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NOMENCLATURE

D	Repulsive force parameter
g	Gravity constant (m/s ²)
h	Smoothing length (m)
L ₀	Initial particle distance(m)
m	Mass (kg)
P	Pressure (Pa)
r	Position vector (m)
t	Time (s)
T	Non dimensional time (s)
u,v	Horizontal velocity, Vertical velocity (m/s)

Greek symbols

α	Upstream to downstream ratio
$\dot{\gamma}$	Shear strain rate (s ⁻¹)
ϵ	XSPH factor
μ	Viscosity (N.s/m ²)
μ_{eff}	Effective viscosity (N.s/m ²)
ρ	Density (kg/m ³)
τ	Shear stress (Pa)
τ_B	Yield (Pa)