



Welcome to the AVK Group



December 2018



AVK – Products Overview for District Cooling Plant



- Concentric Butterfly Valve- Series 20 (DN25-1600)

- Concentric Butterfly Valve- Series 13 & 14 (DN50-2200)

- Double Eccentric Butterfly Valve (DN150 – DN2800)

- Penstock/Sluice Gate

- Gate valves (DN50-800)

- Accessories





Disc

- Ductile iron GGG40
Coating: Rilsan/Polyurethane
Suitable to neutral & non abrasive chilled water compared to traditionally used Al Bz or SS
- Ductile iron GGG40 Halar coated to min. 600 μm for non abrasive sea water.
- Carbon steel Ultralene Coating TM for aggressive & abrasive Chilled/Cooling water.

These are alternative to traditionally used high alloy metals like Alu-bronze, Super Austenitic St. St., Hastelloy





Liner

- standard EPDM (max. 95 °C)
- EPDM HT (max. 130 °C)
- EPDM (with drinking water approval)
- NBR
- Flucast FE, FN and FP
(for abrasive applications)
- CSM
- FPM
- MVQ
- white EPDM, NBR and MVQ





AVK Rubber



World's most modern rubber mixing plant





AVK Development Center – AVK TECH

AVK TECH is responsible for all product development within the AVK Group with designated flow lab and testing facilities.

All product and market information is gathered locally, design and testing is done at AVK TECH.

Proto type production and testing can be done locally or at the AVK TECH research facility.





Case Study

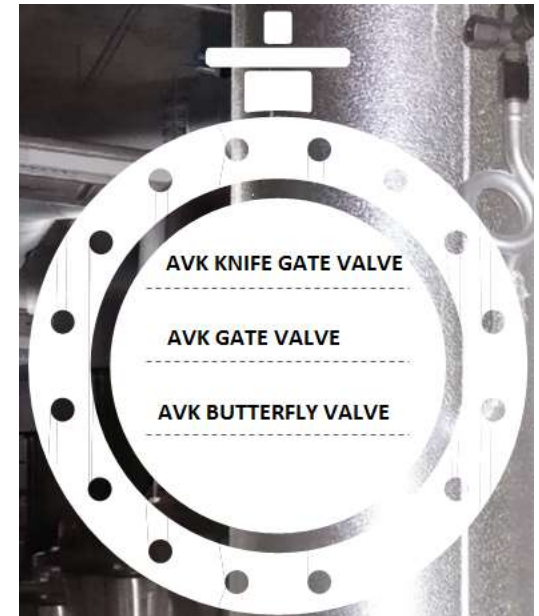
The waste-fired combined heat and power plant in Giubiasco, which went into operation in 2009, is the most modern facility of its kind in Switzerland. This is due to the efficient waste recycling processes it uses to generate power for the district heating network, and due to the utilisation of reliable products from AVK Group (InterApp, Orbinox, AVK)



Giubiasco combined heat and power plant now incinerates some 160,000 tonnes of waste per year. The flue gases are treated in a four-stage cleaning process consisting of an electrostatic precipitator, a three-stage scrubber, a catalyst and a tissue filter.

The residual heat from the steam – the energy of which was converted into electricity via the turbine – is fed into the district heating network using a heat exchanger. An entire region is thus able to profit from this efficiency

Products from the group, such as the knife gate, butterfly and ball valves used in the plant's heating and cooling circuits, will ensure that processes run reliably in the future. In addition, InterApp Butterfly Valve will make an important contribution to the supply of the district heating network, which is set to be further expanded in the future.





Sustainable Future

AVK recognises sustainability as a factor of vital importance to future success. Not only do our products, in terms of the materials that we use, show respect for the environment.

In addition, our production units are set up using processes that put as little strain on the surrounding environment as possible.

The AVK Group has production companies all over the world. All production companies are certified according to **ISO 9001** in respect of quality management and **ISO 14001** in respect of environmental management. Moreover, most companies are also certified according to **OHSAS 18001**, the international standard for occupational health and safety management.

We have a proactive approach to business, and this ethos will continue to be reflected in all aspects of our business





Any question?





Thank you!

