

Pyromation, INC.

Sanitary RTD Temperature Sensors

High accuracy RTD's for use in food and pharmaceutical sanitary process applications

Features

- ◆ All RTD types, accuracies and element options available in sanitary construction
- ◆ A complete selection of CIP connections
- ◆ A variety of straight and reduced tip sheath configurations
- ◆ 316 stainless steel construction, polished to a finish that exceeds that required by the 3-A Sanitary Council Standard #74-00
- ◆ FDA compliant white polypropylene connecting heads or stainless steel heads available
- ◆ Programmable head mounted RTD transmitters to provide a 4 to 20 ma output

Pyromation's CIP sanitary connected RTD temperature sensors are used in food, dairy, beverage, pharmaceutical, and chemical processing applications where sensor corrosion and product contamination are critical factors. Sanitary caps are welded to the sheath and to a heavier support tube, all of stainless steel, and then ground and polished to a finish that exceeds No. 4 minimum finish required by the 3-A Sanitary Council Standard #74-00. The process contact surfaces are free of pits, crevices,

and pockets thus preventing corrosion and bacteria growth. The three wire constructed sensor assembly consists of a high accuracy platinum element sealed inside a 316 stainless steel sheath and are typically provided with a FDA compliant white thermoplastic gasketed connecting head. The complete assembly provides excellent washdown protection. **Wisner Controls** has popular sanitary RTD's and accessories in stock for same day shipment. There is also factory express service available for RTD's needed in an emergency.



**Sanitary RTD's-
CIP (clean in place) sanitary connections
to meet 3-A Sanitary standards**

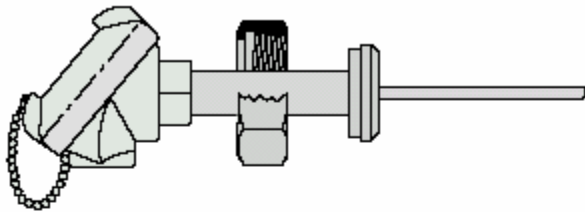
1204 Main Street • Sebastian, Florida 32958
Phone: 772-581-0477 • Fax: 772-581-0481

www.wisnercontrols.com



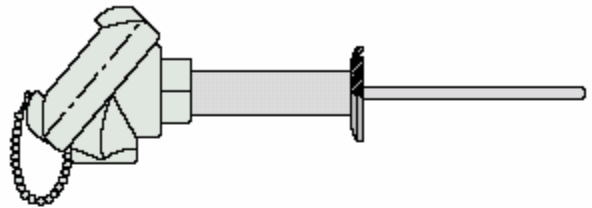
The CIP (clean in place) sanitary connections illustrated on this page are the most commonly used fittings in food, dairy, beverage, pharmaceutical, and chemical processes where contamination and cleanliness is of concern. Fittings other than those illustrated are available upon request. Several manufacturers provide the same style of fitting under their own trade name. The below listed manufacturers and tradenames are those most commonly found in the process industry, but those shown are not all inclusive. The illustrations are provided for reference purposes only to aid in the selection of the correct fitting style for new or replacement sensor assemblies. All CIP sensor assemblies manufactured by Pyromation are constructed in accordance to the 3-A Sanitary Council Standard #74-00 for instrument fittings and connections.

Cherry Burrell: Threaded Fitting; Ladish-Tri Clover: Bevel Seat Fitting; Alloy Products: Bevel Seat Fitting



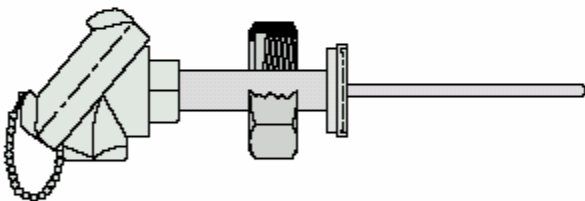
Cap Style 16A - Order Code #1 without Nut
 Cap Style 16A - Order Code #2 with 13-H Nut

Cherry Burrell: "S" Clamp Fitting; Ladish-Tri Clover: Tri-Clamp Fitting; Alloy Products: Clamp Type Fitting



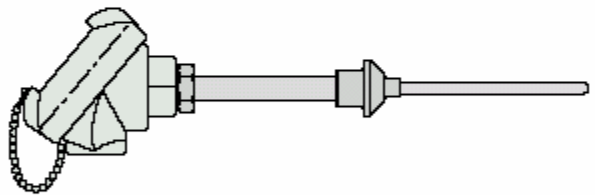
Cap Style 16AMP - Order Code #5

Alloy Products; PV Gasket Type



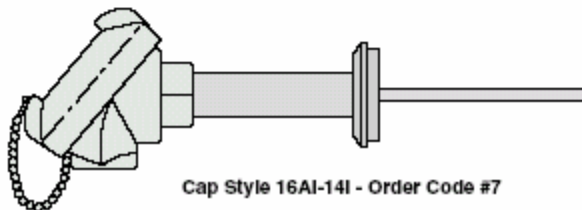
Cap Style 16APV - Order Code #3 without Nut
 Cap Style 16APV - Order Code #4 with 13-H Nut

Partlow; 3A4 Adaptor



Cap Style 3A4 Adaptor - Order Code #6

Cherry Burrell; "I" Clamp Fitting



Cap Style 16AI-14I - Order Code #7

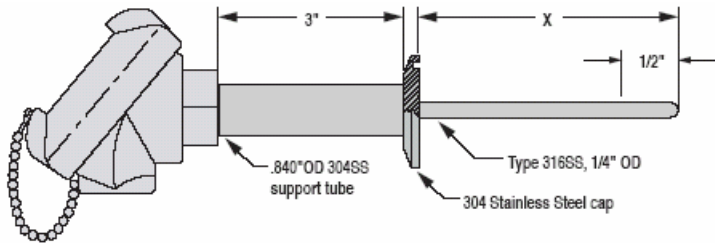
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CIP Sanitary Connected RTDs

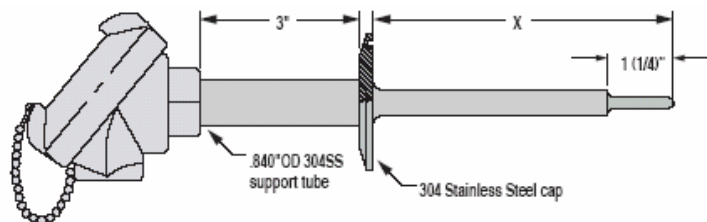
These sanitary RTD's are available in any of the cap styles shown on the previous page and with any immersion "X" length desired. They are typically supplied with **white poly heads** but can also have **white epoxy coated aluminum** or **stainless steel heads**.



Authorized
74-01

CIP Sanitary Reduced Tip RTDs

The reduced tip construction provides strength along the major sheath length, and faster temperature response times at the reduced tip. They are available with many combinations of sheath diameters and all the options of standard CIP RTDs.

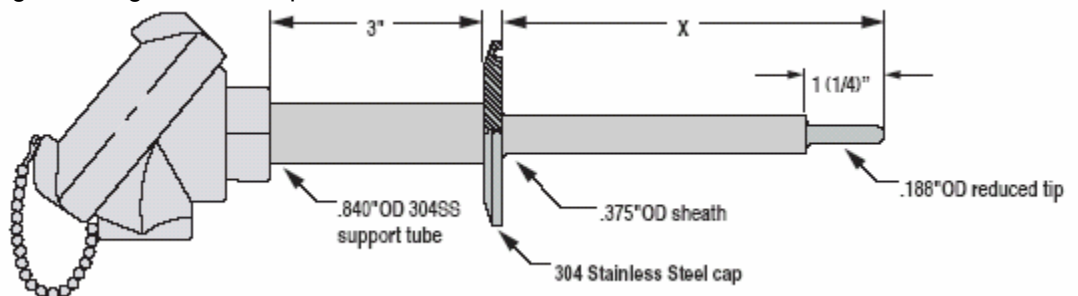


HTST Special RTD-

'High Temperature Short Time' (HTST) Grade A milk pasteurization process systems require RTD's to meet a response time requirement. These Pyromation reduced tip RTD sensors provide a speed of response time fast enough to pass this HTST pasteurization process test. The sanitary caps are welded to the sheath and to a heavier support tube, all of stainless steel, and then ground and polished to a finish that exceeds No. 4 minimum finish required by the 3-A Sanitary Council Standard #74-00. The process contact surfaces are free of pits, crevices, and pockets thus preventing corrosion and bacteria growth. The three wire constructed sensor assembly consists of a high accuracy platinum element sealed inside a 316 stainless steel sheath and is provided with a FDA compliant white thermoplastic gasketed connecting head. The complete assembly provides excellent washdown protection. It is recommended that once connections are made, the connecting terminals be further protected by applying a coating of moisture proof sealant over the connections.



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74-01



Maximum Temperature Rating: 400°F (204°C)
Pasteurization Test Response Time: 2 to 3 seconds typical

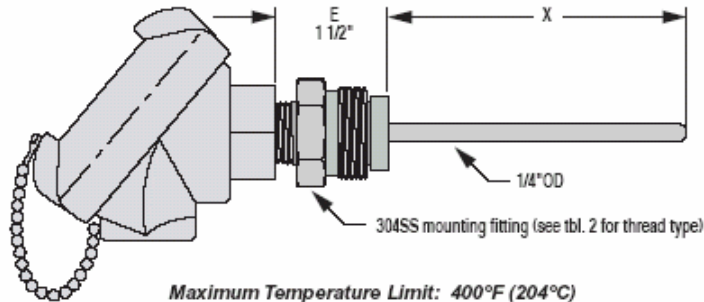
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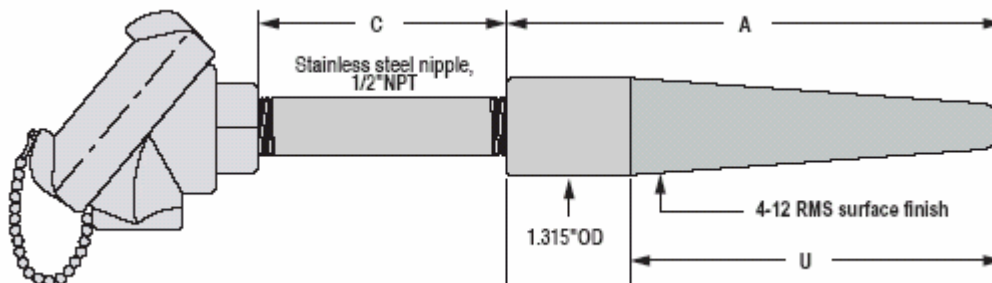
Thermometer Replacement RTDs

The thermometer replacement RTD temperature sensor assemblies listed below are to be used when converting instrumentation from older direct reading thermometers to electronic instruments requiring RTD inputs. These RTD assemblies replace the filled system capillary actuating bulbs and will fit into the old existing bulb wells as listed below. These 3-wire constructed sensor assemblies consist of a high accuracy platinum element sealed inside a ring loaded 316 stainless steel sheath and is supplied with a FDA compliant white thermoplastic gasketed head. Each sensor is supplied with a free rotating stainless steel mounting fitting with the appropriate threading for the wells listed below. It is recommended that the heat transfer compound, supplied with each assembly, be inserted into the well to aid the transfer of the process temperature into the sensor sheath. The complete assembly provides excellent washdown protection, however it is recommended that once connections are made, the connecting terminals be further protected by applying a coating of a moisture proof sealant over the connections.



IMMERSION LENGTH "X"			
"X" IMMERSION LENGTH *	Length and Mounting Fitting to Fit Manufacturers Well Number		MOUNTING FITTING THREAD
	TAYLOR	ANDERSON	
9 (1/2)"	#26P397	#1247	1 (1/4)"-18 UNEF
12 (1/2)"	#26P398	#1279	1 (1/4)"-18 UNEF
11 (1/4)"	#SK10274	#1280	1 (1/4)"-18 UNEF

* "X" dimension is with spring in its fully expanded position. Spring will retract 1/2" minimum to 3/4" maximum.



Weld-In RTD Assemblies

The 'weld - in' RTD temperature sensor assemblies are typically used in tanks or vats. The complete assemblies are provided with a 3-wire constructed high accuracy platinum RTD element sealed inside a 1/4" OD, spring loaded, stainless steel sheath, and with a heavy wall sanitary protection well. The well is to be welded into a tank or vat with a full crevice free fillet weld to prevent corrosion, bacteria growth, and product contamination. Assemblies are provided with a FDA compliant white thermoplastic gasketed connecting head. They are available in several different lengths and white optional connecting heads.

