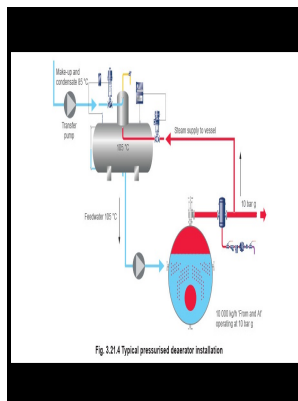


# Deaerators

## American Society of Mechanical Engineers - Deaerator working principle, Types and Process Control



Description: -  
-Deaerators

- ASME Performance Test Codes Deaerators

Notes: Reaffirmed 1984.

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Tags: #Deaerators, #Deaeration #Process, #Types, #Principles

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As the vapour space has an actual temperature of 100°C, the partial pressure caused by the steam is only 1.

### Boiler Deaerator Working Principle

Also again, the vent line usually includes a valve and just enough steam is allowed to escape with the vented gases to provide a small and visible telltale plume of steam. Horizontal vessel also has a sparger system which keep boiler feed water warm. How effective a gas can be removed from liquid depends upon these factors: Following are the major factors which govern a gas removal from a liquid.

### Deaerators & Surge Tanks

Because of the pressure drop across the atomizer, this device is less efficient than a tray-type deaerator.

### Deaerator

Types of Deaerator: Deaerator equipment is designed to reduce dissolved corrosive gases in the boiler feed water. As the steam condensates on the water, the concentration of oxygen in the direct vicinity of the sprayer is increased making it possible to vent a small amount of steam with a relatively high oxygen concentration. Traces of dissolved oxygen remaining in the feed water can then be chemically removed with the oxygen scavenger.

### Deaerators & Surge Tanks

. We can usually supply from stock.

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