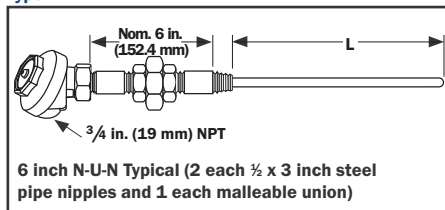
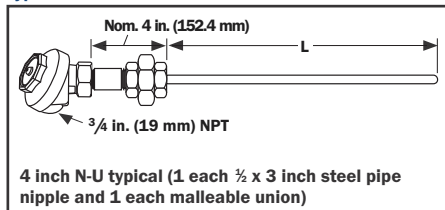
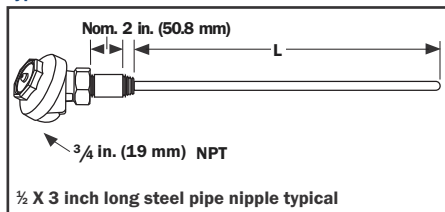
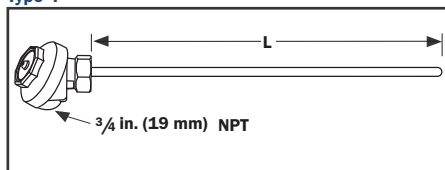


# RTDs For Use with Thermowells

## Style RT

**Type 1**

**Type 2**

**Type 3**

**Type 4**


### Features and Benefits

#### High quality thermowells and pipe wells

- Protect sensor

#### Mineral insulated construction

- Available in 0.125 to 0.250 inch O.D.

#### Available with spring-loading

- Ensures positive contact

#### Complete assembly available

- Head mounted 4-20mA transmitter, two- or three-wire input and non-isolated

#### Variety of connection head options

- Meet your application requirements

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15  
 R T 0 0

### 3. Sheath O.D. (inch)

G = 0.125 J = 0.250  
 H = 0.188

### 4. Connection Head

C = Polypropylene  
 D = Cast iron  
 E = Cast aluminum  
 H = Explosion proof  
 U<sup>①</sup> = E head with 5750 transmitter  
 V<sup>①</sup> = C head with 5750 transmitter  
 W<sup>①</sup> = H head with 5750 transmitter

### 5. Cold End Configuration<sup>②</sup>

Type 1 Type 2 Type 3 Type 4

### 6. Enter "0"

### 7. Sheath Construction

	-50 to 260 °C	-200 to 650 °C
	(-58 to 500 °F)	(-328 to 1200 °F)
Standard Industrial	316 SS	316 SS
Mineral Insulated	A	—
	—	K

### 8-9. Sheath Length "L" (see drawings at left)

When ordering a complete assembly with thermowell, specify "AR" as required. Otherwise, specify the "L" dimension in whole inches.

### 10. Sheath Length "L" (fractional inch)

0 = No fraction, whole inches  
 1 = 1/8    3 = 3/8    5 = 5/8    7 = 7/8  
 2 = 1/4    4 = 1/2    6 = 3/4

### 11. Element

	2-wire	3-wire	4-wire
100Ω Single	A	B	C

### 12. Temperature Coefficient

DIN 0.00385  
 A = Class A  
 B = Class B

### 14. Spring-Loading

Y = Yes    N = No

### 15. Special Requirements

0 = None  
 X = Special requirements, consult factory

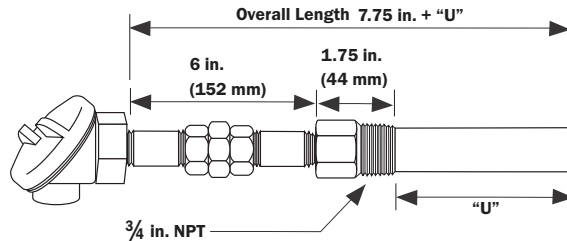
<sup>①</sup>Units with transmitter, buyer to specify range and degree C or F, as well as temperature span.

<sup>②</sup>Other sizes, lengths and materials available. Consult factory.

**Note:** For a complete sensor, add thermowell part number to the 15-digit RT part number. For sheath length use "AR" (as required) and factory will determine correct length. See thermowell section.

# RTDs For Use with Thermowells

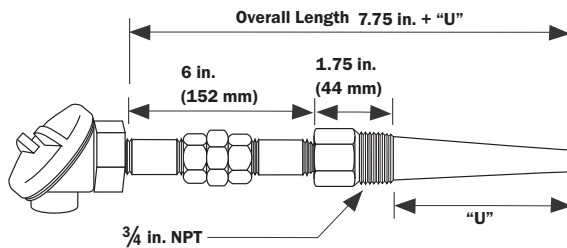
Style RT



### Straight Well

Standard sensors come with 316 SS straight well, nipple-union-nipple, 0.250 inch diameter spring loaded element, 100Ω DIN 0.00385 curve, Class A and three-wire RTD. Temperature rating -50 to 260°C (-58 to 500°F).

Calibration	"U"		Overall Length		Part Number
	in.	(mm)	in.	(mm)	
A	2.5	(64)	10.25	261	RTJE1SF024BA0Y0
	4.5	(114)	12.25	312	RTJE1SF044BA0Y0
	7.5	(191)	15.25	388	RTJE1SF074BA0Y0
	10.5	(267)	18.25	465	RTJE1SF104BA0Y0



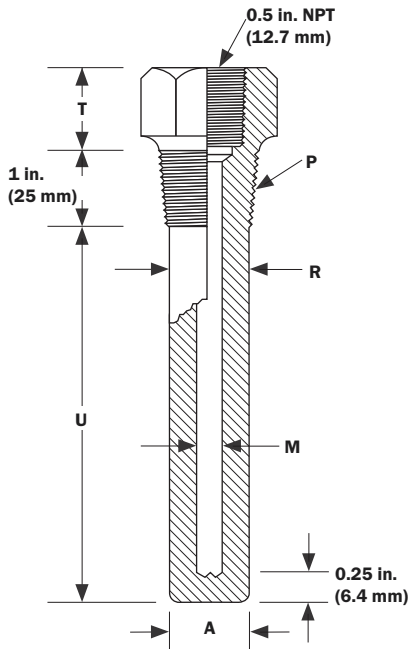
### Tapered Well

Standard sensors come with 316 SS tapered well, nipple-union-nipple, 0.250 inch diameter spring loaded element, 100Ω DIN 0.00385 curve, Class A and three-wire RTD. Temperature rating -50 to 260°C (-58 to 500°F).

Calibration	"U"		Overall Length		Part Number
	in.	(mm)	in.	(mm)	
A	2.5	(64)	10.25	261	RTJE1TF024BA0Y0
	4.5	(114)	12.25	312	RTJE1TF044BA0Y0
	7.5	(191)	15.25	388	RTJE1TF074BA0Y0
	10.5	(267)	18.25	465	RTJE1TF104BA0Y0

# Thermowells - Threaded Type–Straight

Style TTS



**Standard Bore Size:** 0.260 inch

**Standard Materials:** 304 SS, 316 SS, Monel®, Hastelloy C®

**Typical Dimensions**

Process Conn. NPT P in.	A in.	R in.	T in.
1	49/64	49/64	3/4
3/4	49/64	49/64	3/4

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15  
T T S

**2. Thermowell Style**

T = Threaded

**3. Stem Configuration**

S = Straight

**4-5. "U" Dimension (inches)**

Whole inches: 00 to 99

**6. "U" Dimension (fractional inch)**

- 0 = 0            4 = 1/2
- 1 = 1/8        5 = 5/8
- 2 = 1/4        6 = 3/4
- 3 = 3/8        7 = 7/8

**7. Thermowell Material**

- A = 304 SS
- C = 316 SS
- H = Monel®
- M = Hastelloy C-276®
- X = Other

**8. Process Connection Size "P" (inch)**

- D = 3/4 NPT
- E = 1 NPT
- X = Other

**9. Flange Rating**

0 = No flange

**10. Flange Face Type**

0 = No flange

**11. Flange Material**

0 = No flange

**12. Lag "T" (Inches)**

Whole inches: 0 to 9

**13. Lag "T" (fractional inch)**

- 0 = 0            4 = 1/2
- 1 = 1/8        5 = 5/8
- 2 = 1/4        6 = 3/4 Industry Standard
- 3 = 3/8        7 = 7/8

**14. Bore Diameter "M" (inch)**

- A = 0.260
- B = 0.385
- X = Other

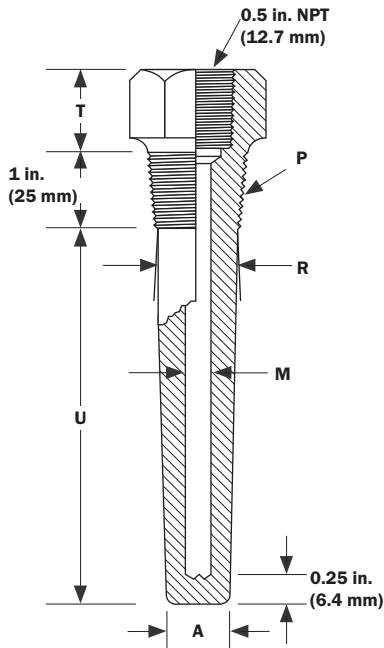
**15. Special Options**

- 0 = None
- X = Special requirements, consult factory



# Thermowells - Threaded Type-Tapered

Style TTT



**Standard Bore Size:** 0.260 inch

**Standard Materials:** 304 SS, 316 SS, Monel®, Hastelloy C®

**Typical Dimensions**

Process Conn. NPT P in.	A in.	M in.	R in.	T in.
1	49/64	0.385	1 7/16	3/4
3/4	49/64	0.385	7/8	3/4
1	5/8	0.260	1 7/16	3/4
3/4	5/8	0.260	7/8	3/4

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

**2. Thermowell Style**

T = Threaded

**3. Stem Configuration**

T = Standard taper

**4-5. "U" Dimension (inches)**

Whole inches: 00 to 99

**6. "U" Dimension (fractional inch)**

0 = 0            4 = 1/2  
 1 = 1/8        5 = 5/8  
 2 = 1/4        6 = 3/4  
 3 = 3/8        7 = 7/8

**7. Thermowell Material**

A = 304 SS  
 C = 316 SS  
 H = Monel®  
 M = Hastelloy C-276®  
 X = Other

**8. Process Connection Size "P" (inch)**

D = 3/4 NPT  
 E = 1 NPT  
 X = Other

**9. Flange Rating**

0 = No flange

**10. Flange Face Type**

0 = No flange

**11. Flange Material**

0 = No flange

**12. Lag "T" (inches)**

Whole inches: 0 to 9

**13. Lag "T" (fractional inch)**

0 = 0            4 = 1/2  
 1 = 1/8        5 = 5/8  
 2 = 1/4        6 = 3/4 Industry Standard  
 3 = 3/8        7 = 7/8

**14. Bore Diameter "M" (inch)**

A = 0.260  
 B = 0.385  
 X = Other

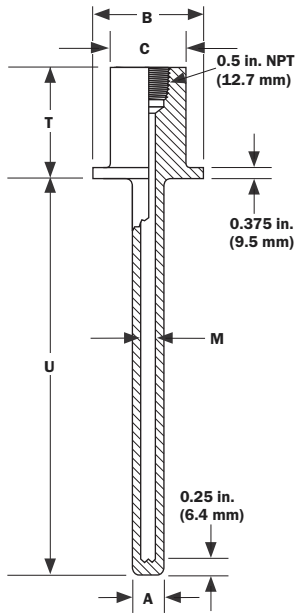
**15. Special Options**

0 = None  
 X = Special requirements, consult factory

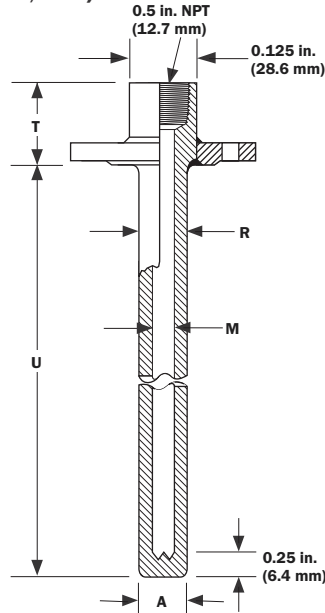


## Other Available Thermowells

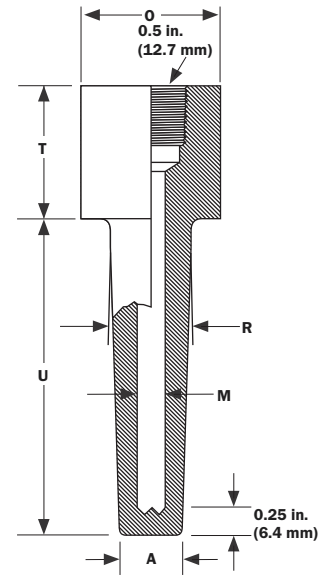
**Van Stone Type (TVS)**



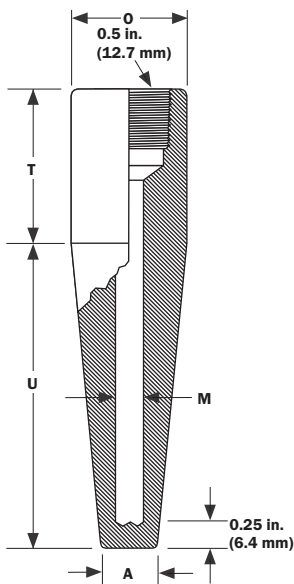
**Welded Flange Well (TFS, TFT)**



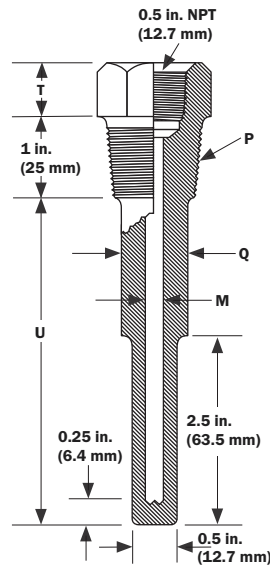
**Socket Weld Type (TST)**



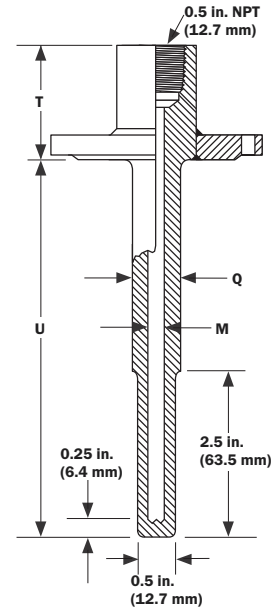
**Weld-In Type (TWT)**



**Bimetallic Thermometer Wells-Threaded Type (TBD)**



**Bimetallic Thermometer Well-Flanged Type (TFD)**



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**Ontario (Head Office)**  
212 Watline Ave  
Mississauga ON, L4Z 1P4  
T: (905) 568-3100  
F: (905) 568-3131

**Québec**  
2337 rue Guénette  
St. Laurent QC, H4R 2E9  
T: (514) 334-4744  
F: (514) 334-0834

**Alberta**  
4754-14 Street NE  
Calgary AB, T2E 6L7  
T: (403) 291-1156  
F: (403) 291-2630

**British Columbia**  
55B Fawcett Road  
Coquitlam BC, V3K 6V2  
T: (604) 525-7071  
F: (604) 525-7797



[info@zesta.com](mailto:info@zesta.com)  
1-800-755-5418