

SECTION 15118 - FIRE HYDRANTS

City of San Diego, CWP Guidelines

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NTS: Check requirements for products, installation workmanship, field testing, etc.
as necessary to conform to local codes and standards.

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PART 1 - GENERAL

1.1 WORK OF THIS SECTION

- A. The WORK of this Section includes providing wet-barrel fire hydrants, complete and operable as indicated.

1.2 RELATED SECTIONS

- A. The WORK of the following Sections applies to the WORK of this Section. Other Sections of the Specifications, not referenced below, shall also apply to the extent required for proper performance of this WORK.
 - 1. Section 15100 Valves, General

PART 2 - PRODUCTS

2.1 WET-BARREL FIRE HYDRANTS

- A. **Construction:** Fire hydrants where required by the local fire department, or indicated, shall be of the wet-barrel type, in accordance with ANSI/AWWA C 503, except where the local standard calls for steel-pipe risers with angle-valves. Wet-barrel fire hydrants shall have the buried section of ductile iron or steel and a break-away flange connected to the hydrant head. Each hydrant shall be isolated by an individual, buried gate valve with cast iron box and cover. The hydrant head shall have a minimum of one 4-inch or 4-1/2-inch steamer connection and one 2-1/2-inch hose connection, except where otherwise required by the local fire department. The hydrant inlet shall be not less than 6-inch in diameter. The hose and steamer connections shall be provided with cast iron caps and metal chains. All bolts, nuts, and washers shall be of Type 316 stainless steel, unless otherwise required for structural reasons. The hydrants shall be tested to 300 psig and they shall be suitable for a working pressure of 150 psig. All interior and exterior surfaces shall be coated in accordance with AWWA C 550 and Section 09800 and painted ANSI safety yellow in accordance with local codes.
- B. Fire hydrants shall comply with the requirements of NFPA.

2.2 MANUFACTURERS

- A. Hydrants shall be manufactured by one of the following (or equal):

1. Clow (Rich Valve Company)
2. James Jones Company
3. Mueller Company

PART 3 - EXECUTION

3.1 INSTALLATION

- A. All fire hydrants shall be installed in strict accordance with the manufacturer's published recommendations, AWWA Standards, and all applicable codes, and the applicable provisions of Section 15100. All installations shall be to the satisfaction of the local fire and building department.
- B. All hydrant isolating valves with slip joints, friction type, or calked joint connections shall be harnessed to the main pipe by means of welded steel harness sets, or clamps and steel rods, designed for this purpose. All hydrants with other than flanged inlets shall be installed with a concrete thrust block, calculated for the maximum expected water pressure.

**** END OF SECTION ****