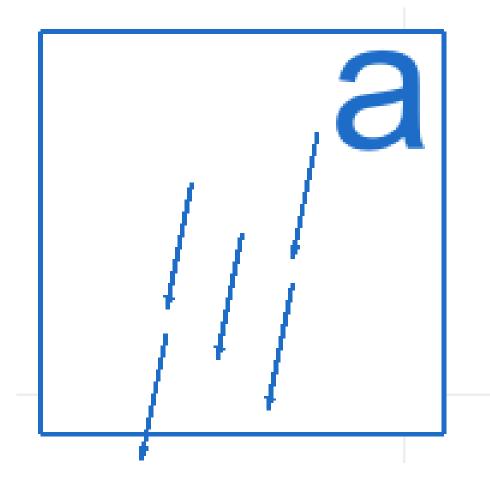
## Adding dynamic gravity for tanks

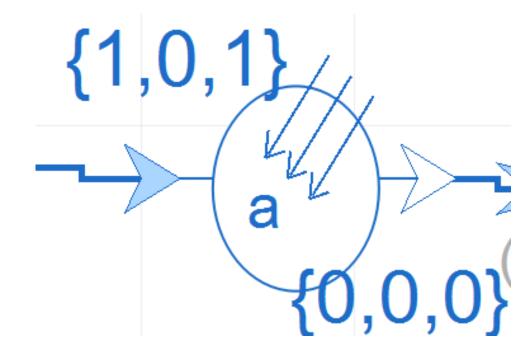
- Boundaries.AccelerationBoundary
- Sets an acceleration field for the entire model
- Default is g in negative z-direction
- Acceleration can be set from inputs





## Adding static head

- Processes.StaticHead and
- Undirected.Processes.StaticHead
- dp = density\*acceleration\*(posTo-posFrom)
- The pressure at the outlet is limited to pmin.
- Note that in a closed loop, at least two are needed to get back to original position and avoid a perpeteuum mobile.





## Adding dynamic gravity for tanks

- Boundaries.CuboidTank and
- Undirected.Boundaries.CuboidTank
- Limited to new GasAndIncompressible base class of media at the moment.
- Geometry is separated from media equations, which means arbitrary geometry is possible.
- A simple cuboid is implemented
- The surface nx\*x+ny\*y+nz\*z+D is located by D = f(nx,ny,nz,V\_liquid, geometry)
- StaticHead is computed for all connections pos\*{nx,ny,nz}+D
- Special care for connectors at the boundary

