

Table 9.13.: Yard Hydrant System Requirements

ITEMS	REQUIREMENTS
7. WATER	<ul style="list-style-type: none"> i. The water for the Hydrant System shall be potable. ii. TSE (Treated Sewage Affluent) water, tested for fire fighting purposes shall be acceptable. iii. Lake and Pond (Sweet) water shall be acceptable, provided that an adequate water level reserve is ensured at all times.
8. INSTALLATION	<ul style="list-style-type: none"> i. Hydrants shall be installed along the fire access road around the premises to be protected. ii. The hydrant piping shall be looped without open ends, such that any isolation from one side will not hamper the water supply from the other end to any hydrant. iii. The maximum allowed hydrant piping wing without looping is 45 m. iv. The piping shall not be installed beneath buildings. v. A pipe under driveways shall be buried at a minimum depth of 0.9 m. vi. A pipe under railroad tracks shall be buried at a minimum depth of 1.2 m. vii. Hydrants shall be set on flat stones or concrete slabs and shall be provided with small stones (or the equivalent) placed around the drain to ensure drainage. viii. The center of a hose outlet shall be not less than 457 mm and not more than 914mm above final grade. ix. Hydrants shall be protected with barricades if subject to mechanical damage, Vehicular accidents. Such means of hydrant protection shall be arranged in a manner that does not interfere with the connection to, or operation of, hydrants. x. Check Valves, Detector Check Valves and Backflow Prevention Valves shall not be installed in the service stub between the fire hydrant and the water supply piping. xi. All hydrants shall be with an isolation valve connection in a valve chamber.
9. LOCATION AND SPACING	<ul style="list-style-type: none"> i. Fire hydrants shall be located at not less than 2 m and not more than 12 m from the building to be protected. ii. The spacing between Hydrants along the fire access road shall be as follows. <ul style="list-style-type: none"> a. Occupancies other than storage and industrial shall be 120 m. b. Light and Ordinary hazard Storage/Industrial occupancies shall be 100 m. c. High Hazard storage and industrial occupancies shall be 60 m. d. Logistics warehouse and Waste dumping lands shall be 60 m.

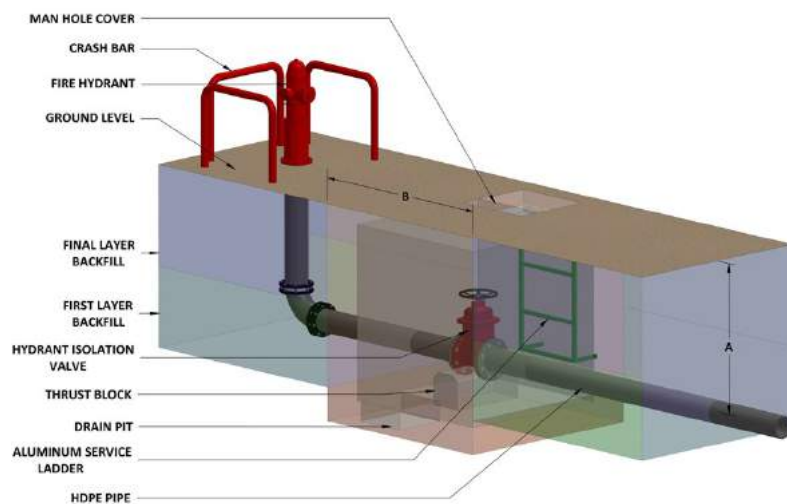


Figure 9.38.: Hydrant Isolation Valve Chamber and Typical Hydrant Installation