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Safety in Cryogenics – Safety device sizing

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It is proposed to discuss a general method for sizing the safety devices, for cryogenic fluids and whatever the thermodynamic states. In particular the interesting case of the two-phase subcritical discharge will be addressed.

The calculation is separated in three operations:

- o The estimation of the loads arriving on the component to protect,
- o The calculation of the mass flow to evacuate,
- o And the sizing of the safety device.

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