

CASE STUDY

FLUID CODES

 SOFTWARE  SUPPORT  TRAINING  CUSTOMIZATION

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CFD ANALYSIS OF INTAKE MANIFOLD

CHALLENGES

A CFD analysis of a manifold was performed in order to understand if there was any significant stagnant zone and low velocity regions, which are difficult to acquire from experimental techniques.

ENGINEERING SOLUTION

Alternative designs were suggested in order to reduce stagnation areas there by increasing the efficiency of the intake manifold.

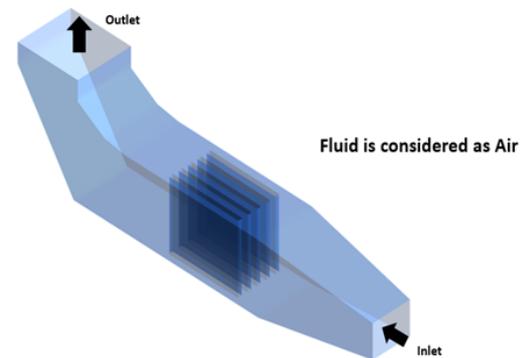


Figure 1. The water entrance system

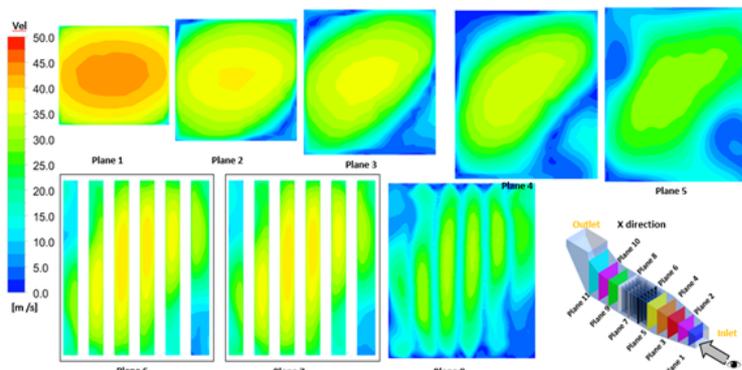


Figure 2. Velocity & Contours on different planes in X Direction

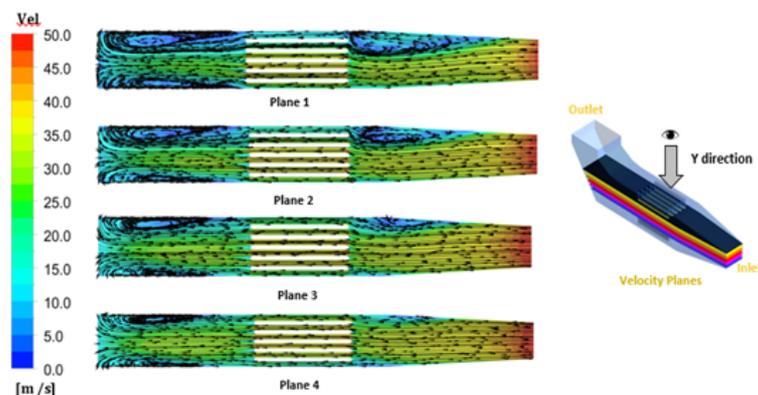


Figure 3. Velocity & Contours on different planes in Y Direction