

# GOOD PRACTICES IN SME

## Insulating pipeline valves



*Designed by freepik*

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## Why should technological pipeline valves be insulated?

An uninsulated steel valve will generate the same heat losses as a multiple meter long uninsulated segment of the pipeline. Moreover, not insulating the valve can result in critically low medium temperatures leading in the crystallization of the medium.

## How to insulate technological pipeline valves?

Elastic and durable materials (e.g. mineral wool) should be used to in valve insulation, as well as guards enabling easy access. This minimizes the risk of damaging the valve's insulation during conservation and repair.

The insulation material should have an opening as big as the valve's protruding elements. When possible, these opening should be placed on the material's joining edges. Insulating larger elements should be done using multiple material layers. All places where the installation's elements pierce the insulation material should also be sealed with thermal insulation tape. The insulation's edges must also be secured with an aluminium cuff.



*Pic. 1 centre of the insulation: valve*



*Pic. 2 centre of the insulation: securing the valve with a layer of insulation*



*Pic. 3 centre of the insulation: securing the edges with a aluminium cuff*



*Pic. 4 centre of the insulation: a properly insulated valve*