

CONTROL BALL VALVES

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Pompazh is a transient in centrifugal compression facility and expressed in a burble fluid through the driving wheel of compression facility. This process comes, when energy, transferrable the buckets of driving wheel to the gas current, unsuffices for overcoming of resistance head a gridiron from the side of blowing of compression facility during work on behaviors of low charges, here are tearing away of gas current from the buckets of driving wheel. It results in arrival of bands underpressured and вихреобразованием in межлопаточном space, as a result there are an enhanceable jarring action and noise in the beginning. Further development of помпажа (on frequencies from 0,5 there are to a few Hertz) often results in breakages with the large breaks of centrifugal compression facility, drive engine of GPA and other installation.

For the decision of this problem different methods and facilities of anti-surge guard, the task of which is taken to non-admission of approaching of duty compression facility to the bound of помпажа due to control of characteristics of compression facility, were designed (pressure and gas consumption before and after compression facility). Presently on OAO by him. Frunze is designed антипомпажный regulative flap on the basis of construction of ball cock.

Basic principles and constructions of антипомпажной guard are in-process considered. And also by the programmatic package of ANSYS CFX the running feature of антипомпажного flap was projected on the basis of ball cock and its numeral calculation is made. As a result got high-quality picture of gas flow through a flap, card of dependence of expenditure from the corner of turn.

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