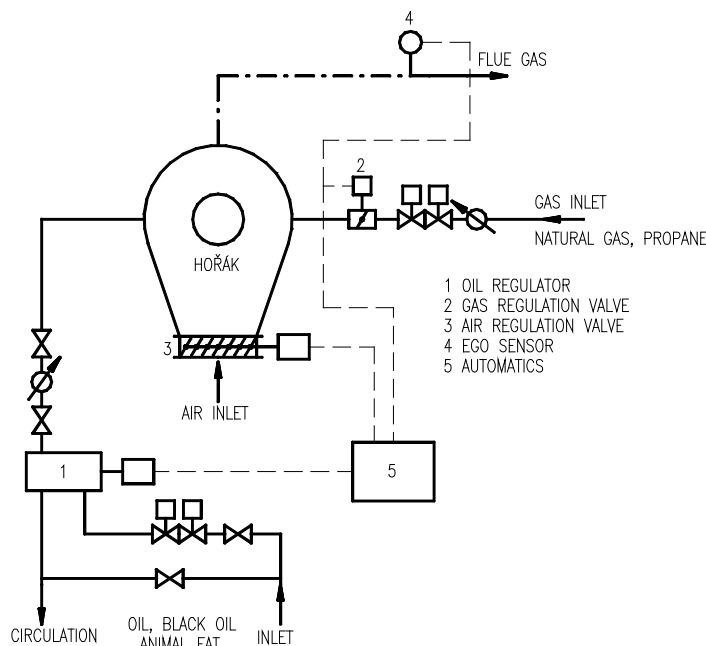


KL 26

## BURNERS AND COMBUSTION AUTOMATICS



We ensure deliveries, overhauls and assembly of burners of various producers - PBS Třebíč, Saacke, Weishaupt and others. We carry out GO of burners, their adjustment based on the type of boiler, fuel, etc. Burners can be supplied as single fuel ones or combined fuels – natural gas, light heating oil, heavy oil, animal fat, PB, degasifying gas, etc.

For burners we deliver the latest control automatics, incl. the automation of split bond of fuel – air ensuring an optimal combustion with high efficiency within the entire capacity range. The automatics can be complemented with an oxygen probe in the combustion space and via this probe the combustion process can be controlled. This combination assures a maximal quality and efficiency of the combustion process. Automatics work in a sequence and provides for a timing and evaluation of emergency and operational binary states. It includes two ionizing flame detectors and a contact for an external flame detector.

### Automation of split bond of fuel – air - Method of operation

It to improve the quality of combustion we offer this type of automation. Its use provides for an improved combustion efficiency by 1,5-2%.

Using this automation, volume of air and volume of gas, or oil for combustion will be controlled separately. The burner will have an independent actuating mechanism to control a gas flap, an independent actuating mechanism to control oil (fuel) volume and an independent actuating mechanism to control an air flap. All the positions of flaps will be controlled via an independent position transmitter.

The control of the air actuating mechanism is based on the position of the fuel actuating mechanism and a set curve of fuel/ air ratio. This ration can be additionally adjusted via a correction signal within the set range.

Positions of actuating mechanisms are monitored via a rheostatic position transmitters - 100 ohm

Air – fuel ratio is controlled according to a curve. The first point 0% of fuel, 0% of air and the last point 100% of fuel, 100% of air are fixed. Between the first and the last point the points on the curve are adjustable. The position of air between two points is determined via interpolation. If the unit cannot assure the ratio within a predetermined time limit, the relay “fuel correspondence” is disconnected and the burner stops working.

Failure is announced via a failure signalization (pager, phone, GSM).

The split bond of fuel –air can be added on old types of burners.

The schema is just for information.

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