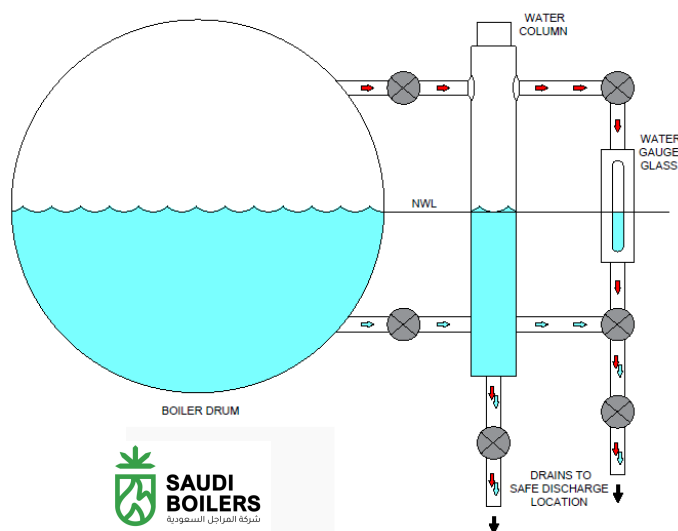


TESTING & INSPECTING WATER LEVEL INSTRUMENT

Why put your boiler and personnel at risk for an event caused by not properly detecting high or low water levels in your boilers? It makes absolute sense to devote the time and manpower to conduct an inspection of all the water level-related instrumentation on any boiler.

All water gage glasses must be inspected for cleanliness and ready visual distinction of the water level. All high and low alarms and low water cutouts must be tested. Any bypass switches must be checked to verify they have not been abandoned in a bypassed mode. Taking the time for these inspections (which should be routine) may prevent a major expense in your plant. During our business, our field staff devotes a significant amount of time around boilers with engineers, maintenance personnel, and operators, around Saudi Arabia. As a result, we continue to identify numerous deteriorated instruments in disrepair, with a lack of proper maintenance and training.



We, along with most other manufacturers, provide well-documented maintenance instructions for our instrumentation. However, we often find a lack of information at the plant level. Within recent years, most maintenance personnel have gained access to the internet from within their maintenance shop offices. This internet capability enables most plant personnel to access the most up-to-date and accurate maintenance instructions or "how to" videos on the web from the OEM for any instrument in their plant. For further information, Section VII of the ASME Boiler and Pressure Vessel Code (Recommended Guidelines for the Care of Power Boilers) provides more useful information to owners and operators. This section of the Code states that low water is the most common cause of boiler destruction, as well as the following vital considerations that apply to instrumentation:

- Fundamentals of operator training for the observation of proper water level at start-up.
- Comparing water level indication between two or more devices for accuracy and verification when a deviation is observed. Check water gage glasses to confirm there is no internal contamination (dirt) that could be mistaken as a water level.
- Water gage glasses should be properly illuminated for easy observation.
- It is important to keep the water gage glass clean and easy to read. However, excessive blowdown of the water gage glass may contribute to premature the wear of the gage internals.
- Verification and prevention of high and low water level is critical to prevent water carryover or damage to the drum internals.



No. 904, 9th floor,
Administrative Offices,
Al Jarbour Tower, Al Khobar, K.S.A

+966 13 867 0307 Mobile +966 505877465
+966 13 867 0309

info@saudiboiler.com

www.saudiboiler.com

Saudi Boilers Maintenance Team

C.R.No. 2051044804

