

**SECTION 22 4500
EMERGENCY PLUMBING FIXTURES**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Eye/face wash equipment.
- B. Emergency-fixture water-tempering valves.

1.02 REFERENCE STANDARDS

- A. ANSI Z358.1 - American National Standard for Emergency Eyewash and Shower Equipment; 2014, with Editorial Revision (2020).
- B. ANSI Z535.2 - American National Standard for Environmental and Facility Safety Signs; 2023.
- C. ASSE 1071 - Performance Requirements for Temperature Actuated Mixing Valves for Plumbed Emergency Equipment; 2012 (Reaffirmed 2021).
- D. UL (DIR) - Online Certifications Directory; Current Edition.

1.03 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements for submittal procedures.
- B. Product Data: Manufacturer's catalog sheets for fixtures, accessories, and supplies.

PART 2 PRODUCTS

2.01 EYE/FACE WASH EQUIPMENT

- A. Manufacturers:
 - 1. Bradley: www.bradleycorp.com/#sle.
 - 2. Guardian Equipment: www.gesafety.com/#sle.
 - 3. Or approved equal.
- B. ANSI Z358.1, wall-mounted bowl with dual eye-spray head assembly.
- C. Product Certification: UL (DIR).
- D. Thermostatic Mixing Valve: ASSE 1071, manufacturer furnished, sized for flow rate of face wash.
- E. Tepid Supply Water Temperature: Set to 65 degrees F (19 degrees C).
- F. Water Supply Connection Size: 1/2 inch (12.7 mm).
- G. Water Discharge Flow Rate: Minimum, 3 gpm (11.3 Lpm) for 15 minutes.
- H. Pipe and Fittings Material: Epoxy coated galvanized steel.
- I. Valve: Full flow, self closing, quick to open thru wide-handle manual hand operator.
- J. Drain: Built-into the bowl assembly with 1-1/4 inch (3.2 cm) female outlet.
- K. Accessories:
 - 1. Bowl Cover: Valve-operated stainless steel hinged assembly.
 - 2. Signage: ANSI Z535.2, emergency eye/face wash safety equipment.

2.02 EMERGENCY-FIXTURE WATER-TEMPERING VALVES

- A. Manufacturers:
 - 1. Bradley: www.bradleycorp.com/#sle.
 - 2. Guardian Equipment: www.gesafety.com/#sle.
 - 3. Or approved equal.
- B. Tepid Water Temperature: Set to 65 degrees F (19 degrees C).
- C. Capacity: Sized to match selected fixture(s) capacity at 30 psi (2 bar) supply pressure.
- D. Valve Assembly: ASSE 1071, thermostatic mixing valve made of lead-free cast brass body with integral built-in cold water bypass (fail safe), color marked dual-scale outlet temperature

gauge, integral inlet check valve, integral inlet strainer, locking-type regulator, and mounting bracket.

- E. Cabinet: 16 gauge, 0.0598 inch (1.52 mm) stainless steel, recessed-mounted with keyed lock.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that fixtures and accessories are of the correct type and size prior to installation.
- B. Verify that deck, wall and floor finishes are prepared and ready for fixture installation.

3.02 INSTALLATION

- A. Install fixtures and fittings in accordance with the manufacturer's instructions.
- B. Adjust water flow rates to comply with manufacturer's rating of the fixture.

3.03 FIELD QUALITY CONTROL

- A. See Section 01 4000 - Quality Requirements for additional requirements.
- B. Operational Tests: Upon completion and sterilization of plumbing systems, conduct operating tests to demonstrate satisfactory, functional, and operating efficiency.

3.04 CLEANING

- A. Thoroughly clean plumbing fixtures and equipment.
- B. See Section 01 7419 - Construction Waste Management and Disposal for additional requirements.

3.05 PROTECTION

- A. Protect installed products from damage due to subsequent construction operations.
- B. Repair or replace products damaged before Date of Substantial Completion.

3.06 SCHEDULES

- A. Fixture Heights: Install fixtures to heights above finished floor as indicated.
 - 1. Emergency Eye and Face Wash:
 - a. Standard: 38 inches (965 mm) to receptor rim.

END OF SECTION