



Concretion, design and realization of an electromagnet used to action the sliding valves of a vacuum distributor

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The paper presents the practical realization way of a plunger type electromagnet, design and realized by the author. Such an electromagnet is used to action the sliding valves of a vacuum distributor (pulsator). In a first stage were determine some parameters necessary for designing of this type of electromagnet, by using a suitable concretion breviary. It was made a preliminary calculation, followed by a dimensional one for coil and a calculation for the size of magnetic circuit. The second stage is represented by the constructive realization of electromagnet on the basis of done calculations. Are presented aspects connected with the used materials and also the applied constructive solutions. In the final part of the paper are presented some dates regarding the test, in laboratory conditions, of this plunger type electromagnet.