

Saving energy is the number one priority – and will remain so well into the future

While GESTRA is widely known as a manufacturer of valves and associated equipment, we always consider the entire process. One of our chief concerns is achieving the best possible operation of steam and condensate systems for our customers. And this has been the case ever since the company was founded in 1902, when saving energy was not nearly as important as it is now.

Where can you save energy in steam and condensate systems?

Steam generation

It all starts with the optimum choice of steam boiler, continues with the feedwater preheater, goes on to the automatic continuous blowdown and intermittent blowdown, and culminates with the flash vessel for utilizing the blowdown flash steam.

Steam distribution

Steam driers produce dry saturated steam, which ensures optimum heat transfer and therefore reduces the total amount of steam needed. Good insulation lowers the additional losses caused by radiation and convection.

Steam users

The lower the steam pressure, the less heating steam is needed, owing to a higher heat of evaporation, with the quantity of flash steam also being reduced.

Heat processes that are started up and shut down frequently require additional thermostatic steam traps as air vents to ensure optimum heating.

Steam traps

You should always use steam traps that do not cause any loss of live steam and provide good venting.

It is also advisable to install thermostatic steam traps to reduce the volume of flash steam.

Check all steam traps regularly for proper function, to avert live-steam losses.

Utilization of flash steam

Rather than venting the flash steam to the outside air, put it to good use with a flash vessel.

Condensate recovery

Condensate should always be reused, because it contains most of the energy expended in the plant. Here it is also possible to monitor for the ingress of various media. In the case of high back pressures, we recommend that condensate lifters be installed.

As you can see, there are many ways of optimizing a plant. Let GESTRA show you how to save energy and solve your technical problems.

Contact us today for further details!

GESTRA - the steam experts

GESTRA is a global leader in the design and production of valves and control systems for heat and process fluid control. Being a member of the Flowserve Corporation, we are capable of offering our customers complete and intelligent solutions engineered to function with maximum reliability. Our products and services have many practical applications and are employed where

- steam is generated, distributed or used
- fluids flow
- energy saving is possible
- environmental protection and safety-oriented control systems are needed.

Visit us at <http://www.gestra.de>

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