



Cert. No. LRQ 0963008

ISO 9001

spirax/sarco

SA422

Stainless Steel

Self-acting Temperature Control System

TI-P380-01

CH Issue 3

Description

The SA422 is an immersion type of self-powered control system that incorporates 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

The sensor will need to be mounted through a union kit (available as an optional extra) when immersed through the wall of a vessel containing the fluid under control.

Available types

Set point adjustment at valve

SA422	For use on	2-port valves DN15 to DN80
		3-port valves DN20 to DN50

Optional extras

Union kit Direct immersion
Comprising union nipple **X**, compression ring **Y** and gland nut **Z**

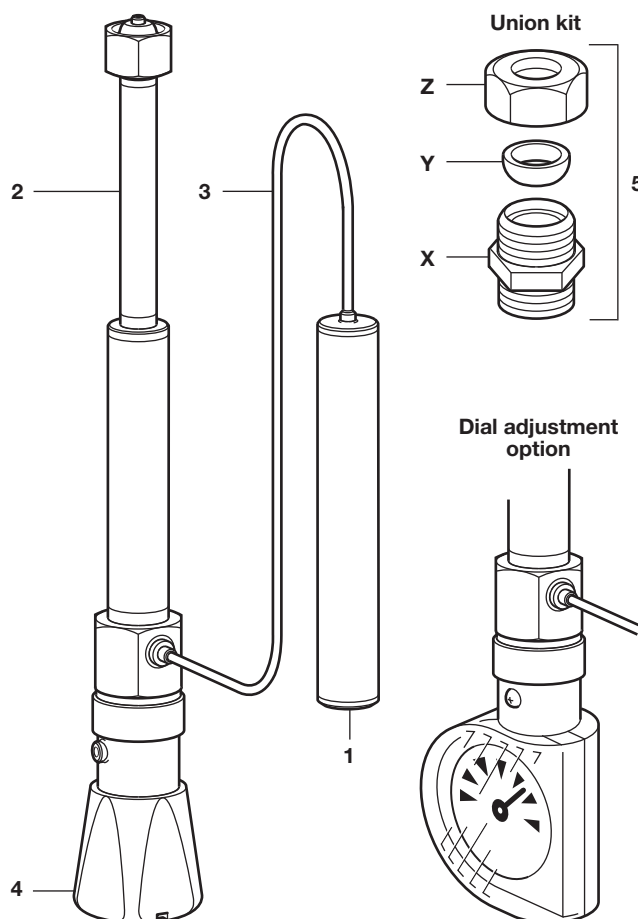
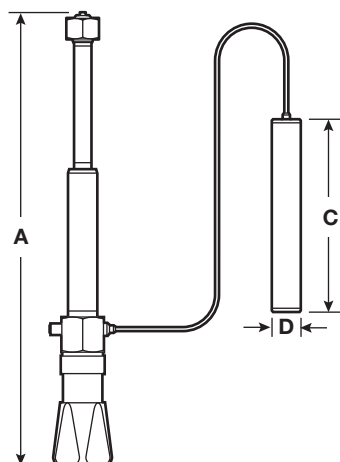
Dial adjustment

Materials

No.	Part	Material	
1	Sensor	Stainless steel	ASTM A269 TP 316
2	Actuator	Stainless steel	ASTM A269 TP 321
3	Capillary tube	Stainless steel	ASTM A269 TP 304
4	Adjustment head	Polypropylene	
5	Union kit	Stainless steel	ASTM A582 303

Dimensions/weight (approximate) in mm and kg

Knob A	Dial A	C	D	Weight
397	428	165	25	1.5



Temperature ranges

SA422	Range 1	-20°C to +120°C
	Range 2	+40°C to +170°C

Overtemperature protection	55°C over set value
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Capillary tube

Standard length 2.4 m or 4.8 m.
Longer lengths to a maximum 9.6 m are available to special order.

Safety information, installation and maintenance

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

Application warning:

On installations where the sensor is immersed directly into the solution to which temperature control is required, we would not recommend the unit be subjected to:-

Aqueous solutions containing chloride, fluoride, halogen salt, hydrochloric acid or sulphuric acid.

The above applies to complete immersion, liquid level lines and splash zones.

How to order example:

- 1 - Spirax Sarco SA422 control system, temperature range 1, having 2.4 m capillary, plus:-
- 1 - Union kit with NPT connections.