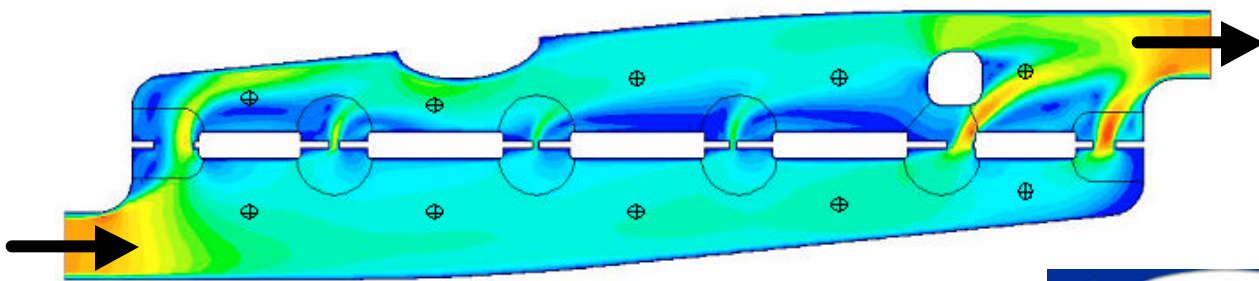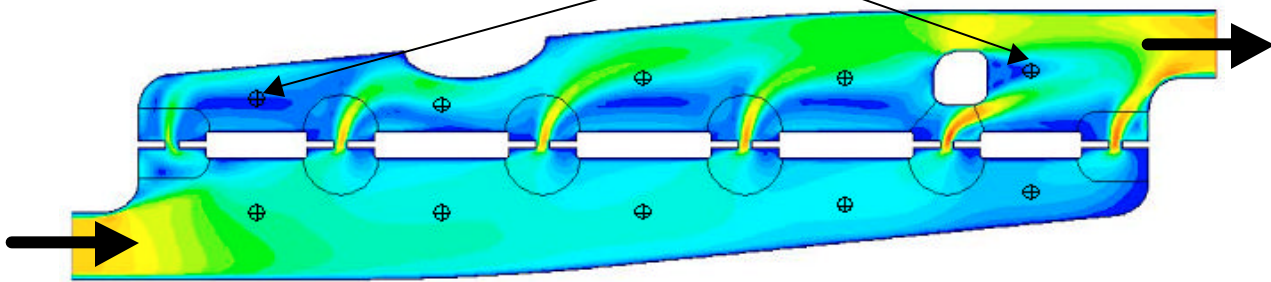# *VisualDOC/FLUENT* Geometric Fluid Hole Location Optimization
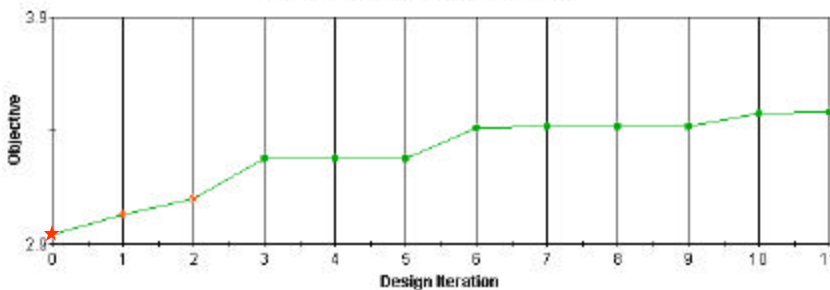
VisualDOC will maximize the fluid velocity averaged at ten selected locations by varying the hole diameters and the hole locations (offset from center). Design constraints are defined such that all ten response locations must satisfy given minimum velocity requirements.

Initial Hole Geometry Does Not Satisfy Minimum Velocity Constraints at Two Locations Where the Fluid Flow is Stagnant

Optimized Z-Flow Cooling Configuration shows the Velocity Design Constraints at 10 locations are all Satisfied and the Avg. Velocity Objective has been Maximized.

Determine hole geometry that satisfies minimum fluid velocity constraints at 10 locations

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