INPUT DATA

Global Mesh Settings

Automatic initial mesh: On

Result resolution level: 3

Advanced narrow channel refinement: Off

Geometry Resolution

Evaluation of minimum gap size: Automatic

Evaluation of minimum wall thickness: Automatic

Computational Domain

Size

|  |  |
| --- | --- |
| X min | -0.685 m |
| X max | 0.685 m |
| Y min | -0.763 m |
| Y max | 0.754 m |
| Z min | -0.685 m |
| Z max | 0.685 m |
| X size | 1.370 m |
| Y size | 1.517 m |
| Z size | 1.370 m |

Boundary Conditions

|  |  |
| --- | --- |
| 2D plane flow | None |
| At X min | Default |
| At X max | Default |
| At Y min | Default |
| At Y max | Default |
| At Z min | Default |
| At Z max | Default |

Physical Features

Heat conduction in solids: Off

Time dependent: Off

Gravitational effects: Off

Rotation: Off

Flow type: Laminar only

Cavitation: Off

High Mach number flow: Off

Free surface: Off

Default roughness: 0 micrometer

Default wall conditions: Adiabatic wall

Ambient Conditions

|  |  |
| --- | --- |
| Thermodynamic parameters | Static Pressure: 101325.00 Pa  Temperature: 293.20 K |
| Velocity parameters | Velocity vector  Velocity in X direction: 0 m/s  Velocity in Y direction: 2.000 m/s  Velocity in Z direction: 0 m/s |

Material Settings

Fluids

[Water](#7E8092322837442394B74ECA34FDEB25)

Goals

Global Goals

GG Force (Y) 1

|  |  |
| --- | --- |
| Type | Global Goal |
| Goal type | Force (Y) |
| Coordinate system | Global coordinate system |
| Use in convergence | On |

GG Average Static Pressure 2

|  |  |
| --- | --- |
| Type | Global Goal |
| Goal type | Static Pressure |
| Calculate | Average value |
| Coordinate system | Global coordinate system |
| Use in convergence | On |

GG Average Total Pressure 3

|  |  |
| --- | --- |
| Type | Global Goal |
| Goal type | Total Pressure |
| Calculate | Average value |
| Coordinate system | Global coordinate system |
| Use in convergence | On |

GG Average Velocity (Y) 4

|  |  |
| --- | --- |
| Type | Global Goal |
| Goal type | Velocity (Y) |
| Calculate | Average value |
| Coordinate system | Global coordinate system |
| Use in convergence | On |

GG Normal Force (Y) 5

|  |  |
| --- | --- |
| Type | Global Goal |
| Goal type | Normal Force (Y) |
| Coordinate system | Global coordinate system |
| Use in convergence | On |

GG Friction Force 6

|  |  |
| --- | --- |
| Type | Global Goal |
| Goal type | Friction Force |
| Coordinate system | Global coordinate system |
| Use in convergence | On |

Calculation Control Options

Finish Conditions

|  |  |
| --- | --- |
| Finish Conditions | If one is satisfied |
| Maximum travels | 4 |
| Goals convergence | Analysis interval: 5e-01 |

Solver Refinement

Refinement: Disabled

Results Saving

|  |  |
| --- | --- |
| Save before refinement | On |

Advanced Control Options

Flow Freezing

|  |  |
| --- | --- |
| Flow freezing strategy | Disabled |

Engineering Database

Liquids

Water

Path: Liquids Pre-Defined

Density

Dynamic viscosity

Specific heat (Cp)

Thermal conductivity

Cavitation effect: Yes

Temperature: 0 K

Saturation pressure: 0 Pa

Radiation properties: No