



Jackson Hole Fire/EMS Operations Manual

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Criteria**
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PURPOSE

The following standards are provided to establish the minimum acceptable design criteria and materials for dry hydrants. These are minimum standards and are to be used for a basis for design. All designs are required to be approved by the Fire Department prior to installation. Each design is reviewed on an individual basis and is approved specific to the location. Not all dry hydrants work the same, nor do they work in all locations.

SECTION I – HYDRANT SPECIFICATIONS

1. All dry hydrants shall be capable of providing year round water supply of not less than 500 gallons per minute for not less than 2 hours.
2. Plans for all dry hydrants shall be approved by the Fire Department.
3. Dry hydrants constructed of PVC pipe shall be not less than schedule 80 PVC.
4. Dry hydrants constructed of steel pipe shall be not less than schedule 40 pipe.
5. Pipe shall be not less than 6 inch diameter.
6. Regardless of the type of construction, the outlet shall consist of a brass or pyrolyte, 4 1/2 inch fitting, with National Standard Thread. Outlets shall be capped to prevent introduction of foreign materials into the pipe.
7. Dry hydrant risers shall extend above adjacent ground level not less than 24 inches and not more than 36 inches. Risers shall be painted red.

8. Risers constructed of PVC shall be braced to prevent deflection. Bracing shall consist of concrete blocking, rigid guy poles, or other suitable rigid means. Guy wires shall not be considered adequate bracing.
9. The underground base of the riser shall be installed below frost level. The riser, including underground portion, shall not exceed 12 feet of rise.
10. Horizontal runs of pipe shall not exceed 50 feet and shall be buried below frost level.
11. Following the installation, flow tests shall be conducted by the owner/installer and documentation of flows shall be forwarded to the Fire Department. Dry hydrants which do not flow a minimum of 500 gallons per minute for a 2 hour period shall not be accepted or approved by the Fire Department.
12. It shall be the responsibility of the owner to ensure proper maintenance of the hydrant. The owner shall pump the hydrant annually to ensure maximum flows.