



BST&G Fire District Fire Prevention Bureau

2018 Standard for Dry Hydrants in BST&G Fire District

The dry hydrant shall have a maximum draft height of 15 feet measured to the center of the inlet of the fire apparatus.

Materials:

1. Piping shall be 6 inch diameter schedule 40 pipe
2. Piping that is exposed shall be primed and painted Safety Yellow
3. Threaded fittings shall be aluminum alloy

Thread Size:

1. The outlet shall be a 6 inch National Standard thread female connection and cap. The cap shall be secured to the end of the piping with a cable or chain to prevent loss.

Strainer :

1. Piping inlet shall be through a strainer design for use as a dry hydrant. This strainer shall have sufficient opening to allow full flow of 1500 gallons per minute with minimal resistance. No individual opening shall be larger than 3/8 inch in diameter. The total number of holes must exceed four times the area of the diameter of the pipe.
2. The piping inlet shall have a removable or hinged end cap to allow for cleaning and back flushing.
3. The piping outlet shall have a strainer mounted to the tread adapter that is removable but securely mounted in place.

Installation:

1. The inlet to the dry hydrant shall be 3 feet below the water surface of normal low water level of the body of water, all horizontal pipe shall be supported in a substantial manner at least 1 foot above the bottom of the water supply, as it extends from the bank.
2. The fire department connection shall be no more than 10 foot or less from an approved fire department access road.

3. The fire department connection shall be 36 inches to the bottom of the connection off finish grade.
4. If the outlet of the fire department connection is on a 45 degree angle above finish grade the end shall be supported to prevent breakage of the fire department connection piping.
5. The horizontal piping shall be installed at the same level as the pipe inlet. The inlet shall be on grade, or lower than the outlet of the piping.
6. The strainer portion of the pipe shall be toward the bottom of the body of water.
7. A maximum of 3 (three) 45 degree elbows or 2 (two) 90 degree elbows are permitted.
8. Piping may be vertical to the outlet with 90 degree elbow or a 45 degree angle from horizontal piping.
9. Installation instructions not listed above shall be to current NFPA 1142 Standards.

Fire Department Access Road

1. Road access shall be within 10 feet of the dry hydrant connection. The Road surface shall be asphalt, concrete or other approved all weather surfaces, capable of supporting 75,000 pounds. The road must be 20 feet in width and shall meet the required turning radius as required by The Orange Township Fire Department.

Maintenance

1. It shall be the responsibility of the owner to flush the dry hydrant annually.
2. The owner shall maintain the roadway, as required by The Ohio Fire Code for fire apparatus fire lane access.
3. The owner shall be responsible for all maintenance or damage that occurs to the dry hydrant during the usable lifetime.
4. Maintenance shall be performed as described in current NFPA Standard 1142 for dry hydrants.

All variations from the standards must be approved by The BST&G Fire Chief.