

TRANSPORT PHENOMENA & FLUID MECHANICS

用射流技术提高离心泵的汽蚀性能

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摘要: Improving the suction performance of centrifugal pumps by using jetting device is presented. The theoretical analysis, experimental study and engineering implementation show that suction performance of centrifugal pump can be improved with jetting device and be used for delivering the liquid media requiring high suction performance, whereas the efficiency and head of the pump will decrease a little. The effect of feed-back jetting on suction performance is the most obvious at design point. The suitable rate of feed-back flow is 2%-5%.

关键词: 射流技术, 离心泵, 汽蚀性能, 喷射装置, NPSH<sub>3</sub>

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Improving Suction Performance of Centrifugal Pumps by Using Jetting Device

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Key words: centrifugal pump, suction performance, jetting device.

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