spirax sarco

Temperature Control Systems Types 121,122,123,128,1219,422

Installation and Maintenance Instructions

Use

It is important that these control systems are only used with Spirax Sarco valves as indicated in the following table.

Control System	Valve Size	Valve Type
121,123	All	2 port
422	¾" to 2"	TW
128,122	½" to 1"	2 port
1219	3" & 4"	TW

Installation

Check that the control system supplied is of the temperature range required. Its is important that the whole of the temperature sensing area of the sensor is fully immersed in the fluid being controlled, as Fig 1, not as Fig 2.

Sensors Types 121, 1219 122, 123 and 128 can be held in a screwed nipple by means of a compression ring. Screw the nipple into the boss provided on the plant, thread the union nut and compression ring over the sensor. Insert the sensor fully into the nipple and tighten up the nut and compressing ring. Do not overtighten.

Where the types 121, 1219, 122, 123 and 128 are used in-conjuction with a pocket, either to allow easy withdrawal or as a protection against corrosion, the separate screwed nipple is dispensed with and the union nut and compression ring attached directly to the top of the pocket. Therefore insert the pocket in place of the screwed nipple.

When using a special long pocket with the type 122 or 123 sensor, the screwed nipple, compression ring and nut are dispensed with and a rubber sealing bung provided.

Screw the pocket into place, then feed the sensor bulb in until it reaches the bottom of the pocket, using the rubber bung to seal the top.

When using a pocket it is advisable to fill the gap between the pocket and the sensor with a heat conducting medium such as oil, but when using a special long pocket in conjuction with the Type 122 or 123 sensors it should not be filled above the top of the bulb.

The type 121 sensor, intended for controlling from the room temperature, and the control head of the Type 123 sensor, is held in a bracket.

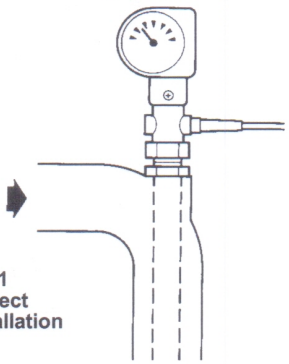


Fig. 1
Correct Installation

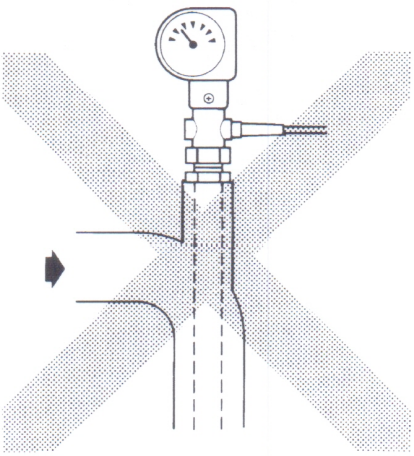


Fig. 2
Incorrect Installation

The capillary tube between the sensor and the valve must be run and supported in such a way that it will not become damaged. Avoid all sharp bends. See overleaf for instructions on Display, Adjustment and Commissioning

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