

Thermometer Systems for Instruments

Thermometer systems nitrogen filled

Two different types can be provided according to the nature of the fluid in the process:

Cylindrical bulb (suffix **T5**) for measurement of liquids and steam temperature.

Spiral bulb (suffix **T6**) for measurement of gaseous fluid temperature.

Systems and bulbs for Series 200 instruments

STANDARD EXECUTIONS

Span of the measurement range from 50 to 500°C.

Values of the range as from technical specifications of the instruments.

Dimensions: as from drawing

Length of capillary: 2-5 m; longer length provided upon request.

Bulb and capillary material: AISI 316 L stainless steel.
Operating limits in accordance with PN 40.

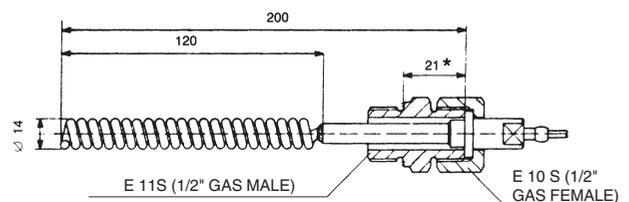
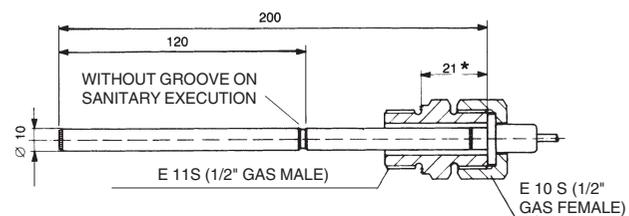
Cylindrical bulb for liquids: (suffix **T5**)

Process connection **E10S** 1/2" gas female
E11S 1/2" gas male

Spiral bulb for gases: (suffix **T6**)

Process connection **E10S** 1/2" gas female
E11S 1/2" gas male

Thermometer system nitrogen filled



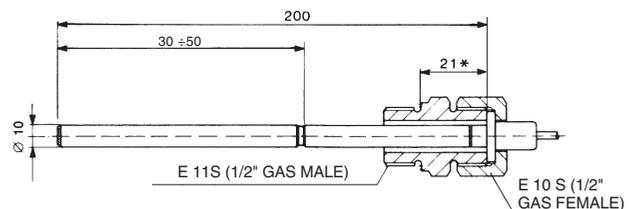
SPECIAL EXECUTIONS (on request)

- **Special process connections:** fixed or sliding on extension or on capillary: see page 3.
- Cylindrical bulb in **sanitary execution (Sy)** for food application or sanitary purpose.
Connection type **E10 S** 1/2" gas female or with DIN 405 union DN 25.
Dimensions and the operating limits are as for standard execution.

Thermometer system kerosene filled

- **Thermometer system kerosene filled**
Span of the measurement range from 25 to 40°C.
Cylindrical bulb (suffix **T1-K**) for liquids and gases.
Dimensions: as from drawing.

Thermometer system kerosene filled



* for size 3/4" or NPT connections the dimension becomes 30 mm.

Systems and bulbs for Series 600 and 2000 / 3000 / 4000 instruments

STANDARD EXECUTIONS

Span of the measurement range from 50 to 500 °C.

Value of the range as from technical specifications of the instruments.

Dimensions: as from drawing

Length of capillary: 2-5 m; longer length provided upon request.

Bulb and capillary material: AISI 316 L stainless steel.
Operating limits in accordance with PN 40.

Cylindrical bulb for liquids: (suffix **T5**)

Process connection **E10** 3/4" gas female

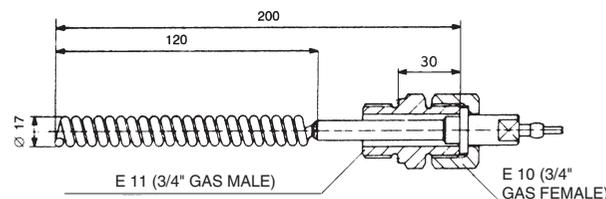
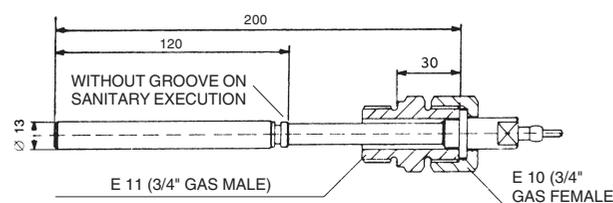
E11 3/4" gas male

Spiral bulb for gases: (suffix **T6**)

Process connection **E10** 3/4" gas female

E11 3/4" gas male

Thermometer system nitrogen filled



SPECIAL EXECUTIONS (on request)

Special process connections: fixed or sliding on extension or on capillary: see page 3.

- Cylindrical bulb in **sanitary execution (Sy)** for food application or sanitary purpose.

Connection type **E10** - 3/4" gas female or with DIN 405 union DN 25.

Dimensions and the operating limits are as for standard execution.

- **Thermometer system kerosene filled**

Span of the measurement range from 25 to 40°C.

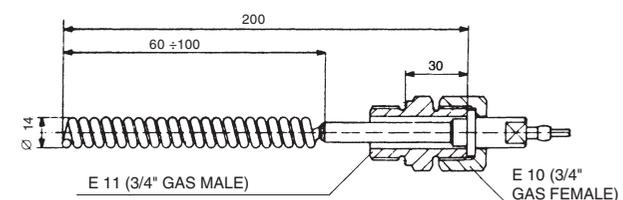
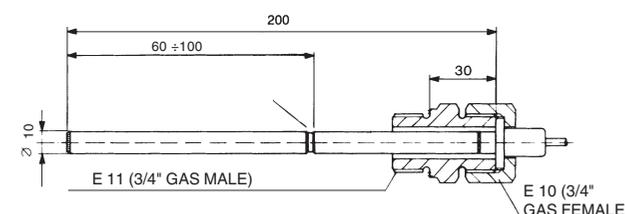
Two different types can be provided according to the nature of the fluid in the process:

Cylindrical bulb (suffix **T1-K**) for measurement of liquids and steam temperature.

Spiral bulb (suffix **T2-K**) for measurement of gaseous fluid temperature.

Dimensions: as from drawing.

Thermometer system kerosene filled



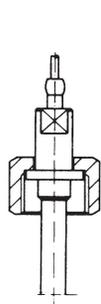
Executions on request of capillaries for all Series

Length of capillary longer than 2 m are provided to suit the process requirements.

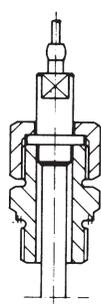
Protection of the capillary is provided by means of sheaths made out of AISI 316 stainless steel, zinc-plated steel or plastic.

Available process connections for all Series (sanitary bulbs excluded)

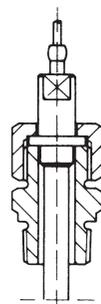
Fixed connections



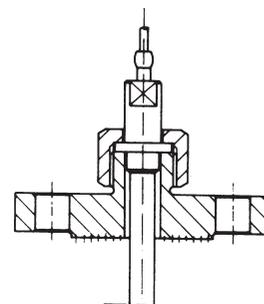
E10 (3/4" GAS)
E10S (1/2" GAS and
only for series 200)



E11 (3/4" GAS)
E11S (1/2" GAS)



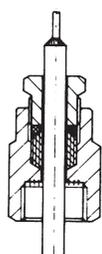
E12 (3/4" NPT)
E12S (1/2" NPT)



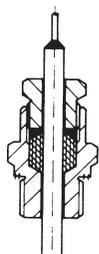
E13X - Stainless steel
(DN 15 PN 40 or DN 20 PN 40)

Connections sliding on extension

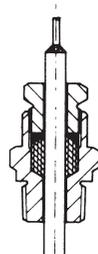
Standard extensions L = 500 mm



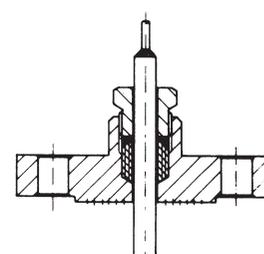
E20 (3/4" GAS)
E20S (1/2" GAS)



E14 (3/4" GAS)
E14S (1/2" GAS)

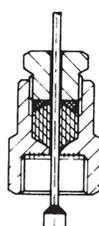


E15 (3/4" NPT)
E15S (1/2" NPT)

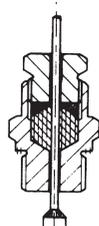


E16X - Stainless steel
(DN 15 PN 40 or DN 20 PN 40)

Connections sliding on capillary



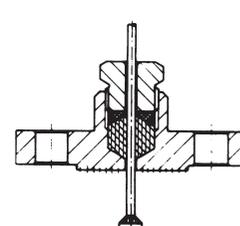
E21 (3/4" GAS)
E21S (1/2" GAS)



E17 (3/4" GAS)
E17S (1/2" GAS)



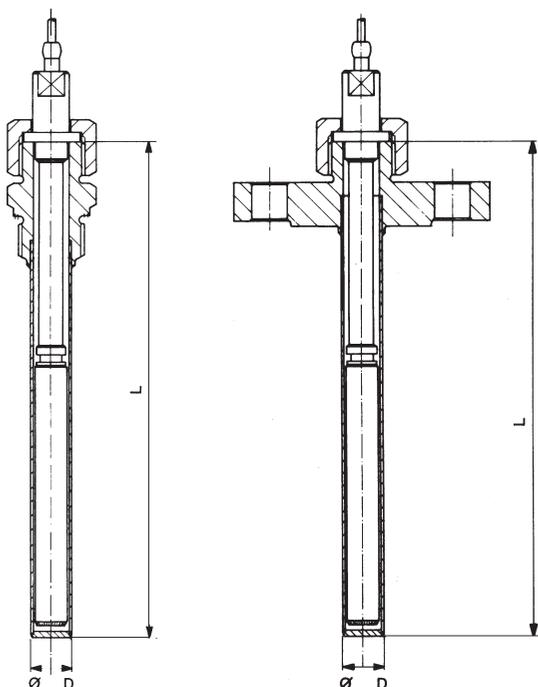
E18 (3/4" NPT)
E18S (1/2" NPT)



E19X - Stainless steel
(DN 15 PN 40 or DN 20 PN 40)

Bulb-pockets

The use of the pocket is essential when the possibility of extracting the measuring bulb from the process without emptying the plant is required. It can be used only with cylindrical bulbs.



STANDARD EXECUTIONS FOR Series 600 and 2 / 3 / 4000

Type W30 - 3/4" gas male connection

Type W30S - 1/2" gas male connection

Diameter D = 16 mm, length L = 210 mm

Material: pocket and connection are made of AISI 316L stainless steel

Operating limits in accordance with PN 40

EXECUTIONS ON REQUEST FOR Series 600 and 2 / 3 / 4000

Screwed process connections

Type W31 - 3/4" NPT male connection

Type W31S - 1/2" NPT male connection

Flanged process connections

Type W32X - DN 20 PN 40 AISI 316 stainless steel flange

Dimensions: same as for standard execution pockets

Pocket material: AISI 316 L stainless steel

Operating limits in accordance with PN 40

STANDARD EXECUTIONS FOR Series 200

Type Z30S - 1/2" gas male connection

Diameter D = 13 mm, length L = 210 mm

Material: AISI 316 L stainless steel.

Operating limits in accordance with PN 40.

HIGH PRESSURE EXECUTIONS (all Series),

up to 250 bar they are manufactured specially on request and the pockets are made out of steel rod.

EXECUTIONS ON REQUEST FOR Series 200

Screwed process connections

Type Z30 - 3/4" gas male connection

Type Z31S - 1/2" NPT male connection

Flanged process connection

Type Z32X - DN 20 PN 40 flange size

Dimensions: same as for standard execution pockets

Material: both pocket and connection (screwed or flanged) are made out of AISI 316 L stainless steel

Operating limits in accordance with PN 40.

EXECUTIONS WITH EXTENSION (all Series),

manufactured specially for the requested length and with the ends as shown on above drawings.