## Rosemount 183 Sensor and Thermowell



The Rosemount 183 Sensor and Thermowell have designs that provide flexible and reliable temperature measurements in process environments.

#### Features include:

- Industry-standard sensor types, including J, K, E, and T thermocouple varieties
- Variety of enclosure and connection head options
- Global hazardous-location approvals (Option Codes E5, E6, E7)
- Assemble to Transmitter option (Option Code XA)

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## **Model codes**

Model codes contain the details related to each product. Exact model codes will vary; an example of a typical model code is shown in Figure 1.

Figure 3: Model Code Example

# 3144P D1 A 1 NA M5 DA1 Q4 1 2

- 1. Required model components (choices available on most)
- 2. Additional options (variety of features and functions that may be added to products)

## **Specifications and options**

See the Specifications and options section for more details on each configuration. Specification and selection of product materials, options, or components must be made by the purchaser of the equipment. See the Material selection section for more information.

# Rosemount Series 183 Thermocouple Sensor Assemblies without Thermowell

## **Required model components**

#### Model

Code	Description	
0183	Thermocouple sensor	*

#### **Connection head**

Code	Description	
R	Aluminum connection head, six terminals, flat cover, unpainted	*
Т	Aluminum connection head, six terminals, extended cover, unpainted	*
Р	Aluminum connection head, six terminals, flat cover, painted	*
L	Aluminum connection head, six terminals, extended cover, painted	*
N	Sensor only with 6-in. PTFE-insulated, 24-gauge lead wires	*
D	Rosemount aluminum connection head with ½-in. entries	*
С	Polypropylene connection head	
G	Rosemount SST connection head with ½-in. entries	

## Sensor type and junction for Capsule sensors

Not available with sensor lead wire termination codes R, P, or C or with approval options.

Codes A and C must be used with an extension length. Additional non-standard (E) lengths are available in  $\frac{1}{2}$ -in. increments from 2.5- to 9-in.

Code	Sensor type	Junction	
01	Single	Grounded	*
02	Dual	Grounded	*
03	Single	Ungrounded	*
04	Dual, unisolated	Ungrounded	*
05	Dual, isolated	Ungrounded	*

## Sensor type and junction for General purpose sensor

Available only with straight stem flanged thermowells.

Code	Sensor type	Junction	
11	Single	Grounded	*
12	Dual	Grounded	*
13	Single	Ungrounded	*
14	Dual, unisolated	Ungrounded	*
15	Dual, isolated	Ungrounded	*

## Sensor type and junction for Spring-loaded sensor

Code	Sensor type	Junction	
21	Single	Grounded	*
22	Dual	Grounded	*
23	Single	Ungrounded	*
24	Dual, unisolated	Ungrounded	*
25	Dual, isolated	Ungrounded	*

### Sensor type and junction for Bayonet spring-loaded sensor

Thermowells with an overall length ("U" + "T" + 1.75-in.) of 36-in. or less are machined from solid barstock. Thermowells with an overall length larger thank 42-in. will be constructed using a welded 3-piece design and are available only with a stepped stem style. For lengths between 36 and 42-in. consult factory for construction method.

Code	Sensor type	Junction	
31	Single	Grounded	
32	Dual	Grounded	
33	Single	Ungrounded	
34	Dual, unisolated	Ungrounded	
35	Dual, isolated	Ungrounded	

#### Thermocouple type and temperature range

Code	Description		
J2	J	0 to 760 °C (32 to 1400 °F)	*
K2	К	0 to 1150 °C (32 to 2102 °F)	*
E2	Е	0 to 871 °C (32 to 1600 °F)	*
T2	Т	−180 to 371 °C (−292 to 700 °F)	*

## Extension type and material

Code	Extension type	Material	
A <sup>(1)</sup>	Nipple coupling	300 series SST	*
C <sup>(1)</sup>	Nipple union	300 series SST	*
N	None (use with extension length option code 00)	None	

<sup>(1)</sup> Codes A and C must be used with an Extension Length.

## Extension length (E)

Code	Description	
00	00-in.	*
30	3.0-in.	*
60	6.0-in.	*

## Thermowell material

Code	Description	
N	No thermowell required	*

## Sensor immersion length (L)

Code	Description	
010 <sup>(1)</sup>	1.0-in,	*
015	1.5-in.	*
020	2.0-in.	*
025	2.5-in.	*
030	3.0-in.	*
035	3.5-in.	*
040	4.0-in.	*
045	4.5-in.	*
050	5.0-in.	*
055	5.5-in.	*
060	6.0-in.	*
065	6.5-in.	*
070	7.0-in.	*
075	7.5-in.	*
080	8.0-in.	*
085	8.5-in.	*
090	9.0-in.	*
095	9.5-in.	*
100	10.0-in.	*
105	10.5-in.	*
110	11.0-in.	*
115	11.5-in.	*
120	12.0-in.	*
125	12.5-in.	*
130	13.0-in.	*
135	13.5-in.	*
140	14.0-in.	*
145	14.5-in.	*
150	15.0-in.	*
155	15.5-in.	*
160	16.0-in.	*

165         16,5-in.         *           170         17,0-in.         *           175         17,5-in.         *           185         18,5-in.         *           185         18,5-in.         *           190         190-in.         *           200         20,0-in.         *           210         21,0-in.         *           210         21,0-in.         *           210         21,0-in.         *           210         22,0-in.         *           220         22,0-in.         *           220         22,0-in.         *           221         22,5-in.         *           220         22,0-in.         *           221         23,5-in.         *           240         24,0-in.         *           245         24,5-in.         *           240         24,0-in.         *           250         25,0-in.         *           270         25,0-in.         *           280         26,0-in.         *           280         28,0-in.         *           300         31,0-in.         *      <	Code	Description	
175         17.5 in.         *           180         18.0 in.         *           185         18.5 in.         *           190         190-in.         *           195         19.5 in.         *           200         20.0 in.         *           205         20.5 in.         *           210         21.0 in.         *           220         22.0 in.         *           220         22.5 in.         *           230         23.0 in.         *           240         24.0 in.         *           240         24.0 in.         *           240         24.0 in.         *           240         24.0 in.         *           240         25.0 in.         *           250         25.0 in.         *           260         26.0 in.         *           270         27.0 in.         *           280         28.0 in.         *           300         30.0 in.         *           310         31.0 in.         *           340         34.0 in.         *           350 in.         *           360 <td>165</td> <td>16.5-in.</td> <td>*</td>	165	16.5-in.	*
180         18.0 in.         *           185         18.5 in.         *           190         190 in.         *           195         19.5 in.         *           200         20.5 in.         *           210         21.0 in.         *           210         21.0 in.         *           210         22.5 in.         *           220         22.5 in.         *           230         23.0 in.         *           240         24.5 in.         *           240         24.5 in.         *           240         24.5 in.         *           250         25.0 in.         *           250         25.0 in.         *           260         26.0 in.         *           270         27.0 in.         *           280         28.0 in.         *           300         30.0 in.         *           310         31.0 in.         *           320         32.0 in.         *           340         34.0 in.         *           340         30.0 in.         *           340         34.0 in.         *      <	170	17.0-in.	*
185         18.5 in.         *           190         190-in.         *           185         19.5 in.         *           200         20.0 in.         *           205         20.5 in.         *           210         21.0 in.         *           215         21.5 in.         *           220         22.0 in.         *           220         23.0 in.         *           230         23.0 in.         *           240         24.0 in.         *           240         24.5 in.         *           250         25.0 in.         *           260         25.0 in.         *           250         25.0 in.         *           260         26.0 in.         *           270         27.0 in.         *           280         28.0 in.         *           300         30.in.         *           301         31.0 in.         *           302         32.0 in.         *           303         33.0 in.         *           340         34.0 in.         *           350         35.0 in.         * <tr< td=""><td>175</td><td>17.5-in.</td><td>*</td></tr<>	175	17.5-in.	*
190         190-in.         *           195         19.5-in.         *           200         20.0-in.         *           205         20.5-in.         *           210         21.0-in.         *           215         21.5-in.         *           220         22.0-in.         *           231         23.0-in.         *           232         23.5-in.         *           240         24.0-in.         *           245         24.5-in.         *           240         24.0-in.         *           250         25.0-in.         *           260         26.0-in.         *           270         27.0-in.         *           280         29.0-in.         *           300         30.0-in.         *           310         31.0-in.         *           320         32.0-in.         *           340         34.0-in.         *           340         35.0-in.         *           340         36.0-in.         *           350-in.         *           360         36.0-in.         *           380 <td>180</td> <td>18.0-in.</td> <td>*</td>	180	18.0-in.	*
195         19.5-in.         *           200         20.0-in.         *           205         20.5-in.         *           210         21.0-in.         *           215         21.5-in.         *           220         22.0-in.         *           230         23.0-in.         *           231         23.0-in.         *           240         24.0-in.         *           245         24.5-in.         *           250         25.0-in.         *           250         25.0-in.         *           260         26.0-in.         *           270         27.0-in.         *           280         28.0-in.         *           300         30.0-in.         *           301         31.0-in.         *           320         32.0-in.         *           340         34.0-in.         *           340         34.0-in.         *           350-in.         *           360         36.0-in.         *           370         37.0-in.         *           380         36.0-in.         *           370 </td <td>185</td> <td>18.5-in.</td> <td>*</td>	185	18.5-in.	*
200         20.0-in.         *           210         21.0-in.         *           211         21.5-in.         *           220         22.0-in.         *           220         22.5-in.         *           230         23.0-in.         *           231         23.5-in.         *           240         24.0-in.         *           240         24.5-in.         *           250         25.0-in.         *           250         25.0-in.         *           250         25.0-in.         *           260         26.0-in.         *           270         27.0-in.         *           280         28.0-in.         *           290         29.0-in.         *           300         30.0-in.         *           310         31.0-in.         *           320         32.0-in.         *           340         34.0-in.         *           350-in.         *           350         36.0-in.         *           370         37.0-in.         *           380         36.0-in.         *           370 </td <td>190</td> <td>190-in.</td> <td>*</td>	190	190-in.	*
205         20.5-in.         *           210         21.0-in.         *           215         21.5-in.         *           220         22.0-in.         *           225         22.5-in.         *           230         23.0-in.         *           240         24.0-in.         *           240         24.0-in.         *           245         24.5-in.         *           250         25.0-in.         *           260         26.0-in.         *           270         27.0-in.         *           280         28.0-in.         *           300         30.0-in.         *           300         30.0-in.         *           310         31.0-in.         *           330         32.0-in.         *           340         34.0-in.         *           340         35.0-in.         *           340         36.0-in.         *           350         35.0-in.         *           360         36.0-in.         *           370         37.0-in.         *           380         38.0-in.         *	195	19.5-in.	*
210         21.0-in.         *           215         21.5-in.         *           220         22.0-in.         *           225         22.5-in.         *           230         23.0-in.         *           235         23.5-in.         *           240         24.0-in.         *           245         24.5-in.         *           250         25.0-in.         *           260         26.0-in.         *           270         27.0-in.         *           280         28.0-in.         *           290         29.0-in.         *           300         30.0-in.         *           310         31.0-in.         *           330         33.0-in.         *           340         34.0-in.         *           340         34.0-in.         *           340         35.0-in.         *           350         35.0-in.         *           360         36.0-in.         *           370         37.0-in.         *           380         38.0-in.         *           380         39.0-in.         *	200	20.0-in.	*
215         21.5-in.         *           220         22.0-in.         *           225         22.5-in.         *           230         23.0-in.         *           235         23.5-in.         *           240         24.0-in.         *           245         24.5-in.         *           250         25.0-in.         *           260         26.0-in.         *           270         27.0-in.         *           280         28.0-in.         *           290         29.0-in.         *           300         30.0-in.         *           310         31.0-in.         *           320         32.0-in.         *           340         34.0-in.         *           350         35.0-in.         *           360         36.0-in.         *           370         37.0-in.         *           380         38.0-in.         *           380         38.0-in.         *           380         39.0-in.         *           380         39.0-in.         *           380         39.0-in.         *	205	20.5-in.	*
220         22.0-in.         *           225         22.5-in.         *           230         23.0-in.         *           235         23.5-in.         *           240         24.0-in.         *           245         24.5-in.         *           250         25.0-in.         *           260         26.0-in.         *           270         27.0-in.         *           280         28.0-in.         *           300         30.0-in.         *           310         31.0-in.         *           320         32.0-in.         *           340         34.0-in.         *           350         35.0-in.         *           360         36.0-in.         *           370         37.0-in.         *           380         38.0-in.         *           380         38.0-in.         *           380         39.0-in.         *           400         40.0-in.         *           400         40.0-in.         *           400         40.0-in.         *           410-in.         *           420-i	210	21.0-in.	*
225         22.5-in.         *           230         23.0-in.         *           245         24.0-in.         *           245         24.5-in.         *           250         25.0-in.         *           260         26.0-in.         *           270         27.0-in.         *           280         28.0-in.         *           300         30.0-in.         *           301         31.0-in.         *           320         32.0-in.         *           330         33.0-in.         *           340         34.0-in.         *           350         35.0-in.         *           360         36.0-in.         *           370         37.0-in.         *           380         30.0-in.         *           370         37.0-in.         *           380         39.0-in.         *           380         39.0-in.         *           380         30.0-in.         *           380         30.0-in.         *           380         30.0-in.         *           380         30.0-in.         *	215	21.5-in.	*
230         23.0-in.         *           235         23.5-in.         *           240         24.0-in.         *           245         24.5-in.         *           250         25.0-in.         *           260         26.0-in.         *           270         27.0-in.         *           280         28.0-in.         *           300         30.0-in.         *           310         31.0-in.         *           320         32.0-in.         *           330         33.0-in.         *           340         34.0-in.         *           350         35.0-in.         *           360         36.0-in.         *           370         37.0-in.         *           380         38.0-in.         *           390         39.0-in.         *           400         40.0-in.         *           400         40.0-in.         *           410-in.         *         *           420-in.         *         *	220	22.0-in.	*
235         23.5-in.         *           240         24.0-in.         *           245         24.5-in.         *           250         25.0-in.         *           260         26.0-in.         *           270         27.0-in.         *           280         28.0-in.         *           290         29.0-in.         *           300         30.0-in.         *           310         31.0-in.         *           320         32.0-in.         *           340         34.0-in.         *           350         35.0-in.         *           360         36.0-in.         *           370         37.0-in.         *           380         38.0-in.         *           390         39.0-in.         *           400         40.0-in.         *           400         40.0-in.         *           410         41.0-in.         *           420-in.         *         *	225	22.5-in.	*
240       24.0-in.       *         245       24.5-in.       *         250       25.0-in.       *         260       26.0-in.       *         270       27.0-in.       *         280       28.0-in.       *         290       29.0-in.       *         300       30.0-in.       *         310       31.0-in.       *         320       32.0-in.       *         340       34.0-in.       *         350       35.0-in.       *         360       36.0-in.       *         380       38.0-in.       *         390       39.0-in.       *         400       40.0-in.       *         400       40.0-in.       *         410       41.0-in.       *         420       42.0-in.       *	230	23.0-in.	*
245       24.5-in.       *         250       25.0-in.       *         260       26.0-in.       *         270       27.0-in.       *         280       28.0-in.       *         390       29.0-in.       *         310       31.0-in.       *         320       32.0-in.       *         330       33.0-in.       *         340       34.0-in.       *         350       35.0-in.       *         360       36.0-in.       *         370       37.0-in.       *         380       38.0-in.       *         390       39.0-in.       *         400       40.0-in.       *         410       41.0-in.       *         420       42.0-in.       *	235	23.5-in.	*
250       25.0-in.       *         260       26.0-in.       *         270       27.0-in.       *         280       28.0-in.       *         290       29.0-in.       *         300       30.0-in.       *         310       31.0-in.       *         320       32.0-in.       *         340       34.0-in.       *         350       35.0-in.       *         360       36.0-in.       *         370       37.0-in.       *         380       38.0-in.       *         390       39.0-in.       *         400       40.0-in.       *         400       40.0-in.       *         410       41.0-in.       *         420       42.0-in.       *	240	24.0-in.	*
260       26.0-in.       *         270       27.0-in.       *         280       28.0-in.       *         290       29.0-in.       *         300       30.0-in.       *         310       31.0-in.       *         320       32.0-in.       *         330       33.0-in.       *         340       34.0-in.       *         350       35.0-in.       *         360       36.0-in.       *         370       37.0-in.       *         380       38.0-in.       *         400       40.0-in.       *         400       40.0-in.       *         410       41.0-in.       *         420       42.0-in.       *	245	24.5-in.	*
270       27.0-in.       *         280       28.0-in.       *         290       29.0-in.       *         300       30.0-in.       *         310       31.0-in.       *         320       32.0-in.       *         340       34.0-in.       *         350       35.0-in.       *         360       36.0-in.       *         370       37.0-in.       *         380       38.0-in.       *         390       39.0-in.       *         400       40.0-in.       *         410       41.0-in.       *         420       42.0-in.       *	250	25.0-in.	*
280       28.0-in.       *         290       29.0-in.       *         300       30.0-in.       *         310       31.0-in.       *         320       32.0-in.       *         340       34.0-in.       *         350       35.0-in.       *         360       36.0-in.       *         370       37.0-in.       *         380       38.0-in.       *         390       39.0-in.       *         400       40.0-in.       *         410       41.0-in.       *         420       42.0-in.       *	260	26.0-in.	*
290       29.0-in.       *         300       30.0-in.       *         310       31.0-in.       *         320       32.0-in.       *         330       33.0-in.       *         340       34.0-in.       *         350       35.0-in.       *         360       36.0-in.       *         370       37.0-in.       *         380       38.0-in.       *         390       39.0-in.       *         400       40.0-in.       *         410       41.0-in.       *         420       42.0-in.       *	270	27.0-in.	*
300       30.0-in.       *         310       31.0-in.       *         320       32.0-in.       *         330       33.0-in.       *         340       34.0-in.       *         350       35.0-in.       *         360       36.0-in.       *         370       37.0-in.       *         380       38.0-in.       *         390       39.0-in.       *         400       40.0-in.       *         410       41.0-in.       *         420       42.0-in.       *	280	28.0-in.	*
310       31.0-in.       *         320       32.0-in.       *         330       33.0-in.       *         340       34.0-in.       *         350       35.0-in.       *         360       36.0-in.       *         370       37.0-in.       *         380       38.0-in.       *         390       39.0-in.       *         400       40.0-in.       *         410       41.0-in.       *         420       42.0-in.       *	290	29.0-in.	*
320       32.0-in.       *         330       33.0-in.       *         340       34.0-in.       *         350       35.0-in.       *         360       36.0-in.       *         370       37.0-in.       *         380       38.0-in.       *         400       40.0-in.       *         410       41.0-in.       *         420       42.0-in.       *	300	30.0-in.	*
330       33.0-in.       ★         340       34.0-in.       ★         350       35.0-in.       ★         360       36.0-in.       ★         370       37.0-in.       ★         380       38.0-in.       ★         390       39.0-in.       ★         400       40.0-in.       ★         410       41.0-in.       ★         420       42.0-in.       ★	310	31.0-in.	*
340       34.0-in.         350       35.0-in.         360       36.0-in.         370       37.0-in.         380       38.0-in.         390       39.0-in.         400       40.0-in.         410       41.0-in.         420       42.0-in.	320	32.0-in.	*
350       35.0-in.       ★         360       36.0-in.       ★         370       37.0-in.       ★         380       38.0-in.       ★         390       39.0-in.       ★         400       40.0-in.       ★         410       41.0-in.       ★         420       42.0-in.       ★	330	33.0-in.	*
360 36.0-in. ★ 370 37.0-in. ★ 380 38.0-in. ★ 390 39.0-in. ★ 400 40.0-in. ★ 410 41.0-in. ★ 420 42.0-in. ★	340	34.0-in.	*
370       37.0-in.       ★         380       38.0-in.       ★         390       39.0-in.       ★         400       40.0-in.       ★         410       41.0-in.       ★         420       42.0-in.       ★	350	35.0-in.	*
380       38.0-in.       ★         390       39.0-in.       ★         400       40.0-in.       ★         410       41.0-in.       ★         420       42.0-in.       ★	360	36.0-in.	*
390 39.0-in. ★ 400 40.0-in. ★ 410 41.0-in. ★ 420 42.0-in. ★	370	37.0-in.	*
400       40.0-in.       ★         410       41.0-in.       ★         420       42.0-in.       ★	380	38.0-in.	*
410 41.0-in. ★ 420 42.0-in. ★	390	39.0-in.	*
420 42.0-in. ★	400	40.0-in.	*
	410	41.0-in.	*
430 43.0-in. ★	420	42.0-in.	*
	430	43.0-in.	*

Code	Description	
440	44.0-in.	*
450	45.0-in.	*
460	46.0-in.	*
470	47.0-in.	*
480	48.0-in.	*

<sup>(1) 1-</sup>in. length without extension is only available in capsule style.

## **Additional options**

## **Approval options**

Code	Description	
E1	ATEX Flameproof approval	*
E2	Ex d- CEPEL Flameproof approval- Brazil	*
E5	FM Explosion-proof approval	*
E6	CSA Explosion-proof approval	*
E7	IECEx Flameproof approval	*
EM	Technical Regulations Customs Union (EAC) Flameproof	*
KD	Combination of FM Explosion-proof, CSA Explosion-proof, and ATEX Flameproof approval	*
KF	Combination of ATEX Flameproof and CSA Explosion-proof approval	*

## **Mounting adapters**

Code	Description	
M5-M7	Mounting adapter: Sensor compression fitting: 1/8–27 NPT, M6 = 1/4–18 NPT, M7 = 1/2–14 NPT	*

## Assemble to options

Code	Description	
XA	Assemble connection head or transmitter to a sensor assembly	*

# Rosemount Series 183 Thermocouple Sensor Assemblies with Thermowell

## **Required model components**

## Model

Code	Description	
0183	Thermocouple sensor	*

#### **Connection head**

Code	Description	
R	Aluminum connection head, six terminals, flat cover, unpainted	*
Т	Aluminum connection head, six terminals, extended cover, unpainted	*
Р	Aluminum connection head, six terminals, flat cover, painted	*
L	Aluminum connection head, six terminals, extended cover, painted	*
N	Sensor only with 6-in. PTFE-insulated, 24-gauge lead wires	*
D	Rosemount aluminum connection head with ½-in. entries	*
С	Polypropylene connection head	
G	Rosemount SST connection head with ½-in. entries	

## Sensor type and junction for Capsule sensors

Not available with sensor lead wire termination codes R, P, or C or with approval options.

Codes A and C must be used with an extension length. Additional non-standard (E) lengths are available in ½-in. increments from 2.5- to 9-in.

Code	Sensor type	Junction	
01	Single	Grounded	*
02	Dual	Grounded	*
03	Single	Ungrounded	*
04	Dual, unisolated	Ungrounded	*
05	Dual, isolated	Ungrounded	*

## Sensor type and junction for General purpose sensor

Available only with straight stem flanged thermowells.

Code	Sensor type	Junction	
11	Single	Grounded	*
12	Dual	Grounded	*
13	Single	Ungrounded	*
14	Dual, unisolated	Ungrounded	*
15	Dual, isolated	Ungrounded	*

## Sensor type and junction for Spring-loaded sensor

Code	Sensor type	Junction	
21	Single	Grounded	*
22	Dual	Grounded	*
23	Single	Ungrounded	*
24	Dual, unisolated	Ungrounded	*

Code	Sensor type	Junction	
25	Dual, isolated	Ungrounded	*

#### Sensor type and junction for Bayonet spring-loaded sensor

Thermowells with an overall length ("U" + "T" + 1.75-in.) of 36-in. or less are machined from solid barstock. Thermowells with an overall length larger thank 42-in. will be constructed using a welded 3-piece design and are available only with a stepped stem style. For lengths between 36 and 42-in. consult factory for construction method.

Code	Sensor type	Junction
31	Single	Grounded
32	Dual	Grounded
33	Single	Ungrounded
34	Dual, unisolated	Ungrounded
35	Dual, isolated	Ungrounded

## Extension type and material

Code	Extension type	Material	
A <sup>(1)</sup>	Nipple coupling	300 series SST	*
C <sup>(1)</sup>	Nipple union	300 series SST	*
N	None (use with extension length option code 00)	None	

<sup>(1)</sup> Codes A and C must be used with an Extension Length.

#### Extension length (E)

Code	Description	
00	00-in.	*
30	3.0-in.	*
60	6.0-in.	*

#### Thermowell material

Code	Description	
А	316 SST	*
В	304 SST	*
С	Carbon steel	*
D	316L SST	*
E	304L SST	*
F	Alloy 20	
G	Alloy 400	
Н	Alloy 600	
J	Alloy C-276	

Code	Description	
L	Alloy B	
М	304 SST with PTFE coating	
Р	Chrome Molybdenum Grade F22	
R	Nickel 200	
Т	Titanium	
U <sup>(1)</sup>	316 SST with tantalum sheath	
V	310 SST	
W	321 SST	
Z	Chrome Molybdenum Grade F11	

<sup>(1)</sup> Available only with straight stem flanged thermowells.

## Immersion (U), Thermowell (L), and Lagging (T) Length

Code	Immersion length (U)	Thermowell length (L) <sup>(1)</sup>	Lagging length (T) <sup>(2)</sup>	
015 <sup>(3)</sup>	1.5-in.	4.0-in.	1.0-in.	*
020(3)	2.0-in.	4.0-in.	0.5-in.	*
025 <sup>(3)</sup>	2.5-in.	4.0-in.	0.0-in.	*
030	3.0-in.	6.0-in.	1.5-in.	*
035	3.5-in.	6.0-in.	1.0-in.	*
040	4.0-in.	6.0-in.	0.5-in.	*
045	4.5-in.	6.0-in.	0.0-in.	*
050	5.0-in.	9.0-in.	2.5-in.	*
055	5.5-in.	9.0-in.	2.0-in.	*
060	6.0-in.	9.0-in.	1.5-in.	*
065	6.5-in.	9.0-in.	1.0-in.	*
070	7.0-in.	9.0-in.	0.5-in.	*
075	7.5-in.	9.0-in.	0.0-in.	*
080	8.0-in.	12.0-in.	2.5-in.	*
085	8.5-in.	12.0-in.	2.0-in.	*
090	9.0-in.	12.0-in.	1.5-in.	*
095	9.5-in.	12.0-in.	1.0-in.	*
100	10.0-in.	12.0-in.	0.5-in.	*
105	10.5-in.	12.0-in.	0.0-in.	*
110	11.0-in.	15.0-in.	2.5-in.	*
115	11.5-in.	15.0-in.	2.0-in.	*
120	12.0-in.	15.0-in.	1.5-in.	*
125	12.5-in.	15.0-in.	1.0-in.	*