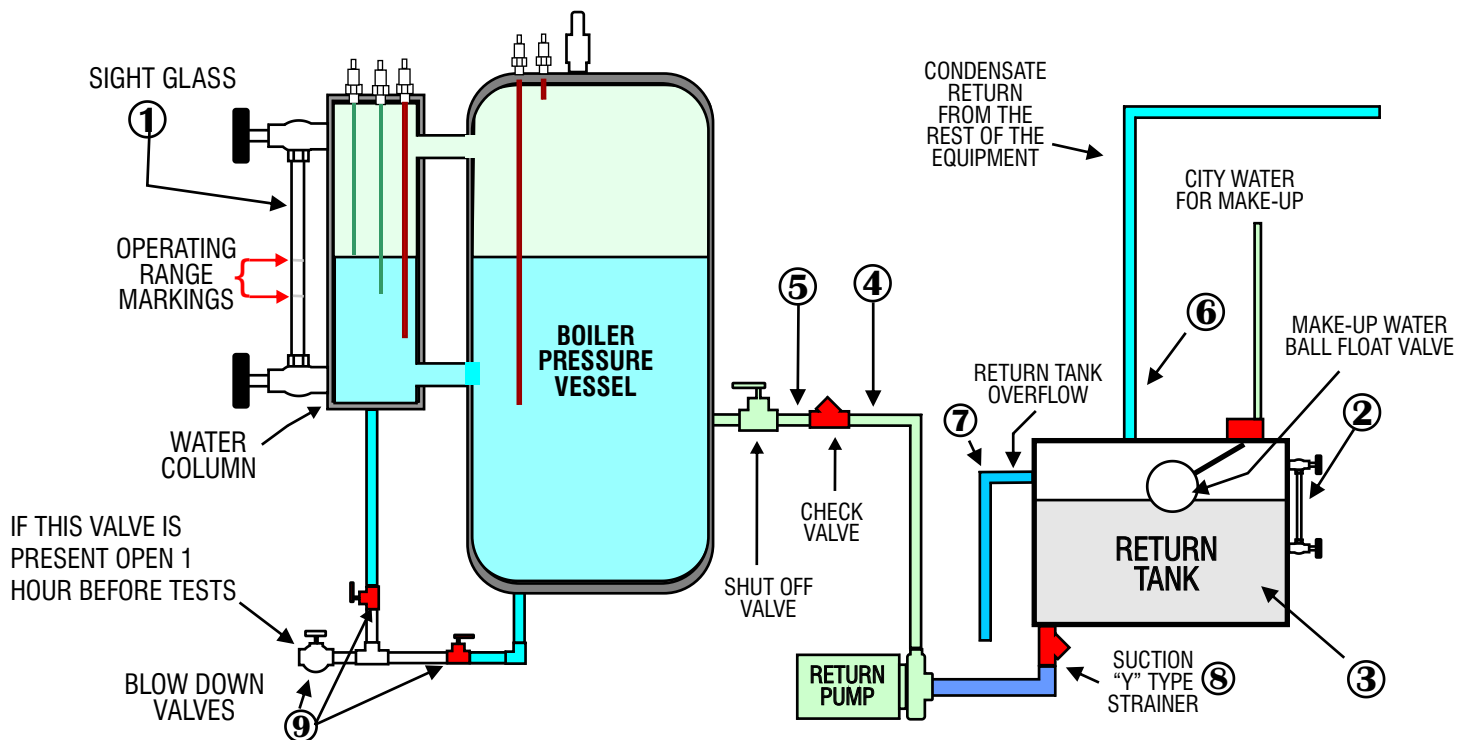


BOILER OPERATION TEMPERATURE CHECK LIST



RUN THESE CHECKS LISTED BELOW AND RECORD THEM ON THE CHARTS ON PAGE 2

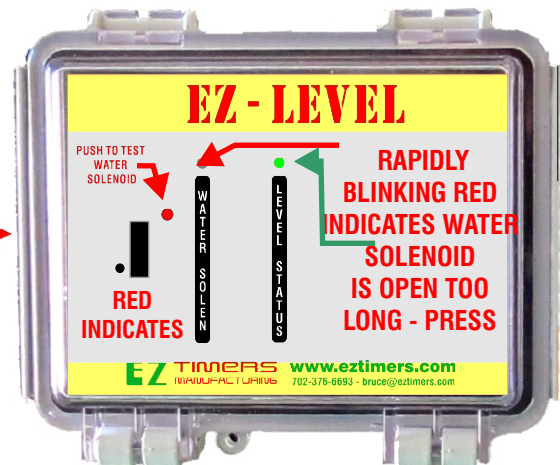
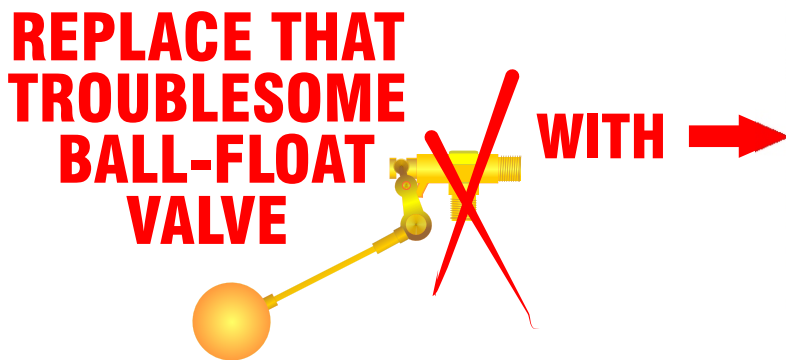
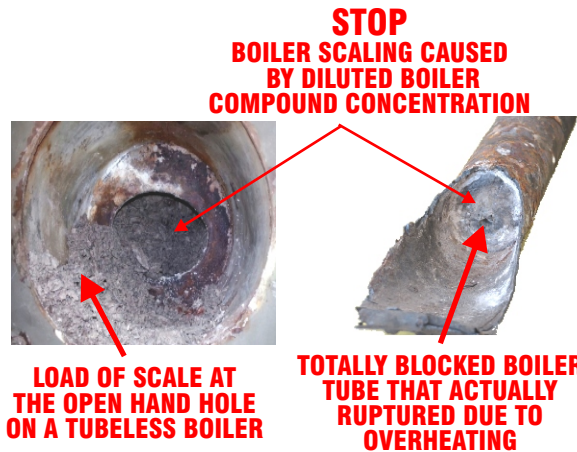
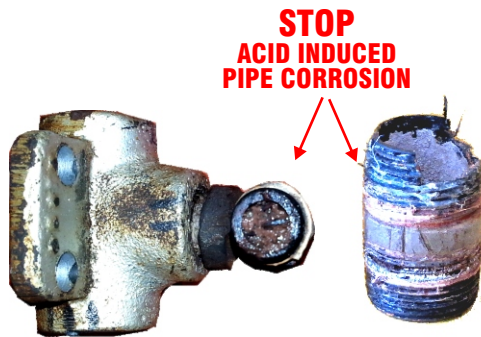
- A. WATER LEVEL IN SIGHT GLASS-** The water level should be between the PUMP ON and PUMP OFF marks on the water column sight glass 1.
- B. WATER LEVEL IN RETURN TANK-** The level of water in the RETURN TANK 2 should be within an inch of both the upper and lower ends of the sight glass. Higher or lower levels will usually indicate a faulty MAKE UP WATER BALL FLOAT VALVE.
- C. RETURN TANK TEMPERATURE-** The RETURN TANK temperature 3 should be 130-185 degrees F. (most pumps will start to cavitate at around 180 degrees F.). If the temperature is higher it's likely leaky CHECK VALVES or STEAM TRAPS blowing through.
- D. CHECK VALVE PERFORMANCE-** The difference in temperature between 4 and 5 should be at least 40 degrees F. If it's less the check valve is probably faulty.
- E. TEMPERATURE OF CONDENSATE RETURN LINE-** The temperature of the CONDENSATE RETURN LINE 6 should be under 205 degrees F. If it's above there are likely several steam traps blowing through.
- F. RETURN TANK OVERFLOW-** Visually check 7 to see if there is a continuous flow of water from the RETURN TANK OVERFLOW. If there is and the temperature is at about the same temperature as the return tank it's likely a leaky MAKE UP WATER BALL FLOAT VALVE. If it's higher it's likely several bad steam traps.
- G. SUCTION STRAINER-** Every three months the cap on the SUCTION STRAINER 8 should be removed and the strainer removed and cleaned.
- H. BLOW DOWN VALVE-** The temperature after the BLOW DOWN VALVES 9 should be less than the boiler room temperature plus 20 degrees F. If the temperature is higher it usually indicates a faulty blow down valve. The temperature will be higher closest to the faulty valve.

USING THE LASER THERMOMETER TEXT

READINGS WHEN BOILER OK		
	WHAT TO DO	RESULT
①	CHECK LEVEL	
②	CHECK LEVEL	
③	TAKE TEMPERATURE	
④	TAKE TEMPERATURE	
⑤	TAKE TEMPERATURE	
⑥	TAKE TEMPERATURE	
⑦	VISUALLY CHECK	
⑧	VISUALLY CHECK	
⑨	TAKE TEMPERATURE	

READINGS WHEN BOILER HAS A PROBLEM		
	WHAT TO DO	RESULT
①	CHECK LEVEL	
②	CHECK LEVEL	
③	TAKE TEMPERATURE	
④	TAKE TEMPERATURE	
⑤	TAKE TEMPERATURE	
⑥	TAKE TEMPERATURE	
⑦	VISUALLY CHECK	
⑧	VISUALLY CHECK	
⑨	TAKE TEMPERATURE	

WANT TO STOP THIS DAMAGE?



The EZ LEVEL prevents premature piping failure as well as boiler scaling by replacing that troublesome relic, the ball-float valve. The ball-float valve maintains the level of water in the return tank. Ball-float valves are known for failing open which allows fresh water to continuously leak into the return tank. This fresh water contains lots of free oxygen which combines with carbon dioxide to create carbonic acid. Carbonic acid destroys pipework and boiler internals. In addition this continuous leakage of fresh water dilutes the boiler compound resulting in scale formation.