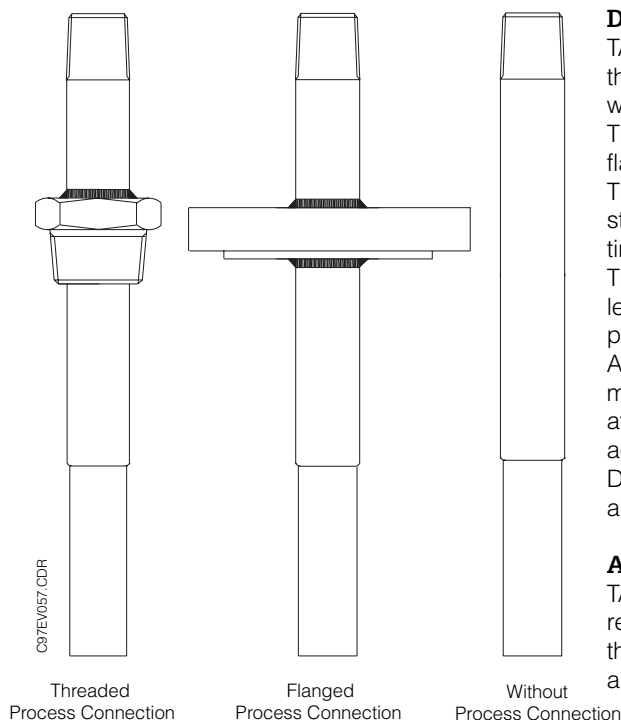


Industrial Protecting Tube *omnigrad TA541*

Heavy duty - General purpose
From pipe
Threaded or flanged weld type
Also ME U 819.05 - 9



Description

TA541 is an industry standard thermowell, manufactured from pipe, with a round extension.

The process connection is threaded or flanged weld.

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

The extension and the immersion lengths can be chosen according to process requirements.

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

Different grades of flange finishing are also available.

Application

TA541 is designed for use with resistance and thermocouple thermometers mainly in heavy duty applications.

Technical data

Pipe

Standard reference: ME U 819.05 - 9
Round extension: pipe size
O.D.: 1/2" sch. 40/80, 3/4" sch. 40/80
Standard inset diameter: 6 mm diameter
Standard material: AISI316 / W.1.4401

Connection to thermometer

Threaded: 1/2" NPT, 3/4" NPT, G 1/2", G 3/4" - male

Process connection

Type: threaded or flanged weld
Thread: 3/4" NPT, 1" NPT, 1 1/2" NPT
Flange type: ANSI blind, DIN 2527/2526 Form C, UNI 6000
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

Quality made by
Endress+Hauser



ISO 9001

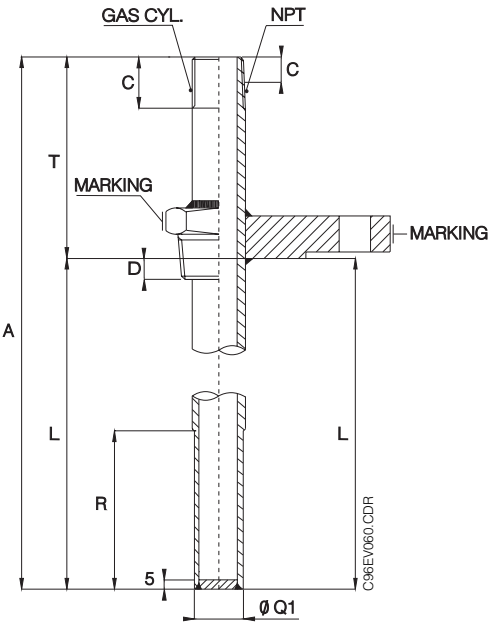
Endress+Hauser

Nothing beats know-how



Order key

TA541 - Heavy duty thermowell - General purpose - From pipe
Threaded or flanged weld type - Also ME U 819.05 - 9



TA541 with process connection
Note: all dimensions in millimeters

Thermometer connection
2 - NPT [1]
3 - GAS

Taper diameter Q1, Taper length R
A - No reduced tip, straight shape type
B - Q1 = 20 mm, R = 100 mm (ME U 819.05 - 9) [2]
Y - Q1 = mm, R = mm (to specification) [1]

Extension Length T (65 ÷ 300 mm) [5]
9 - mm length to specification

Immersion Length L (100 ÷ 3700 mm) [5]
9 - mm length to specification

Total Length A (T+L) (165 ÷ 4000 mm)
Y - mm length to specification

Material of Total Length A
Pipe size, Pipe schedule, Material
TC - 1/2", Sch. 40, AISI316/W.1.4401
UC - 1/2", Sch. 80, AISI316/W.1.4401
VC - 3/4", Sch. 40, AISI316/W.1.4401
WC - 3/4", Sch. 80, AISI316/W.1.4401
YY - Size, Schedule, Material to specification

Process connection / material
See next page

Flange finishing
1 - Not required (Without flange)
2 - Standard for ASME/ANSI
5 - Rz 160 DIN 2526
6 - Smooth (125 AARH) for UNI
9 - To specification

Plug and chain
A - Without plug and chain
B - AISI304 plug and chain

Markings
0 - None
1 - Punched on

Connection to thermometer	
Thread	Engagement length C
G 1/2"	25 mm
G 3/4"	
1/2" NPT	8 mm
3/4" NPT	8.5 mm

Table A

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

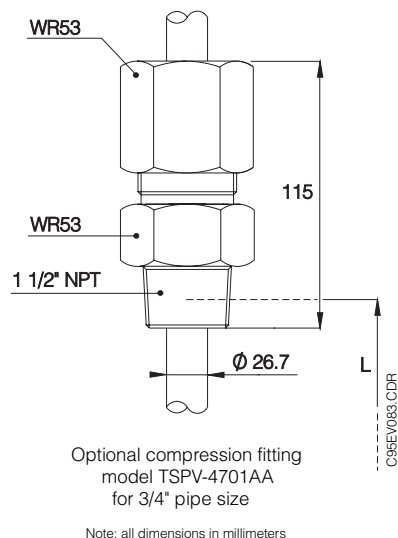
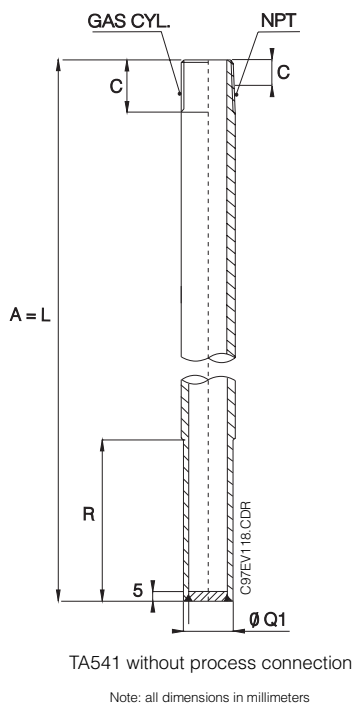
Table B

TA541-

Complete Order Code

Notes: [1] Only for pipe Schedule 80 (Digit UC, WC).
[2] Only for pipe Schedule 80 (Digit UC).
[3] Only for pipe size 1/2" (Digit TC, UC).
[4] Optional fitting must be ordered separately.
[5] Total Length A: 165 ÷ 4000 mm

Order key (continued)



Process connection / material AA - Without [4]

Blind flange

AB - Blind 1" ANSI 150 RF - AISI 316
AC - Blind 1" ANSI 150 RF - A 105
AD - Blind 1" ANSI 300 RF - AISI 316
AE - Blind 1" ANSI 300 RF - A 105
AF - Blind 1" ANSI 600 RF - AISI 316
AG - Blind 1" ANSI 600 RF - A 105
AH - Blind 1 1/2" ANSI 150 RF - AISI 316
AJ - Blind 1 1/2" ANSI 150 RF - A 105
AK - Blind 1 1/2" ANSI 300 RF - AISI 316
AL - Blind 1 1/2" ANSI 300 RF - A 105
BE - Blind 1 1/2" ANSI 300 RTJ - AISI 316
BF - Blind 1 1/2" ANSI 300 RTJ - A 105
AM - Blind 1 1/2" ANSI 600 RF - AISI 316
AN - Blind 1 1/2" ANSI 600 RF - A 105
AP - Blind 1 1/2" ANSI 600 RTJ - AISI 316
AQ - Blind 1 1/2" ANSI 600 RTJ - A 105
AV - Blind 2" ANSI 300 RF - AISI 316
AW - Blind 2" ANSI 300 RF - A 105
AX - Blind 2" ANSI 300 RTJ - AISI 316
AZ - Blind 2" ANSI 300 RTJ - A 105
BA - Blind 2" ANSI 600 RF - AISI 316
BB - Blind 2" ANSI 600 RF - A 105
BC - Blind 2" ANSI 600 RTJ - AISI 316
BD - Blind 2" ANSI 600 RTJ - A 105

DIN flange

EA - DN25PN16 DIN2527/2526 Form C / AISI 316
EB - DN25PN16 DIN2527/2526 Form C / A 105
EC - DN25PN40 DIN2527/2526 Form C / AISI 316
ED - DN25PN40 DIN2527/2526 Form C / A 105
EE - DN40PN40 DIN2527/2526 Form C / AISI 316
EF - DN40PN40 DIN2527/2526 Form C / A 105
EG - DN50PN40 DIN2527/2526 Form C / AISI 316
EH - DN50PN40 DIN2527/2526 Form C / A 105

UNI flange

GA - DN25PN16 UNI6092/29-6093/29 / AISI 316
GB - DN25PN16 UNI6092/29-6093/29 / A 105
GC - DN25PN40 UNI6094/29-6095/29 / AISI 316
GD - DN25PN40 UNI6094/29-6095/29 / A 105
GE - DN40PN40 UNI6094/29-6095/29 / AISI 316
GF - DN40PN40 UNI6094/29-6095/29 / A 105
GG - DN50PN40 UNI6094/29-6095/29 / AISI 316
GH - DN50PN40 UNI6094/29-6095/29 / A 105

Welded mounting bushing, Material

PB - 3/4" NPT mounting bushing, AISI 316 [3]
PC - 1" NPT mounting bushing, AISI 316
PD - 1 1/2" NPT mounting bushing, AISI 316

YY - Process connection / material to specification

Product designation for process connection / material

Export Division

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