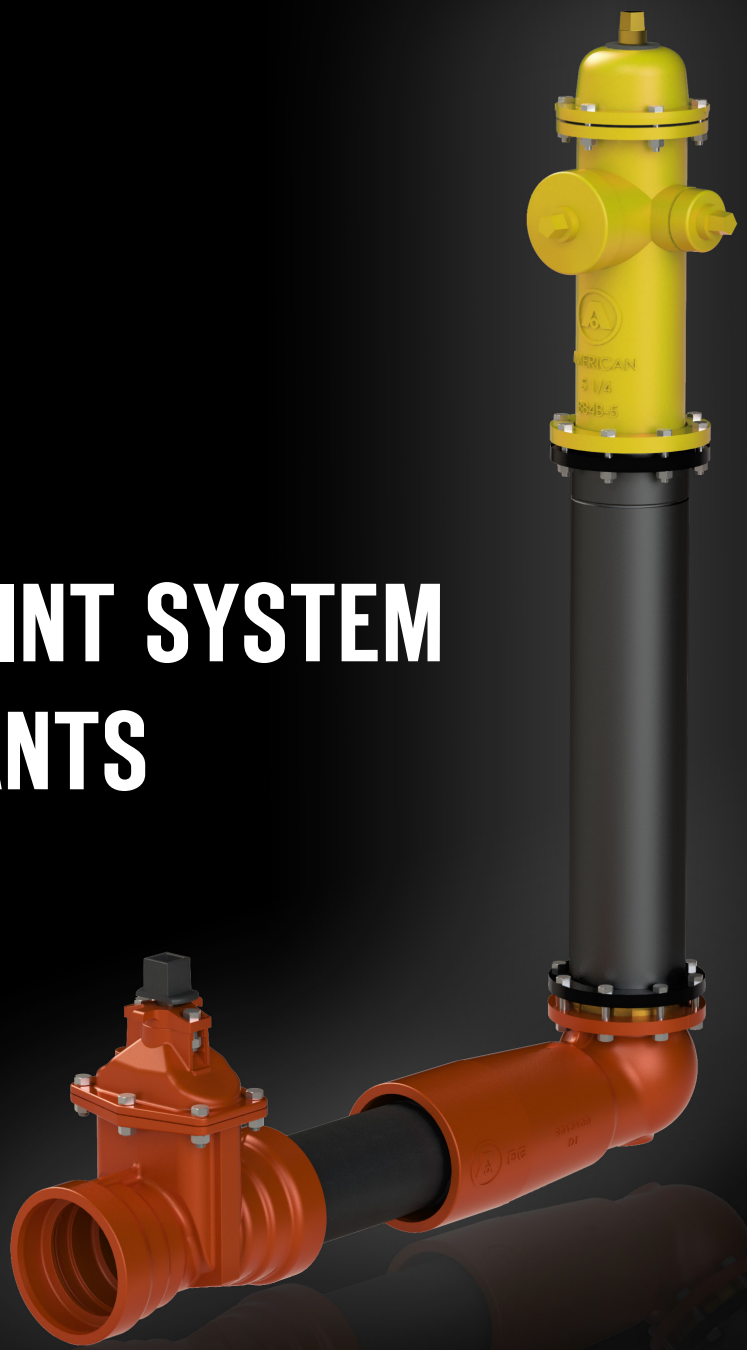
THE AMERICAN EARTHQUAKE JOINT SYSTEM FOR FIRE HYDRANTS



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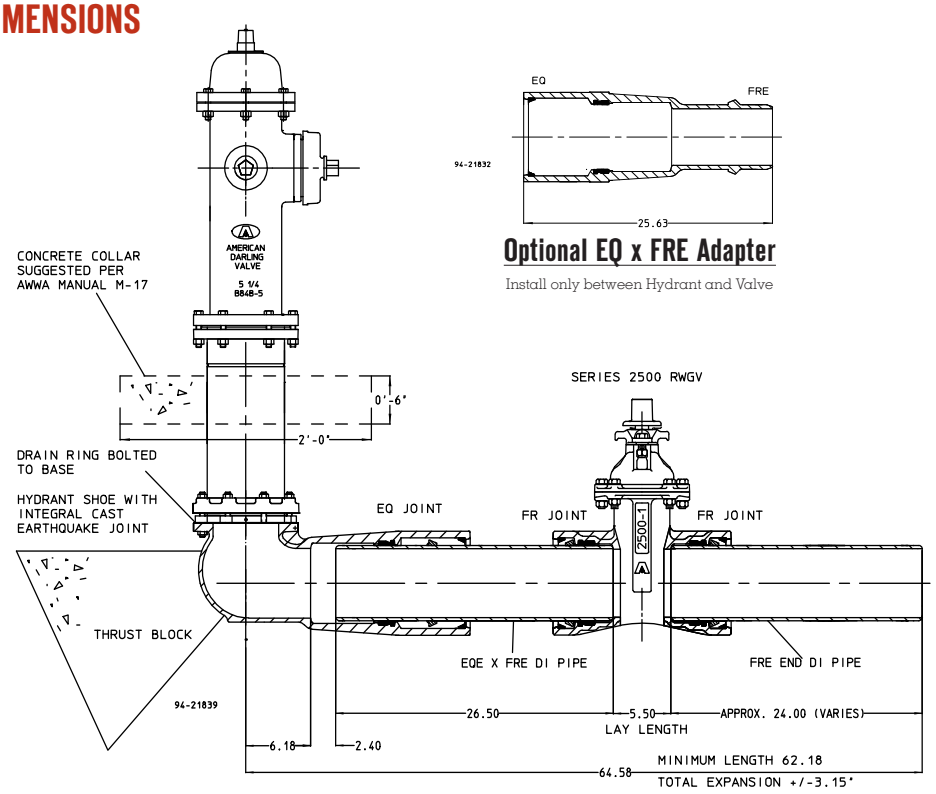
5-1/4 B84B-5 FIRE HYDRANT WITH INTEGRAL CAST EARTHQUAKE JOINT SYSTEM BASE

STANDARD DIMENSIONS



Optional EQ x FRE Adapter

Install only between Hydrant and Valve

Standard Earthquake Joint Configuration

SPECIFICATIONS

Fire hydrants shall meet or exceed ANSI/AWWA C502, latest revision. Rated working pressure shall be 250 psig, test pressure shall be 500 psig and hydrants shall include the following specific design criteria:

The main valve closure shall be of the compression type. Traffic features to be designed for easy 360-degree rotation of nozzle section during field installation. The main valve opening shall not be less than 5-1/4 in. and be designed so that removal can be accomplished without excavating. The hydrant drain ring shall be securely bolted to the hydrant base.

The hydrant valve shall be constructed of EPDM rubber and have a vertical taper of 20-degrees, or less. The bronze seat shall be threaded into a bronze drain ring. The draining system of the hydrant shall be bronze and positively activated by a square operating rod. Hydrant drains shall close completely after no more than three turns of the operating nut. There shall be a minimum of two internal ports and four outlets to the exterior of the hydrant. Drain shutoff to be by a spring actuated positive compression closure. Sliding drains are not permitted.

Hydrant barrels shall have one (1) pumper nozzle and two (2) hose nozzles. The barrel shall be made of ductile iron and nozzles shall be retained by collars. Threaded-in nozzels and nozzles using set screws are not allowed. Hydrant upper barrel shall be factory coated with an electrodeposition (E-coat) epoxy primer and catalyzed two-part polyurethane top coating. Base shall be coated with fusion-bonded epoxy. All bolting below grade shall be Type 304 stainless steel. Friction loss not to exceed 3.0 psig at 1,000 GPM through 4 1/2" pumper nozzle.

The B-84-B-5 hydrant is to be supplied with AMERICAN Earthquake Joint System base. The base shall be a single casting and shall be installed integral to the fire hydrant. It shall be coated with fusion-bonded epoxy coating. The Earthquake base shall allow for a minimum of: 3-degrees of joint deflection, +/- 2.4-inches of longitudinal extension and 102,000 lbs. of slip-out resistance.

The fire hydrant shall be incorporated in a hydrant lead with AMERICAN Flow Series 2500 resilient wedge gate valve with Flex-Ring ends for isolation. Each end of the gate valve shall be capable of 5-degrees of deflection. Fire hydrant lead shall also include an appropriately sized thrust block as suggested by the Ductile Iron Pipe Research Association (DIPRA). Thrust block to be furnished by the installation contractor. Fire hydrants shall be the AMERICAN Flow Control's American-Darling 5 1/4" B-84-B-5, or engineer approved equal.