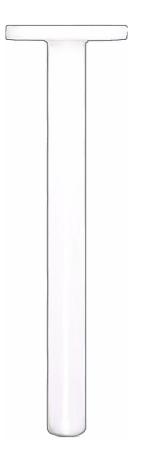
# Technical Information Protective Sheath TA730

## Protection of the primary thermowell



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

#### Applications

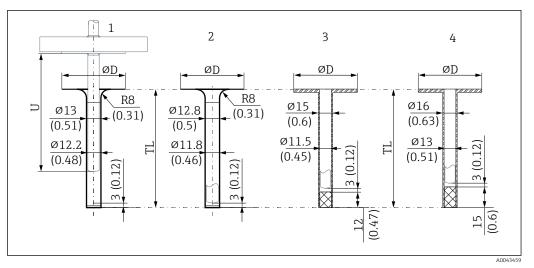
Applications in the chemical industry involving aggressive process media

#### 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
- ØD Diameter of sealing surface
- U Thermowell immersion length
- TL Total length of protective sheath

Formula for calculating the total length

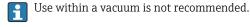
- Titanium or tantalum: TL = U + 3 mm (0.12 in)
- PTFE: TL = U + 15 mm (0.6 in)
- PVDF: TL = U + 18 mm (0.71 in)

Flanged version	Ø sealing surface D in mm (in)
<b>DN25</b> PN10, PN16, PN25, PN40, PN64, PN100, PN160, PN250, PN320, PN400	68 (2.68)
<b>DN40</b> PN10, PN16, PN25, PN40, PN64, PN100, PN160, PN320, PN400	88 (3.46)
<b>DN50</b> 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<sub>90</sub> of several minutes can be expected.

### **Ordering information**

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

1. Select the product using the filters and search field.

2. Open the product page.

3. Select Configuration.

# 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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