









Technical Information

Omnigrad TA570

Industrial thermowell Heavy duty – General purpose From round bar stock – Socket weld type Also Dow Chemical G6D-7001-00



Application

The thermowell TA570 is especially designed for use with resistance and thermocouple thermometers mainly in heavy duty applications.

Benefits at a glance

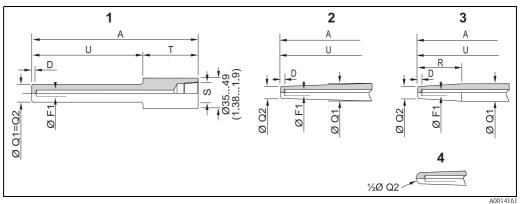
- The TA570 is an industry standard thermowell, manufactured from round bar stock.
- The process connection is socket weld.
- Optionally the thermowell stem shape can be straight, conical or conical tapered. The extension, the immersion and the tapering lengths can be chosen according to process requirements.
- Wide choice of standard materials. Additional versions can be ordered according to specification.
- Different grades of surface finishing.



Round bar stock	 Standard reference: Dow Chemical G6D-7001-00 Socket size diameter: 3549 mm (1.381.9 in) Immersion O.D.: < socket size diameter Standard material: AISI316Ti/W.1.4571, AISI316/W.1.4401, AISI316 L/W.1.4404, AISI321/W1.4541
Connection to thermometer	Thread: 1/2" NPT, 1/2" NPSM ¹ , 1/2" BSP, G ¹ /2" BSPF – female
Process connection	Socket weld
Tip	 Shape: Straight, conical or conical tapered tip Bottom thickness: 6 mm (0.24 in)
Surface roughness	Finishings: 0.8 µm (0.32 µin) or 1.6 µm (0.63 µin)

Technical data

Mechanical construction



Thermowell dimensions in mm (in):

- 1 Continuous straight shape, flat bottom
- 2 Conical tip shape, flat bottom
- 3 Conical tapered tip shape, flat bottom
- 4 Rounded bottom

PosNo.	Description			
А	Total length, nominal length: 1251000 mm (4.939.4 in)			
U	Immersion length: 150 mm (5.9 in), 225 mm (8.9 in)			
Т	Extension, 75 mm (2.96 in)			
D	Bottom thickness			
øQ1 øQ2	Diameter thermowell tip, specification see product structure Note: Wall thickness 3 mm (0.12 in) minimum, $(Q2 - F1)/2 \ge 3 \text{ mm} (0.12 \text{ in})$			
øF1	Bore diameter: 7 mm (0.28 in)			
R	Thermowell tip length, specification see product structure			
S	Thermometer connection thread S, specification see product structure			

^{1.} Thermowell thread complete with ½" NPS plug. NPSM pipe internal thread will accept both NPT and NPS male thread.

Ordering information

Product structure

This information provides an overview of the order options available. The information is not exhaustive, however, and may not be fully up to date. **More detailed** information is available from your local Endress+Hauser representative.

TA570-	Heavy duty thermowell - General purpose - From round bar stock; socket weld type - Ø3549 mm Also Dow Chemical G6D-7001-00												
	The	ermon	mometer connection S										
	1	½" N	½" NPSM thermometer connection Thread ½" NPT										
	2												
	3		read BSP 1/2"										
Į	4	1⁄2" E	1/2" BSPF thermometer connection										
		Exte	xtension T; D1; Q1; Q2; R										
		1		75 mm; 48 mm; 25 mm; 18 mm; 0 mm									
		9	m	mm, as specified									
			Imm		n leng	th U							
			UA	150									
			UB	225									
I			ΥY	YY mm, as specified									
				-	1	ell mat							
				В		ſi/1.45							
				C 316/1.4401									
				D 316L/1.4404 F 321/1.4541									
1				1	5217								
							mowell	finisl	ing				
					1	0,8 μ							
					4	1,6 µ	m						
									kness D, shape				
				B 6 mm; flat (Dow Chemical Standard) D 6 mm; rounded (½ Q2)									
l						D	6 mm;	roun	led (½ Q2)				
								Boi	e diameter F1				
							1	7 m	m				
								Saf	ety plug + chain				
								А	Not needed				
								В	Material 316L/1.4404				
									Additional option				
									0 Not needed				
									1 Special version, TSP-no. to be specified				
TA570-							1		\Rightarrow Order code				

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