

## **INSTALLATION, OPERATION, MAINTENANCE INSTRUCTIONS FOR GMS HW HOTWELL FEED TANKS**

### **General**

The tank should be placed in position & attention given to the accessibility of the inspection opening. Care must be taken to avoid damage to the tank. Although the tank sides are of a strong fabrication, they are not designed for heavy items to be attached to them.

*The vent & overflow connections must never be blanked off.*

### **Lagging the Tank**

The whole tank should be lagged (including the inspection opening) to avoid loss of heat. The inspection opening should be lagged with a removable cover.

### **Pipework**

Pipework going to and from the tank should be properly designed to avoid imposing loads on the tank and its connections. This means expansion loops & supports should be fitted to avoid this.

### **Vent**

The vent pipe should go vertically upwards and should not join other vent lines. If it has to run horizontally, then it should have a slight incline, draining back to the tank.

*Under no circumstances should an isolating or check valve be fitted in the line.*

The vent head supplied with the tank should be fitted to maximise the separation of any entrained water. The vent head will impose a minimal back pressure on the tank. The drain connection on the vent head must be piped to drain, ideally with an air break. Drainage back into the tank is not recommended.

### **Overflow**

This should always be piped to a drain at a lower level than the tank. It is useful for the overflow to have an air break so that any discharge is easily seen.

*Under no circumstances should an isolating or check valve be fitted in the connection. It is recommended that a u-bend is incorporated into the line to eliminate steam discharge into the drain.*

### **Operation**

The hotwell feedtank is designed to be reasonably quiet & vibration free during operation although the mixing of steam and water will inevitably induce a small amount of vibration within the feedtank.

If excessive noise, vibration or movement of pipework is experienced, then it is essential that the tank is not operated for any prolonged period of time to avoid damage. The tank should be drained and inspected as soon as possible.

### **Maintenance**

If the tank is not manufactured from stainless steel, the tank will be coated internally with a resin based paint for long life and should be free from maintenance. We recommend that the tank be inspected at every major boiler inspection.