SAVERY

Saving energy in a constant flow state

savery.eu

SAVERY VALVE INSULATION JACKETS

DESCRIPTION

Savery's insulation jacket is an armature cover that helps to prevent heat losses around the valves while maintaining easy accessibility for the operation and maintenance. A valve jacket is a simple and smart solution for valves, float steam traps and strainers to increase thermal efficiency of the system and ensure safety.

Savery's valve jackets have a physically robust design – despite of their soft and flexible structures, Savery's insulation jackets recover their thermal performance even after extremely high compression events with their excellent spring back features. High water resistance of the jackets offers a level of protection against damp.

APPLICATION AREAS

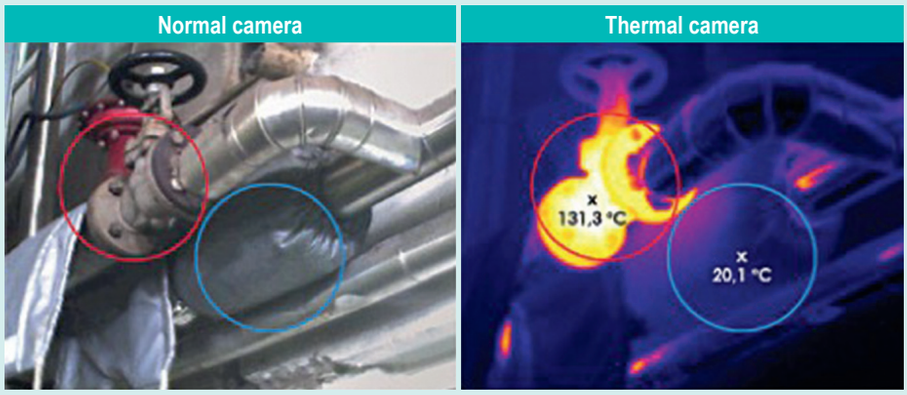
- Hot water and steam lines
- Refineries and gas processing plants
- Petro-chemical and chemical plants
- Power plants
- Military establishments
- Food and oil mills
- Textile industry
- Plastic plants
- Oil and gas processing industry
- Pharmaceutical plants
- etc.

ADVANTAGES

- Increasing thermal efficiency → reducing energy costs
- Ensuring safety → protection against injuries from hot surfaces and sharp edges
- Reducing noise level
- Fire protection
- Preventing frost on the armature

For an example, an uninsulated DN100 globe valve which is used in fluid system at 160 °C will cause approx. 1199 W energy loss hourly. With continuous processes the annual heat loss can be up to 10,5 MWh per one valve.

* Calculations are based on following assumptions: wind velocity 2 m/s, ambient temperature 25 °C, emissivity 0,95, annular operation time 8765 hours. Calculations are done for globe valve with flanges.



TECHNICAL DATA

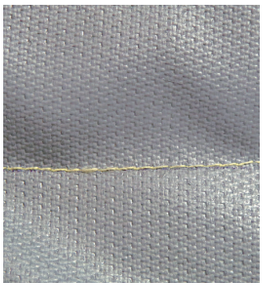
FABRIC

- Fabric type - Pyrogel XT
- Fabric thickness: 10 mm
- Max operating temperature for one fabric layer: +230 °C *
- Max operating temperature for multiple (6) fabric layers: +650°C
- Thermal conductivity value - k = 0.021 W/m·K **
- Resistance to heat flow - R = 0,476 m^2K/W
- Color: Beige
- Density: 150 kg/m^3
- Resistant to water, steam and other leakages
- Resistant to pressure and impact
- With class A fire rating

* 230 °C corresponds to 26,5 bar.g saturated steam pressure rate
** 3-5 times better k value than other similar insulation materials

ROPE

- Material: ceramic fabric
- Temperature Resistance: 1260 °C

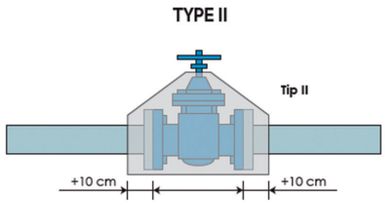


JACKET

- Jacket type:
  Inner layer - fiberglass fabric, temperature resistance: 500 °C
  Outer coat - cyclone fabric, temperature resistance: 200 °C
- Including hook-and-loop fasteners and metal wire hooks

INSTALLATION

- Depending on the armature, a suitable bag type must be ordered. For an example, image on the right shows an insulation bag for globe valves but it can fit with other valve types with similar construction – 2-way control valves, ball valves etc. There are separate bag types for dirt strainers and float steam traps. You can find different bag types and sizes on page 3. To make sure if the insulation bag fits with your armature, please contact Savery's representative.
- Installation sizes – DN15 – DN300
- Installation without the need of additional tools
- Jackets are easily removable with hook-and-loop fasteners and fastening ropes
- With higher operating temperatures multiple layers of insulation fabric can be combined to increase heat resistance



MODELS

INSULATION JACKETS FOR GLOBE VALVES	
JGV10015F2	DN15, Type II, pyrogel 10mm, up to 230 °C
JGV10020F2	DN20, Type II, pyrogel 10mm, up to 230 °C
JGV10025F2	DN25, Type II, pyrogel 10mm, up to 230 °C
JGV10032F2	DN32, Type II, pyrogel 10mm, up to 230 °C
JGV10040F2	DN40, Type II, pyrogel 10mm, up to 230 °C
JGV10050F2	DN50, Type II, pyrogel 10mm, up to 230 °C
JGV10065F2	DN65, Type II, pyrogel 10mm, up to 230 °C
JGV10080F2	DN80, Type II, pyrogel 10mm, up to 230 °C
JGV10100F2	DN100, Type II, pyrogel 10mm, up to 230 °C
JGV10125F2	DN125, Type II, pyrogel 10mm, up to 230 °C
JGV10150F2	DN150, Type II, pyrogel 10mm, up to 230 °C
JGV10200F2	DN200, Type II, pyrogel 10mm, up to 230 °C
JGV10250F2	DN250, Type II, pyrogel 10mm, up to 230 °C
JGV10300F2	DN300, Type II, pyrogel 10mm, up to 230 °C

INSULATION JACKETS FOR STRAINERS	
JST10015F2	DN15, Type II, pyrogel 10mm, up to 230 °C
JST10020F2	DN20, Type II, pyrogel 10mm, up to 230 °C
JST10025F2	DN25, Type II, pyrogel 10mm, up to 230 °C
JST10032F2	DN32, Type II, pyrogel 10mm, up to 230 °C
JST10040F2	DN40, Type II, pyrogel 10mm, up to 230 °C
JST10050F2	DN50, Type II, pyrogel 10mm, up to 230 °C
JST10065F2	DN65, Type II, pyrogel 10mm, up to 230 °C
JST10080F2	DN80, Type II, pyrogel 10mm, up to 230 °C
JST10100F2	DN100, Type II, pyrogel 10mm, up to 230 °C
JST10125F2	DN125, Type II, pyrogel 10mm, up to 230 °C
JST10150F2	DN150, Type II, pyrogel 10mm, up to 230 °C
JST10200F2	DN200, Type II, pyrogel 10mm, up to 230 °C
JST10250F2	DN250, Type II, pyrogel 10mm, up to 230 °C
JST10300F2	DN300, Type II, pyrogel 10mm, up to 230 °C

INSULATION JACKETS FOR FLOAT STEAM TRAPS	
JFT10015F2	DN15, Type II, pyrogel 10mm, up to 230 °C
JFT10020F2	DN20, Type II, pyrogel 10mm, up to 230 °C
JFT10025F2	DN25, Type II, pyrogel 10mm, up to 230 °C
JFT10032F2	DN32, Type II, pyrogel 10mm, up to 230 °C
JFT10040F2	DN40, Type II, pyrogel 10mm, up to 230 °C
JFT10050F2	DN50, Type II, pyrogel 10mm, up to 230 °C

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