

IMPORTANT

Protect your Boiler

THIS NOTICE TO BE DISPLAYED IN THE BOILER HOUSE

One of the most common causes of failure of float-operated equipment is an accumulation of sediment in the control chamber. Possibility of failure from this cause can be greatly reduced by:

- Daily use of sequencing valve
- Weekly evaporation test

USE OF THE MOBREY CONTROL CHECK SYSTEM WILL ELIMINATE RISK OF SLUDGING IN BOILER WATER CONTROL CHAMBERS

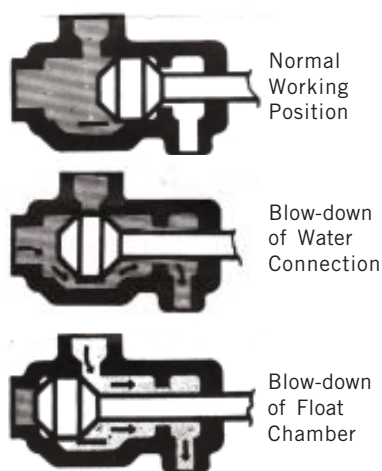
Controls provided with **Mobrey Sequencing Valves**

• Daily blow-down procedure

The controls should be blown-down at least once per day or, in the case of shift working, at the beginning of each shift.

While the boiler is under pressure carry out the following procedure:-

1. Turn handwheel clockwise until valve is in mid travel position (approx 2½ complete turns). Remain in this position for at least 15 seconds to ensure full blow-down of water connection.
2. Continue to turn handwheel clockwise to full extent of travel. Remain in this position for at least 15 seconds to ensure full blow-down of control chamber. Control should now operate as for lowered water level in boiler, ie. pump running and/or audible alarm sounding and burner cut-out.
3. Turn handwheel anti-clockwise to full extent of travel. This is the normal working position of the valve.



• Weekly evaporation (low water) test

With an **authorised person** in attendance the Mobrey low level control/alarm equipment must be tested weekly by creating a low water condition in the boiler.

For controls including a primary low water audible larm and burner cut-out, together with an entirely independent secondary low water audible alarm and manual re-set burner lock-out, carry out the following procedure:-

1. Shut off feed water to the boiler either by closing down the feed pump or, where applicable, by closing the feed check valve.
2. Evaporate to the first low alarm level. This should sound the first alarm and cut out the burners.
3. Blow down boiler carefully to second low alarm level. This should sound the second alarm and lockout the boiler.
4. Restart the pump or open the feed check valve to raise the level in the boiler. The second low alarm should stop sounding on reaching its preset level. The first low alarm should stop sounding on further increase in level. The burners should NOT come in automatically.
5. On reaching normal working level, restart the burners manually.

For controls including a single low water audible alarm and burner cut-out carry out the following procedure:-

1. Shut off feed water to the boiler either by closing down the feed pump or, where applicable, by closing the feed check valve.
2. Evaporate to low level alarm. This should sound the alarm and cut out the burners.
3. Restart the pump or open the feed check valve to raise the level in the boiler. The alarm should stop sounding and, where applicable, the burners should automatically restart.

If at any time during these tests it is found that the controls are not operating as required, and the fault cannot be rectified your are advised to contact Delta Mobrey Ltd.

To put into commission

1. Slowly open Steam Isolating Valve
2. Operate Sequencing Valve fully anti-clockwise

To put out of commission

1. Operate Sequencing Valve fully clockwise
2. Slowly close Steam Isolating Valve

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- Daily use of sequencing valve
- Weekly evaporation test

Controls provided with **Steam & Water Isolating and Blow-down Valves**

See overleaf for externally mounted controls provided with Mobrey Sequencing Valves

• Daily blow-down procedure

The controls should be blown-down at least once per day or, in the case of shift working, at the beginning of each shift.

While the boiler is under pressure carry out the following procedure:-

1. Fully close water isolating valve.
2. Slowly open blow-down valve to fully open position. Allow the chamber to blow through for a period of at least 15 seconds. Control should now operate as for lowered water level in boiler ie. pump running and/or audible alarm sounding and burner cut-out.
3. Very slowly open the water isolating valve and allow blow-down to continue for a further 15 seconds minimum.
4. Fully close blow-down valve. Closing the isolating valve in the steam leg during the blow-down procedure is NOT recommended, as damage can occur to the mechanism of the Control due to water hammer.

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To put into commission

1. Check that Blow-Down Valve is open
2. Slowly open Steam Isolating Valve
3. After a period of 15 seconds, slowly open Water Isolating Valve
4. Slowly close down Blow-Down Valve

To take out of commission

1. Slowly open Blow-Down Valve
2. Slowly close Water Isolating Valve
3. Slowly close Steam Isolating Valve

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