

Table 9.7: Automatic Sprinkler System Requirements

ITEMS	REQUIREMENTS
18. WATER MOTOR ALARM GONG	<ul style="list-style-type: none"> i. The sprinkler system shall be fitted with an approved water motor alarm, which shall be located at a distance not exceeding 25 m from the alarm valve, and at a height not to exceed 6m above the alarm valve. ii. The used pipe work and fittings used shall be galvanized and to the sizes determined by the manufacturers data sheet. iii. The pipe work shall be arranged to drain through a fitting having an orifice not exceeding 3 mm in diameter. The orifice plate may form an integral part of the fitting but shall be manufactured from a non-ferrous material to prevent the hole from becoming blocked by corrosion or foreign matter. iv. A 15 mm test valve shall be installed on the installation side of each alarm valve. v. Approved identification signs, shall be provided for the outside alarm devices. The sign should be located near the device in a conspicuous position and should be in English and Arabic.
19. ELECTRIC ALARM PRESSURE SWITCH	<ul style="list-style-type: none"> i. Electric alarm pressure switches shall be installed in the system and they shall be mounted on a vertical branch pipe at least 300 mm long. ii. The pressure switch may be of diaphragm bellows or bourdon tube operated type, and shall be sufficiently sensitive to operate when only one sprinkler is discharging. iii. The pressure switch shall be provided with volt free contacts to interconnect with the building fire alarm system for monitoring. iv. The pressure switch shall be rated for the system working pressure and water temperature service and approved by the Civil Defence department.

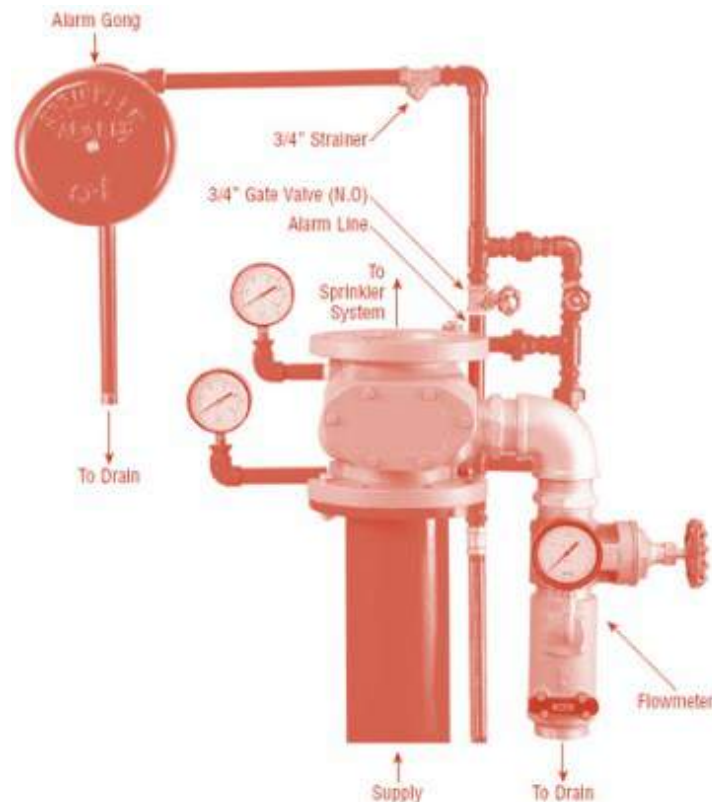


Figure 9.14.: Water Motor Gong Connection