

GAUGE GLASSES ON STEAM BOILERS

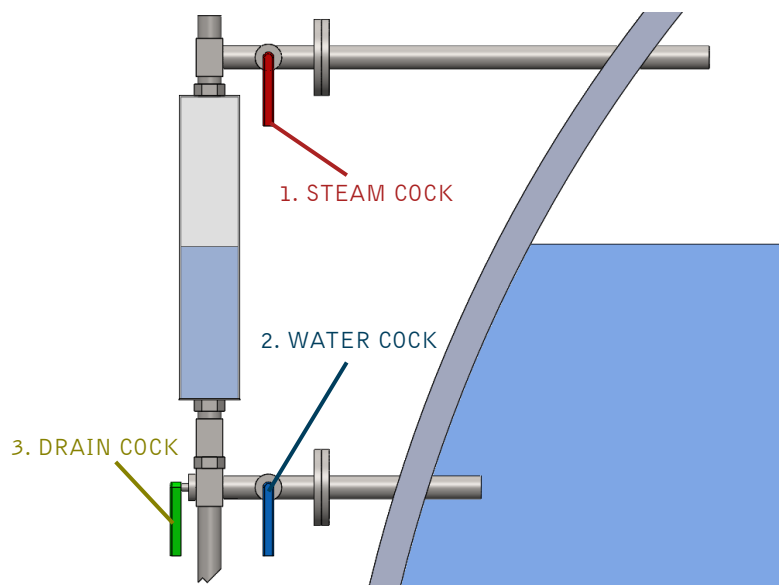
Under the 'Guidance on Safe Operation of Boilers, Ref: BG01', the procedure for testing the gauge glasses may now be carried out at weekly intervals providing that a high integrity water level control system is fitted to the boiler (see 'Typical Arrangement No. 3'), however the more common 'Typical Arrangement No. 2' requires daily checking of the gauge glasses.

PROCEDURE:

1. Wear appropriate personal protective equipment.
2. Close **WATER COCK**, close **STEAM COCK** – the gauge glass is now safely isolated from the boiler.
3. Slowly open **DRAIN COCK** and check the valves and fittings for tightness or evidence of leaks. If defects are found abort the gauge glass drill until repairs can be safely made, and log the defects.
4. With **DRAIN COCK** open, slowly open **STEAM COCK**, allow to blow through for five seconds. A small amount of water should be seen travelling down the gauge glass to the drain. Now slowly close **STEAM COCK**.
5. Slowly open **WATER COCK** and allow water to blow through the column for five seconds. The level should quickly increase as the water flows to the open drain. Now slowly close **WATER COCK**.
6. With **STEAM COCK** and **WATER COCK** in the closed positions, slowly close **DRAIN COCK** and slowly open **STEAM COCK** and **WATER COCK**. The gauge should quickly revert to normal levels.
7. Record completion of satisfactory gauge glass drill in the boiler-house log book.

Notes

- **All of the above operations to the gauges should be done slowly to reduce the likelihood of damage and potential failure of gauge glasses or joints.**
- These notes are intended for guidance only, and SAACKE Combustion Services Ltd exclude all liability for their accuracy or relevance to specific plant or sites who are responsible for carrying out regular risk assessments and introducing site specific procedures.
- Contact SAACKE for upgrades, service, spare parts and training.



ALL COCKS SHOWN IN NORMAL OPERATING POSITIONS

