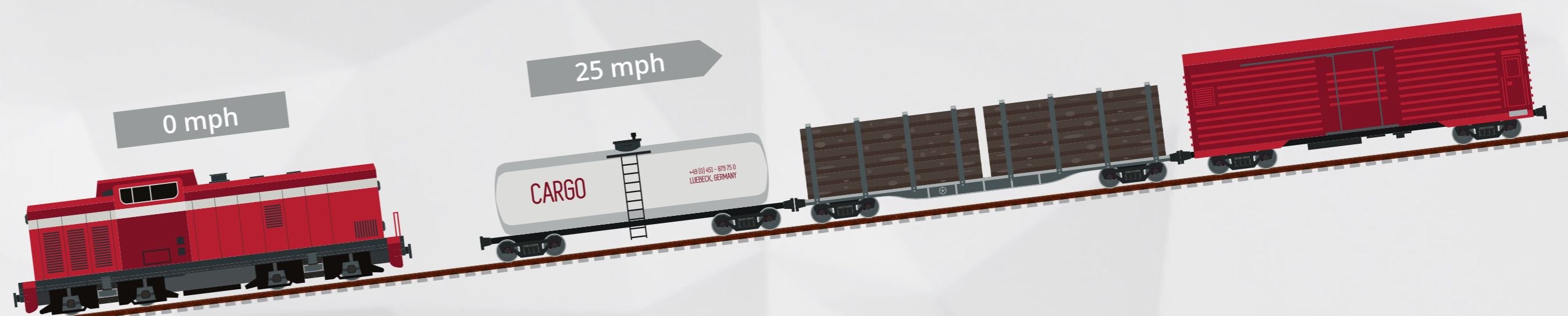


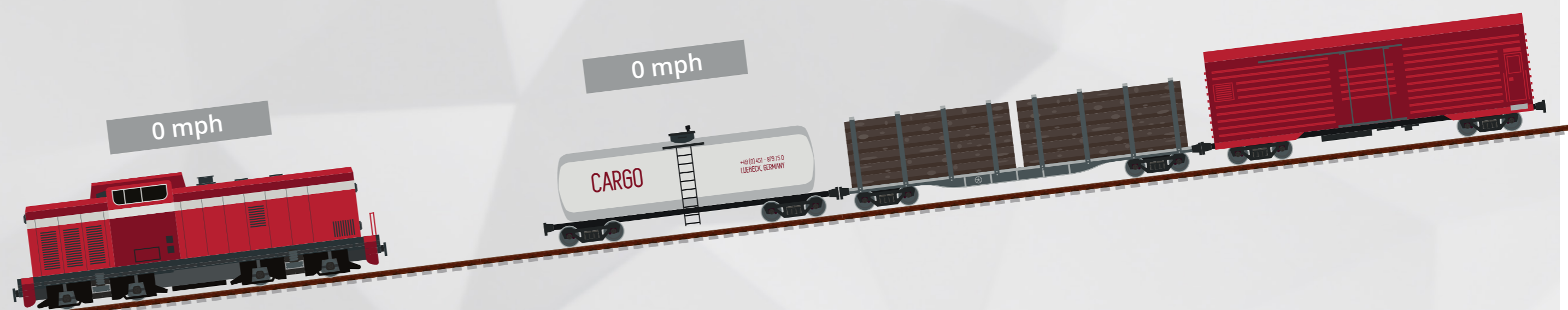
The pump works normally.



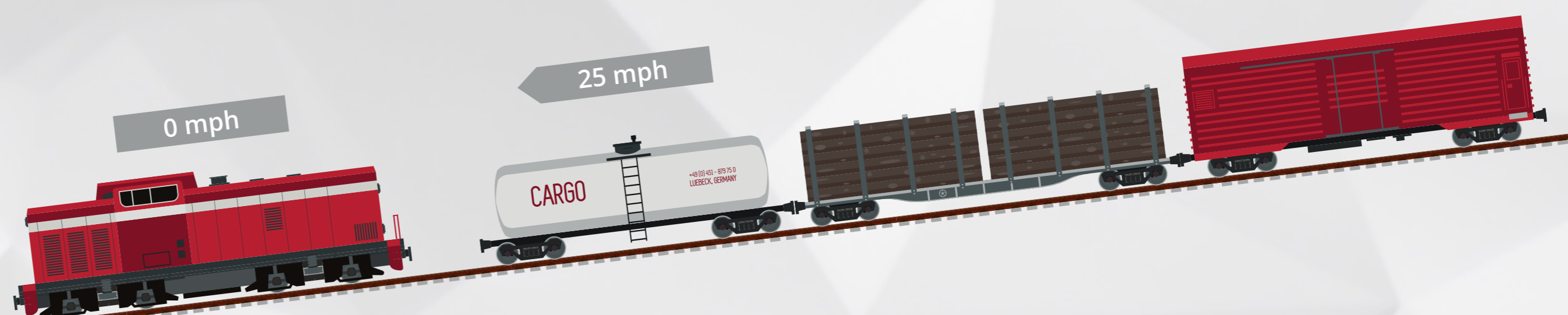
The pump stops, the flow keeps going forward because of the moment, the pressure in the pipeline just behind the pump drops, causes the lower pressure relief pilot to open, and the surge anticipating opens, which is called „anticipating“.



The pump stops for a while, the moment energy runs out and the flow keeps still instantaneously, because of the friction and the resistance of the flow rate in the pipeline.



After the pump has stopped, the flow comes back, the surge happens, the pressure in the pipeline behind the pump rises, causes the high pressure relief pilot to open, the main valve keeps open.



The surge destroys the equipments and the pipeline.



The function of the surge anticipating valve is to release the surge to another way (atmosphere).

