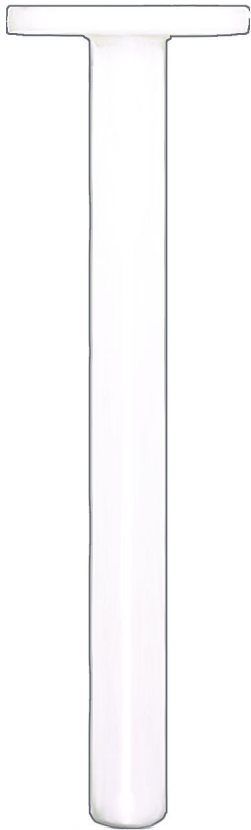


Technical Information

Protective Sheath TA730

Protection of the primary thermowell



Thermowell cover made of corrosion-resistant material for thermometers or thermowells with a flange process connection

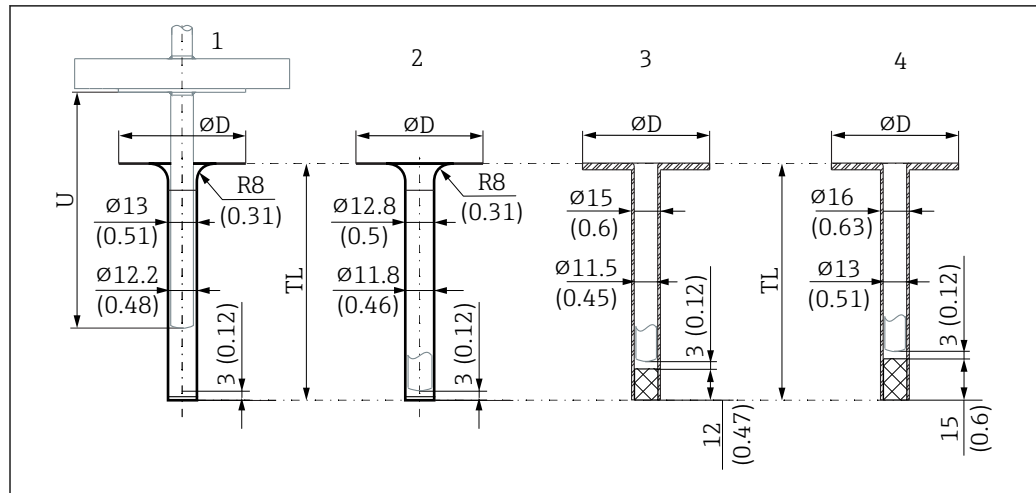
Application

Applications in the chemical industry involving aggressive process media

Your benefits

- Protection against corrosion
- Available in PTFE, PVDF, tantalum or titanium

Mechanical construction



1 Dimensions of the protective sheath in mm (in) - different versions depending on the coating material

- 1 Tantalum
 2 Titanium
 3 PTFE
 4 PVDF
 $\varnothing D$ Diameter of sealing surface
 U Thermowell immersion length
 TL Total length of protective sheath

Formula for calculating the total length

- Titanium or tantalum: $TL = U + 3 \text{ mm (0.12 in)}$
- PTFE: $TL = U + 15 \text{ mm (0.6 in)}$
- PVDF: $TL = U + 18 \text{ mm (0.71 in)}$

Flanged version	\varnothing sealing surface D in mm (in)
DN25 PN10, PN16, PN25, PN40, PN64, PN100, PN160, PN250, PN320, PN400	68 (2.68)
DN40 PN10, PN16, PN25, PN40, PN64, PN100, PN160, PN320, PN400	88 (3.46)
DN50 PN10, PN16, PN25, PN40, PN64, PN100, PN160, PN250, PN320, PN400	102 (4.02)

Maximum process pressure values for the individual materials depending on the process temperature.
 Data in bar (PSI)

Temperature in °C (°F)	Tantalum	Titanium	PTFE	PVDF
-251 (-420)	-	-	80 (1160.3)	-
-200 (-328)	130 (1885.5)	-	69 (1000.7)	-
-100 (-148)	75 (1087.8)	65 (942.7)	46 (667.2)	-
0 (+32)	60 (870.2)	65 (942.7)	7.5 (108.8)	-
+20 (+68)	57 (826.7)	65 (942.7)	6 (87)	6.5 (94.3)
+50 (+122)	55 (797.7)	58 (841.2)	3.75 (54.4)	3.5 (50.8)
+100 (+212)	49 (710.7)	51 (739.7)	2.5 (36.3)	1 (14.5)
+200 (+392)	40 (580.2)	33 (478.6)	1.1 (16)	-
+260 (+500)	37 (536.6)	24 (348.1)	0.9 (13.1)	-
+300 (+572)	35 (507.6)	19.5 (282.8)	-	-

Temperature in °C (°F)	Tantalum	Titanium	PTFE	PVDF
+320 (+608)	34 (493.1)	18 (261.1)	-	-
+500 (+932)	29 (420.6)	-	-	-
+750 (+1382)	23 (333.6)	-	-	-
+1000 (+1832)	16.5 (239.3)	-	-	-

Response times

Depending on the material, the protective sheath restricts heat transfer considerably and results in significantly higher response times. Response times t_{90} of several minutes can be expected.

Ordering information

Detailed ordering information is available for your nearest sales organization www.addresses.endress.com or in the Product Configurator under www.endress.com :

1. Click Corporate
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3. Click Products
4. Select the product using the filters and search field
5. Open the product page

The Configuration button to the right of the product image opens the Product Configurator.

Product Configurator - the tool for individual product configuration

- Up-to-the-minute configuration data
- Depending on the device: Direct input of measuring point-specific information such as measuring range or operating language
- Automatic verification of exclusion criteria
- Automatic creation of the order code and its breakdown in PDF or Excel output format
- Ability to order directly in the Endress+Hauser Online Shop



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