

## Zakłady Automatyki POLNA Aims Higher

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**SA** presents a wide range of products belonging to the areas of automatic control engineering and heat engineering, as well as central lubrication equipment and laboratory equipment. The company is specialized in designing and manufacturing of control valves, diaphragm multi-spring pneumatic actuators, steam desuper heaters, needle valves, regulators, central lubrication equipment, distillers and redistillers. It also has all necessary certificates and approvals. Designing and manufacture of individual products is based on complete implementation of the technical conditions agreed on with Customer. The company offers a variety of services. Besides, the presented angle valve works at the Patnow Power Plant, as part of a 310°C steam system. So as to maintain the working parameters and meet the acceptable noise standards, two



Angle valve to control the flow of steam

silencing plates are installed at the valve outlet and a perforated plug is used. The angle body has welding ends with the nominal inlet diameter of DN150 and the outlet one of DN250. The long throttle allows separating sensitive elements of the electrical actuator and graphite seal of the valve stem from

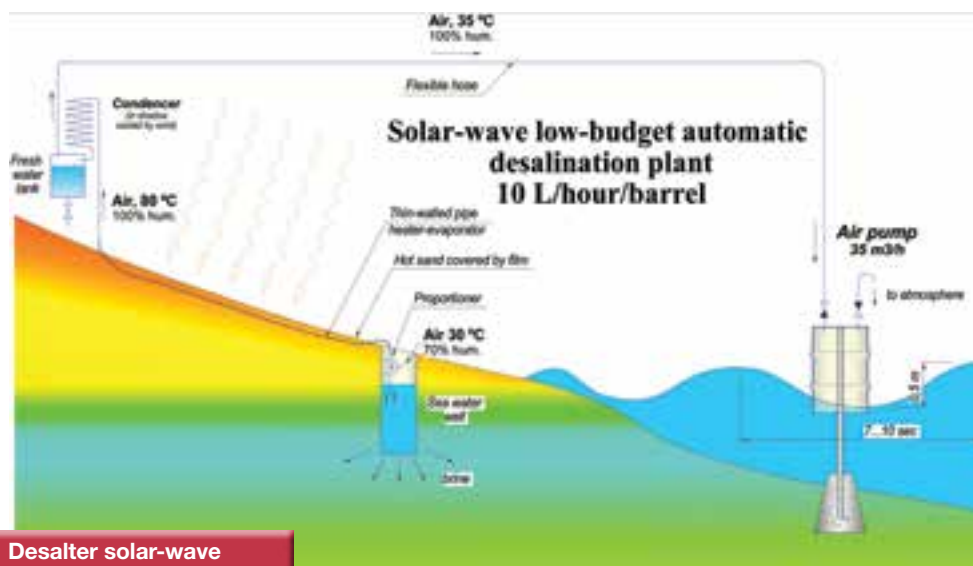
adverse conditions occurring at the valve (high temperature). The tightness class of the valve as specified in PN-EN 60534-4 is higher – V, and the flow coefficient is 320 Kvs at the linear flow mode. Zakłady Automatyki Polna was founded in 1899 and is headquartered in Przemyśl, Poland. ■

## LEK Wind-Water Develops Patented Systems

The mainstream activity of **LEK Wind-Water** (since 2004, Kaliningrad on Baltic, Russia) is designing and creation cheap windmill plants for personal water supply. The company's main motto is

to make worldwide the wind-driven turbines from improvised materials without the use of factory equipment. For this time, it has created an original sailing wind turbine, a propeller

wind turbine from a piece of pipe, a submersible diaphragm pump for deep water chinks, etc. The company has also created the desalter for sea water on the basis of a cycle of humidified air. It has also decided to divide the evaporator and the condenser, and also to give turbulence to air for desalination process activation. Also it has been considered as a very important principle in the absence of maintenance. Therefore their plant has no sprays and pumps. As more air stream passes through plant, the more fresh water you receive. In this desalter the heating of air and evaporation of sea water provides the sun through hot sand, and air stream provides a high-speed duplex propeller wind turbine. The problem of a salt deposit also is solved. LEK wind-water believes that such solar-wind desalter should be used at sea coast where average annual speed of a wind is 4-5 m/s, for example, in Kenya, Somalia, Yemen, etc. ■



Desalter solar-wave