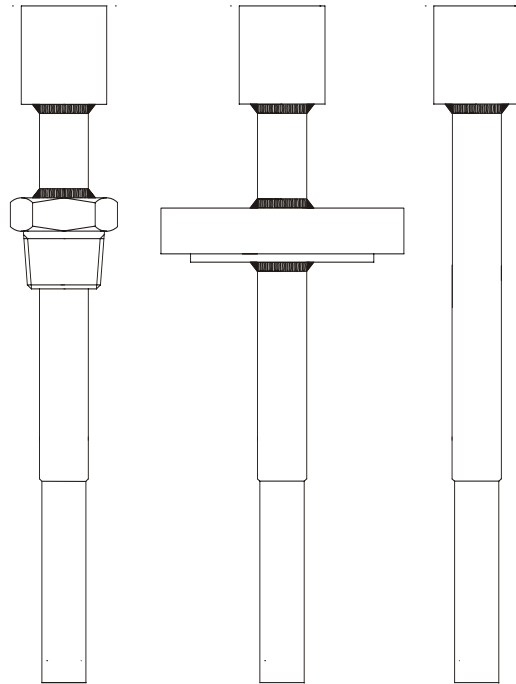


Industrial protecting tube *omnigrad TA540*

Heavy duty - General purpose
From pipe - Threaded or flanged weld type
Also ENI TUB 1 / 2 / 3 / 4



Threaded process connection Flanged process connection Without process connection

Description

TA540 is an industry standard thermowell, manufactured from pipe, with a round extension.

The process connection can be threaded or flanged weld.

The thermowell stem shape can be straight or tapered for fast response time.

The extension, the immersion and the total length can be chosen according to process requirements.

A wide choice of standard pipe sizes, materials and process connection is available; other versions can be ordered according to specification.

Different grades of flange finishing are also available.

Application

TA540 is designed for use with resistance and thermocouple thermometers mainly in heavy duty applications.

Technical data

Pipe	Standard reference:	ENI TUB 1, ENI TUB 2, ENI TUB 3, ENI TUB 4
	Round extension:	Ø 35 mm wrench
	O.D.:	1/4" sch. 40, 1/2" sch. 40/80, 3/4 sch. 40
	Standard inset diameter:	6 mm
	Standard material:	AISI316/W.1.4404, AISI446/W.1.4749

Connection to thermometer	Threaded:	1/2" NPT, 3/4" NPT - female
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Process connection	Type:	threaded or flanged weld
	Threaded:	1/2" NPT, 3/4" NPT, 1" NPT, 1 1/2" NPT
	Flange type:	ANSI blind, DIN 2527/2526 Form C, UNI6000
	Flange material:	AISI 316, A 105
	Flange mounting:	double side standard weld

Tip	Bottom shape:	straight or tapered
	Bottom thickness:	5 mm

Surface	Finishing:	refer to the order key
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Table 1

Connection to thermometer	
Thread	Engagement length C
1/2"NPT	8 mm
3/4" NPT	8.5 mm

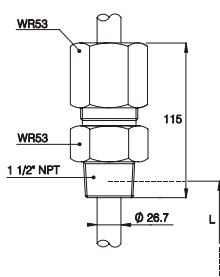
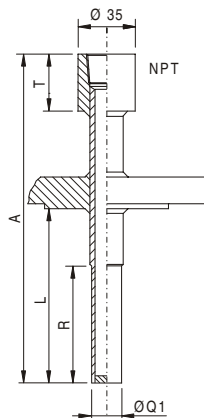
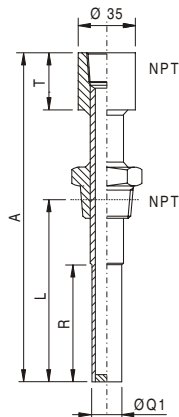
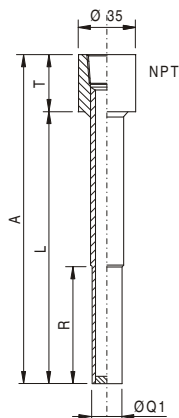
Table 2

Process connection	
Thread	Engagement length D
1/2"NPT	8 mm
3/4" NPT	8.5 mm
1" NPT	10 mm
1 1/2" NPT	10.5 mm

Order key

Notes:

- (1) Only for pipe size 1/2" Schedule 80 (Digit FC)
(2) Only for pipe size 1/4" (Digit AC, BC)
(3) Only for pipe size 1/4" and 1/2" (Digit AC, BC, EC, FC, EP)
(4) Special lengths calculated as table 3 next page.



Optional compression fitting
model TSPV-4701AA
for pipe size 3/4"

TA540-

HEAVY DUTY THERMOWELL - General purpose - From pipe
Threaded or flanged weld type - Also ENI TUB 1 / 2 / 3 / 4

Thermometer connection

- 1 Thermometer connection: 1/2" NPT
2 Thermometer connection: 3/4" NPT

Extension, thermowell shape and type

- A 40 mm =T R=00mm, none=Q1
B 40 mm =T R=110mm tapered, Q1=20mm tip dimension (1)
Y mm T Special tip (Q1=mm R=mm T=mm) (4)

Total Length A (140-4000mm)

- TF 150 mm total thermowell length A
YY mm total length A to specification

Thermowell type, price per mm A

- AC Pipe: 1/4" Sch.40 SS316/1.4401 (2) (3)
EC Pipe: 1/2" Sch.40 SS316/1.4401 (3)
FC Pipe: 1/2" Sch.80 SS316/1.4401 (1) (3)
EP Pipe: 1/2" Sch.40 SS446/1.4749 (3)
GC Pipe: 3/4" Sch.40 SS316/1.4401
GP Pipe: 3/4" Sch.40 SS446/1.4749
YY Special pipe

Process immersion length L(100-3700mm)

- 9 mm process immersion length L (4)

Process connection type

- AA Pipe without process connection
AB ANSI 1" 150 RF SS316 flange
AD ANSI 1" 300 RF SS316 flange
AH ANSI 1 1/2" 150 RF SS316 flange
AK ANSI 1 1/2" 300 RF SS316 flange
BE ANSI 1 1/2" 300 RTJ SS316 flange
AM ANSI 1 1/2" 600 RF SS316 flange
AV ANSI 2" 300 RF SS316 flange
AX ANSI 2" 300 RTJ SS316 flange
EA DN25 PN16 C SS316L flange
EC DN25 PN40 C SS316L flange
EG DN50 PN40 C SS316L flange
GA DN25 PN16 UNI6092(93)/29 SS316
GC DN25 PN40 UNI6094(95)/29 SS316
GG DN50 PN40 UNI6094(95)/29 SS316
PA 1/2" NPT mounting bush, SS 316 (2)
PB 3/4" NPT mounting bush, SS 316 (3)
PC 1" NPT mounting bush, SS 316
PD 1 1/2" NPT mounting bush, SS 316
YY Special version

Flange finishing

- 1 Finishing: not required (no flange)
2 Finishing: standard for ASME/ANSI
5 Finishing: Rz160 DIN 2526
6 Finishing: Smooth (125 AARH) for UNI
9 Flange finishing as specified

Plug and chain

- A Safety plug not selected
B Safety plug: SS 304 with chain

Markings

- 0 Markings not selected
1 Markings punched on

TA540-

Complete Order Code

Table 3

Length	Model of thermowell	
	without process connection	with process connection
Extension T	$T \geq 40 \text{ mm}$	$T \geq 40 \text{ mm}$
Total A	$A = T + L$	$A - (T+L) \geq 50 \text{ mm}$

Supplementary Documentation

- Technical Information Industrial Protecting Tubes (TI 138T/02/en)

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