



High Performance Valves

Engineering competence
in well-defined structures.

TECtemp

Use from DN 150 steam line

COOLING WATER:

from DN 25

PRESSURE LEVEL:

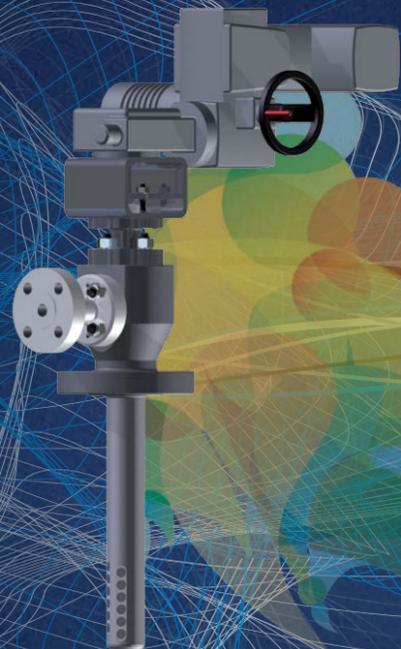
PN 25 to PN 400

TEMPERATURE:

max. 580 °C

CONTROL RATIO:

up to 50:1



MEMBER OF THE **AVR** GROUP



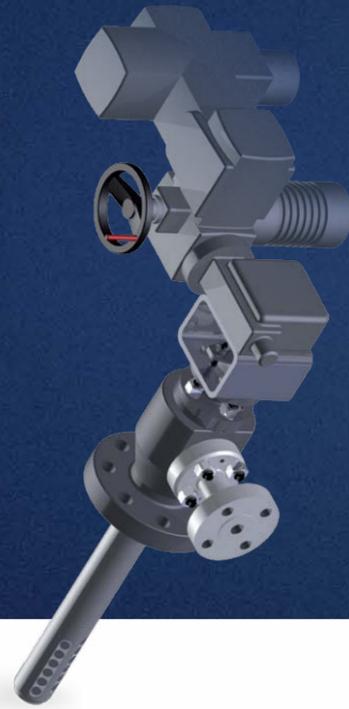
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TECtemp

Desuperheater



REFERENCES

RWE, Hitachi, Vattenfall, ALSTOM, ThyssenKrupp Uhde, Standardkessel, Baumgarte Boiler Systems, Samsung Engineering

DESCRIPTION

Our desuperheater enables very precise regulation of injection water amounts for the hot steam cooling.

The special nozzle design and individual actuation use a **90° rotary movement** and ensure constant micro fine atomisation of the injection water.

The shut-off is performed using an integrated ball/seat ring system outside the high thermally loaded zone. High differential pressures between injection water and process steam of, for example, 100 bar are realised using multi-stage pressure reduction.

The use of coating materials with high resistance to wear results in longer service lives.

The injection begins in the area of the highest flow velocity, the middle of the pipe axis. The other nozzles for the pipe wall open one after the other.

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 temperature regulation



“LARGE CONTROL RATIO,
NO LEAKS!”

CHARACTERISTICS

TECtemp is an injection valve which enables extremely precise dosing of the injection amount for the temperature regulation of steam and hot gases by injecting water.

Characteristics:

- micro fine atomisation
- very precise control characteristics
Kv min 0.01 m³/h
- linear characteristic curve, even percentage or customer-specific
- tightly fitting valve seat outside the high thermally loaded zone
- variable connectivity
- low pressure loss at small differential pressures
- easy nozzle change
- forged case design without weld seams
- due to the design, no thermal shock cracks in the injection lance and in the nozzle head
- long service lives due to use of state of the art surface technologies

DESIGNS

Actuation:

- electric
- pneumatic
- hydraulic

Connections:

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

Case materials C22.8, 16Mo3, 13CrMo4-5, 10CrMo9-10, F91, F92 and ASME materials

