

WATER SUPPLIES DEPARTMENT
STANDARD SPECIFICATION E-86-42
FLOAT SWITCH

1. **GENERAL**

The float switch shall be suitable for level alarm and pump control. The device shall consist of a weighed float with a microswitch or inductive initiator inside and suspended by its own cable.

2. **CONSTRUCTION**

The float shall have no moving parts and shall function under conditions requiring frequent operations. The float shall be hanged vertically on its own and assume a horizontal altitude and remain submerged when immersed in water at all times. The switch shall change the state (On / Off) upon variation of its position from vertical to horizontal and vice versa.

The float material shall be of polyethylene, PVC or other approved chemical resistant material suitable for drinking water, sea water, hydrochloric acid, sodium hydroxide, sodium hypochlorite, brine or otherwise specified in the Particular Specification. It shall be suitable for liquid of specific gravity 0.8 - 1.2. The float shall have a smooth surface to avoid adhesion of impurities or foreign matters.

The float shall contain a normally open switch rated at 5A 220V 50 Hz and 1A 24V d.c.

3. **ACCESSORIES**

A water-resistant cable shall be provided of length not less than 10 metres or as specified in the Particular Specification. No joint is allowed in the cable. The cable shall not only serve to suspend the float switch but also serve to provide electrical connection to the switch.

To ensure that the float stays at approximately the same position, suitable mounting facility shall be provided to fix the cable from which the float is suspended.

A cable gland sized to fit the suspension cable shall be provided.