

Comparison Analysis of CFD Turbulence Fluid Numerical Study for Quick Coupling

Authors : JoonHo Lee, KyoJin An, JunSu Kim, Young-Chul Park

Abstract : In this study, the fluid flow characteristics and performance numerical study through CFD model of the Non-split quick coupling for flow control in hydraulic system equipment for the aerospace business group focused to predict. In this study, we considered turbulence models for the application of Computational Fluid Dynamics for the CFD model of the Non-split Quick Coupling for aerospace business. In addition to this, the adequacy of the CFD model were verified by comparing with standard value. Based on this analysis, accurate the fluid flow characteristics can be predicted. It is, therefore, the design of the fluid flow characteristic contribute the reliability for the Quick Coupling which is required in industries on the basis of research results.

Keywords : CFD, FEM, quick coupling, turbulence

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