



ATEX Gas Cylinder Heaters

Certified cylinder heating for hazardous-area (ATEX) locations

In potentially explosive gas or dust atmospheres, gas cylinders still need frost protection, temperature maintenance and process heating. The ATEX gas cylinder heater is a system-approved heating jacket that wraps the cylinder and holds it in the -40°C to $+50/60^{\circ}\text{C}$ range — fully certified for ATEX zones 1/2 (gas) and 21/22 (dust).



AT A GLANCE

- ✓ ATEX-certified for gas zones 1/2 and dust zones 21/22
- ✓ Three standard sizes — 10, 50 & 79 L cylinders
- ✓ 230 VAC, 380–850 W, temperature classes T3–T6
- ✓ Robust, flexible, dissipative — indoor & outdoor, -40 to $+60^{\circ}\text{C}$
- ✓ Operates with the digital ATEX controller (ordered separately)

DESCRIPTION

The heating jacket has a robust, flexible and dissipative construction for both indoor and outdoor use. Each jacket is customised to the required gas cylinder dimensions, with standard sizes for 10, 50 and 79 litre cylinders and other capacities on request.

It is system-approved with an EC-type examination certificate to Directive 2014/34/EU, Annex III, and ships with extensive documentation for the explosion-protection document required under §6(9) of the German Hazardous Materials Ordinance (GefStoffV).

Marking is II 2G Ex e mb IIC T3 Gb for gas and II 2D Ex e mb IIIC T120°C Db for dust. The temperature class is selectable from T6 down to T3 via the limiter setting, across an ambient range of -40°C to $+60^{\circ}\text{C}$.

The jacket runs on the digital ATEX controller, limiter and power selector, ordered separately, which regulates and limits the temperature. Please also observe technical rules TRG 310 / TRBS 3145 / TRGS 745.

APPROVALS

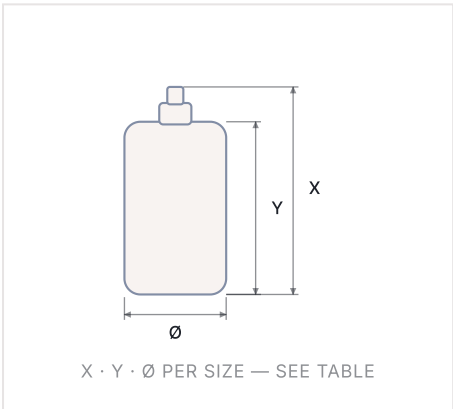


Three sizes — 10, 50 & 79 litre

Every jacket shares the same certified construction and differs only in cylinder size, power and dimensions. Each kit is 230 VAC and supplied with two Pt100 sensors.

CYLINDER	POWER	X (MM)	Y (MM)	Ø (MM)	WEIGHT	ITEM NO.
10 L	380 W	1010	800	140	6 kg	23-4266
50 L	850 W	1670	1400	230	9,5 kg	23-4265
79 L	850 W	1290	1000	318	10 kg	23-4264

X, Y and Ø are shown on the cylinder diagram below, in mm per cylinder size. Other capacities and cylinder sizes on request. The digital ATEX controller (item 23-4258) is required and ordered separately.



EXPLOSION PROTECTION MARKING

Gas	II 2G Ex e mb IIC T3 Gb
Dust	II 2D Ex e mb IIIC T120°C Db
Ambient (Ta)	−40°C ≤ Ta ≤ +60°C
EC-type examination	TPS 11 ATEX 29587 011 X

Approved to zones 1/2 (gas) and 21/22 (dust); not suitable for zones 0 and 20.

Technical data

Nominal voltage	230 VAC	Nominal power	380 / 850 / 850 W
Max. operating temperature	+50/60°C (jacket max. 200°C)	Temperature class	T6 / T5 / T4 / T3 (via limiter)
Electrical connection	Terminal boxes — mains (Ex e) / sensor (Ex i)	Protection degree / class	IP65 / I
Zones	1/2 (gas) · 21/22 (dust)	Sensors Pt100 (Ex i / Ex e)	Standard 2 · optional 3 (SIL3), 4, 5...
Ambient temperature	−40°C ≤ Ta ≤ +60°C	Standards	EN 60079-7 / -11 / -18 / -31

Note: please consider technical rules TRG 310 / TRBS 3145 / TRGS 745. Maximum operating temperature 50°C (cylinder temperature). Other nominal voltages and capacities on request.

TYPICAL APPLICATIONS

- Frost protection
- Temperature maintenance
- Process heating
- Hazardous-area (ATEX) sites
- Indoor & outdoor
- Gas zones 1/2 · dust zones 21/22

The required controller



The jacket is operated by a digital ATEX controller, limiter and power-selector combination. It controls and limits the temperature in potentially explosive atmospheres and adds the power-selector function — ordered separately as item 23-4258.

Function	Controller · limiter · power selector	Zones	1/2 (gas) · 21/22 (dust)
Explosion groups	IIC (hydrogen) · IIIC (static dust)	Temperature classes	T1 · T2 · T3 · T4
Body / protection	Aluminium · IP64	Display	Controller + limiter · glass window
Cable glands	Mains M25 · heater M20 · sensors M20	Item no.	23-4258

Certified to EN 60079-7 (e), -11 (i), -18 (m) and -31 (t). Also suitable for ATEX heated lines and hoses, heating mantles and drum heaters. Not suitable for zones 0 and 20.

Contact your distributor for a quote

Quote the item number from this brochure when you order.