

Title (en)
LIQUID RING VACUUM PUMP WITH CAVITATION REGULATION

Title (de)
FLÜSSIGKEITSRING-VAKUUMPUMPE MIT KAVITATIONSREGELUNG

Title (fr)
POMPE À VIDE À ANNEAU LIQUIDE POURVUE D'UN RÉGLAGE DE CAVITATION

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Abstract (en)
[origin: WO2013087708A2] The invention relates to a method for operating a liquid ring vacuum pump in which vibration measurements of the pump are taken and compared with a prescribed cavitation threshold (26). In addition, a measurement representing the liquid content in the gas to be conveyed is taken. This measurement is compared with a prescribed threshold. The rotational speed of the liquid ring vacuum pump is reduced if the prescribed cavitation threshold (26) has been exceeded and the liquid content is less than the prescribed threshold. The rotational speed is increased if the prescribed cavitation threshold has been exceeded and the liquid content is greater than the prescribed threshold. The invention also relates to a liquid ring vacuum pump designed for implementing the method. Due to the regulation depending on the oscillations of the pump in accordance with the invention, the pump can be operated near the cavitation boundary without any risk of damage.

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