

## CSN<sup>®</sup> Ex flange heater type 9l2Ex

## DESCRIPTION

Our CSN® Ex flange heaters are designed for outputs of up to 500 kW and are ideal for heating liquid and gaseous media. These electric flange heaters are specially designed for use in potentially explosive environments and provide a reliable and efficient heat source. Thanks to their integrated temperature monitoring, you can precisely control the operating temperature and thus ensure a safe working environment.



## **PRODUCT BENEFITS**

- Mining approval (device group I)
- Type of protection Ex d
- Version with replaceable heating elements possible
- Integrated temperature monitoring
- Extremely robust design

## **TECHNISCHE DATEN**

Authorisation	Zone I, additionally mining (equipment group I)
Certification	ATEX
Temperature class	TI T6
Ambient temperature range	Standard -20°C to +40°C
Power (kW)	up to 500
Voltage (V)	up to 1000
Protection class	IP 54
Medium	Liquid and gaseous
Process data	Medium, pressure and temperature according to specification
Process connection	Flange EN 1092-1, PN 16, up to DN 450
Heating elements	Tubular radiators
	Cartridge radiators
	High-performance cartridge heaters
Materials Process connection	Steel; I.4404 (AISI 316L);

	1.4541 (AISI 32I); I.457I (AISI 316 Ti)
Heating element materials	Steel; I.4404 (AISI 316L);
	1.4541 (AISI 32I); I.457I (AISI 316 Ti);
	I.4876 (Incoloy 800); 2.4858 (Incoloy 825)
Material of connection cover	Steel (painted)
Installation length of heating elements (mm)	300 - 3500 for tubular radiators
	up to 6000 for cartridge radiators
	up to 7000 for high-performance cartridge radiators
Temperature monitoring (version via intrinsically safe circuits (Ex i))	PTIOO internal (standard)
	Internal thermocouple (optional)
	External temperature controller (optional)
	External temperature limiter (optional)
Execution	912F = for liquids
	912GB = for gases, Ex zone on heating element
	912GN = for gases, no Ex zone on the heating element
Customised versions on request	







