

Air Eliminator



Description

An air eliminator is a segment of piping which is attached to a main piece of pipe to trap and release air. In systems in which the flow of fluids is measured by a meter, the eliminator is usually attached ahead of the meter and on top of the main line. The main purpose of air eliminators is to prevent air from passing through the meter, which would cause inaccurate volume readings. Most piping systems used in the boilers and chillers in residential housing and manufacturing facilities utilize air eliminators.

Since air is generally lighter than liquids, air eliminators are attached above a stilling chamber at the highest part of the main pipe. Flow meters cannot differentiate between fluids and air, so air eliminators are installed ahead of the meters in a pipeline so that air will not be measured. This way the volumetric readings of the meters are more accurate. Excessive wear and unit failure or damage can also be reduced if the liquid flow is free from air.