

**WATER SUPPLIES DEPARTMENT**

**STANDARD SPECIFICATION E-86-42**

**FLOAT SWITCHES**

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**WATER SUPPLIES DEPARTMENT**  
**STANDARD SPECIFICATION E-86-42**  
**FLOAT SWITCHES**

1. GENERAL

Float switches shall be suitable for level alarm and pump control. The device shall consist of a weighed float, suspended by its own cable.

2. CONSTRUCTION

The float shall have no moving parts and shall function under conditions requiring frequent operation. The float shall hang vertically and assume a horizontal attitude and remain submerged when immersed in water at all times. It shall be suitable for liquid of specific gravity 0.8 - 1.2.

The float material shall be of polythene, PVC or other approved chemical resistant material. The float shall have a smooth surface to avoid adhesion of impurities or foreign matter.

The float shall contain a normally open switch rated at 5A 220V 50 Hz and 1A 24V d.c. Mercury type of switch is not acceptable.

3. ACCESSORIES

A water-resistant cable shall be provided of length not less than 10 metres. The cable shall serve to suspend the float switch as well as to provide electrical connection to the switch.

To ensure that the float stays at approximately the same position, suitable arrangement 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.