

The invention relates to machine-building, in particular to propulsion engineering, namely to system of air feeding of engine with free gas-turbine supercharge. System for air supply of engine with free gas-turbine supercharge includes air purifier, turbo-compressor and inlet section. System is equipped with branch pipe connected to air purifier and inlet section that serves for feeding with air the engine at period of start and operation at idle operation with passing by turbo-compressor. In branch pipe back valve is installed. As back valve back valve of tab type is installed in which tab is made of elastic material and is rigidly fixed at center at end surface of body of valve by means of bolt joint.