

Cold Protection System

ST-204E Rev.0.0

CP8000

Maximum Pressure
40 Barg
Temperature
-25/+50°C



The system CP8000 in all its version with both electrical box 1001SA, 1002SA/SB, 2003 and S400 has the task to monitor and control the temperature of the process gas, report the achievement of a temperature threshold for early warning and/or act by blocking the supply in case of overcoming a second temperature threshold of alarm.

The safety system consists, in general, by a electrical control panel, by one or two pneumatic valves of safety, one or two solenoid valves,

one or more temperature sensors and a pressure regulator 20 to 50 bar.

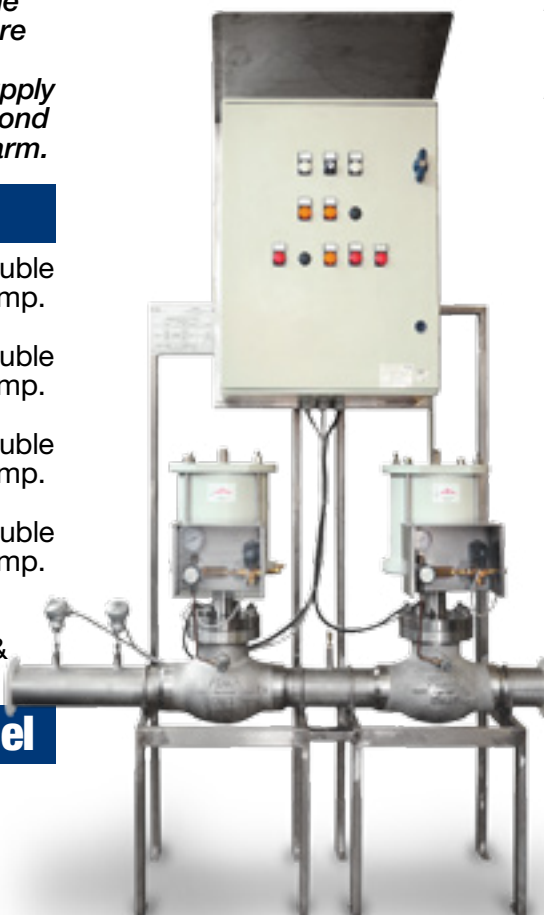
The CP8000 device is designed for protection of pressure equipment against the exceeding the allowable limits of temperature. The system is classified Cat.IV of directives 97/23/EC (PED).

Models

- 1001SA** N.1 valve with double solenoid & N.1 temp. sensor
- 1002SA** N.2 valve with double solenoid & N.2 temp. sensor
- 1002SB** N.1 valve with double solenoid & N.2 temp. sensor
- 2003** N.2 valve with double solenoid & N.3 temp. sensor
- S400SIL3** N.1 valve with double solenoid & N.2 temp. sensor

Electronic Box Model

- Hard Wiring (Hw)
- PLC HW
- S400 (Sil3)



Operating Conditions

- MOP** Max Operative Pressure
NP 50 Barg.
- MOT** Max Operative Temperature
-25/+50°C

Accessories

- Solar cell panel
- Battery rack
- Remote control (only for S400)

Applications

- Suitable for cryogenic fluids
- Liquid Oxygen -25°C
- Liquid Nitrogen -25°C
- LPG & LNG

Characteristics

- ON-OFF System
- Temperature range -5°C -20°C
- From DN.25(1") to DN.250(10")
- Flange connection
- Max rating PN.40
- Pilot with double solenoid
- Temperature sensor PT1000/PT100
- Certificate PED 97/23/CE Cat. IV
- Certificate 94/9/CE ATEX
- Approved for oxygen use
- Supply 230Vac o 24Vdc
- Self pneumatic valves

Cold Protection System

CPSD8000

with Electronic
Box S400 SIL3



Characteristics

- Electrical Box SIL3-93/42/CE e 47/2007/CE
- Pneumatic on-off valves with pilot
- Temperature sensor with N.2 PT1000 integrated in one sensor
- Materials Bronze B62 or AISI 316
- from DN.25 (1") to Dn. 250 (10")
- Approved for oxygen use
- PED Class IV 97/23/CE

Certifications

CE 97/23/CE (PED)

UNI EN ISO 9001:2008
ICIM Certificato N. 0075/5



GOST R N.9239



ATEX EX II 2G

