
DEVELOPING A METHODOLOGY FOR CALCULATING DISTRIBUTION SYSTEM PARAMETERS OF AN EXTRA CAPACITY AXIAL PISTON ROTOR PUMP FOR HYDRAULIC CIRCUITS OF HEAVY AIRCRAFT

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Abstract

The study considers special measures taken to decrease pressure pulsations in hydraulic drive pumps. We wrote programs to compute the parameters of a pump featuring a new distribution design. We calculated several distribution variants with extra capacity and compared the design we suggest to the traditional one

Keywords

Axial piston pump, distribution system, irregularity of discharge, pressure pulsation, extra capacity, swash plate, displacement pump, hydraulic drive system, constant power, timing

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