qualifications: Company specializing in performing the work of this section with minimum 3 years documented experience and approved by manufacturer.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store products in shipping packaging until installation.

PART 2 PRODUCTS

2.01 FIRE HOSE CABINETS

- A. Manufacturers:
 - 1. Strike First Corporation of America; CM1101 - Outdoor Weather Proof Hose Storage Cabinet: www.strikefirstusa.com.
 - 2. Substitutions: See Section 01 6000 - Product Requirements.
- B. Cabinet:
 - 1. Style: Recessed mounted.
 - 2. Door: 12 gage, 0.1046 inch thick steel, flush, glazed with 1/4 inch (6.35 mm) thick wired glass full panel; hinged, positive latch device.
 - 3. Finish: Prime coated.
- C. Hose Rack: Steel with polished chrome finish; swivel type with pins and water stop.
- D. Hose: 1 inch diameter, 50 feet long, of linen hose; mildew and rot-resistant.
- E. Nozzle: Chrome plated brass; combination fog, straight stream, and adjustable shut-off.

2.02 VALVES

- A. General Duty Valves: Refer to Section 21 0523.
- B. Specialty Valves:
 - 1. Hose Connection Valve:
 - a. Angle type; brass finish; 2-1/2 NPS, thread to match fire department hardware, 300 psi working pressure, with threaded cap and chain of same material and finish.
- C. Hose Connection Valve Cabinets:
 - 1. Style: Recessed mounted.
 - 2. Tub: 16 gage, 0.0598 inch thick steel, prepared for pipe and accessory rough-in.
 - 3. Door: 12 gage, 0.1046 inch thick steel, flush, glazed with 1/4 inch (6.35 mm) thick wired glass full panel; hinged, positive latch device.
 - 4. Finish: Prime coated.

2.03 FIRE DEPARTMENT CONNECTIONS

- A. Type: Free standing made of corrosion resistant metal complying with UL 405.
 - 1. Manufacturers:
 - a. Elkhart Brass Manufacturing Company, Inc; _____: www.elkhartbrass.com.
 - b. Fire End & Croker Corporation; _____: www.croker.com.
 - c. Substitutions: See Section 01 6000 - Product Requirements.
 - 2. Inlets: Two way, 2-1/2 inch swivel fittings, internal threaded. Thread size and inlets according to NFPA 1963 or Authority Having Jurisdiction. Brass caps with gaskets, chains, and lugs.
 - 3. Rated Working Pressure: 175 psi.
 - 4. Finish: Chrome.
 - 5. Sleeve: 18 inches height.
 - 6. Signage: Raised or engraved lettering 1 inch minimum indicating system type.

2.04 FIRE EXTINGUISHERS

- A. General: Comply with NFPA 10; FM (AG), ITS (DIR), and UL (DIR) listed product.
- B. Multi-Purpose Dry Chemical Type: Cartridge operated with hose and shut-off nozzle or integral shut-off nozzle.
 - 1. 10 pound capacity with 4A:60BC rating.

2. 20 pound capacity with 20A:120BC rating.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Install in accordance with NFPA 14.
- C. Locate and secure cabinets plumb and level. Establish top of cabinet (inside horizontal) surface 66 inches above finished floor.
- D. Connect standpipe system to water source ahead of domestic water connection.
- E. Flush entire system of foreign matter.

END OF SECTION 21 1200

