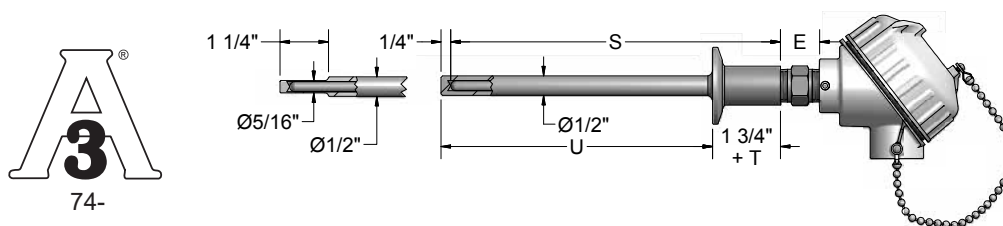The RTD sensors listed below are constructed with the CIP sanitary-connected cap thermowell, which is then mounted into the process with a clamp and mating sanitary cap. A 3-wire spring-loaded RTD element and sheath is then screwed into the back of the thermowell. This construction method allows for easy removal of both the well and/or the sensor assembly. The well and sanitary cap in contact with the process are all ground and polished to a finish that exceeds the **3-A Sanitary Standard 74-** . Thermowells are supplied with a surface finish that meets or exceeds 32µin R_a. Surface finishes of 15µin R_a or better are available upon request.

ORDER CODES

	1-0	1-1	2	2-1	2-2	2-3	3	4	5
Example Order Number:	R5T185L48	3	DW4	25	06	08	SL	8HN	63

1-0 Pt100 (α = 0.003 85 °C⁻¹) RTD Assemblies

CODE	TOLERANCE[1]
SINGLE	
R1T185L48	Grade B
R3T185L48	Class AA
R5T185L48	(1/5) Class B
RAF185L48	Class A
DUPLEX	
R1T285L48	Grade B
R3T285L48	Class AA
R5T285L48	(1/5) Class B
RAF285L48	Class A

[1] Refer to RTD tolerance information in the General Information section for calculations to determine specific tolerance at temperature.

1-1 Element Connection

CODE	DESCRIPTION
3	3-Wire Element
4 [1]	4-Wire Element

[1] Not Available in Duplex

2 Well Type

CODE	DESCRIPTION
DW4[1]	0.260" bore straight-stem sanitary well
DR4[2]	0.260" bore reduced-tip sanitary well

[1] Wells with "S" dimensions of 12" or less are supplied with drilled barstock stem. "S" dimensions above 12" will be supplied as tubing and welded tip.
[2] Maximum "S" Dimension is 7 1/2"

2.1 Cap Size and Style

CODE	DESCRIPTION
15	1", 1 1/2" Tri-clamp® 16 AMP
25	2" Tri-clamp® 16 AMP
35	2 1/2" Tri-clamp® 16 AMP
45	3" Tri-clamp® 16 AMP

Other styles - sizes available. Consult factory.

Tri-Clamp® is a registered trademark of Alfa Laval, Inc.
HART® is a registered trademark of HART Communication Foundation.

2.2 "S" Length

CODE	DESCRIPTION
XX	Specify length in inches using two digits.

2.3 Well Material

CODE	DESCRIPTION
08	316SS

3 Element Style

CODE	DESCRIPTION
SL[1]	Spring-loaded element
SC	Self-contained spring-loaded element

[1] Not available with 35, 36, or 37 series Transmitters

4 Head Mounting Fittings

CODE	DESCRIPTION
8HN	316SS hex fitting
8PN(E)	316SS pipe nipple specify E length

5 Terminations

CODE	DESCRIPTION
91	316L stainless steel screw-cover head
63	White polypropylene screw-cover head
31,W	Aluminum screw-cover head with white epoxy coating
35T 142A	(4 to 20) mA HART® Field Transmitter with aluminum general-purpose housing
36T71-D10	(4 to 20) mA isolated Programmable transmitter with digital display and general purpose aluminum housing with glass lid
36T72-D10	(4 to 20) mA isolated Programmable HART® transmitter with digital display and general purpose aluminum housing with glass lid
36T82-D10	(4 to 20) mA dual input HART® transmitter with digital display and general-purpose aluminum housing with glass lid
Head Options	
T31	(4 to 20) mA head-mounted RTD transmitter
T71-00	(4 to 20) mA isolated Programmable transmitter
T72-00	(4 to 20) mA dual input, isolated HART® head-mounted transmitter
T82-00	(4 to 20) mA dual input HART® head-mounted transmitter
I	Stainless steel tags (specify tag #)