

Installation, Operation, and Maintenance

For

Stickler Series AIV Spray-Tray Type Deaerating Feedwater Heaters

Introduction

The Stickler Spray-tray type Deaerator, as the name implies, utilizes both the spray method and the tray method for heating and deaerating boiler feedwater. The combining of the two types ensures the most efficient Deaerator possible for all load levels from 1% through 100% of the Deaerator's capacity. The Stickler Series AIV Deaerator operates at a minimum of 5 psig. and 227 °F. Deaeration occurs in two stages.

Operation

Stage 1:

Referring to drawing A124C041: Water to be deaerated is introduced into the Deaerator via a pressure compensated, spring loaded spray valve(s) (See Drawing B-3864); each with a deflector which fans the water out into a thin flat sheet. As the water spreads, it changes into small droplets, yielding the greatest amount of surface area exposed to live heating steam. At this point, the latent heat of the surrounding steam heats the water to the saturation point temperature relative to the steam pressure being maintained on the Deaerator. As this takes place, the steam condenses and falls onto a large cone that carries the water to the tray section. The water falls through an opening at the bottom of the cone (Model 240 AIV). The Model 250 AIV Deaerator collects the falling water on a large flat pan with a cylindrical spill edge that directs the water into the tray section.

Stage 2:

After the water is heated, it is ready for agitation and scrubbing by live steam. In the tray section, the water cascades over a series of trays that are properly sized and arranged. The trays are arranged in rows, one above the other and lying on the same axis. Each row, relative to the adjacent row above or below it, is staggered to permit the water to cascade from the sides of the tray above to the center of the tray below. As the water travels downward through the tray section, the scrubbing action of the steam liberates the non-condensable gases. The steam travels upward through the tray section carrying the non-condensable gases into the vent condenser section. In the vent condenser section, the steam is condensed back into water and the non-condensable gases are vented from the Deaerator through a fixed orifice air vent valve.

Design Manual Tray

M Walker



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