

# proSense™ RTD Thermowells and Fittings

by AUTOMATIONDIRECT



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## Features

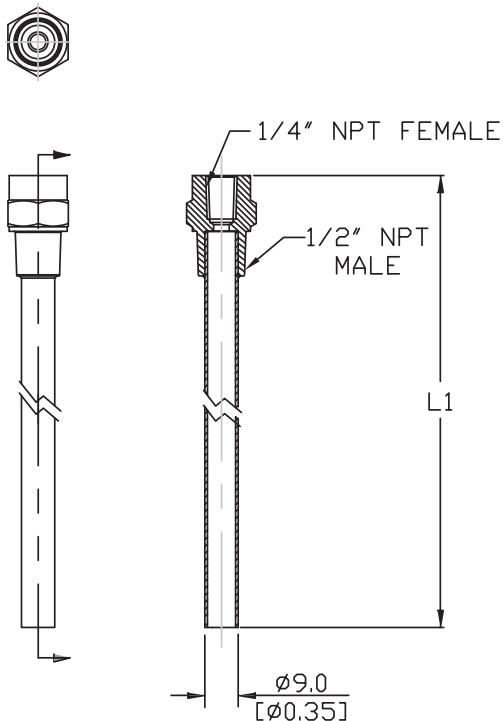
- Thermowells for ProSense 1/4 inch and 10 mm diameter RTD probes
- All wetted parts are 316 stainless steel
- 600°F (315°C) temperature and 232 psi (16 bar) pressure rating
- CF06-25N or CF10-50N fitting required to mount RTD probes in thermowell
- 3-Year warranty

| ProSense Thermowells for RTDs |   |         |        |       |                              |  |
|-------------------------------|---|---------|--------|-------|------------------------------|--|
| Part Number                   | Description   | Pcs/Pkg | Wt(lb) | Price | Use With                     |  |
| RTDTW-06-010-50N              | RTD thermowell for 1/4 inch (6 mm) diameter probe, 6.3 inch (160 mm) long, 1/2 (0.5) inch NPT male process connection   | 1       | 0.33   | <---> | RTD0100-06-010-H<br>CF06-25N |  |
| RTDTW-06-020-50N              | RTD thermowell for 1/4 inch (6 mm) diameter probe, 10.2 inch (260 mm) long, 1/2 (0.5) inch NPT male process connection  | 1       | 0.38   | <---> | RTD0100-06-020-H<br>CF06-25N |  |
| RTDTW-06-030-50N              | RTD thermowell for 1/4 inch (6 mm) diameter probe, 14.2 inch (360 mm) long, 1/2 (0.5) inch NPT male process connection  | 1       | 0.42   | <---> | RTD0100-06-030-H<br>CF06-25N |  |
| RTDTW-10-010-50N              | RTD thermowell for 10 mm (0.4 inch) diameter, 160 mm (6.3 inch) long probe, 1/2 (0.5) inch NPT male process connection  | 1       | 0.28   | <---> | RTD0100-10-010-H<br>CF10-50N |  |
| RTDTW-10-020-50N              | RTD thermowell for 10 mm (0.4 inch) diameter, 260 mm (10.2 inch) long probe, 1/2 (0.5) inch NPT male process connection | 1       | 0.36   | <---> | RTD0100-10-020-H<br>CF10-50N |  |
| RTDTW-10-030-50N              | RTD thermowell for 10 mm (0.4 inch) diameter, 360 mm (14.2 inch) long probe, 1/2 (0.5) inch NPT male process connection | 1       | 0.42   | <---> | RTD0100-10-030-H<br>CF10-50N |  |
| RTDTW-10-050-50N              | RTD thermowell for 10 mm (0.4 inch) diameter, 560 mm (22.0 inch) long probe, 1/2 (0.5) inch NPT male process connection | 1       | 0.58   | <---> | RTD0100-10-050-H<br>CF10-50N |  |

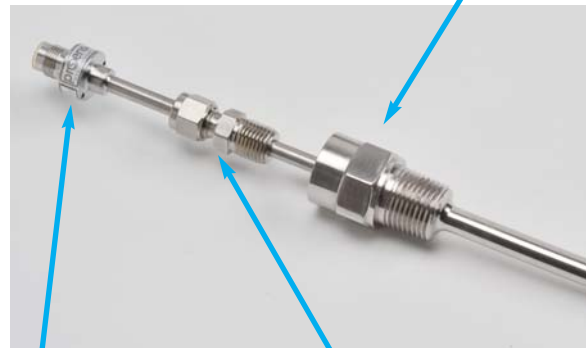


NOTE: CHECK THE CHEMICAL COMPATIBILITY OF THE SENSOR'S WETTED PARTS WITH THE MEDIUM TO BE MEASURED.  
[WWW.AUTOMATIONDIRECT.COM/STATIC/SPECS/PROSENSECHEMRESISTANCE.PDF](http://WWW.AUTOMATIONDIRECT.COM/STATIC/SPECS/PROSENSECHEMRESISTANCE.PDF)

## RTDTW-06 Series Dimensions



## RTD & Thermowell Assembly Example



## RTDTW Series Thermowell

| Part Number      | L1              |
|------------------|-----------------|
| RTDTW-06-010-50N | 113 mm [ 4.4 ]  |
| RTDTW-06-020-50N | 213 mm [ 8.4 ]  |
| RTDTW-06-030-50N | 313 mm [ 12.3 ] |

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

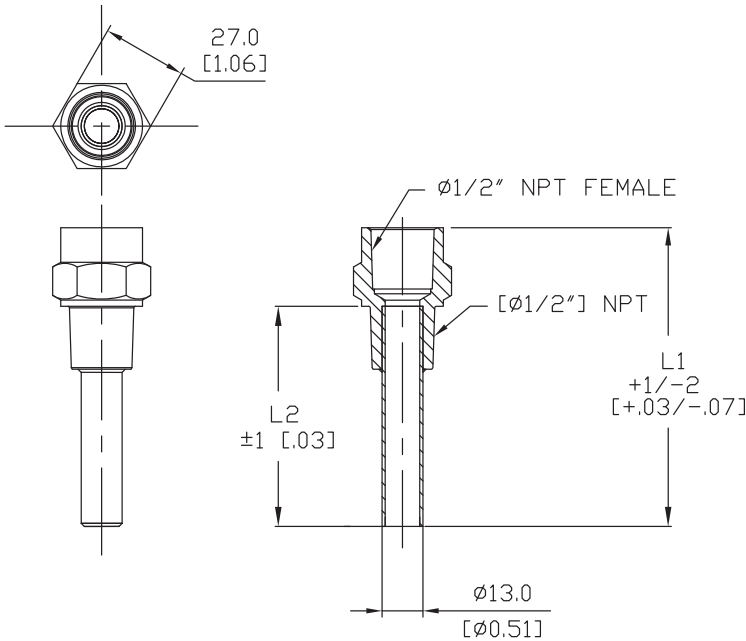
Dimensions shown mm [inches]

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

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## RTDTW-10 Series Dimensions



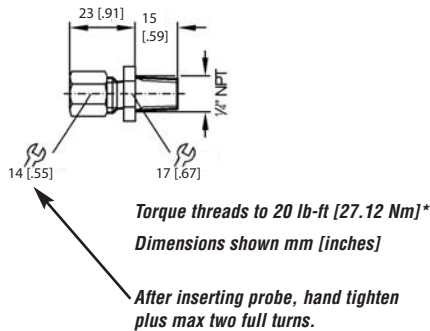
| Part Number      | L1             | L2             |
|------------------|----------------|----------------|
| RTDTW-10-010-50N | 92 mm [ 3.62]  | 70 mm [ 2.75]  |
| RTDTW-10-020-50N | 192 mm [ 7.55] | 170 mm [ 6.69] |
| RTDTW-10-030-50N | 292 mm [11.48] | 270 mm [10.6]  |
| RTDTW-10-050-50N | 492 mm [19.37] | 470 mm [18.47] |

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

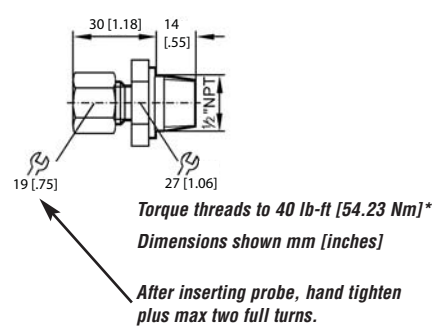
Dimensions shown mm [inches]

| ProSense Compression Fittings for Temperature Probes |  |         |        |       |  |
|--|--|---------|--------|-------|--|
| Part Number  | Description  | Pcs/Pkg | Wt(lb) | Price | Use With   |
| <b>CF06-25N</b>                                      | ProSense 1/4 (0.25 inch) NPT stainless steel (320S31) compression fitting for 1/4 inch (6 mm) diameter temperature probe. Pressure rating 725 psi (50 bar).  | 1       | 0.18   | <---> | TTD25C-20-0100C-H<br>TTD25C-20-0300F-H<br>RTD0100-06-010-H<br>RTD0100-06-020-H<br>RTD0100-06-030-H |
| <b>CF10-50N</b>                                      | ProSense 1/2 (0.50 inch) NPT stainless steel (320S31) compression fitting for 10 mm (0.4 inch) diameter temperature probe. Pressure rating 725 psi (50 bar). | 1       | 0.20   | <---> | RTD0100-10-010-H<br>RTD0100-10-020-H<br>RTD0100-10-030-H<br>RTD0100-10-050-H                       |

## CF06-25N Dimensions



## CF10-50N Dimensions



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.

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