

Title (en)

METHOD FOR CONTROLLING THE DRIVE MOTOR OF A POSITIVE-DISPLACEMENT VACUUM PUMP

Title (de)

VERFAHREN ZUR STEUERUNG EINES ANTRIEBSMOTORS EINER VAKUUM-VERDRÄNGERPUMPE

Title (fr)

PROCEDE POUR COMMANDER UN MOTEUR D'ENTRAINEMENT D'UNE POMPE DE REFOULEMENT A VIDE

Publication

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Application

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Abstract (en)

[origin: WO2005050021A1] The invention relates to a method for controlling the drive motor of a positive-displacement vacuum pump, comprising the following steps: storing a curve (32) that indicates a speed value n of the drive motor for an input pressure value p, said curve (32) comprising: an upper range (34) for input pressure values p that are greater than or equal to an upper threshold pressure p1, with which a single constant upper speed value n1 is associated, and a range of alteration (36) for input pressure values p smaller than the upper threshold pressure p1, wherein various speed values nv are associated with the input pressure values p in the range of alteration: determining the input pressure value p, determining the speed n associated with the input pressure value p in the curve (32) and operating the drive motor with the determined speed n. The inventive method which provides for a range of alteration allows operation of the positive displacement pump at a speed at which the effective displacement capacity of the displacement pump is maximal.

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