



TI-P380-01  
 CTLS Issue 5

## SA422

### Stainless Steel

# Self-acting Temperature Control System

#### 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

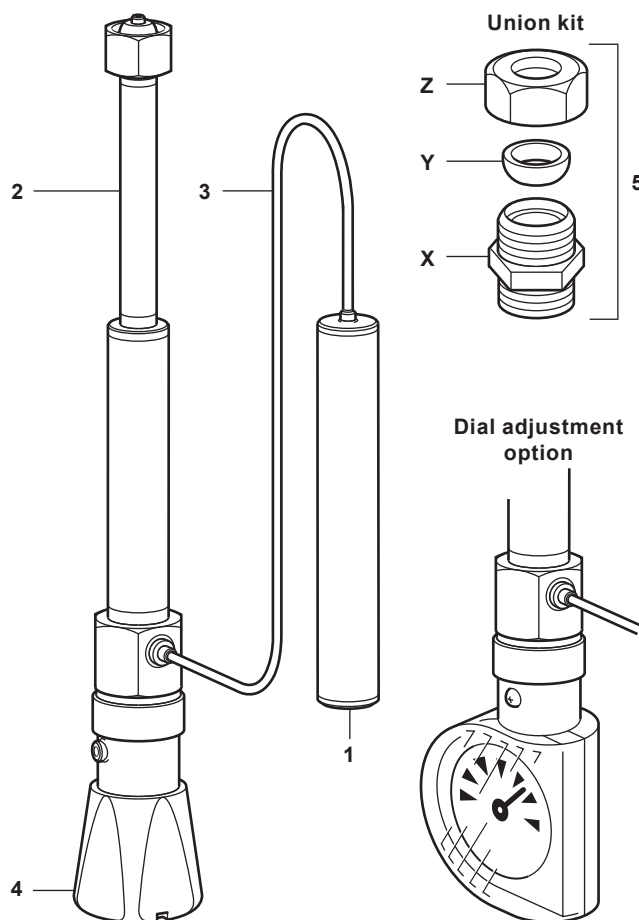
**Union kit** Direct immersion

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

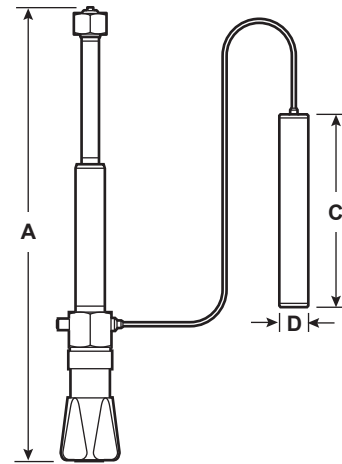
## Temperature ranges

SA422	Range 1	-20 °C to +120 °C
	Range 2	+40 °C to +170 °C
Overtemperature protection		55 °C over set value

## Capillary tube

Standard length 2.4 m or 4.8 m.

Longer lengths to a maximum 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.