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# **REVIEW ON CAVITATION ANALYSIS IN PIPES**

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#### Abstract

When any fluid's local pressure reaches a level lower than the saturation vapor pressure at ambient temperature, cavitation bubbles begin to form. Along with the fluid flow they are driven to the points of high pressure where they collapse quickly. As the fluid pressure becomes less than saturation pressure, dissolved gases will be released from the fluid . These air bubbles will then suddenly collapse when the flow enters into a region of higher pressure. This results in a high dynamic pressure which damages the pipelines because of its high frequency. Prolonged cavitation in pipes may lead to severe problems. If left unattended, the results of cavitation can be disastrous, as it eats away the pipe and creates vibration that will cause the pipe to burst. In the present paper, a brief review on the general features of cavitation phenomenon and various aspects related to cavitation in pipes are discussed.

#### **Author Keywords**

Cavitation, Saturation pressure, Cavitation bubbles, Pipelines.

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