

Energy efficient components for steam and liquids



LIQUIDS STEAM

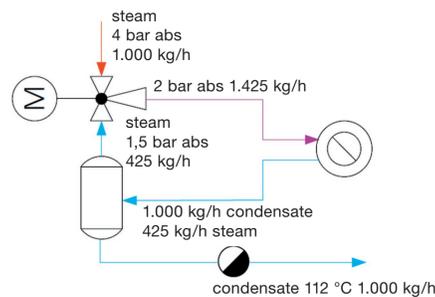
STEAM EJECTOR baelz 590

When working with steam, you must be able to rely on systems running smoothly. As production reliability, energy costs and maintenance requirements are key factors for success in every industry. Steam ejectors from Baelz – the first choice for those who employ steam technology, construct machines and systems for its application or invest in objects with heat-transfer media.

Systems of installation with steam ejectors for energy efficiency:

1] Recirculation

This type of systems is adopted, when there is a need of increase of performance and therefore the production of our machines. The performance increases in this type of systems can be average around 15%, combined with a steam saving of up to 5%.

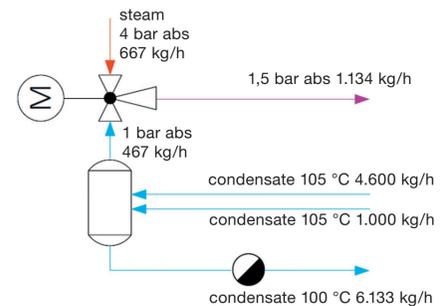


Your advantages at a glance

- ✓ Increase of heating surface useful to 100 %
- ✓ Reduction of steam losses
- ✓ Increased machine performances
- ✓ Systems applicable to all types of steam installations.
- ✓ The recirculation and recompression systems are convenient, for a total energy use
- ✓ Can be used with other gases compatible to our construction

2] Compression

Installations with steam ejectors in this configuration are applicable for pure energy saving, being able to be in direct steam saving values between 10 to 30 % and even higher.

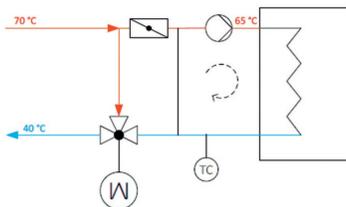


WATER EJECTOR baelz 480/471

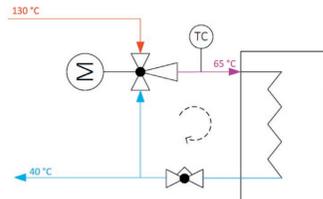
The ejector combines the functions of four single components: It creates the recirculation in the consumer district, adjusts the amount of circulating to the heat demand in fact, regulates the temperature and compensates differential pressure fluctuations.

Due to the drastic saving of circulation pumps, your system runs much more efficiently and thus more economically.

conventional solution
Electrodynamic



solution with ejectors
Hydrodynamic



- 1 temperature control
- 2 quantity variable circulation
- 3 avoidance of flow noise
- 4 prevention of miscarriage



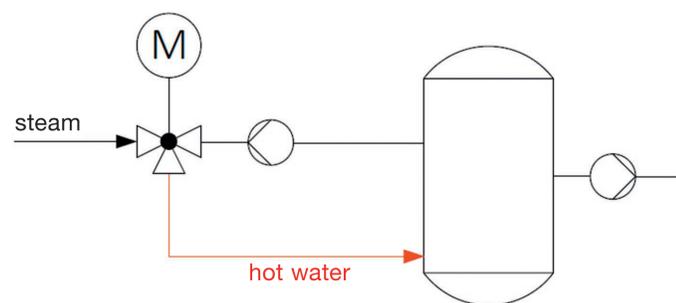
Your advantages at a glance

- ✓ Easy to control across complete load range from 0 – 100 %
- ✓ Only one common main pump required
- ✓ Simplified plant installation
- ✓ Low return temperatures
- ✓ Lower power costs
- ✓ Can be used with other liquids compatible to our construction

STEAM / WATER MIXER baelz 585

This type of use for ejectors is located in those processes, where a rapid production of hot water is required, with a maximum recirculation, through the direct mixture of steam and water.

It is manufactured from DN 15 to DN 125.



Your advantages at a glance

- ✓ Optimum utilization of the driving energy of the steam for conveying the water to be heated
- ✓ Optimal mixing by condensation steam in water
- ✓ Quiet operation due to specially designed mixing chamber
- ✓ Integration into the process control in cooperation of actuator, temperature sensor and controller
- ✓ Low investment costs
- ✓ Can be used with other liquids compatible to our construction