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Engineering Fluid Mechanics 7 Notation Notation

Symboldefinition units
A area m^2 D diameter m F force N g
gravitational acceleration m/s^2 h head or height m L length
 m m mass kg P pressure Pa or N/m^2 ΔP pressure difference
 Pa or N/m^2 Q volume flow rate m^3/s r radius m t time s
V velocity m/s

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Fluid mechanics is a branch of continuous mechanics, in which the kinematics and mechanical behavior of materials are modeled as a continuous mass rather than as discrete particles. The relation of fluid mechanics and continuous mechanics has been discussed by Bar-Meir (2008). In fluid mechanics, the continuous domain does not hold certain shapes and geometry like solids, and in many applications, the density of fluid varies with time and position.

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