

Operating method for a pump, in particular for a multiphase pump, and pumpAbstract:

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An operating method for a pump, in particular for a multiphase pump, for conveying a fluid from a low-pressure side to a high-pressure side is provided, wherein a return line (8) is provided for returning the fluid from the high-pressure side to the low-pressure side, in which method a control valve (9) in the return line (8) is controlled by means of a surge control unit (4) for avoiding an unstable operating state, said control valve controlling the throughflow through the return line (8), wherein a limit curve (60, 60') for a control parameter is stored in the surge control unit (4), an actual value of the control parameter is compared with the limit curve (60, 60') during the operation of the pump and wherein, as soon as the actual value of the control parameter reaches the limit curve (60, 60'), the control valve (9) in the return line (8) is controlled such that the actual value of the control parameter is moved away from the limit curve (60, 60') and wherein an operating parameter of the pump (1) is used as the control parameter. A corresponding pump, in particular a multiphase pump (1), is furthermore proposed.

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(Fig. 1)