



Heating jacket

If steam or condensate is present due to the process conditions, a fitting with steam heating can also be used. In this case, a double jacket is welded around the valve body. The heating jacket is designed in accordance with the relevant pressure equipment directive. In critical applications, heating with steam provides a better heat transfer and thus a higher heating capacity.



Technical Data:

The customer must ensure that the maximum temperature of the heating media is not more than 25 °C above the maximum operating temperature of the flame arrester and does not exceed 80% of the self-ignition temperature. The CEN/TR 16793 specifies these requirements for flame arresters and the German technical regulations TRGS 509 for the storage of flammable liquids.



KITO® - Solutions for heating of devices

Under the brand name KITO®, safety concepts for explosion protection on stationary and mobile installations have been efficiently developed and produced in Braunschweig for over 90 years.



**Application:**

The event of heat loss to the outside (due to climatic influences) or heat dissipation (to the inside) in industrial processes can lead to an increase on risk of failures on process safety or explosion protection. For instance, under specific circumstances moist and warm gases can quickly block a greater heat loss in products with a tendency to crystallization means higher requirements for thermal insulation on valves and flame arresters. Crystallization of acetic acid, for example, can prevent the valve pallets from opening and clog the flame arresters (KITO® grids). These events automatically lead to a potential failure of the device and industrial damage.

KITO® offers two different heating solutions for its product range for use in hazardous and non-hazardous areas:

- Electric heating
- (steam or hot water) heating jacket



*Clogging by crystallized acetic acid*



**Electrical heating**

In this solution, thermal insulation encloses the devices, which is individually tailored to the contours of KITO® devices without affecting its functions. In order to compensate the thermal insulation losses, additional heating tapes with appropriate length, combined in a heating sleeve, are fixed around the housing. The fasteners can be easily attached or removed with the help of Velcro fasteners, so an easy disassembly and assembly for maintenance purposes is possible. It also ensures that all ventilation openings are not obstructed, and functions are not restricted.



**Technical data:**

- suitable for ambient temperatures down to -40 °C depending on the type of device (heating surface)
- heating tapes with a maximum safety temperatures limit of 85 °C (T6) and ATEX approval for use in Zone 1
- the design of the heating tapes is carried out at the factory
- the thermal insulation is made of UV and weather-resistant material (para-aramid-fiber)