

# How to select the best safety valve for your system

Follow this step-by-step guide to pick the correct safety valve for your refrigeration system. A good safety valve protects your entire application, reduces refrigerant loss, and keeps system pressure at an optimal level.



## Select the design standard for system and safety valves

- EN 378 – system
- EN13136 – safety valve



## Evaluate the needed pressure ratings of your system

- Max working pressure
- Max reseating pressure 10 or 15%
- Set pressure



## Evaluate the needed safety valve type for your system

- Teflon, metal, or gas-tight seal

Download Coolselector®2 for free at [coolselector.danfoss.com](http://coolselector.danfoss.com)



## Use Coolselector®2 to:

- 1 Calculate and evaluate **inlet** pressure drop (i) Max 3%
- 2 Calculate and evaluate **outlet** pressure drop (i) Max 10% for standard safety valves
- 3 Calculate gas velocity in outlet line, and verify if below sonic velocity
- 4 Make the complete documentation of the safety valve documentation



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