

TI-P138-01
CMGT Issue 7

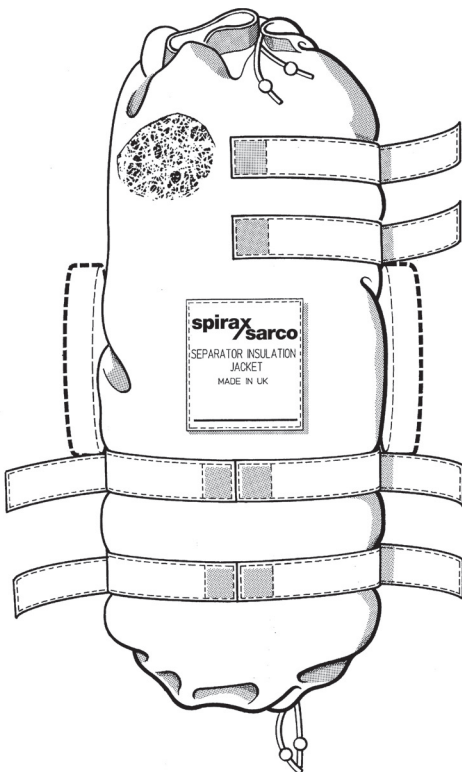
spirax

sarco

IJ-S5, IJ-S6, IJ-S5-H and IJ-S6-H
Insulation Jackets
for S5 and S6 Separators



IJ-S5/IJ-S6
shown fitted to flanged separator



IJ-S5-H/IJ-S6-H
shown fitted to flanged separator

Description

A range of insulation jackets for fitting to S5 and S6 separators. The jackets are of a one piece design for either low temperature or high temperature applications - see 'Available types' below.
Separate jackets are also available for flanged pipeline joints. Please refer to separate literature, TI-P119-01.
TI-P138-02 gives details of a **payback calculator** based on the energy saving to be made by fitting an insulation jacket.

Available types

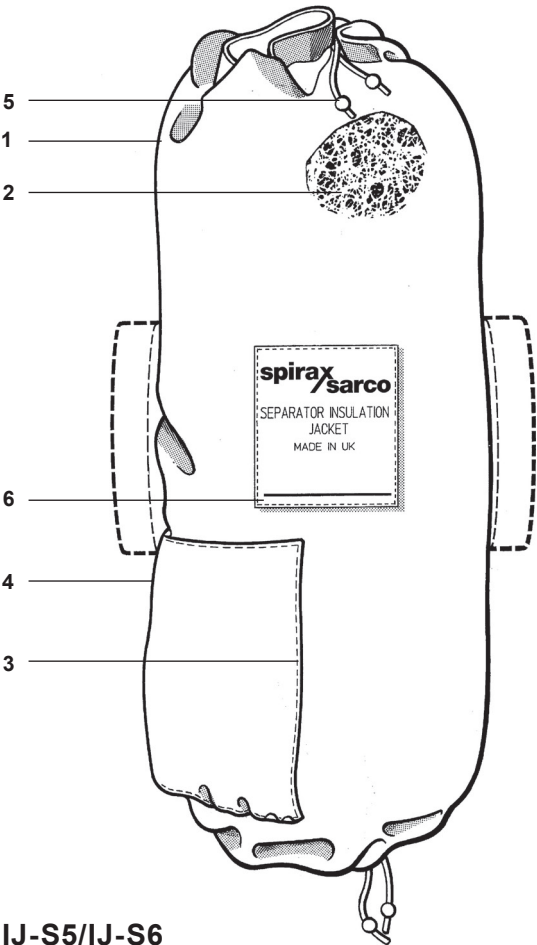
Available in low temperature version (with velcro fastening) and high temperature version (with strap/buckle fastening) one piece jackets for insulating DN15 to DN50, S5 and S6 separators.

IJ-S5 and IJ-S6	Low temperature version
IJ-S5-H and IJ-S6-H	High temperature version

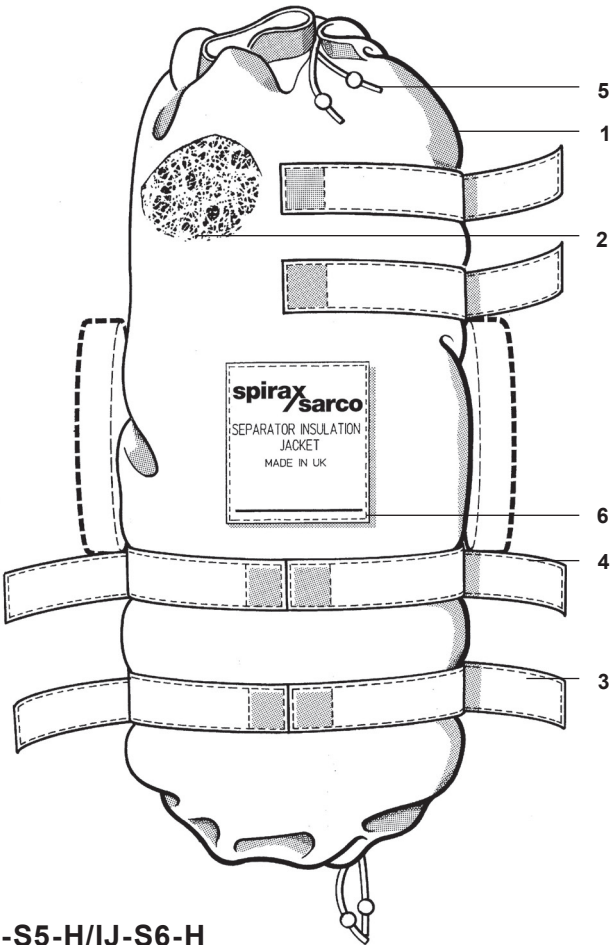
Limiting conditions

Maximum metal surface temperature	IJ-S5 and IJ-S6	220 °C
	IJ-S5-H and IJ-S6-H	425 °C
Thermal conductivity		0.044 W/m K at 100 °C

Pipeline ancillaries
Separators and insulation jackets
Materials



IJ-S5/IJ-S6
shown fitted to flanged separator



IJ-S5-H/IJ-S6-H
shown fitted to flanged separator

No.	Part	Material	
1	Inner and outer face	IJ-S	Silicone rubber coated glass fibre
		IJ-S-H	Glass fibre
2	Insulation	IJ-S	Mineral fibre
		IJ-S-H	Mineral fibre
3	Stitching	IJ-S	Polyester cotton
		IJ-S-H	Kevlar cotton
4	Sealing	IJ-S	Velcro
		IJ-S-H	Glass fibre/stainless steel buckles
5	Drawcords	IJ-S	Nylon
		IJ-S-H	Kevlar
6	Label	Nylon	

How to order

Example:
1 off IJ-S5 insulation jacket to fit a DN50 S5 separator.

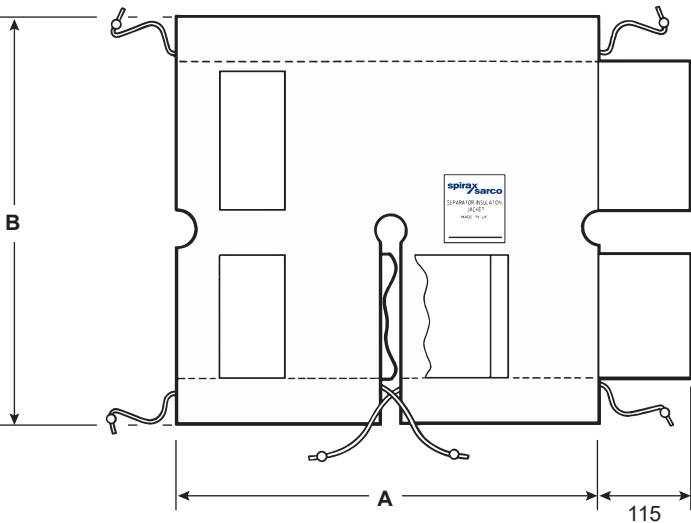
Important note:
For flange insulation jackets see TI-P119-01.

Dimensions/mass (approximate) in mm and kg

IJ-S5 and IJ-S6

Size	A	B	Insulation thickness	Mass
DN15 and DN20	508	508	50	0.90
DN25 and DN32	711	686	50	1.64
DN40 and DN50	762	838	50	2.42

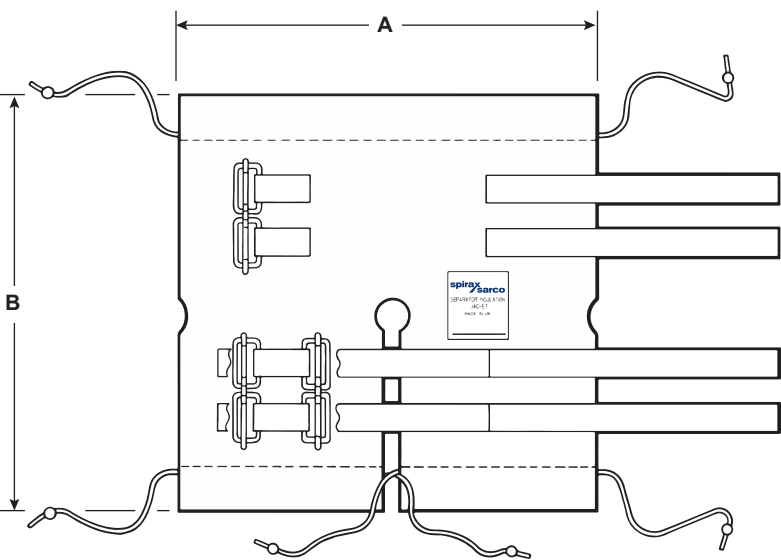
The diagram below shows the unfolded dimensions of the jacket



IJ-S5-H and IJ-S6-H

Size	A	B	Insulation thickness	Mass
DN15 and DN20	508	508	50	1.06
DN25 and DN32	736	686	50	2.00
DN40 and DN50	788	838	50	2.60

The diagram below shows the unfolded dimensions of the jacket



Installation

Once the separator has been installed, the insulation jacket can be fitted as follows:

IJ-S5 and IJ-S6

Place the jacket centrally on the left hand side of the separator. Undo the middle velcro flap, slide the jacket down over the flanged/threaded connection and pull velcro flap into secure position. Wrap front and back of jacket around separator and secure fully by using the top and bottom velcro flaps. Finally, pull and tie the top and bottom drawcords to minimise any gaps that would allow air to flow through or allow ingress of water.

IJ-S5-H and IJ-S6-H

Place the jacket centrally on the left hand side of the separator. Undo the middle buckle straps, slide the jacket down over the flanged/threaded connection and pull the buckle straps into secure position. Wrap front and back of jacket around separator and secure fully by using the top and bottom buckle straps. Finally, pull and tie the top and bottom drawcords to minimise any gaps that would allow air to flow through or allow ingress of water.

Flange insulation jackets

The separator insulation jacket should be fitted before any flange insulation jackets.

Important note:

Both the inner/outer face and insulation are made with a bonded aluminium foil. At a temperature of 120 °C the adhesive bonding and the aluminium foil will start to degrade and delamination of the foil will occur at between 150 °C to 170 °C. Scorching of the internal fabric may occur at 150 °C. Neither of these reactions will impair the performance.

Pipeline ancillaries

Separators and insulation jackets

Safety information

Before placing or removing the insulation jacket, check if the separator is in service. If it is, the metal surface will be hot enough to burn and suitable protective clothing (e.g. gloves) should be worn.

Handling

When the jacket is new, the insulation material is fully enclosed within the inner and outer face and retained by the stitching. In this condition, for handling, no special protective clothing is required. However, if the inner and outer face become unstitched or damaged so as to expose the insulation material, suitable protective clothing (e.g. gloves, safety glasses, face mask and overalls) should be worn.

Disposal

This product is not recyclable and is non-combustible. For disposal purposes consider the product to be mineral fibre and dispose of in accordance with local regulations.

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