



Bennett-Watkins Fire Rescue

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"Striving to Preserve Life and Property"

Jurisdictional Fire Hydrant Specifications & Marking Standards

In an effort to bring consistency and maximize effective firefighting operations, Bennett-Watkins Fire Rescue (BWFR) has jurisdictional specifications for fire hydrant installation, replacement, marking, and maintenance. These specifications are based on national standards which are adopted locally and best practices as outlined by Insurances Services Office (ISO). These specifications are applied within all areas on BWFR's jurisdiction, referred to as the "District", and shall apply to all new construction, replacement, and maintenance of fire hydrants in both municipal and private fire hydrant systems.

1. Fire Hydrant Specification.

All new and replacement fire hydrants within the District shall be Mueller Super Centurion 250 part/model number 423-501147 (5-1/4" main valve opening 3-way (2 hose nozzle / 1 pumper nozzle). All hydrants shall be ordered in **yellow** color from the factory to assist in meeting the District's adopted NFPA 291 fire hydrant painting/marketing requirements.



Additional information about the Mueller Super Centurion 250 fire hydrant can be found at the manufactures website: <https://www.muellercompany.com/fire-protection/ulfm-hydrants/super-centurion/>

2. Installation Records/ GIS Files / Hydraulic Models.

During installations of new hydrants, including new developments both commercial and residential, the applicant should provide BWFR with a hydrant utility "exhibit." This exhibit should show all water lines, line sizing, hydrant locations, and measurement distances between each hydrant. This exhibit will be subject to review and approval before construction.

GIS shape files accurately depicting all new as-built water lines and fire hydrants shall be submitted to BWFR for input into emergency response maps. When such GIS data is shared and submitted, it shall be understood that BWFR is granted authorization to utilize this information in various software platforms and systems to directly support public safety and emergency response. Hydraulic modeling for all new systems is required and shall be submitted to BWFR to

be used for fire hydrant paint/markings as well as current and future ISO evaluations. Both GIS and modeling is required before new development can receive completion sign offs from the Fire District.

Please note that all new hydrant installations must be field verified by a BWFR inspector prior to sign off or certificate of occupancy.

3. Fire Hydrant Painting/Marking.

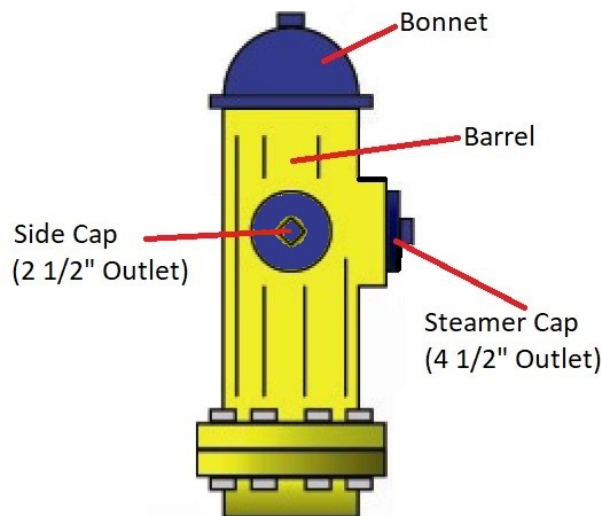
In order to allow for easily identifications of available gallon per minute (GPM) flow rates, and to provide consistent operational firefighting conditions throughout the District, BWFR utilizes a modified NFPA 291 flow based paint/color code scheme for all fire hydrants. Based on the available GPM flow to the hydrant (gauged by actual flow test or adopted hydraulic model), the caps and top bonnet of the fire hydrant are painted in one of the following colors:

Hydrants broken down into four rating groups:

1. **Light Blue** - Class AA — Rated capacity of 1500 gpm (5680 L/min) or greater
2. **Green** - Class A — Rated capacity of 1000–1499 gpm (3785–5675 L/min)
3. **Orange** - Class B — Rated capacity of 500–999 gpm (1900–3780 L/min)
4. **Red** - Class C — Rated capacity of less than 500 gpm (1900 L/min)

Rustoleum Paints:

Color Name	Color Part Number	Approved Paint Locations
Equipment Yellow	#2148	All Barrels
Safety Red	#2163	Steamer Cap (4 ½") & Side Caps (2 ½") Outlets
OSHA Safety Orange	#1653830	Steamer Cap (4 ½") & Side Caps (2 ½") Outlets
John Deere Green	#7435830	Steamer Cap (4 ½") & Side Caps (2 ½") Outlets
Sail Blue	#7724	Steamer Cap (4 ½") & Side Caps (2 ½") Outlets



BWFR only accepts the above paint colors for marking of hydrants. Any deviation from these approved paint colors requires written approval from the fire code official or his/her designee.

4. Fire Hydrant Maintenance.

All fire hydrant systems, both private and municipal, shall be maintained in accordance with the District's adopted fire code which states:

"507.5.2 Inspection, testing and maintenance. Fire hydrant systems shall be subject to periodic tests as required by the *fire code official*. Fire hydrant systems shall be maintained in an operative condition at all times and shall be repaired where defective. Additions, repairs, *alterations* and servicing shall comply with *approved* standards. Records of tests and required maintenance shall be maintained."

Fire hydrants shall be inspected and tested at least once annually in accordance with American Water Works Association (AWWA) manual M17 and NFPA 291 - *Recommended Practice for Fire Flow Testing and Marking of Hydrants*. Hydrant inspection programs shall include a flushing program and pressure test. Fire flow testing shall be completed and updated on all fire hydrant systems no less than every five (5) years.

Records of all testing activities shall be provided to BWFR in an electronic format (Microsoft Excel Workbook, Microsoft Word File, or Adobe PDF) when completed or no less than annually no later than December 31st of each year.

Any and all out-of-service or impaired conditions of fire hydrants, fire pumps, or any other water delivery system component is required to and shall be reported to BWFR immediately at 303-644-3572 or LifeSafety@BennettFireRescue.org

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About the International Fire Code (IFC)

Bennett-Watkins Fire Rescue, Adams County, or the Town of Bennett adopts fire code by resolution or ordinance. The current adopted code can be found in the District's website. A free online version of the IFC can be found on the International Code Council website. For questions about any of these code requirements visit our website at www.BennettFireRescue.org or contact the Department's Life Safety Division at LifeSafety@BennettFireRescue.org or (303) 644-3572.