

EXPERIMENTAL STUDY OF THE AIR PHASE DEVELOPMENT IN A VENTURI

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ABSTRACT

This paper aimed to present an experimental study carried on a transparent venturi in order to observe how the air phase caused by the throat evolutes for different coming flows. This throat leads to a decreasing of pressure until a value equal to the vapor one for a given temperature. the most important parameter which will define this phenomenon is the cavitation number called Thoma's coefficient calculated from tests measures .this number is related to the Reynolds number and the length of the developed white section.

KEYWORDS: Cavitation, Venturi, Throat, Pressure, Thoma's Number