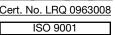
## ΕΝΕΡΓΟΠΟΙΗΤΕΣ ΘΕΡΜΟΣΤΑΤΙΚΩΝ ΒΑΛΒΙΔΩΝ



# spirax sarco

TI-P046-01

CH Issue 11



## SA121, SA122, SA123, SA128 and SA1219 **Self-acting Temperature Control Systems**



#### **Description**

A range of self-powered control systems that incorporate sensor, actuator, set point adjustment/indicator for use with the following valve types:-

2-port	KA, KB, KC, KX, KY, SB, SBRA, BX, BXRA,
	BM, BMRA, BMF, BMFRA, NS, NSRA
3-port	TW

#### Available types

Set point adjustment at sensor

Set point adjustment at valve				
SA128	1 of use off	3-port valves	DN20 and DN25	
	For use on	2-port valves	DN15 to DN25	
SA1219	For use on	3-port valves	DN80 and DN100	
JAIZI	i oi use oii	3-port valves	DN20 to DN50	
SA121	For use on	2-port valves	DN15 to DN80	

SA122	For use on	2-port valves	DN15 to DN25	
	TOT USE OIT	3-port valves	DN20 and DN25	
Remote set point adjustment				
		2-port valves	DN15 to DN80	

SA123	For use on	2-port valves	טאום טו פו אום
3A123	i oi use oii	3-port valves	DN20 to DN50

#### Optional extras

Union kit	Direct immersion
Pocket	Indirect immersion
Pocket material option	ons include copper and stainless steel.
A glass option is also	available for the SA122 and SA123 only.
Wall bracket	
Duct adaptor	Duct mounting
Nickel plating	
Dial type set point ac	ljuster
Pt100 temperature	SA122TP and SA123TP incorporate an

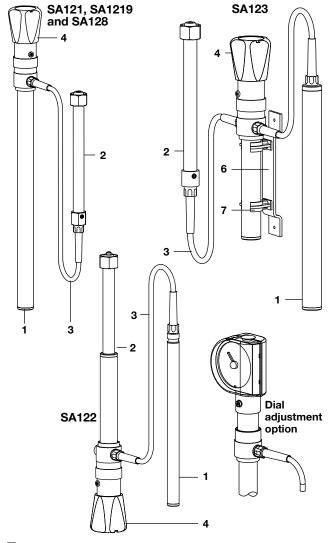
internal pocket to accept a Pt100 sensor

#### **Materials**

sensor

	No.	Part	Material
	1	Sensor	Brass
	2	Actuator	Brass
	3	Capillary tube	Copper with PVC coated armoured covering
	4	Adjustment head	Polypropylene
*	5	Union kit	Brass
	6	Mounting bracket	Steel
	7	Clip	Polypropylene
*	8	Adaptor plate (Duct fixing adaptor)	Steel
			Mild steel BS 980 CEW2
			Copper BS 2871 C106
*	9	Pocket	Stainless steel BS 3605 CFS 316S 18
			Glass
	10	Liquid fill	Kerosene

\* Items 5, 8 and 9 are shown overleaf.



#### Temperature ranges

SA121,	Range 1	-15	5°C to 50°C	
SA1219 and	Range 2	40	0°C to 105°C	
SA123	Range 3	95°C to 160°C		
Over temperature	protection <sup>55°C</sup> ov	er set value to 190° 215°C maximu		
SA122	Range 1	-20	0°C to 120°C	
	Range 2	40	0°C to 170°C	
Over temperature	protection	55°C c	ver set value	
SA128	Range 1	-20	0°C to 110°C	
	Range 2	40	0°C to 170°C	
Over temperature protection 55°C over set value to 190°C maximum				
Note - Ambient d	esign temperature	Minimum	-35°C	
Hote - Ambient d	coign temperature	Maximum	+50°C	

#### Capillary tube

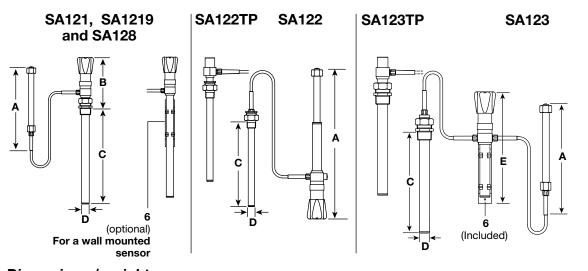
Standard length 2 m, 4 m, 8 m and 20 m.

**Pockets** 

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Glass

Metal



Dimensions / weights (approximate) in mm and kg

		Cor	ntrol syste	m		Metal p	ockets	Glass p	ockets	Weight
Model	Α	В	С	D	E	F	G	н	J	excluding pocket
SA121	275	185	310	25	-	333	28	-	-	2.0
SA1219	350	185	310	25	-	333	28	-	-	2.3
SA122	415	-	240	17	-	271	20	575	117	1.8
SA122TP	415	-	255	17	-	271	20	-	-	2.0
SA123	275	-	248	25	270	276	28	575	117	2.5
SA123TP	275	-	255	25	270	276	28	-	-	2.7
SA128	275	185	178	25	-	196	28	-	-	1.8

### Union kit (for sensor immersion without pocket)

Includes gland nut, compression ring and union nipple.			
SA121, SA1219, SA123 and SA128 Items Z, Y and X			
SA122	Items W, V and U		

#### Pockets (for indirect immersion)

Includes pocket, gland nut and compression ring.

SA121, SA1219, SA123 and SA128	Items T, Z and Y
SA122	Items S, W and V.
Available materials	Copper and stainless steel

#### Long pockets (SA122 and SA123 only)

To special order only.
Having a minimum length 0.5 m, maximum length to order.
Includes pocket, bracket and rubber bung

	3
SA122 and SA123	Items S, V, W and T, Z, Y
Available materials	Copper and stainless steel

#### Glass pockets (SA122 and SA123 only)

To special order only.

Includes pocket, bracket and rubber bung

SA122 and SA123 Items R, O and P

#### Wall mounting bracket (Item 6)

SA121, SA1219, SA122, Optional SA123 and SA128

#### Duct fixing adaptor (for air sensing within ducts)

Includes adaptor plate, union nipple, compression ring and gland nut. SA121, SA1219, SA123 and SA128 Items 8, X, Y and Z SA122 Not available

#### Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions supplied with the product.

#### How to order

Example: 1 - Spirax Sarco SA121 temperature control system, having temperature range 2, 2 m capillary and stainless steel pocket.

