



Shippensburg Pump Company, Inc.

BOILER FEED • CONDENSATE • DEAERATOR • VACUUM

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Re: Understanding Consequences of Injecting of Chemicals into Steam System?

Blow down separators are used to remove the residue left from chemicals added to the boiler. However, did you ever consider what the impact of chemicals is on the mechanical seal on a boiler feed pump? The chemicals will scratch and scar the seal facing of the mechanical seal and thus cause premature seal failure. Premature failure will in turn cause the motor bearings to go bad and destroy the pump if not replaced.

The manufacturers of boiler feed pumps state very clearly (check the installation instructions) that chemicals should not be injected directly into a boiler feed tank or deaerator. Chemicals are to be fed into the system after the boiler feed pumps discharged.

We have found that some customers even let oxygen scavengers be placed into a vented surge tank that flow into a deaerator. The design actually increases the amount of chemicals required in the system and defeats the whole purpose of installing a deaerator in the system.

Sincerely,

Shipco® Marketing and Sales Department