

# pro<sup>sense</sup>® RTD Spring-Loaded Probes with Hex Nipple



**CHSC-AL-1**



**CHTB-3**

**Accessories**

## Overview

- Spring-loaded for positive tip contact in thermowells
- 100 ohm platinum RTD 3-wire element
- Class A accuracy
- 1/4" diameter, 316 stainless steel sheath to protect against harsh environments
- RTD element encased in alumina powder insulation provides excellent vibration dampening and heat transfer
- 4", 6", or 12" probe length
- 1/2" x 1/2" NPT hex nipple allows easy replacement of existing probes and connection to a wiring junction box
- Made in the USA

RTD Spring-Loaded Probes with Hex Nipple								
Part Number	Pcs/Pkg	Wt (lb)	Price	Type	Probe Diameter (O.D.)	Probe Length	Temperature Sensing Range	Mounting
<b>RTD1-H04L01-02</b>	1	0.5	\$76.00	PT 100, 3-wire	1/4"	4"	-50 to 300°C (-58 to 572°F)	Integral 1/2" x 1/2" NPT Hex Nipple, 316 SS
<b>RTD1-H06L01-02</b>			\$80.00			6"		
<b>RTD1-H12L01-02</b>			\$86.00			12"		

Technical Specifications	
<b>Sensing Element</b>	Single 100Ω platinum (Pt 100), 3-wire; TCR = 0.00385 Ω/Ω/°C
<b>Initial Accuracy</b>	Class A ±[0.15 +0.002  t ] °C
<b>Probe</b>	ø1/4", 316 stainless steel sheath, single RTD is embedded in alumina powder
<b>Response Time</b>	7 seconds, 63% of a 25 to 77°C step change (ASTM E1137)
<b>Wiring</b>	3-inch stranded 24 AWG wire leads with terminal pins, Kapton insulated

Note: See end of section for thermowells to fit these unit.

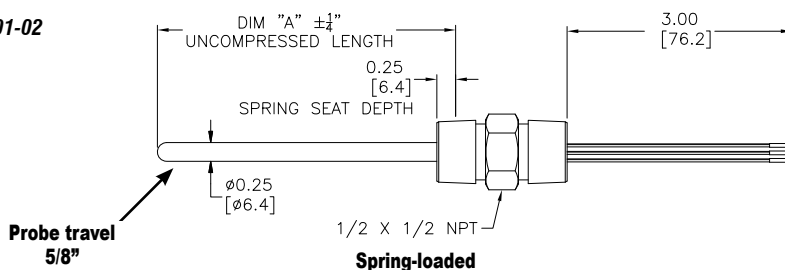


Note: Check the chemical compatibility of the sensor's wetted parts with the medium to be measured.

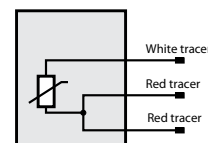
## Dimensions

inches [mm]

**RTD1-HXXL01-02**



## Wiring Information



PART NUMBER	DIM "A"
RTD1-H04L01-02	4.00[101.6]
RTD1-H06L01-02	6.00[152.4]
RTD1-H12L01-02	12.00[304.8]

# proSense® RTD Spring-Loaded Probes with Hex Nipple

## Accessories

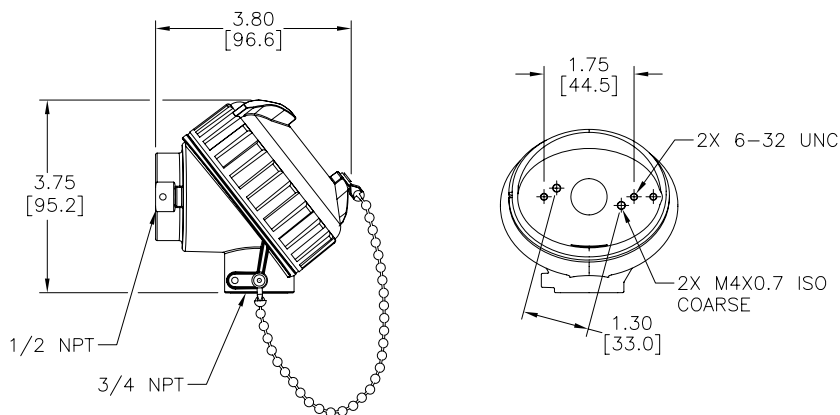
Part No.	Description	Pcs/Pkg	Price
<b>CHSC-AL-1</b>	ProSense general purpose screw cover connection head for temperature probes, die-cast aluminum, 1/2 inch NPT process opening, 3/4 inch NPT conduit opening, NEMA 4X, IP66 rated, graphite gasket, maximum temperature rating of 825°F (440°C). Order probe and terminal base separately.	1	\$23.00
<b>CHTB-3</b>	ProSense ceramic terminal base, three brass terminals with stainless steel screws, for use with ProSense temperature probe connection heads, two mounting screws included.	1	\$7.00

Note: Full listing of accessories available at the end of this section. RTD extension lead wire available at [www.automationdirect.com](http://www.automationdirect.com)

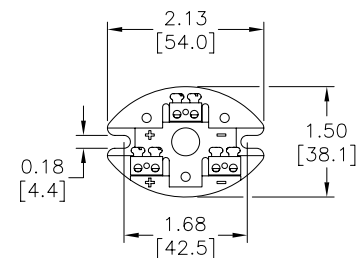
## Dimensions

inches [mm]

### CHSC-AL-1



### CHTB-3



# proSense® Thermowells



## Overview

- Thermowells designed for use with ProSense thermocouple and RTD probes or ProSense Thermometers eliminate the need for a separate probe mounting fitting or adapter

### RTDTW Series Thermowells

- Welded 316 stainless steel construction
- 1/2" NPT male process threads
- 3-year warranty

### TW Series Thermowells

- Drilled bar stock one piece construction (no welds) from 304 or 316 stainless steel
- 1/2" and 3/4" NPT male process threads available
- Designs and fabrication comply with ASME B31.1 and boiler and pressure vessel codes
- Material complies with NACE MR 0175 / ISO 15156
- CRN registered for all Canadian provinces
- 1-year warranty



## Thermowells for Thermocouples -TW Series

Part Number	Pcs/Pkg	Wt(lb)	Price	I.D.	Overall Length/"U" Length	Male Process Threads	Female Probe Threads	Wetted Material	Temperature/Pressure Rating	Use With Probe or Thermometer	
<a href="#">TW025-01</a>	1	0.4	\$29.50	0.26"	2-3/4" / 1"	1/2" NPT	1/2" NPT	304 SS	304SS: 1000°F max; 3400psi max	See Sensor Compatibility Table	
<a href="#">TW025-03</a>	1	0.4	\$34.50			1/2" NPT		316 SS			
<a href="#">TW04-01</a>	1	0.5	\$34.00		4-1/4" / 2-1/2"	1/2" NPT		304 SS			
<a href="#">TW04-02</a>	1	0.5	\$34.00			3/4" NPT		304 SS			
<a href="#">TW04-03</a>	1	0.5	\$42.50			1/2" NPT		316 SS			
<a href="#">TW04-04</a>	1	0.5	\$42.50			3/4" NPT		316 SS			
<a href="#">TW06-01</a>	1	0.7	\$46.00		6-1/4" / 4-1/2"	1/2" NPT		304 SS			304SS: 1000°F max; 3400psi max
<a href="#">TW06-02</a>	1	0.7	\$46.00			3/4" NPT		304 SS			
<a href="#">TW06-03</a>	1	0.7	\$54.00			1/2" NPT		316 SS			316SS: 1000°F max; 5200psi max
<a href="#">TW06-04</a>	1	0.7	\$54.00			3/4" NPT		316 SS			
<a href="#">TW09-01</a>	1	1.0	\$67.00		9-1/4" / 7-1/2"	1/2" NPT		304 SS			
<a href="#">TW09-03</a>	1	1.0	\$78.00			1/2" NPT		316 SS			
<a href="#">TW12-01</a>	1	1.2	\$74.00		12-1/4" / 10-1/2"	1/2" NPT		304 SS			
<a href="#">TW12-02</a>	1	1.2	\$74.00			3/4" NPT		304 SS			
<a href="#">TW12-03</a>	1	1.2	\$93.00			1/2" NPT		316 SS			
<a href="#">TW12-04</a>	1	1.2	\$93.00			3/4" NPT		316 SS			

# proSense® Thermowells

Thermowells for Thermocouples -RTDTW Series										
Part Number	Pcs/Pkg	Wt(lb)	Price	I.D.	Overall Length	Male Process Threads	Female Probe Threads	Wetted Material	Temperature/Pressure Rating	Use With
<a href="#"><u>RTDTW-06-010-50N</u></a>	1	0.10	\$39.00	7 mm (0.28")	113mm (4.4")	1/2" NPT	1/4" NPT	316 SS	600°F (315°C) max; 232 psi (16 bar) max	XTP-160-N40140F XTP-160-0300F XTP-160-0100C RTD0100-06-010-H CF06-25N fitting
<a href="#"><u>RTDTW-06-020-50N</u></a>	1	0.20	\$42.00		213mm (8.4")					XTP-260-N40140F XTP-260-0300F XTP-260-0100C RTD0100-06-020-H CF06-25N fitting
<a href="#"><u>RTDTW-06-030-50N</u></a>	1	0.30	\$46.00		313mm (12.3")					XTP-360-N40140F XTP-360-0300F XTP-360-0100C RTD0100-06-030-H CF06-25N fitting
<a href="#"><u>RTDTW-10-010-50N</u></a>	1	0.10	\$39.00	11 mm (0.43")	92mm (3.62")	1/2" NPT	1/2" NPT			RTD0100-10-010-H CF10-50N fitting
<a href="#"><u>RTDTW-10-030-50N</u></a>	1	0.22	Retired		292mm (11.48")					CF10-50N fitting

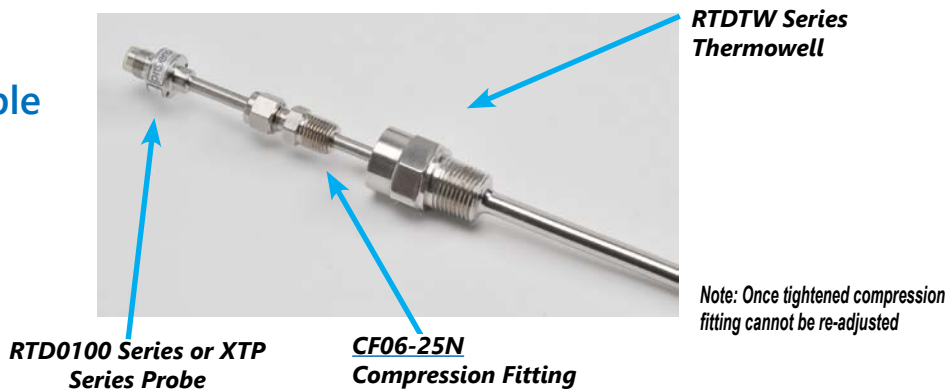


Note: Check the chemical compatibility of the thermowell's wetted parts with the medium to be measured.



Note: Response time will be slower when installed in a thermowell. Be sure to install the probe so that it contacts the end of the thermowell for faster response. Thermal compound may be used depending on application

## Probe & Thermowell Assembly Example



## Spring-loaded Thermocouple or RTD and Thermowell Assembly Example



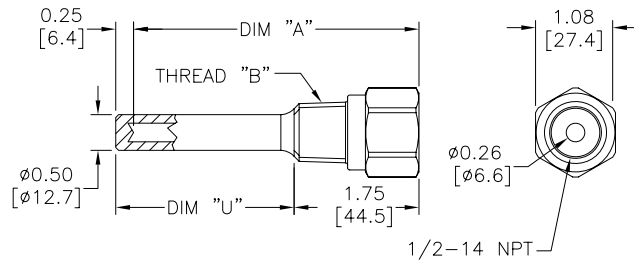
- Using spring-loaded probe design ensures positive tip contact with the bottom of the thermowell.
- Probes with hex nipple thread directly into thermowell. No additional probe mounting fittings are required.

# proSense® Thermowells

## Dimensions

inches [mm]

TW04-XX & TW025-XX

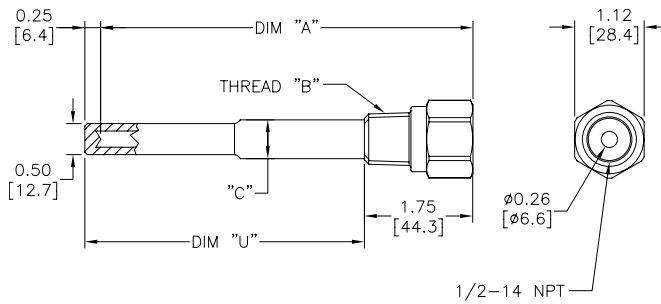


PART NUMBER	DIM "A"	THREAD "B" NPT	DIM "U"
TW025-01	2.50[63.5]	1/2-14	1.00[25.5]
TW025-03	2.50[63.5]	1/2-14	
TW04-01	4.00[101.6]	1/2-14	
TW04-02	4.00[101.6]	3/4-14	2.50[63.5]
TW04-03	4.00[101.6]	1/2-14	
TW04-04	4.00[101.6]	3/4-14	

## Dimensions

inches [mm]

TW06-XX  
TW09-XX  
TW12-XX



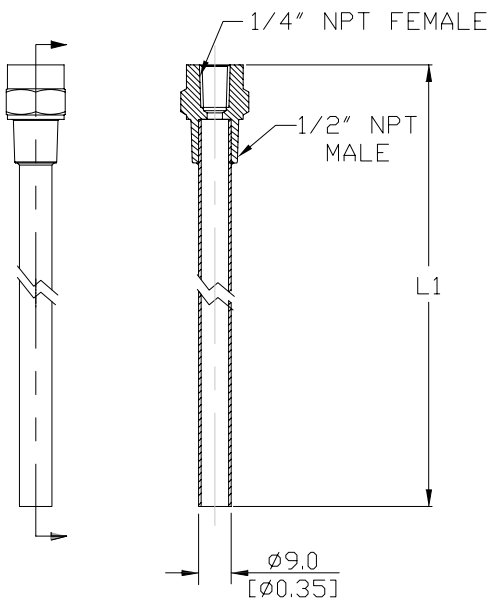
PART NUMBER	DIM "A"	THREAD "B" NPT	DIM "C"	DIM "U"
TW06-01	6.00[152.4]	1/2-14	0.63[15.9]	4.50[114.3]
TW06-02	6.00[152.4]	3/4-14	0.75[19.1]	
TW06-03	6.00[152.4]	1/2-14	0.63[15.9]	
TW06-04	6.00[152.4]	3/4-14	0.75[19.1]	7.50[190.5]
TW09-01	9.00[228.6]	1/2-14	0.63[15.9]	
TW09-03	9.00[228.6]	1/2-14	0.63[15.9]	
TW12-01	12.00[304.8]	1/2-14	0.63[15.9]	10.50[266.7]
TW12-02	12.00[304.8]	3/4-14	0.75[19.1]	
TW12-03	12.00[304.8]	1/2-14	0.63[15.9]	
TW12-04	12.00[304.8]	3/4-14	0.75[19.1]	

# proSense® Thermowells

## Dimensions

mm [inches]

### RTDTW-06 Series

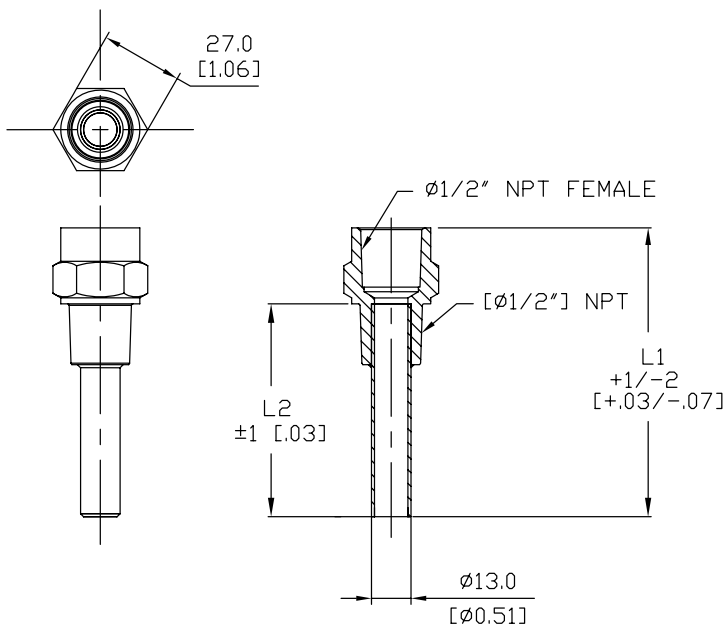


Part Number	L1
<a href="#">RTDTW-06-010-50N</a>	113mm [ 4.4]
<a href="#">RTDTW-06-020-50N</a>	213mm [ 8.4]
<a href="#">RTDTW-06-030-50N</a>	313mm [12.3]

Torque threads to 40 lb-ft [54.23 Nm]\*

\* Torque values are for reference. Actual torque required for a proper seal of NPT threads is influenced by tolerance, sealant, lubricant, etc.

### RTDTW-10 Series











Part Number	L1	L2
<a href="#">RTDTW-10-030-50N</a>	92mm [ 3.62]	70mm [ 2.75]
<a href="#">RTDTW-10-050-50N</a>	292mm [11.48]	270mm [10.6]

Torque threads to 40 lb-ft [54.23 Nm]\*

# pro<sup>sense</sup> Thermowells

**TW Series Thermowells Sensor Compatibility Table**

Thermowell	Junction Box	Connection Head	Hex Nipple	Attached Plug	Lead Wire Transition	M12	Thermometer
							
<b><u>TW025-01</u></b> <b><u>TW025-03</u></b>	-	-	-	-	-	-	T30-N40160-25C T30-0250-25C T30-50500-25C T30-150750-25C T50-N40160-25A T50-0250-25A T50-50500-25A T50-150750-25A
<b><u>TW04-01</u></b> <b><u>TW04-02</u></b> <b><u>TW04-03</u></b> <b><u>TW04-04</u></b>	NTC10K3-JB04-03	RTD1-C04-03 THMJ-C04-03 THMK-C04-03 NTC10K3-C04-03	RTD1-H04L01-02 THMJ-H04L01-02 THMK-H04L01-02 NTC10K3-H04L01-02	RTD1-P06-01 w/ CF14-50N THMJ-P06-02 w/ CF14-50N THMK-P06-02 w/ CF14-50N NTC10K3-P06-02 w/ CF14-50N	RTD1-T06L06-01 w/ CF14-50N THMJ-T06L06-02 w/ CF14-50N THMK-T06L06-02 w/ CF14-50N NTC10K3-T06L06-02 w/CF14-50N	RTD1-50N-100-H RTD0100-06-010-H w/CF14-50N XTP-160-N40140F w/CF14-50N XTP-160-0300F w/CF14-50N XTP-160-0100C w/CF14-50N XTP50N-100-N40140F XTP50N-100-0300F XTP50N-100-0100C ETS50N-100-1001 ETS50N-100-1003	T30-N40160-4C T30-0250-4C T30-50500-4C T30-150750-4C T50-N40160-4A T50-0250-4A T50-50500-4A T50-150750-4A
<b><u>TW06-01</u></b> <b><u>TW06-02</u></b> <b><u>TW06-03</u></b> <b><u>TW06-04</u></b>	NTC10K3-JB06-03	RTD1-C06-03 THMJ-C06-03 THMK-C06-03 NTC10K3-C06-03	RTD1-H06L01-02 THMJ-H06L01-02 THMK-H06L01-02 NTC10K3-H06L01-02	RTD1-P12-01 w/ CF14-50N THMJ-P12-02 w/ CF14-50N THMK-P12-02 w/ CF14-50N NTC10K3-P12-02 w/ CF14-50N	RTD1-T12L06-01 w/ CF14-50N THMJ-T12L06-02 w/ CF14-50N THMK-T12L06-02 w/ CF14-50N NTC10K3-T12L06-02 w/CF14-50N	RTD1-50N-150-H RTD0100-06-020-H w/CF14-50N XTP-260-N40140F w/CF14-50N XTP-260-0300F w/CF14-50N XTP-260-0100C w/CF14-50N XTP50N-150-N40140F XTP50N-150-0300F XTP50N-150-0100C ETS50N-150-1001 ETS50N-150-1003	T30-N40160-6C T30-0250-6C T30-50500-6C T30-150750-6C T50-N40160-6A T50-0250-6A T50-50500-6A T50-150750-6A
<b><u>TW09-01</u></b> <b><u>TW09-03</u></b>	-	-	-	-	-	-	T50-N40160-9A T50-0250-9A T50-50500-9A T50-150750-9A
<b><u>TW12-01</u></b> <b><u>TW12-02</u></b> <b><u>TW12-03</u></b> <b><u>TW12-04</u></b>	NTC10K3-JB12-03	RTD1-C12-03 THMJ-C12-03 THMK-C12-03 NTC10K3-C12-03	RTD1-H12L01-02 THMJ-H12L01-02 THMK-H12L01-02 NTC10K3-H12L01-02	RTD1-P18-01 w/ CF14-50N THMJ-P18-02 w/ CF14-50N THMK-P18-02 w/ CF14-50N NTC10K3-P18-02 w/ CF14-50N	RTD1-T18L06-01 w/ CF14-50N THMJ-T18L06-02 w/ CF14-50N THMK-T18L06-02 w/ CF14-50N NTC10K3-T18L06-02 w/CF14-50N	RTD0100-06-030-H w/CF14-50N XTP-360-N40140F w/CF14-50N XTP-360-0300F w/CF14-50N XTP-360-0100C w/CF14-50N	-

 *Note: Response time will be slower when installed in a thermowell. Be sure to install the probe so that it contacts the end of the thermowell for faster response. Thermal compound may be used depending on application.*

# proSense® Thermowells Sanitary Clean-in-Place (CIP)



STW06-01

## Overview

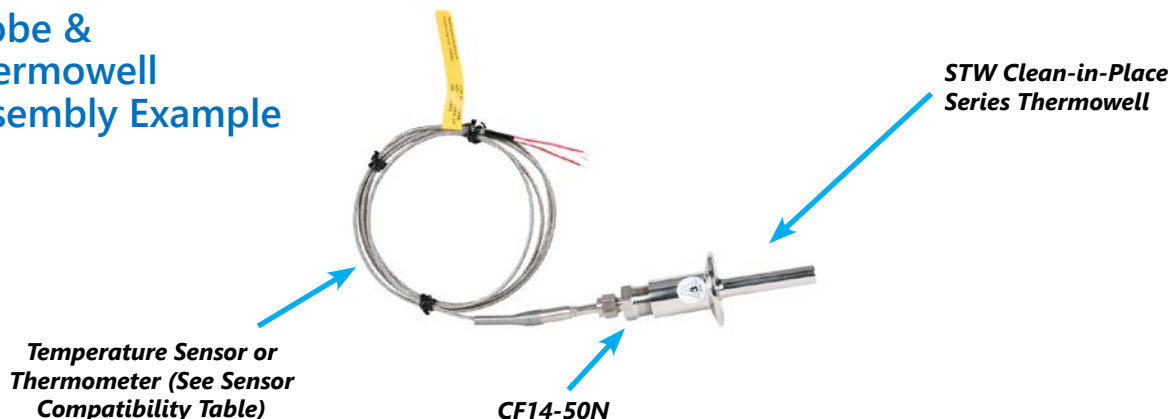
- Sanitary Clean-In-Place 3-A approved thermowells allow the use of standard temperature sensors in hygienic applications
- All wetted parts are 316 stainless steel
- Surface finish that meets or exceeds 32µin Ra
- Up to 1500/1200 psi (103/83 bar) at 70/250 °F (21/121 °C) dependent on clamp and seal assembly.
- Bore diameter of 0.260" to accommodate sensing probes with a 0.252" maximum diameter
- Probes with integral 1/2" male NPT process threads mount directly into the thermowell. Probes without threads require a compression fitting with 1/2" male NPT threads.



Thermowells Sanitary Clean-in-Place (CIP)									
Part Number	Pcs/Pkg	Wt(lb)	Price	I.D.	Overall Length/"U" Length	Process Connection	Female Probe Threads	Wetted Material	Use With
<a href="#">STW04-01</a>	1	0.75	\$101.00	ø0.260	4-1/4" / 2-1/2"	1-1/2" tri-clamp	1/2" NPT	316 stainless steel	See Sensor Compatibility Table
<a href="#">STW06-01</a>	1	0.88	\$108.00		6-1/4" / 4-1/2"				
<a href="#">STW12-01</a>	1	1.13	\$150.00		12-1/4" / 10-1/2"				
<a href="#">STW04-02</a>	1	0.75	\$112.00		4-1/4" / 2-1/2"	2" tri-clamp			
<a href="#">STW06-02</a>	1	0.88	\$120.00		6-1/4" / 4-1/2"				
<a href="#">STW12-02</a>	1	1.13	\$156.00		12-1/4" / 10-1/2"				

- Note: Check the chemical compatibility of the thermowell's wetted parts with the medium to be measured.
- Note: Response time will be slower when installed in a thermowell. Be sure to install the probe so that it contacts the end of the thermowell for faster response. Thermal compound may be used depending on application

## Probe & Thermowell Assembly Example





# proSense® Thermowells Sanitary Clean-in-Place (CIP)

## Spring-loaded Thermocouple or RTD and Thermowell Assembly Example

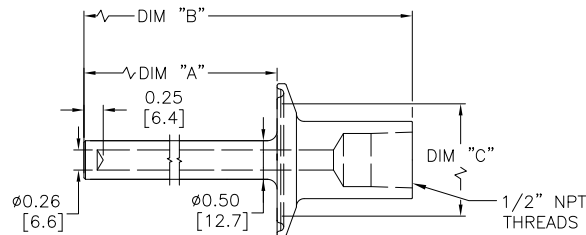


- Using spring-loaded probe design ensures positive tip contact with the bottom of the thermowell.
- Probes with hex nipple thread directly into thermowell. No additional probe mounting fittings are required.

### Dimensions

inches [mm]

STWXX-XX



PART NUMBER	DIM "A"	DIM "B"	DIM "C"
STW04-01	2.50[63.5]	4.25[108.0]	1.50[38.1]
STW06-01	4.50[114.3]	6.25[158.8]	1.50[38.1]
STW12-01	10.50[266.8]	12.25[311.3]	1.50[38.1]
STW04-02	2.50[63.5]	4.25[108.0]	2.00[50.8]
STW06-02	4.50[114.3]	6.25[158.5]	2.00[50.8]
STW12-02	10.50[266.8]	12.25[311.3]	2.00[50.8]



# Thermowells Sanitary Clean-in-Place (CIP)

Thermowells Sanitary Clean-in-Place (CIP) Sensors Compatibility Table							
	Junction Box	Connection Head Sensor	Hex Nipple Sensor	Attached Plug Sensor	Lead Wire Transition Sensor	M12 Sensor	Thermometer
<b>Thermowell</b>							
<b>STW04-01</b>	NTC10K3-JB04-03	RTD1-C04-03 THMJ-C04-03 THMK-C04-03 NTC10K3-C04-03	RTD1-H04L01-02 THMJ-H04L01-02 THMK-H04L01-02 NTC10K3-H04L01-02	RTD1-P06-01 w/ CF14-50N THMJ-P06-02 w/ CF14-50N THMK-P06-02 w/ CF14-50N NTC10K3-P06-02 w/ CF14-50N	RTD1-T06L06-01 w/ CF14-50N THMJ-T06L06-02 w/ CF14-50N THMK-T06L06-02 w/ CF14-50N	RTD1-50N-100-H RTD0100-06-010-H w/CF14-50N XTP-160-N40140F w/CF14-50N XTP-160-0300F w/CF14-50N XTP-160-0100C w/CF14-50N XTP50N-100-N40140F XTP50N-100-0300F XTP50N-100-0100C ETS50N-100-1001 ETS50N-100-1003	T30-N40160-4C T30-0250-4C T30-50500-4C T30-150750-4C T50-N40160-4A T50-0250-4A T50-50500-4A T50-150750-4A
<b>STW06-01</b>	NTC10K3-JB06-03	RTD1-C06-03 THMJ-C06-03 THMK-C06-03 NTC10K3-C06-03	RTD1-H06L01-02 THMJ-H06L01-02 THMK-H06L01-02 NTC10K3-H06L01-02	RTD1-P12-01 w/ CF14-50N THMJ-P12-02 w/ CF14-50N THMK-P12-02 w/ CF14-50N NTC10K3-P12-02 w/ CF14-50N	RTD1-T12L06-01 w/ CF14-50N THMJ-T12L06-02 w/ CF14-50N THMK-T12L06-02 w/ CF14-50N	RTD1-50N-150-H RTD0100-06-020-H w/CF14-50N XTP-260-N40140F w/CF14-50N XTP-260-0300F w/CF14-50N XTP-260-0100C w/CF14-50N XTP50N-150-N40140F XTP50N-150-0300F XTP50N-150-0100C ETS50N-150-1001 ETS50N-150-1003	T30-N40160-6C T30-0250-6C T30-50500-6C T30-150750-6C T50-N40160-6A T50-0250-6A T50-50500-6A T50-150750-6A
<b>STW12-01</b>	NTC10K3-JB12-03	RTD1-C12-03 THMJ-C12-03 THMK-C12-03 NTC10K3-C12-03	RTD1-H12L01-02 THMJ-H12L01-02 THMK-H12L01-02 NTC10K3-H12L01-02	RTD1-P18-01 w/ CF14-50N THMJ-P18-02 w/ CF14-50N THMK-P18-02 w/ CF14-50N NTC10K3-P18-02 w/ CF14-50N	RTD1-T18L06-01 w/ CF14-50N THMJ-T18L06-02 w/ CF14-50N THMK-T18L06-02 w/ CF14-50N	RTD0100-06-030-H w/CF14-50N XTP-360-N40140F w/CF14-50N XTP-360-0300F w/CF14-50N XTP-360-0100C w/CF14-50N	-
<b>STW04-02</b>	NTC10K3-JB04-03	RTD1-C04-03 THMJ-C04-03 THMK-C04-03 NTC10K3-C04-03	RTD1-H04L01-02 THMJ-H04L01-02 THMK-H04L01-02 NTC10K3-H04L01-02	RTD1-P06-01 w/ CF14-50N THMJ-P06-02 w/ CF14-50N THMK-P06-02 w/ CF14-50N NTC10K3-P06-02 w/ CF14-50N	RTD1-T06L06-01 w/ CF14-50N THMJ-T06L06-02 w/ CF14-50N THMK-T06L06-02 w/ CF14-50N	RTD1-50N-100-H RTD0100-06-010-H w/CF14-50N XTP-160-N40140F w/CF14-50N XTP-160-0300F w/CF14-50N XTP-160-0100C w/CF14-50N XTP50N-100-N40140F XTP50N-100-0300F XTP50N-100-0100C ETS50N-100-1001 ETS50N-100-1003	T30-N40160-4C T30-0250-4C T30-50500-4C T30-150750-4C T50-N40160-4A T50-0250-4A T50-50500-4A T50-150750-4A
<b>STW06-02</b>	NTC10K3-JB06-03	RTD1-C06-03 THMJ-C06-03 THMK-C06-03 NTC10K3-C06-03	RTD1-H06L01-02 THMJ-H06L01-02 THMK-H06L01-02 NTC10K3-H06L01-02	RTD1-P12-01 w/ CF14-50N THMJ-P12-02 w/ CF14-50N THMK-P12-02 w/ CF14-50N NTC10K3-P12-02 w/ CF14-50N	RTD1-T12L06-01 w/ CF14-50N THMJ-T12L06-02 w/ CF14-50N THMK-T12L06-02 w/ CF14-50N	RTD1-50N-150-H RTD0100-06-020-H w/CF14-50N XTP-260-N40140F w/CF14-50N XTP-260-0300F w/CF14-50N XTP-260-0100C w/CF14-50N XTP50N-150-N40140F XTP50N-150-0300F XTP50N-150-0100C ETS50N-150-1001 ETS50N-150-1003	T30-N40160-6C T30-0250-6C T30-50500-6C T30-150750-6C T50-N40160-6A T50-0250-6A T50-50500-6A T50-150750-6A
<b>STW12-02</b>	NTC10K3-JB12-03	RTD1-C12-03 THMJ-C12-03 THMK-C12-03 NTC10K3-C12-03	RTD1-H12L01-02 THMJ-H12L01-02 THMK-H12L01-02 NTC10K3-H12L01-02	RTD1-P18-01 w/ CF14-50N THMJ-P18-02 w/ CF14-50N THMK-P18-02 w/ CF14-50N NTC10K3-P18-02 w/ CF14-50N	RTD1-T18L06-01 w/ CF14-50N THMJ-T18L06-02 w/ CF14-50N THMK-T18L06-02 w/ CF14-50N	RTD0100-06-030-H w/CF14-50N XTP-360-N40140F w/CF14-50N XTP-360-0300F w/CF14-50N XTP-360-0100C w/CF14-50N	-

Note: Response time will be slower when installed in a thermowell. Be sure to install the probe so that it contacts the end of the thermowell for faster response. Thermal compound may be used depending on application.

# pro<sup>ense</sup>® Connection Head and Ceramic Terminal Bases



## Overview

- Cast aluminum NEMA 4X, IP66 screw cover head with captive gasket
- One turn cover removal & installation eliminates cross threading and saves time
- 3/4" NPT conduit opening with internal stop to prevent overtightening and installation damage
- Gripping ribs on cover edge
- Stainless steel cover chain
- Made in the USA

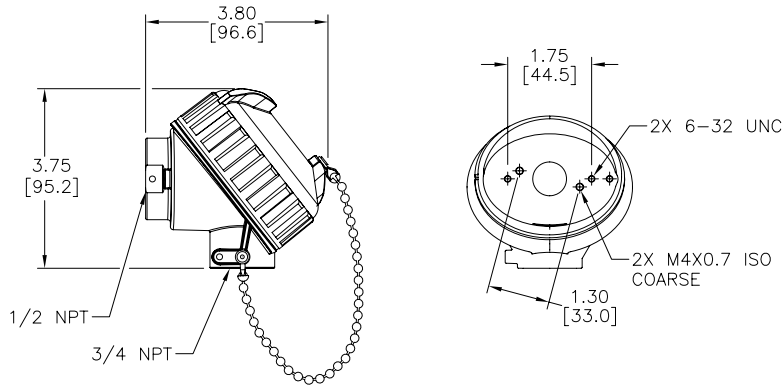
### ProSense Aluminum Connection Head

Part Number	Description	Pcs/ Pkg	Wt(lb)	Price
<b>CHSC-AL-1</b>	ProSense general purpose screw cover connection head for temperature probes, die-cast aluminum, 1/2 NPT process opening, 3/4 NPT conduit opening, NEMA 4X, IP66 rated, graphite gasket, maximum temperature rating of 825°F (440°C)	1	1.0	\$23.00

## Dimensions

inches [mm]

**CHSC-AL-1**



**CHTB-2**



**CHTB-3**

## Overview

- Available with two terminals for thermocouples or three terminals for RTDs
- Fits **CHSC-AL-1** connection heads
- Ceramic base with brass terminals and stainless steel screws
- Accepts up to 12 AWG wire

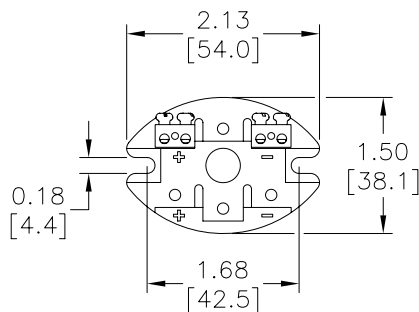
### Terminal Base for Connection Heads

Part Number	Description	Pcs/ Pkg	Wt(lb)	Price
<b>CHTB-2</b>	ProSense ceramic terminal base, two brass terminals with stainless steel screws, for use with ProSense temperature probe connection heads, two mounting screws included.	1	1.0	\$6.00
<b>CHTB-3</b>	ProSense ceramic terminal base, three brass terminals with stainless steel screws, for use with ProSense temperature probe connection heads, two mounting screws included.	1	1.0	\$7.00

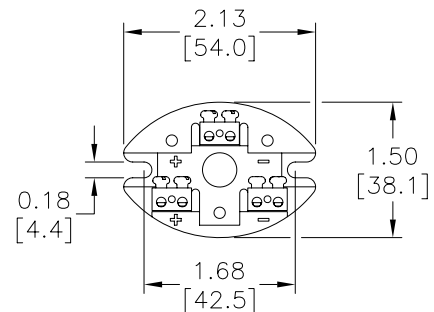
## Dimensions

inches [mm]

**CHTB-2**



**CHTB-3**



# pro<sup>sense</sup>® Compression Mounting Fittings for Temperature Probes

Compression Mounting Fittings for Temperature Probes				
Part Number	Description	Pcs/Pkg	Wt(lb)	Price
<b>BCF18-125N</b>	Compression fitting, brass, for 1/8 inch diameter temperature probes, 1/8 inch NPT male thread	1	0.5	\$3.25
<b>BCF14-125N</b>	Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/8 inch NPT male thread	1	0.5	\$3.25
<b>BCF18-25N</b>	Compression fitting, brass, for 1/8 inch diameter temperature probes, 1/4 inch NPT male thread	1	0.5	\$4.25
<b>BCF14-25N</b>	Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/4 inch NPT male thread	1	0.5	\$4.25
<b>BCF18-50N</b>	Compression fitting, brass, for 1/8 inch diameter temperature probes, 1/2 inch NPT male thread	1	0.5	\$6.00
<b>BCF14-50N</b>	Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/2 inch NPT male thread	1	0.5	\$6.50
<b>CF18-125N</b>	Compression fitting, 316 stainless steel, for 1/8 inch diameter temperature probes, 1/8 inch NPT male thread	1	0.5	\$8.00
<b>CF14-125N</b>	Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes, 1/8 inch NPT male thread	1	0.5	\$8.00
<b>CF18-25N</b>	Compression fitting, 316 stainless steel, for 1/8 inch diameter temperature probes, 1/4 inch NPT male thread	1	0.5	\$9.25
<b>CF14-25N</b>	Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes, 1/4 inch NPT male thread	1	0.5	\$9.25
<b>CF18-50N</b>	Compression fitting, 316 stainless steel, for 1/8 inch diameter temperature probes, 1/2 inch NPT male thread	1	0.5	\$13.50
<b>CF14-50N</b>	Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes, 1/2 inch NPT male thread	1	0.5	\$14.00
<b>CFTF-18**</b>	Teflon™ ferrule for brass or stainless steel compression fittings and 1/8 diameter temperature probes	5	0.5	\$7.25
<b>CFTF-14**</b>	Teflon ferrule for brass or stainless steel compression fittings and 1/4 diameter temperature probes	5	0.5	\$7.75
<b>CF06-25N</b>	1/4 NPT stainless steel compression fitting for 0.24 inch (6 mm) diameter RTD probe with M12 connector.	1	0.18	\$30.00
<b>CF10-50N</b>	1/2 NPT stainless steel compression fitting for 10 mm (0.4 inch) diameter RTD probe with M12 connector.	1	0.20	\$31.00
<b>CF18-BC</b>	Bayonet compression fitting, for 1/8" diameter probe sheath sensors	1	0.1	\$10.00
<b>BB125N-50N</b>	Reducing bushing, brass, 1/2 MNPT x 1/8 FNPT, hex head	1	0.1	\$5.75

**BCF18-125N**



**BCF18-25N**



**BCF18-50N**



**BB125N-50N**



Note: Check the chemical compatibility of the sensor's wetted parts with the medium to be measured.

\* Working pressure of compression fitting should not exceed 500 psi. However we recommend any pressure application use a thermowell

\*\* Teflon has a max working temperature range of -400 to 500°F (-240 to 260°C)

**CFTF-14**



**CFTF-18**



**CF14-125N**



**CF14-50N**



**CF14-25N**



**CF18-BC**



**CF06-25N**



**CF10-50N**



# pro<sup>sense</sup>® Compression Mounting Fittings for Temperature Probes

**BCF14-125N**



**BCF14-25N**



**BCF14-50N**



**CF18-25N**



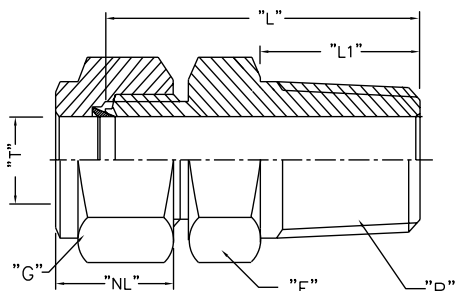
**CF18-50N**



**CF18-125N**



## Dimensions



Note: All threaded connections should be hand tightened and then turned 1 to 2 full turns for proper sealing.

Actual torque required for a proper seal of NPT threads is influenced by tolerance, sealant, lubricant, etc.

ProSense Compression Fittings									
Part No.	Weight (lb)	Description	"T" Tube O.D.	"P" NPT(M)	"L" Body Length*	"L1" Thread Length**	"F" Body Hex**	"G" Nut Hex**	"NL" Nut Length**
<b>BCF18-125N/CF18-125N</b>	0.5	1/8" OD x 1/8" NPT(M)	0.128/0.132	1/8" NPT(M)	0.909"	0.393"	0.5"	0.433"	0.492"
<b>BCF14-125N/CF14-125N</b>	0.5	1/4" OD x 1/8" NPT(M)	0.253/0.257	1/8" NPT(M)	1.0"	0.393"	0.5"	0.559"	0.5"
<b>BCF18-25N/CF18-25N</b>	0.5	1/8" OD x 1/4" NPT(M)	0.128/0.132	1/4" NPT(M)	1.114"	0.551"	0.551"	0.433"	0.492"
<b>BCF14-25N/CF14-25N</b>	0.5	1/4" OD x 1/4" NPT(M)	0.253/0.257	1/4" NPT(M)	1.188"	0.551"	0.551"	0.559"	0.5"
<b>BCF18-50N/CF18-50N</b>	0.5	1/8" OD x 1/2" NPT(M)	0.128/0.132	1/2" NPT(M)	1.377"	0.748"	0.866"	0.433"	0.492"
<b>BCF14-50N/CF14-50N</b>	0.5	1/4" OD x 1/2" NPT(M)	0.253/0.257	1/2" NPT(M)	1.437"	0.748"	0.866"	0.559"	0.5"
<b>CF06-25N</b>	0.18	6 mm OD x 1/4" NPT(M)	0.236/0.240	1/4" NPT(M)	1.174"	0.59"	0.67"	0.55"	0.587"
<b>CF10-50N</b>	0.20	10 mm OD x 1/2" NPT(M)	0.394/0.399	1/2" NPT(M)	1.458"	0.55"	1.06"	0.75"	0.608"

Note: All dimensions are in inches

\* w 0.07

\*\* w 0.03

Note: Once the compression fitting has been fully tightened on the probe, the ferrule will be locked onto the probe and cannot be removed or reused.

\*Working pressure of compression fitting should not exceed 500 psi. However we recommend any pressure application use a thermowell



Scan the QR Code or click to view the CF06 & CF10 Compression Fitting Installation Instructions



# Bayonet Mounting Adapter for Temperature Sensors

Bayonet Mounting Adapter for Temperature Sensors					
Part Number	Description	Material	Pcs/Pkg	Wt(lb)	Price
<b>BA-078</b>	Bayonet adapter, 7/8 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT	Stainless Steel (304)	1	0.5	\$1.75
<b>BA-100</b>	Bayonet adapter, 1 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT		1	0.5	\$1.75
<b>BA-114</b>	Bayonet adapter, 1-1/4 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT		1	0.5	\$2.25
<b>BA-112</b>	Bayonet adapter, 1-1/2 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT		1	0.5	\$2.25
<b>BA-200</b>	Bayonet adapter, 2 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT		1	0.5	\$2.50
<b>BA-212</b>	Bayonet adapter, 2-1/2 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT		1	0.5	\$2.75
<b>BA-300</b>	Bayonet adapter, 3 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT		1	0.5	\$3.00
<b>BA-312</b>	Bayonet adapter, 3-1/2 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT		1	0.5	\$3.50
<b>CF18-BC</b>	Adjustable bayonet compression fitting, for 1/8" diameter probe sheath sensors			1	0.1
<b>BB125N-50N</b>	Reducing bushing, 1/2 MNPT x 1/8 FNPT, hex head	Brass	1	0.1	\$5.75

**BA-078**



**BA-100**



**BA-114**



*Note: Check the chemical compatibility of the sensor's wetted parts with the medium to be measured.*

**CF18-BC**



**BA-300**



**BA-112**



**BB125N-50N**



**BA-312**



**BA-200**



**BA-212**

