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### 1. Description / designated use

The Gas warmer PEGO-PASSAT II is inserted in high-pressure pipelines of **non ignitable** and **non aggressive** gases before the pressure control valve. It is planned for industrial application. The through flowing gas is warmed up so far that it does not with the relaxation in the following regulator by condensation of moisture to ice formation on the control nozzle.

### 2. Regulations and guidelines

Dealing with compressed gases assumes the knowledge of the orders, to technical rules and regulations with the contact of compressed, liquefied and under pressure Dissolved gases. This applies in particular with the contact to ignitable, corrosive and self inflammatory, oxidizing gases or liquids. The **valid regulations** are to be followed. Among other things the orders, guidelines are listed in the following.

According to §27 of the accident prevention regulation of gases BGV B6 the contractor has to put up operating instructions for gas installations and to lay out so that they are accessible to all employees.

According to §28 and 29 the BGV B6 the gas equipment may be operated and serviced only by expert persons, who before the start of their activity must be aware of the following:

- The special dangers with the contact with gases,
- The security regulations,
- In accidents and interferences to take the appropriate measures,
- The operating instructions,
- The use of protective equipment.

#### 2.1 Laws, by-laws, technical regulations

Laws about technical working means with general administrative regulation, as well as lists A and B to the GtA..

Laws about compressed gas containers and filling plants (compressed gas containers law - compressed gas containers by-law.) and general administrative regulations as well as appendices to the compressed gas containers by-law..

Regulations for inclusion of conduits and preventive measures before high-voltage equipment with nominal tensions of 1,000 V, VDE 0190.

#### 2.2 Accident prevention regulations

Accident prevention regulation BGV A1 „ general regulations „  
Accident prevention regulation BGV D1 „ Welding, cutting and related procedures „  
Accident prevention regulation VBG50 „ Work on gas lines „  
Accident prevention regulation BGV B6 "gases

#### 2.3 Norms

EN 730 Security equipment  
EN 961 Main pressure control valve  
EN 29090 Gas leakage

# Operating and Service Manual for Gas warmer **PEGO-PASSAT II**

# HORNUNG

## 3. Assembly instructions

The Gas warmer is mounted in the high-pressure conduit line before the main pressure valve.

The assembly of the appliance occurs with a mounting bracket on a load-bearing wall. The maximum efficiency is reached by the assembly immediately before the pressure valve. Connecting the gas line occurs with the threaded connection by means of accompanying brazed connection.

**The threaded connections are to be categorically checked after assembly for leakage!**

**The appliance is not suitable for operation in the open!**

## 4. Initial startup

The Gas warmer is supplied with a 2m inlet. The flow direction is unimportant for the function.  
The maximum working pressure is 200 bar.

The mains connector for the heating element is affected with a "Schuko" plug.  
(load 230 V / 1.5 kW / 16 amps).

The **filling** of the container with cooling liquid, e.g., water with car antifreeze, takes place at the filling opening located in the lid. Unscrew stopper fill and after filling screw in the stopper. Water with up to 50% antifreeze can be used.

Adjusting the temperature on the set button in the underside of the heating element between +30 ° to +80°C. The temperature setting is directed after the surroundings temperature of the gas source, the gas type, as well as the gas withdrawal amount and must be determined according to these requirements. The thermometer in the filling indicator indicates the liquid temperature; the gas temperature lies with constant gas withdrawal accordingly lower. When the container liquid has reached the required temperature value, the built-in thermostat automatically turns off. With a drop in temperature of approx. 5°C switches on again.

With longer interruptions of the gas supply interrupt mains connection (remove mains plug)!

## 5. Servicing

All movable connections and movable pipelines are to be checked in adequate distances according to the operational demand, at least 1 x annually for leakage and damage.

The filling state of the cooling liquid must lie above the visible section of the show glass and must be **controlled daily** or be refilled. operating the appliance without sufficient liquid the heating element burns out!

## 6. Technical data

|                   |  |
|-------------------|--|
| Working pressure: | max. 200 bar / nominal width: 7 mm                                   |
| Voltage:          | 230 volts / 50 hertz   |
| Heating capacity: | 1,500 watts  |
| Protection:       | IP 56  |
| Connection:       | "Schuko" plug with 2 ms of connecting lead                           |
| Gas type:         | highly compressed, non ignitable, non corrosive gases                |
| Connection:       | German Institute for Standardization EN 560 - G ½ with brazed nipple |
| Size - LDH:       | 450 x 220 x 175 mm   |
| Filling amount:   | at least 2.25 l / normal filling amount 3.2 l                        |
| Weight:           | approx. 7 kg - without liquid  |

**Assembly works and repair work may be carried out only by authorised specialist staff!**

**Disposal!!!**

**With the disposal of the used cooling liquid see local disposal regulations.**