



High Performance Valves

Engineering competence  
in well-defined structures.

# TECtemp HTV

Use up to DN 150 steam line

**COOLING WATER:**

from DN 25

**PRESSURE LEVEL:**

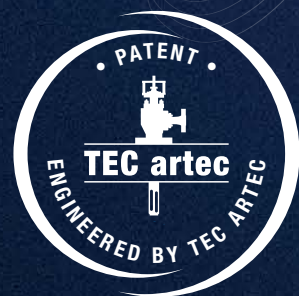
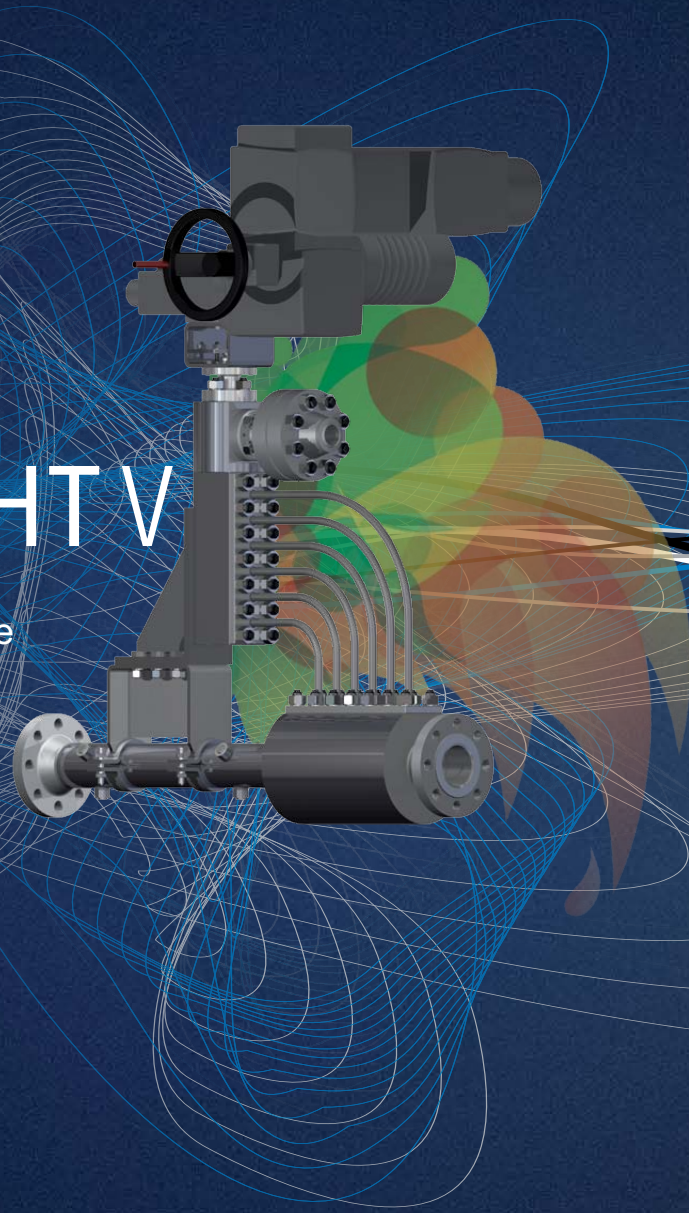
PN 25 to PN 400

**TEMPERATURE:**

max. 750 °C

**CONTROL RATIO:**

up to 50:1



MEMBER OF THE **AVR** GROUP



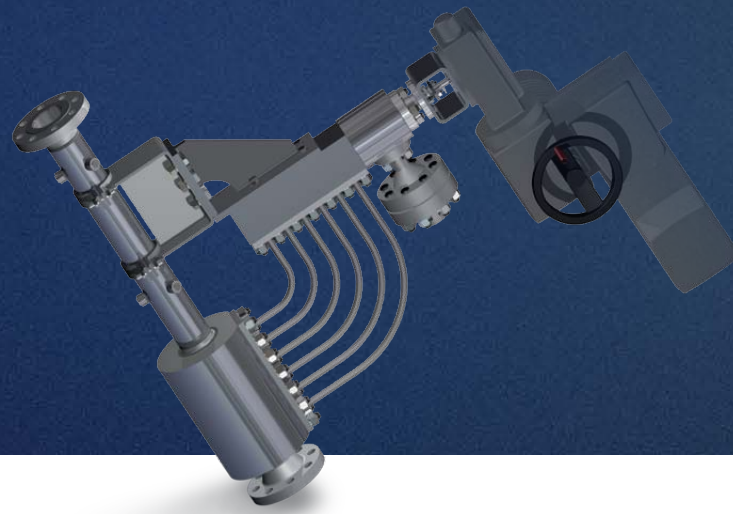
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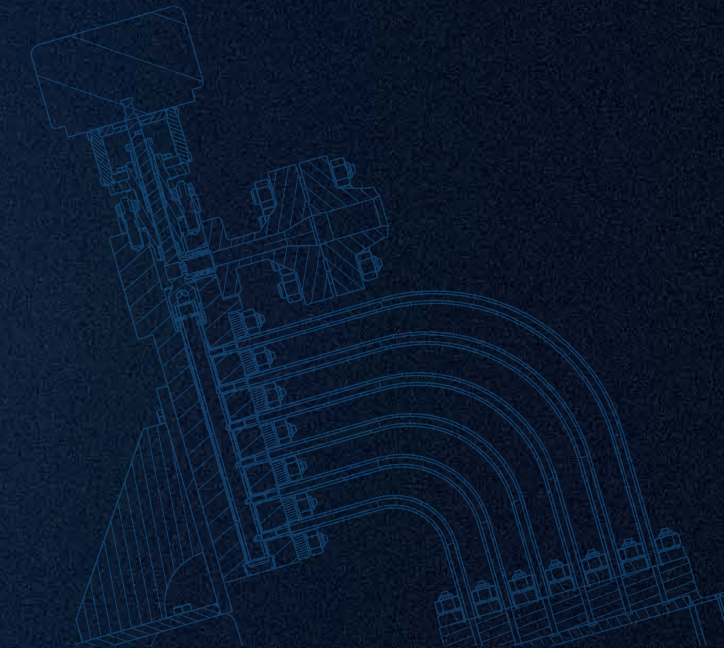
# TECtemp HT V

## Venturi cooler



### REFERENCES

*voestalpine*



## DESCRIPTION

Our patented desuperheater TECtemp HT V Venturi Cooler is suitable for applications at temperatures up to 750 °C for small pipeline nominal diameters due to non-moving parts in the steam flow.

The three-part design makes it possible to bring the control unit with drive out of the high temperature range. The functional principle is based on the design of the proven TECtemp desuperheater. During maintenance, the compact control unit can be easily removed and serviced individually. This desuperheater is used as a compact solution for small pipelines with a high number of nozzles and small pressure loss requirements.

## 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



“SMALL BUT FINE!”

## CHARACTERISTICS

The TECtemp HT V 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 for small steam pipelines can be reliably covered.

In doing so, the feed water is homogeneously distributed in the steam pipe to prevent stresses.

### Characteristics:

- precise regulation of the 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 m<sup>3</sup>/h injection to the mechanical moving and electrical parts
- thermal expansions between the individual components are absorbed using feed pipelines
- very high operational reliability

## DESIGNS



### Actuation:

- electric
- pneumatic
- hydraulic

### Connections:

- flange according to DIN or ANSI
- weld-on end

Delivery as compact unit with mixing tube (three connections provided by the customer)

