

Title	Effect of nozzle external geometry on the pressure and shear stress exerted on the surface being gauged in fluid dynamic gauging
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Summary paragraph	Computational studies of the effect of the shape of the nozzle of the fluid dynamic gauging technique on the shear stress and pressure profiles imposed on the fouling layers. This work aims identify the optimal designs for designs for thickness and/or strength measurement.
Novel/notable aspects	Optimal geometry of nozzle for cleaning
Flow key words	Thickness; strength; shear stress
Cleaning type/key words	Cohesive removal; adhesive removal; shearing;
Field/background	Chemical engineering; mechanical engineering
Theory/method/analysis key words	Momentum balances; geometry of nozzle;