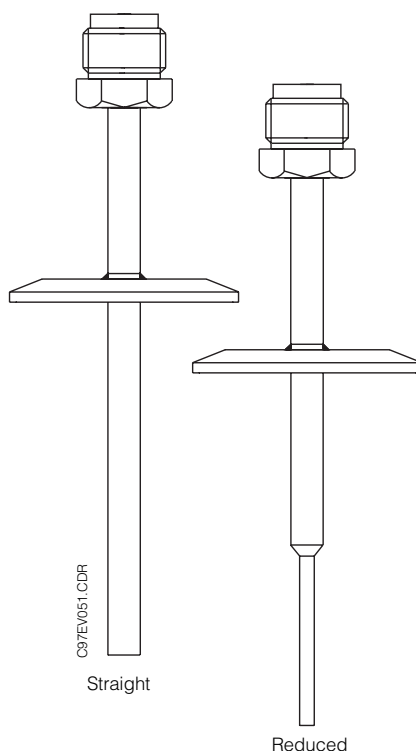


Industrial Protecting Tube *omnigrad TA14*

Medium duty - General purpose
From pipe
Sanitary process connections TIG welded
and extension neck



Description

TA14 is an industry standard thermowell, manufactured from pipe. The process connection is suitable for foodstuff and sanitary applications. The thermowell stem shape can be straight or reduced for fast response time. The immersion and the tapering lengths can be chosen according to process requirements. A wide choice of process connections is available; other versions can be ordered according to specification. Different grades of surface finishing are available.

Application

TA14 is designed for use with process thermometers mainly in medium duty applications.

Technical Data

Pipe

O.D.: 9 mm
Standard inset diameter: 6 mm - straight tip type
3 mm - reduced tip type
Standard material: AISI316Ti / W.1.4571, AISI316L / W.1.4404

Connection to thermometer

Threaded: M24 x 1.5 - male

Process connection

Type: sanitary - refer to Order key
Standard material: AISI316 or AISI316L, depending on connection type

Extension length

Standard length: see Table B

Tip

Bottom shape: straight or reduced
Bottom thickness: 3 mm

Surface

Finishing: polished wetted parts, refer to Order key

Quality made by
Endress+Hauser



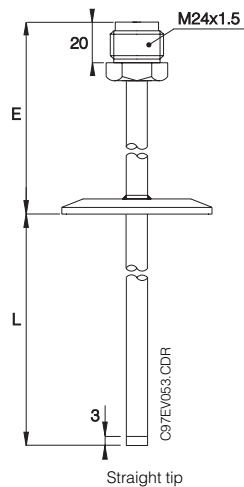
ISO 9001

Endress+Hauser
Nothing beats know-how



Order key

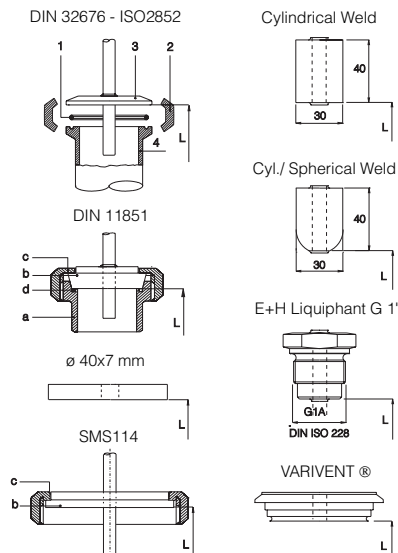
- (1) For a correct temperature measurement the thermowell immersion length L must be 20 times its diameter. Shorter immersion lengths can be supplied but the thermometer requires an external (process connection, extension and connection head) thermal insulation.
- (2) $L \geq 65$ mm for tip code "S" or "T"
- (3) $L \geq 30$ mm for reduced tip code "A"
- (4) Standard extension length E is depending on connection type and immersion length: see Table B of dimensions for details.



Tip code "T"	Tip code "A"

Table A
Reduced Tip

Sanitary connections



- Mounting information:
- 1) Gasket customer side
 - 2) Clamp customer side
 - 3) Clamp flange E+H side
 - 4) Pipe customer side
- a) Thread customer side
 - b) Conical coupling E+H side
 - c) Coupling nut E+H side
 - d) Gasket customer side

TA14- Thermowell from pipe - Medium duty - General purpose Sanitary process connections - With extension neck

Head connection 1 - M24 x1.5

Process connection: flange type - material

- BA - ISO2852 Clamp flange DN 12/21.3 - AISI316L
- BB - ISO2852 Clamp flange DN 25/38 - AISI316L
- BC - ISO2852 Clamp flange DN 40/51 - AISI316L
- CD - DIN11851 DN25 connection - AISI316L
- CE - DIN11851 DN32 connection - AISI316L
- CF - DIN11851 DN40 connection - AISI316L
- CG - DIN11851 DN50 connection - AISI316L
- DA - Welding connection: cylindric Ø 30 x 40 mm - AISI316L
- DB - Welding connection: cylindric/spheric Ø 30 x 40 mm - AISI316L
- EA - E+H Liquiphant G 1" for socket 917975000B - AISI316L
- FA - Varivent ® DN 50/40 - AISI316L
- HA - Ø 40 x 7 mm flange connection - AISI316
- JD - SMS114 DN25 - AISI316
- YY - Connection to specification

Extension length E

- 3 - 82 mm neck
- 4 - Neck length for standard inset (4)
- 8 - mm length to specification (min.75mm-max.300mm)
- 9 - mm special length

Immersion length L (1) (2) (3) (*)

- A - 50 mm
- B - 90 mm
- C - 145 mm
- D - 160 mm
- X - mm length to specification (min.65mm-max.700mm)
- Y - mm special length (2) (3)

Material and pipe size

- A - AISI316Ti/W.1.4571 - 9 mm diameter
- F - AISI 316L/W.1.4404 - 9 mm diameter
- Y - Material and pipe diameter to specification

Shape of the tip

- S - Straight tip, standard response (2)
- T - Reduced tip, fast response - see Table A (2)
- A - Reduced tip short type - see Table A (3)
- Y - Special version

Wetted parts finishing

- B - Surface finishing $Ra \leq 1.5 \mu m$
- M - Surface finishing $Ra \leq 0.8 \mu m$
- Y - Special finishing

TA14-

Complete Order Code

Process connection (TIG welded)	Immersion length L (*)	Extension length E
All types	All	82 mm
Clamp flange DN12/21.3, 25/38, 40/51 Connection DIN11851 DN25 to 50 flange Connection Ø 40 x 7 mm flange Connection SMS114 DN25 flange	A, B, C, Y	60 mm (4)
Welding connection cylindric Ø 30 x 40 mm	A, Y	100 mm (4)
Welding connection cylindric/spheric Ø 30 x 40mm Conn. E+H Liquiphant G 1" for socket 917975000B Connection VARIVENT DN50/40 flange	B	115 mm (4)
	C	120 mm (4)

Table B - Dimensions of Extension length E

Supplementary documentation

- ☐ Industrial Protecting Tubes
- Technical Information TI138T/02/en

Note : all dimensions in millimeters

Export Division

Endress+Hauser
Instruments International
GmbH + Co.
P.O. Box 2222
D-79574 Weil am Rhein
Germany
Tel. (07621) 975-02
Tx 7-73-926
Fax (07621) 9-75-345

