



LT low temperature shut-off



LT low temperature shut-off

If the safe shut-off of the gas supply is required to prevent brittle fracture of equipment and piping, many customers rely on a standard **low-temperature shut-off** from LT GASETECHNIK.

In special applications a safe gas supply with a minimum temperature is required. For this purpose, the low-temperature shut-off is supplemented by a gas preheater. This controls the medium to an adjustable temperature and thus ensures a safe media supply with a minimum temperature.

If this additional safety stage is also exceeded, the shut-off takes place by a shaft-driven cryo-shut-off valve. A pre-alarm for early customer-side reaction possibility without full shut-off is possible.

Safe brittle fracture prevention

Our solution

The design is carried out according to customer specification, for example:

Electrical flow heater

- capacity 1.6 KW
- Min. throughput N₂ at rated output 125 kg/h
Adjustment of the heater to desired flow rate and ΔT
- Min. inlet temperature
-30 °C
- Max. outlet temperature 5 °C

Controller

- PLC control with individual programming
- 4 "touch color display
- Interfaces: CAN, Ethernet, RS-232, RS-485, USB, REMOTE I / O
- Thyristor controller for the heating cartridge of the flow heater



Design

Comfortable equipment:

- Shaft-driven cryo shut-off valve, designed for: -196 ° C / PN 40
- Resistance thermometer incl. measuring transducer
- Flash Light Horn
- Frame with galvanized steel profile rails and roof
- Traverse height adjustable for individual adaptation to on-site conditions
- During installation, only connection of voltage, control medium and pipelines have to be connected

Design options

LT low temperature shut-offs are always designed according to customer specifications and equipped accordingly. The following equipment configurations are possible:

- Version in SIL 1 or SIL 2
- Delivery including cryo shut-off valve or customer-side supply and assembly
- GSM modem for SMS or mail transmission
- Network connection according to industry 4.0 requirements

***Design according to your needs!
Please contact us...***



Example configuration:
Low temperature shut-off with
gas preheater
completely mounted in a rack with roof

LT GASETECHNIK
beyond standards

Martener Str. 535 – 44379 Dortmund – Germany
Tel +49 231 / 96 10 70-0 Fax +49 231 / 61 38 44
www.lt-gasetechnik.com mail@lt-gasetechnik.com
05/2018