

CALCULATION AND EXPERIMENTAL STUDY
OF THE RETRACTING FORCE FOR MAGNETIC
SPRINGS OF TWO TYPES

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S u m m a r y

Designs for magnetic springs of two types have been proposed, and the methods of calculation of their retracting forces have been developed. Formulas are obtained for the retracting force in the main section of spring force characteristics. Experimental data are in good agreement with the results of theoretical calculations. The force characteristics of the proposed magnetic spring constructions can be varied for a specific application. The derived formulas are verified experimentally. Ways to change the force characteristics of magnetic springs according to specific requirements are demonstrated.