B.36 The head works, consisting of the spindle, gland nut and washer plate shall be manufactured from brass to BS EN 12165, and the washer plate nut in gunmetal.

(a) the washer shall be manufactured from EPDM rubber to BS 3457;

(b) the sealing between the valve body and head shall be achieved by the provision of an EPDM rubber head seal;

(c) the packing between the spindle and the valve head shall consist of one piece of PTFE impregnated graphite aramid fibre valve packer;

(d) the Stop Valve shall withstand a working pressure of 16 bar without leakage;

(e) the valve shall close clockwise; and

(f) the name of the manufacturer, patent number and flow direction shall be engraved on the body.

Gate valve

B.37 The gate valve shall be of the non-rising stem type with female ends, manufactured and tested in accordance with the requirements of BS 5154/ BS EN 12288. The spindle shall be fitted with a handwheel. The valve shall be manufactured according to the following specifications:

(a) the body and valve gate/wedge shall be manufactured from gunmetal to BS EN 1982;

(b) the gate valve handwheel shall be of aluminium;

(c) the gate valve shall withstand a working pressure of 16 bar without leakage; and

(d) the valve shall close clockwise.

B.38 The name of the manufacturer, patent number and flow direction shall be engraved on the body.

Lockable ball valve

B.39 The service Water Meter, where installed in a wall-mounted GRP meter cabinet, shall be isolated by a lockable ball valve. The valve body shall be made of brass and suitable for a working pressure of up to 16 bar without leakage. Valve materials shall be as follows:

(a) valve body – brass to BS EN 12165 or BS EN 12163, BS EN 12164, BS EN 12167;

(b) ball – nickel-plated brass;

(c) sealing – PTFE;

(d) 'O' ring – viton; and

(e) retaining ring – brass.