

## **Raising the reliability of the automatic axial-balancing device of the centrifugal machines**

In this paper it is stated the theory of reliability calculation of essentially new design of the automatic balancing device of the multistage centrifugal pump. This device represents the difficult hydro-mechanical system of automatic control consisting of two subsystems: the balancing disk and the regulator of pressure difference. This system possesses several advantages in comparison with devices of traditional execution.