



# Flow Analysis Of Butterfly Valve Using Cfd

**Sandeep Nema, John D. Ludwig**



## **Flow Analysis Of Butterfly Valve Using Cfd:**

Computational Fluid Dynamics Analysis of Butterfly Valve Performance Factors Adam Del Toro, 2012 Butterfly valves are commonly used to control fluid flow inside of piping systems A butterfly valve typically consists of a metal disc formed around a central shaft which acts as its axis of rotation As a butterfly valve is rotated open fluid is able to more readily flow past the valve A butterfly valve s design is important to understand and is commonly characterized by its own performance factors How a butterfly valve will perform while in operation at different opening angles and under different types of flow is critical information for individuals planning and installing piping systems involving the valve Performance factors common to a butterfly valve include the following pressure drop hydrodynamic torque flow coefficient loss coefficient and torque coefficient While these values can usually be obtained experimentally it is sometimes not feasible or possible to calculate the performance factors of some butterfly valves Another method wherein butterfly valve performance factors can be obtained is by using Computational Fluid Dynamics CFD software to simulate the physics of fluid flow in a piping system around a butterfly valve This study sought to compare experimental and simulated CFD performance factors of a 48 inch diameter butterfly valve for various valve openings and flow conditions in order to determine the validity of using CFD to predict butterfly valve performance factors It was found that for mid open butterfly valve positions 30 60 degrees CFD was able to appropriately predict common performance factors for butterfly valves For lower valve angle cases 10 20 degrees CFD simulations failed to predict those same values while higher valve angles 70 90 degrees gave mixed results

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