

to the tape. Tapes shall remain legible and colour fast in soil conditions at pH values of 2.5 to 11.0 inclusive. The tapes shall be of the type specially manufactured for making and locating underground utilities.

- B. The tape shall be not less than 150mm wide and shall have the phrase “CAUTION – STORMWATER NETWORK” in English and Arabic indelibly stamped in black letters and repeated at maximum intervals of two metres. The tape shall be laid 300mm above pipeline.

26.3.4 Thrust Blocks

- A. Thrust blocks shall be provided to anchor all push-fit or other non-anchored joints where thrust forces can arise. Heavy-duty polyethylene sheet shall be used to wrap the pipe at the point of contact between pipeline and thrust block.
- B. Ensure that the thrust block has been tanked before additional excavation is made to obtain a firm thrust face against undisturbed ground. Place the concrete backfill to the excavation the same day as the additional excavation is carried out.
- C. No pressure is to be applied to thrust blocks until the concrete has matured in accordance with Section 03300 Cast-in-place concrete (Loading of structures).

26.3.5 Valves and Accessories on Pumping Mains

- A. Isolation Gate Valves

Isolation valves shall comply with ISO 9635-2. All isolation gate valves shall be ductile iron with flange end connection to PN16. For additional specifications refer to Section 15000.

- B. Check Valves

Check valves shall comply with ISO 9635-3.

Check valves 80mm and above shall be double flanged single door swing type having ductile iron body and gunmetal seat. Pressure rating shall be PN 16 or more.

- C. Air Valves

Air valves shall comply with ISO 9635-4.

Air valve shall be of the double orifice type, rated a minimum working pressure of 16 bar. The air valve shall be for the following functions: