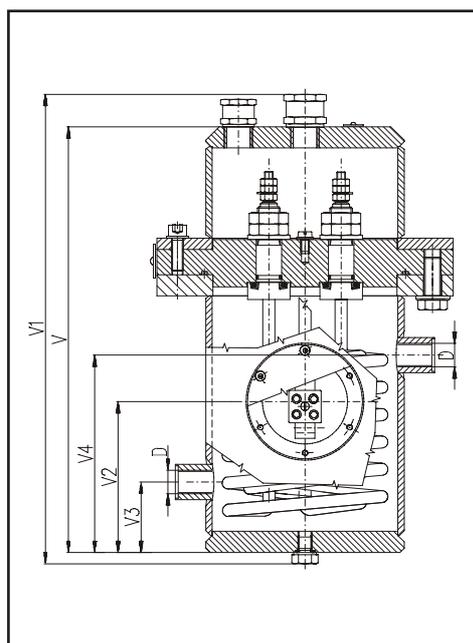


## ELECTRIC GAS PREHEATER



## USE

A gas preheater with an electric heating is used to the heating of a gas, especially for gas regulating stations. Its suitable for natural gas and all noncorrosive gaseous media. If the preheater is a part of the gas regulating station, it is necessary to follow "Regulations for an operation and maintenance of regulating stations".

## TYPE / DN / PN / TEMPERATURE / RANGE

EP1 130 440 DN 10 PN 40 to +70 °C.

## CONNECTION

Building lengths and connecting dimensions are given in a dimension table.

## MATERIAL

	EP1 130 440		
	DIN	ASTM	ČSN
Socket pipes, bottom, plate	St 52-3	Gr.15180	11 523
Flange	H II	Gr.A	11 416
Valve shell	St 35	Gr.C	11 373
Sealing	NITRIL RUBBER		

## TECHNICAL DESCRIPTION

The preheater consists of a pipe body with internal threaded holes for an entry and an outlet of the gas. Two heating bodies are hung in an upper cover with inlets. A supply cable is led through the inlet of the CMP-20-A2F type (the minimum diameter about the cable for the inlet CMP-20-A2F is 6,5 mm and the maximum  $\varnothing$  is 14 mm). In an upper cover of the preheater there is located the stainless sump for the sensing unit PT100. The sensing unit is specified for the connection to the control electric regulation (a continuous regulation) that is regulating the outlet temperature of the gas from the electric preheater. The supply cable of the sensor PT100 is led through an independent cable inlet of the CMP-20/16-A2F (the minimum  $\varnothing$  of the cable for the inlet CMP-20/16-A2F is 3,1 mm and the maximum  $\varnothing$  8,7 mm), which is situated approximately over a sensor pit. Besides of it in the upper cover of preheating there is located the thermostat that is set on the breaking temperature 30 °C.

On the body in the cover (a strong closure) it is attached an irreversible thermal fuse set to the breaking temperature 72 °C. The thermal fuse must not be used for the control (regulation).

A common cover of a heating rod connecting space and the thermal fuse cover are in the execution EEx d IIB T2 (a strong closure) with the protection IP64 and the stainless sump with the temperature sensor PT100 is in the protection IP67.

In the case of the utilization of a control with the regulator CRYTERM that is delivered by the SČA a.s. Ústí nad Labem, it is used a thermostat with the breaking temperature 60 °C.

## INSTALLATION

The preheater is mounted in a vertical position with the cover located above. The entry of the working fluid is through a lower threaded outlet as it is given in a document "B" delivered together with the product. An inlet piping must be before an installation perfectly freed of all the mechanical impurities. The connection of heating bodies, of the sensing unit PT100 and even of a thermal fuse can be carried out only by a professionally trained worker. Before connecting of the preheater on to the net it is necessary to check that during a transportation or a storage would not come to the damage of electric parts. For securing of a safe operation it is necessary to pay an enhanced attention to a checking and to a maintenance, especially to components that generate a solid explosion-proof enclosure or a protection IP, including of cable inlets.

## DIMENSION TABLE

DN	D	V	V1	V2	V3	V4
10	G3/8	302	333	107	50	140