



DISTRICT HEATING

On the rise





2030
-55% CO²



2050
climate-neutral

**In order to achieve
the EU's emission
targets, we have to
move away from oil
heating systems.**

District heating is an
important alternative.



Peter Jurik
Consultant at the Association
of Gas- and District Heating
Supply Companies (FGW)

“Solar thermal energy, waste heat from waste incineration, industrial waste heat – the list of energy sources is very diverse. Almost 50 percent of the energy in Austria is already obtained from renewable sources.”

**WIND
FARMS**

**DATA
CENTRE**

**LARGE
HEAT PUMP**

**BIOMASS
PLANT**

**SOLAR
THERMAL**

**GEO THERMAL
DH PLANT**





METRO



SEWAGE

WASTE HEAT & COLD FROM INDUSTRY

COMBINED HEAT & POWER





150 sustainable projects are on the rise in Austria.

By 2030 Austria's district heating networks will increase to 6,500 km - roughly the length of the Earth's radius.



**This also means an
increased demand for
piping components.**





In order to keep heat loss to a minimum, pipes are carefully insulated before they are buried in the ground or laid in collector corridors.



The water flows through the pipes at between 90°C and 160°C. The high temperatures allow as much energy as possible to be transported.



In addition, the pipes are under high pressure to overcome the varying elevations in the supply area.



Hot water flows from the producer, transporting the energy to the consumer, and returns as cooled water. This cycle can extend for kilometers.



Gerhard Praxmarer
Head of Sales at
KLINGER Gebetsroither

“All of this puts a lot of strain on the material. Not just the pipes, but also the valves and gaskets have to be very robust in order to withstand the physical forces acting on them.”



Where you find KLINGER in district heating

Ball Valves

- » KLINGER Ballostar KHSVI / KHSVI-VVS
DN 150 – 1000 PN 25-40
- » KLINGER Ballostar KHA DN 15-125 PN 40
- » KLINGER Monoball KHO DN 15-250 PN 16-40
- » KLINGER Monoball KHO DN 15-250 PN 25

Piston Valves

- » KVN DN 15-200 PN 16-40

Butterfly Valves

Gate Valves

AB cocks

Gaskets

- » KLINGER Graphite
Laminate PSM
- » KLINGERSIL
- » KLINGER TopChem

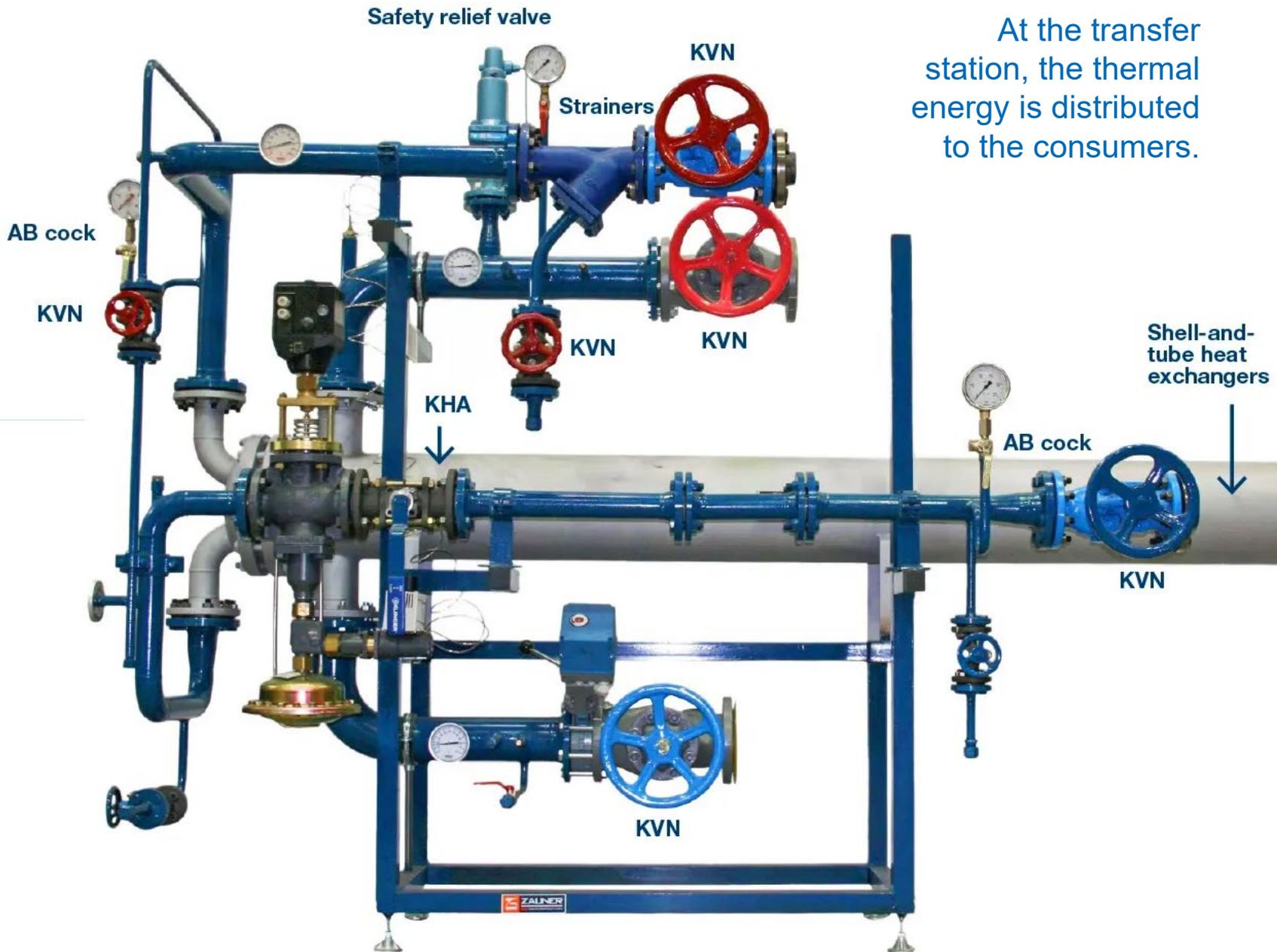
Expansion Joints

- » Metal expansion joints
- » Fabric expansion joints

Electric drives

District Heating Stations

- » KLINGER Combistar FWF
- » KLINGER ECom



At the transfer station, the thermal energy is distributed to the consumers.