

BuoyantBoussinesqSimpleFoam BC

What variables to define as far as BuoyantSimpleFoam is concerned?

→ α , ϵ , k , ν , p , p_{rgh} , T , U

Variable	Wall	Inlet	Outlet
α	α WallFunction	-calculated can also test : zeroGradient	Calculated
ϵ	ϵ WallFunction or zeroGradient	FixedValue	InletOutlet
k	k WallFunction or zeroGradient	FixedValue	InletOutlet
ν	ν WallFunction	calculated	calculated
p	calculated	calculated	calculated
p_{rgh}	fixedFluxPressure	fixedFluxPressure	totalPressure (derived from fixedValue) FixedValue
T	ZeroGradient or groovyBC	fixedValue	inletOutlet ZeroGradient
U	fixedValue	FlowRateInletVelocity or fixedValue	PressureInletOutletVelocity inletOutlet