Flash Steam from Condensate or Blowdown

11/10/2026

Project: flash-steam

Input Parameters

Upstream pressure (absolute)	40.000 bar
Flash pressure (absolute)	2.0000 bar
Condensate or blowdown flow	2,500.0 kg/h

Calculated Results

Flash steam fraction	26.470 %
Flash steam flow	661.74 kg/h
Remaining condensate flow	1,838.3 kg/h
Upstream saturation temperature	250.36 °C
Flash temperature	120.21 °C
Upstream liquid enthalpy	1,087.4 kJ/kg
Liquid enthalpy at flash pressure	504.68 kJ/kg
Latent heat at flash pressure	2,201.6 kJ/kg
Heat carried by the flash steam	404.68 kW
Flash steam volume flow	586.13 m^3/h