



Electrical flow heaters

Ex II 2 G Ex II 2 D

Applications

ELMESS flow heaters are used for heating liquids and gases.

Typical applications:

- Oil heating (lube oil, fuel oil, thermal oil)
- Water heating (industrial heating systems)
- Air heating (pressurized air, burner air, drying technology)
- Gas heating (natural gas, process gases, technical gases)
- Environmental technology (exhaust air cleaning, catalytic afterburning)
- Steam generator, steam super heater (industrial process technology)



Flow heaters for liquids and gas



Preheater for water, fuel or lube oil

Technical data

Rated power : Ex-protected up to 300 kW,
other up to appr. 2 MW
Rated voltage : 230 ... 690 V
Nominal width : DN 40 ... DN 1200
Nominal pressure : PN 16 ... PN 100
Installation length : 400 ... 3000 mm

All heaters are designed and manufactured according to the individual requirements of our customers.

Materials

Selection of material results under consideration of operation data as well as customer's requirements.

Carbon steel, painted, stainless steel and special materials

Flow heaters for high process temperatures

Multi-stage design for operating temperature up to 700°C



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Gas preheater, block type, for high operating pressure

Up to appr. 500 bar

Design Codes and Inspections

Design, Manufacturing and Inspection according to European Pressure Equipment Directive (PED, 97/23/EC), ASME code or other international standards.

Design according to AD2000, ASME or other codes

Inspection: Manufacturer's inspection, TUV, LR, RINA, SELO or other third parties; individual inspection by classification organisations such as DNV, BV, LR, ABS, GLC or others; ASME design with or without U-stamp

Explosion protected devices are supplied with EC type examination certificate (according to ATEX directive 94/9/EC), GOST and IECEx certificates are available on project basis.

The complete documentation including all certificates is part of the delivery.

Gas preheaters



DVGW certified (German Technical and Scientific Association for Gas and Water)



Regeneration gas heater

e.g. for air separation plants

Complete systems, including heater and control panel from one single source, guarantee reliable and safe function.

