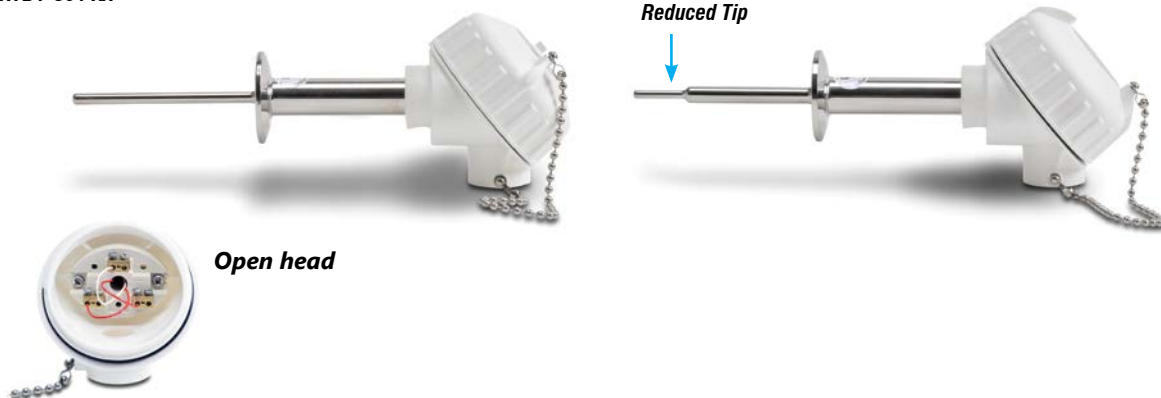


pro^{sense}® RTD Sanitary Clean-in-Place (CIP) Probes

RTD1-S04-XX



Overview

- Designed to meet the stringent requirements of HTST pasteurization systems
- Probe
 - 100 ohm platinum RTD 3-wire element
 - Class A accuracy
 - Clean-in-place (CIP) sanitary 316 SS connectors for use in processing applications where sensor corrosion and product contamination are critical factors
 - Certified to meet or exceed 3-A Sanitary Council Standard surface finish specifications
 - 316 SS sheaths available in standard 1/4" diameter, or 3/8" diameter with 3/16" diameter reduced tip for greater durability in high viscosity applications
 - Commonly used 4" probe insertion length
- Connection head
 - FDA compliant white thermoplastic screw cover head with captive o-ring seal provides excellent washdown protection
 - 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
- Wiring
 - Ceramic terminal base
 - Brass terminals with stainless steel screws eliminate the need to wrap connections around screws
 - Elevated terminal block for easy wire termination
- Made in the USA



| RTD Probes with Leadwire Transition | | | | | | | | |
|-------------------------------------|---------|---------|----------|----------------|---|------------------------|-----------------------------|------------------------|
| Part Number | Pcs/Pkg | Wt (lb) | Price | Type | Probe Diameter (O.D.) | Probe Insertion Length | Temperature Sensing Range | Mounting |
| RTD1-S04-01 | 1 | 1.0 | \$112.00 | PT 100, 3-wire | 1/4" | 4" | -50 to 204°C (-58 to 400°F) | 1" or 1-1/2" tri-clamp |
| RTD1-S04-02 | | | \$117.00 | | | | | 2" tri-clamp |
| RTD1-S04-03 | | | \$142.00 | | 3/8" O.D. reduced to 3/16" O.D. x 1-1/4" long tip | | | 1" or 1-1/2" tri-clamp |
| RTD1-S04-04 | | | \$143.00 | | 2" tri-clamp | | | |

| Technical Specifications | |
|---------------------------------------|---|
| Sensing Element | Single 100Ω platinum (Pt 100), 3-wire; TCR = 0.00385Ω/Ω/°C |
| Initial Accuracy | Class A ±[0.15+0.002 t]°C |
| Probe & Process Connection | 316 stainless steel sheath and 316 stainless steel sanitary CIP tri-clamp connection with a minimum 32 micro-inch Ra food grade surface finish. Meets or exceeds 3-A Sanitary Council Standard specifications |
| Connection Head | FDA compliant white polypropylene screw cover with stainless steel chain, BUNA-N o-ring seal, NEMA 4X, 3/4" NPT conduit opening max. temp. 250°F (121°C) |
| Response Time | <4 seconds, 63% of 25 to 77°C step change (ASTM E1137) |
| Wiring | Ceramic terminal base with brass terminals and stainless steel screws (Recommended tightening torque 3-4 lb-in) |



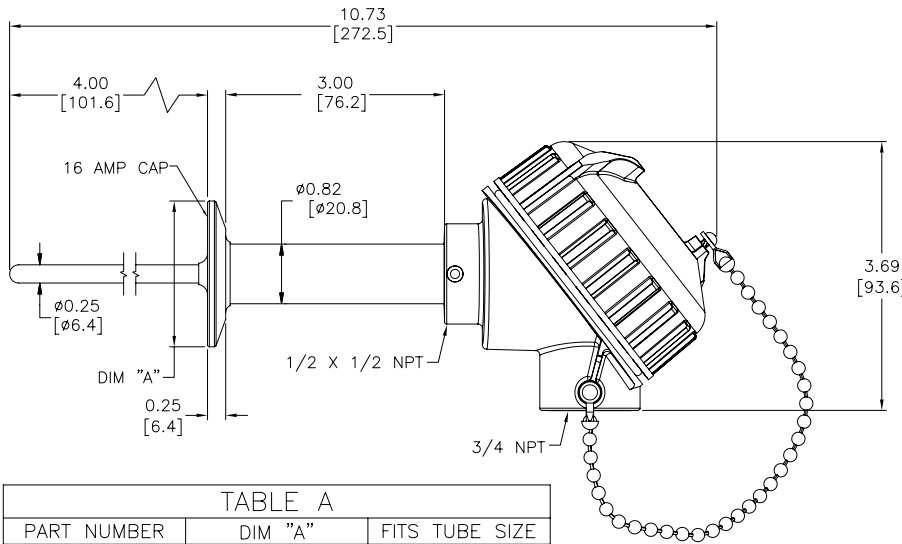
NOTE: CHECK THE CHEMICAL COMPATIBILITY OF THE SENSOR'S WETTED PARTS WITH THE MEDIUM TO BE MEASURED.

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Dimensions

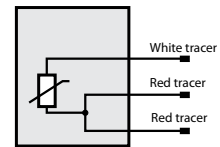
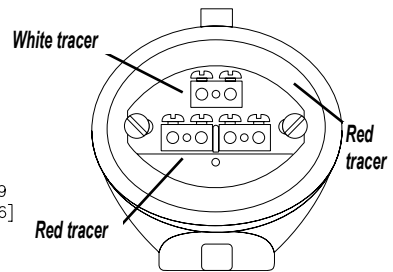
inches [mm]

RTD1-S04-01 and 02



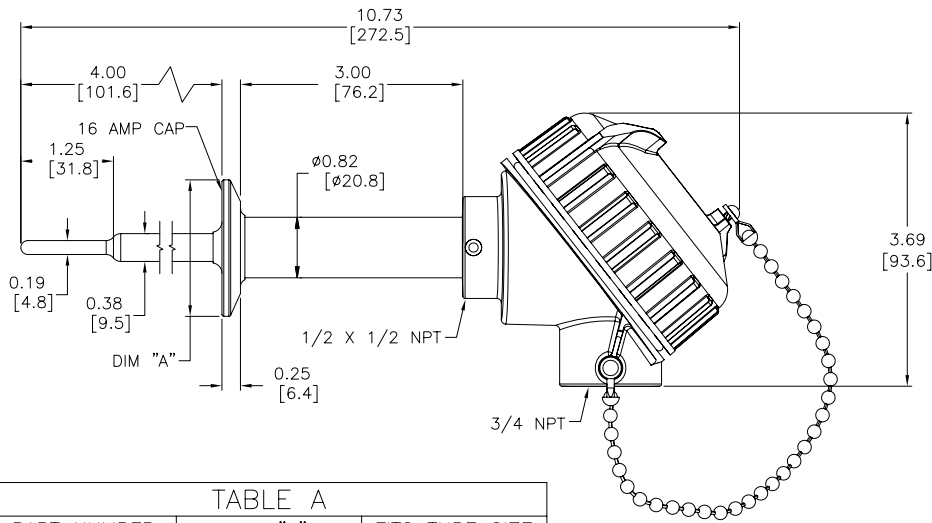
| TABLE A | | |
|-------------|------------|----------------|
| PART NUMBER | DIM "A" | FITS TUBE SIZE |
| RTD1-S04-01 | 1.98[50.3] | 1" OR 1-1/2" |
| RTD1-S04-02 | 2.51[63.8] | 2" |

Wiring Information



- Ignore polarity marks on terminal base
- Recommended screw terminal tightening torque 3-4 lb-in
- After wiring connections are made, terminals should be protected by applying a coating of moisture-proof sealant such as a silicone caulking

RTD1-S04-03 and 04



| TABLE A | | |
|-------------|------------|----------------|
| PART NUMBER | DIM "A" | FITS TUBE SIZE |
| RTD1-S04-03 | 1.98[50.3] | 1" OR 1-1/2" |
| RTD1-S04-04 | 2.51[63.8] | 2" |

Accessories

RTD extension lead wire available at www.automationdirect.com