



High Performance Valves

Engineering competence
in well-defined structures.

TECtemp HT R

Use from DN 150 steam line

COOLING WATER:

from DN 25

PRESSURE LEVEL:

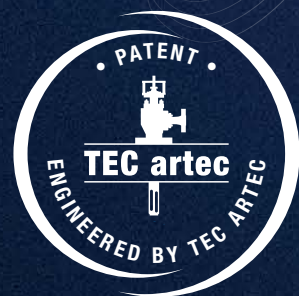
PN 25 to PN 400

TEMPERATURE:

max. 750 °C

CONTROL RATIO:

up to 2500:1



MEMBER OF THE **AVR** GROUP



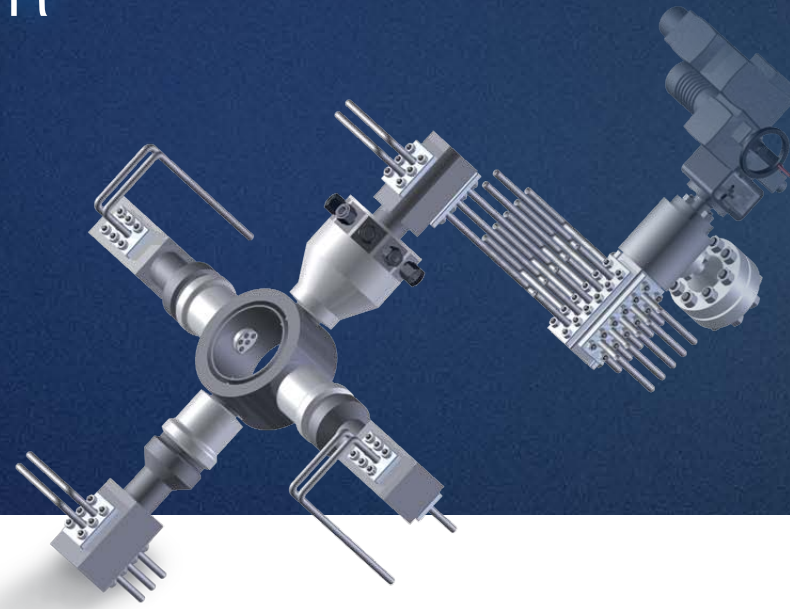
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TECtemp HT R

Ring cooler



REFERENCES

RWE

DESCRIPTION

Our patented desuperheater TECtemp HT R ring cooler is designed with a three-part structure without moving parts and without weld seams in the steam lances.

These are arranged in a ring shape depending on the steam pipe nominal diameter. For example 40 individually controlled nozzles can be used in this way. Homogeneous distribution of the injection water makes short evaporation sections and minimal load of the steam pipe possible. The geometry of the steam lances acts like a venturi nozzle in the steam pipe which results in clearly reduced loss of pressure.

APPLICATIONS

The injection system is suitable for installation in steam lines and in combination with steam pressure control valves in power plants, waste incineration plants, chemical plants etc.

- steam cooling



“THE STRONGEST IN THE RING!”

CHARACTERISTICS

The TECtemp HT R is an injection system which enables precise dosing of the injection amount for the temperature regulation of steam and hot gases by injecting water.

It is possible to perform micro fine atomisation due to special nozzle actuation and the use of several regulated nozzles. Due to the high number of individually controlled nozzles arranged radially, a wide load range from, e.g. 0.5 to 65 t/h can be reliably covered. In doing so, the feed water is homogeneously distributed in the steam pipe to prevent stresses.

Characteristics:

- precise regulation of larger injection water amounts
- no moving parts in the steam flow
- easy to maintain thanks to easy access to the control section with drive
- linear characteristic curve, even percentage or customer-specific
- thermal separation by water feed at 0 m³/h injection to the mechanical moving and electrical parts
- thermal expansions between the individual components are absorbed using feed pipelines
- significantly reduced weight of the injection lance
- reduction of system vibrations
- very high operational reliability

DESIGNS

Actuation:

- electric
- pneumatic
- hydraulic

Connections:

- flange according to DIN or ANSI
- weld-on end
- metallic seal for high pressure and temperature applications

