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| --- | --- | --- | --- |
| *[Company logo here]* | | | Description: Description: sw_vert_gray_short |
| [company name here] | [city, state here] | [company url here] | Fluid Flow Simulation Project Report |
| |  |  |  |  | | --- | --- | --- | --- | | [name] ∙ | [title] | ∙ ∙ [email address] ∙ | (###) ###-#### | | | | |
| **SOLIDWORKS Flow Simulation**  **Project Report**  March 26, 2014  *[Model Picture here]* | | | |
| [**Learn more about SOLIDWORKS Flow Simulation**](https://www.solidworks.com/sw/products/simulation/flow-simulation.htm) | | | |

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# General Information

Objective of the simulation: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut a pulvinar lacus. Vivamus adipiscing adipiscing eleifend. Pellentesque eget ante in ante suscipit gravida in non lorem. Suspendisse hendrerit sagittis lacus non aliquam. Proin pellentesque, lorem quis consequat porta, lectus nunc vestibulum lectus, nec rhoncus libero dui ut felis. Vestibulum eu aliquet tellus. Curabitur suscipit ornare sem. Suspendisse pulvinar pharetra ultrices. Suspendisse a quam massa

## Analysis Environment

Software Product: Flow Simulation 2019 SP1.0. Build: 4429

CPU Type: Intel(R) Core(TM) i5-7200U CPU @ 2.50GHz

CPU Speed: 2701 (400) MHz

RAM: 8060 MB / 134217727 MB

Operating System: Windows 10 (or higher) (Version 10.0.17134)

## Model Information

Model Name: chain assembly\_a\_3.SLDASM

Project Name: Project(1)

## Project Comments:

Unit System: SI (m-kg-s)

Analysis Type: External (not exclude internal spaces)

## Size of Computational Domain

Size

|  |  |
| --- | --- |
| X min | -0.344 m |
| X max | 0.482 m |
| Y min | -0.209 m |
| Y max | 0.301 m |
| Z min | -0.189 m |
| Z max | 0.299 m |
| X size | 0.826 m |
| Y size | 0.509 m |
| Z size | 0.488 m |

## Simulation Parameters

### Mesh Settings

#### Basic Mesh

#### Analysis Mesh

Total Cell count:

Fluid Cells:

Solid Cells:

Partial Cells:

Trimmed Cells:

#### Additional Physical Calculation Options

Heat Transfer Analysis: Heat conduction in solids: Off

Flow Type: Laminar only

Time-Dependent Analysis: On

Gravity: On

Radiation:

Humidity:

Default Wall Roughness: 0 micrometer

### Material Settings

Material Settings

Fluids

[Water](#86DAB8844FED4D5590AB059E3EDC6888)

### Initial Conditions

Ambient Conditions

|  |  |
| --- | --- |
| Thermodynamic parameters | Static Pressure: 5930.00 Pa  Temperature: 298.00 K |
| Velocity parameters | Velocity vector  Velocity in X direction: 0.250 m/s  Velocity in Y direction: 0 m/s  Velocity in Z direction: 0 m/s |

### Boundary Conditions

Boundary Conditions

Real Wall 1

|  |  |
| --- | --- |
| Type | Real wall |
| Faces | skin\_3dpa-1/Shell1//Face skin\_3dpa-1/Shell1//Face nose\_3dpa-1/Sweep1//Face skin\_3dpa-1/Shell1//Face skin\_3dpa-1/Shell1//Face skin\_3dpa-1/Shell1//Face skin\_3dpa-1/Shell1//Face ch\_head-1/Cut-Sweep1//Face skin\_3dpa-1/Shell1//Face nose\_3dpa-1/Sweep1//Face |
| Coordinate system | Global coordinate system |
| Reference axis | X |

### Volumetric Heat Sources

### Engineering Goals

## Analysis Time

Calculation Time: 0 s

Number of Iterations: 0

Warnings:

# Results

## Analysis Goals

## Global Min-Max-Table

## Results

## Conclusion

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# Appendix

## Material Data

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