

Numerical Simulations for Nitrogen Flow in Piezoelectric Valve

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Abstract : Results of numerical simulations for transonic flow in a piezoelectric valve are presented. The valve is the main part of an adaptive pneumatic shock absorber. Flow structure in the valve domain and the influence of the flow non-uniformity in the valve on a mass flow rate is investigated. Numerical simulation results are compared with experimental data.

Keywords : pneumatic valve, transonic flow, numerical simulations, piezoelectric valve

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