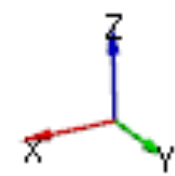
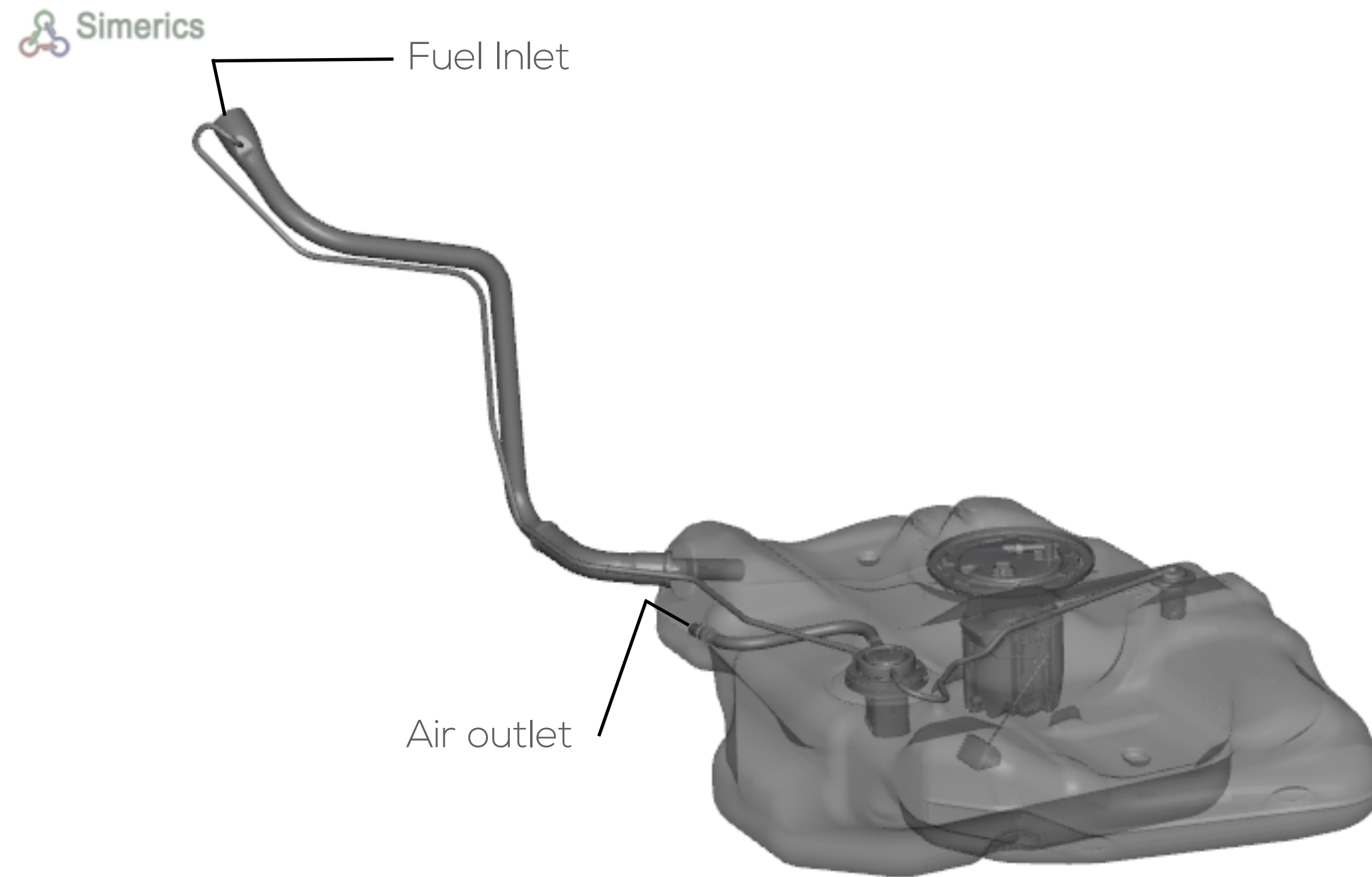


# SimericsMP<sup>®</sup> -Template Example

Tank-Filling: Modelling Domain

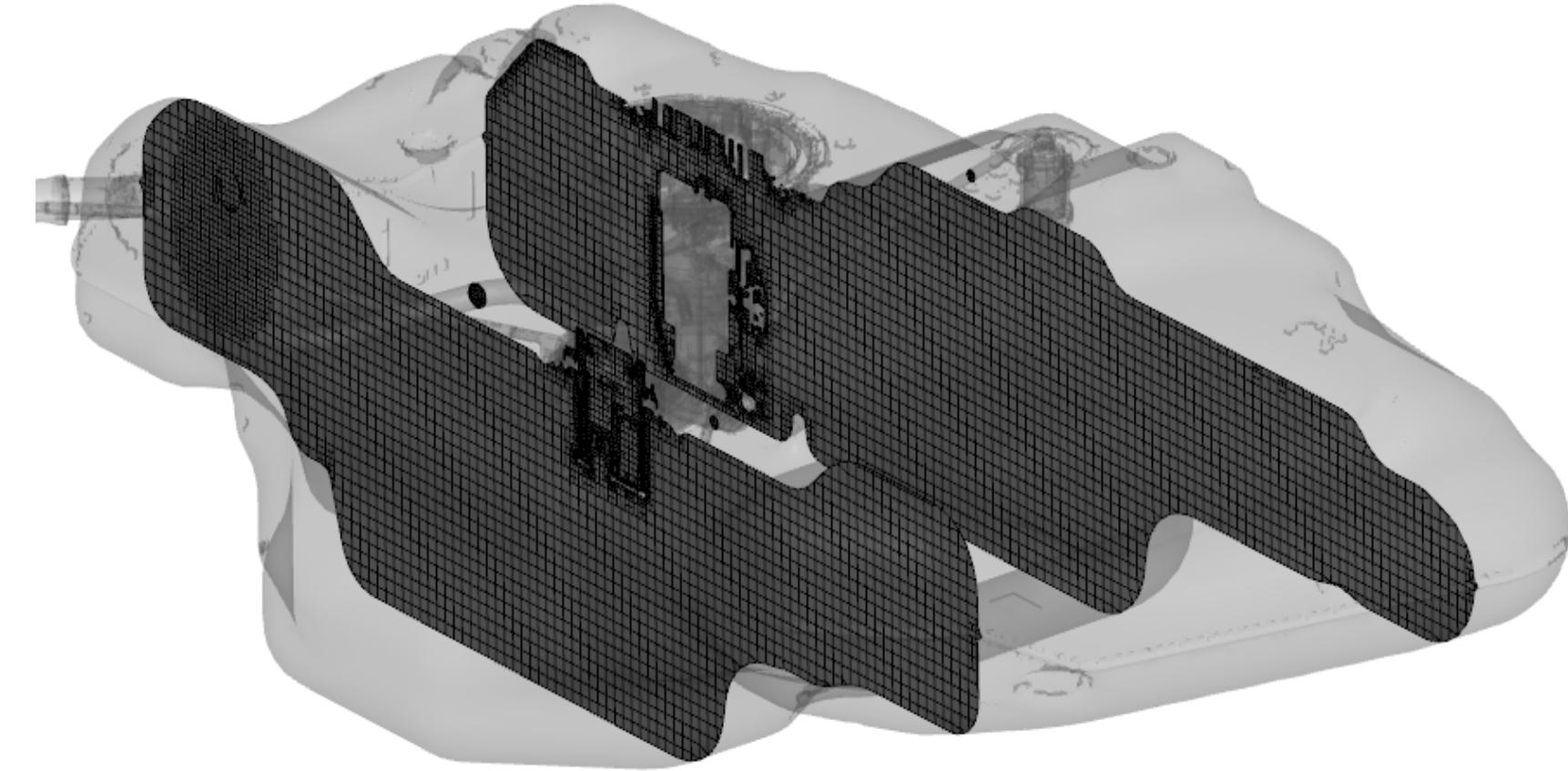


# SimericsMP<sup>®</sup> -Template Example

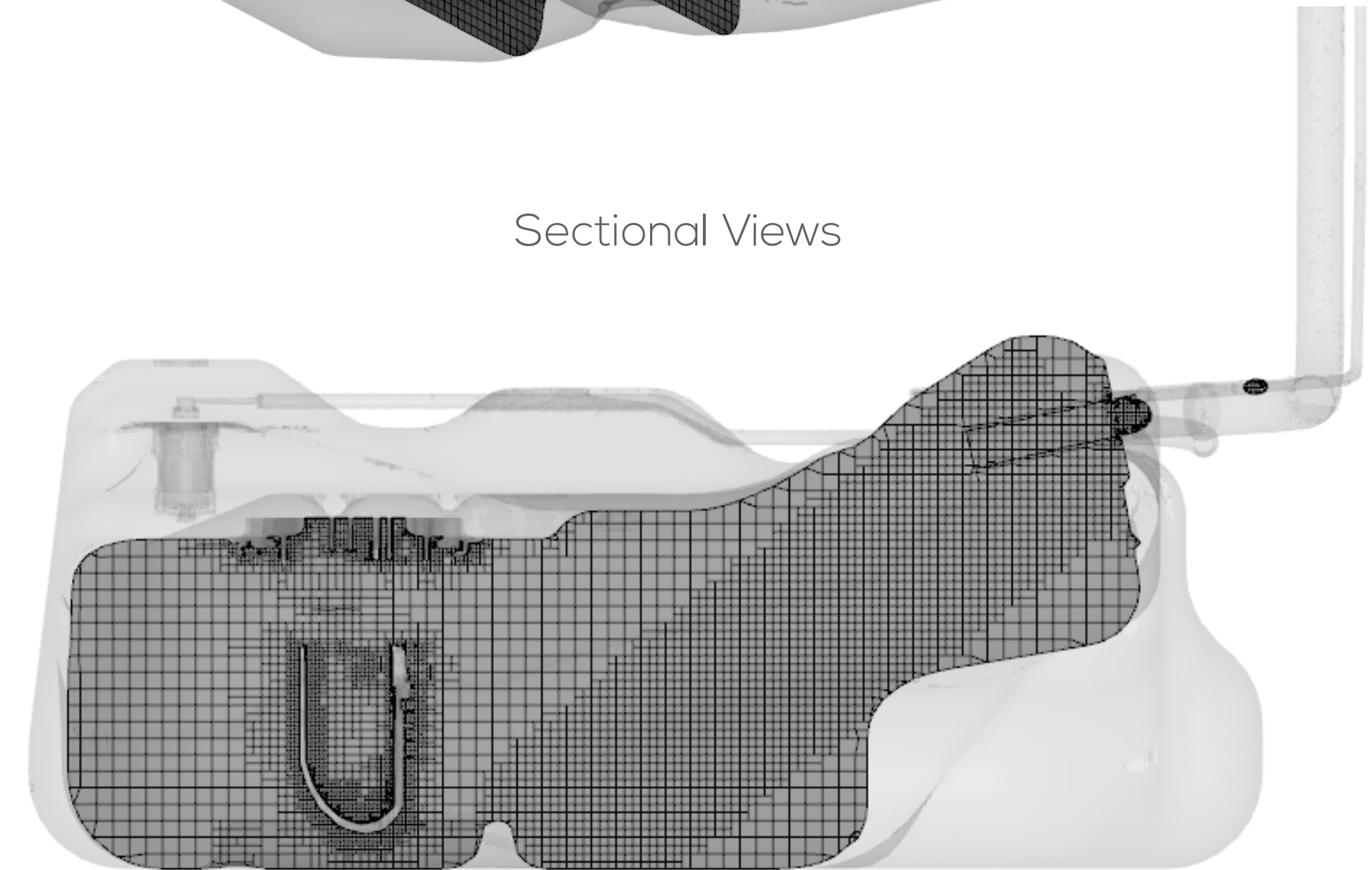
## Tank-Filling: Meshing

 Simerics

External View



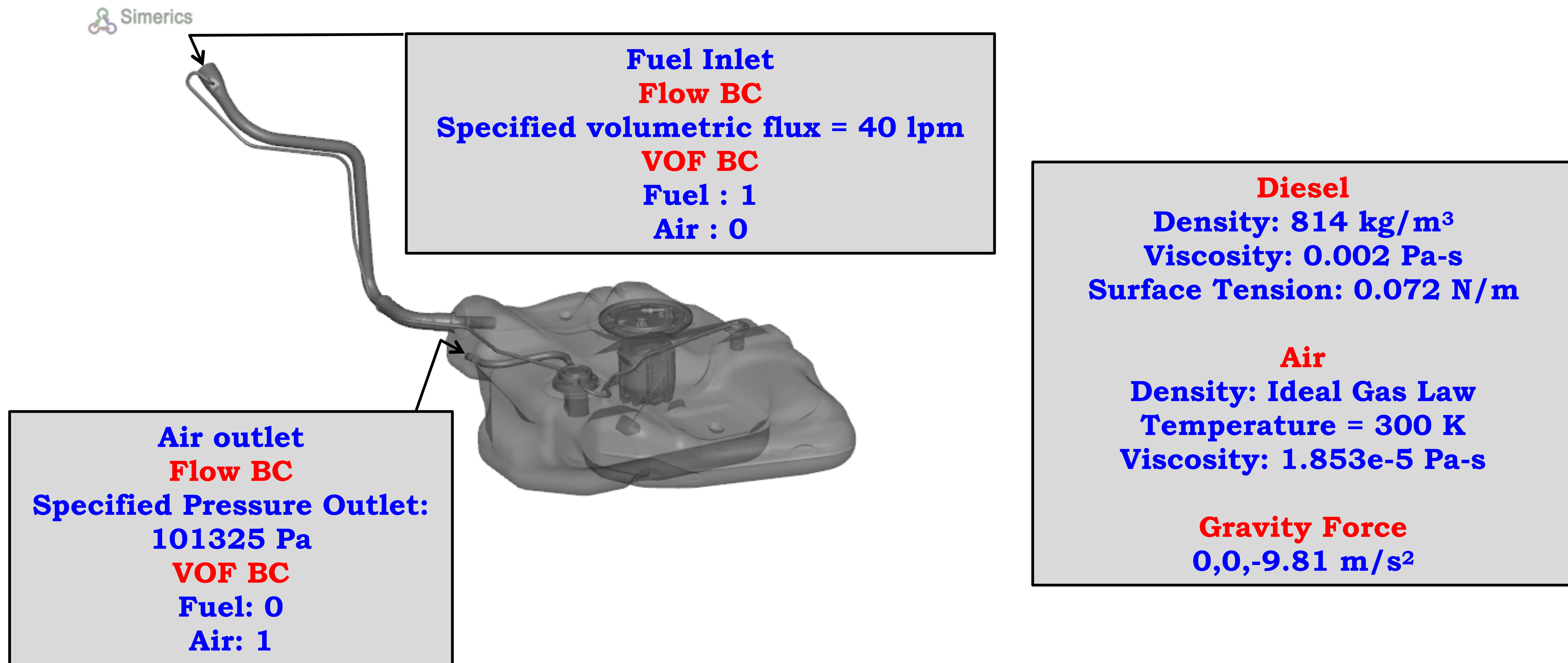
Sectional Views



- Mesh size : 0.8 million cells
- Meshing : Fully automated
- Can handle overlaps, small gaps, complexities
- Model Setup : 30 minutes (no Valve)
- Model Setup: 60 minutes (moving Valve)

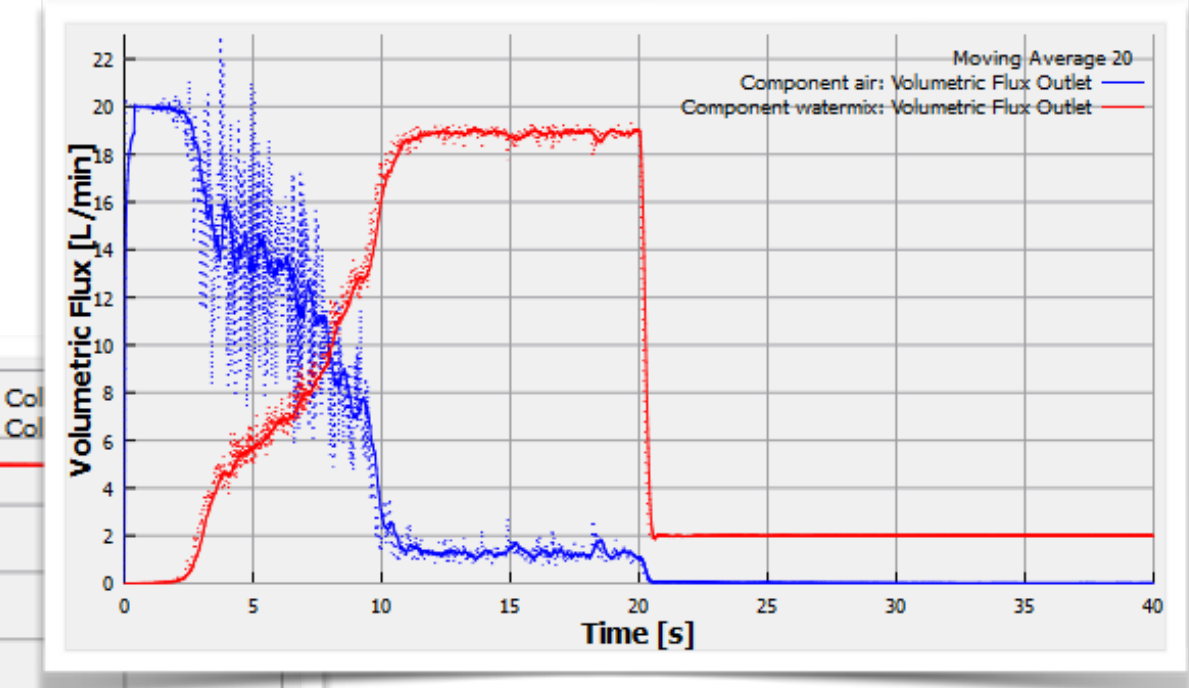
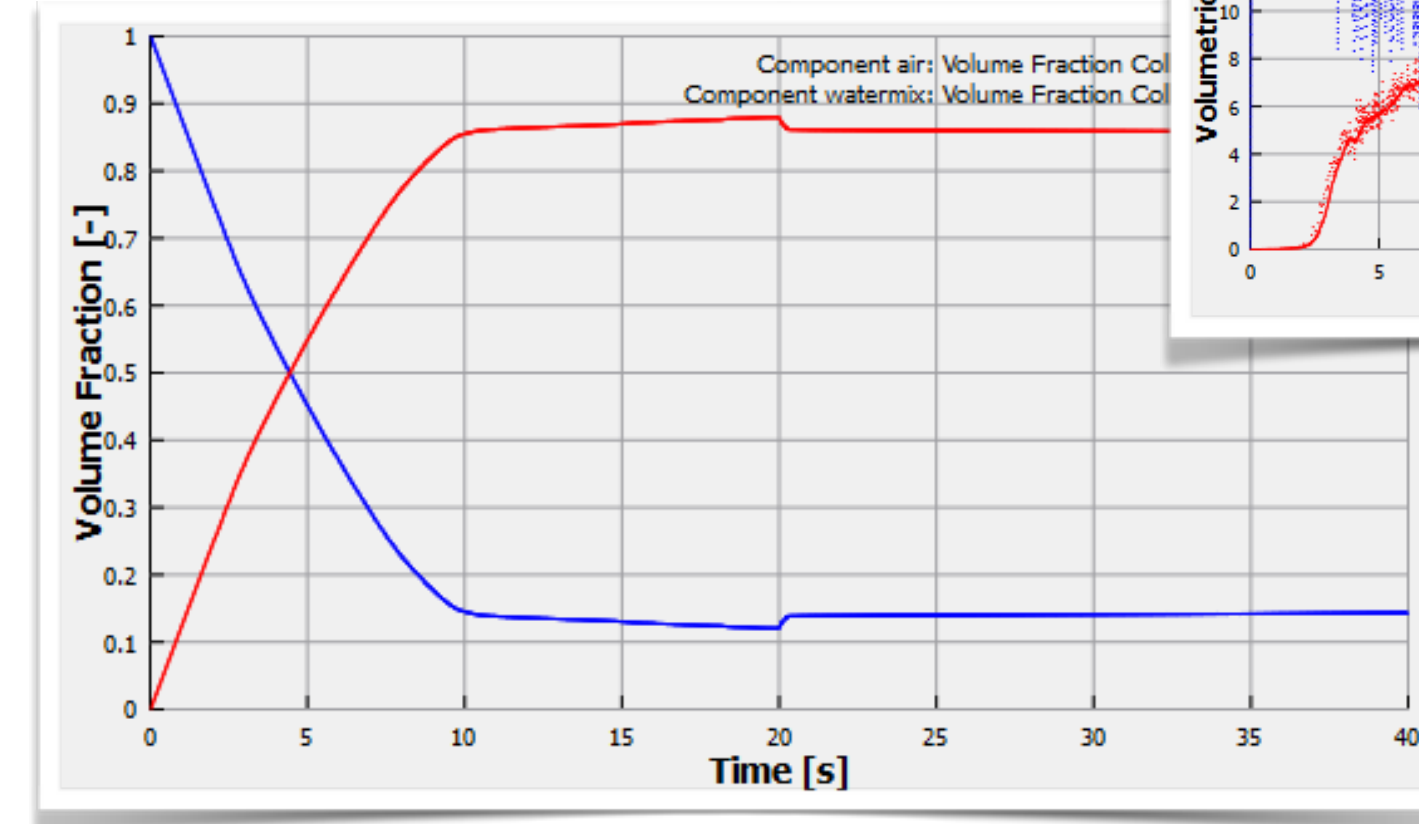
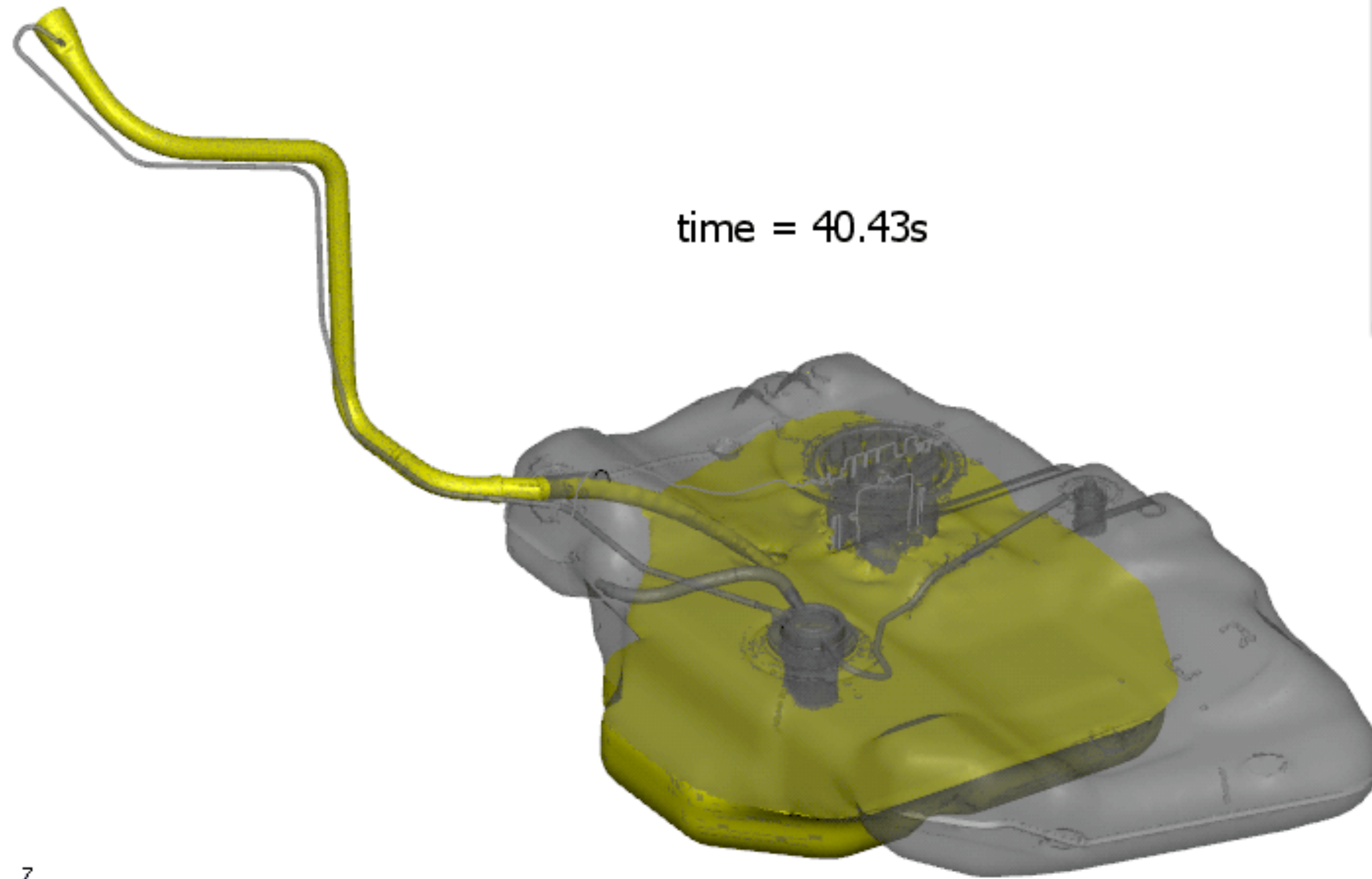
# SimericsMP® -Template Example

Tank-Filling: Model Set-up

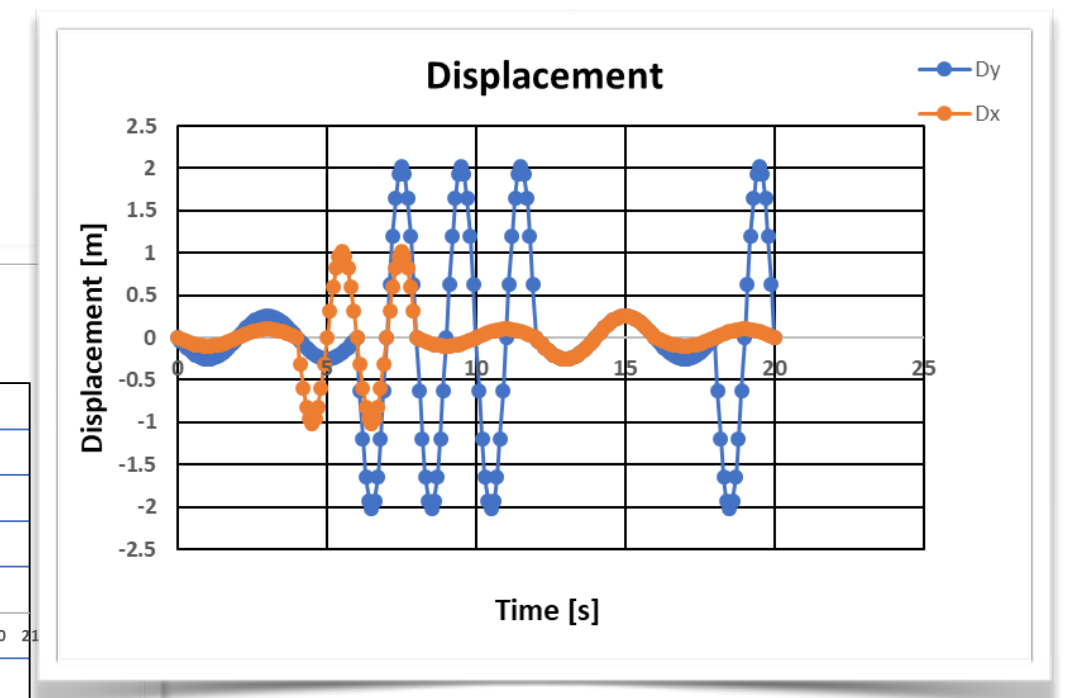
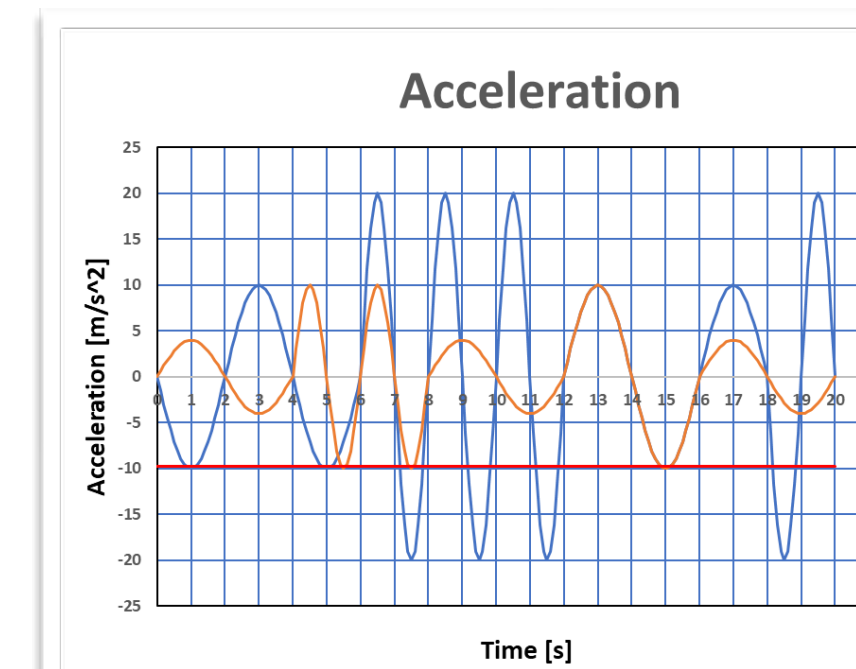


# SimericsMP® -Template Example

## Tank-Filling: Results



Automatic Export to Excel



# Time Estimates

Tank-Filling: CPU Cost

**Simulations carried out on Intel Xeon CPU 2.2 GHz  
processor with 8 cores**

## EXPLICIT METHOD

With or Without Moving Valve

<b>Integration Time</b>	<b>0.01 secs (360000 Time Steps !!!)</b>
<b>Simulation Time</b>	<b>1 minute</b>
<b>Run Time</b>	<b>70 - 80 hours</b>