



HIGH FLOW

Causing a greater velocity increase into the impeller eye and higher pressure drop at the pump inlet.



LOW FLOW

Increase in temperature of fluid due to energy being transferred from impeller and friction from the casing as well as circulation flow from wear rings.



SUCTION PRESSURE

Low suction pressure caused by system design, clogged inlet filter or air ingress

6 CAUSES OF LOW NPSHA LEADING TO CAVITATION



FLUID HEATING

Unexpected heating of pumped fluid meaning NPSHA reduced



INCREASED FLOW

Pump wear due to increasing in tolerances between parts causing increased impeller flow and circulation. A pumps NPSHR may increase by 50% due to a doubling of wear ring clearances



PARALLEL FLOW

Mismatching of pumps connected to common suction manifold where one pump suffers from increased pump wear with one pump taking a higher proportion of the flow.



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