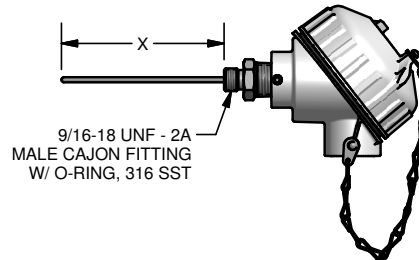


The types listed below are RTD temperature sensor assemblies designed to meet the stringent requirements of ultra-high temperature (UHT) pasteurization systems. In the UHT process the products are pasteurized at a higher temperature, typically 138° C for a shorter period of time - usually 2-3 seconds. The RTD sensor assemblies are available in a variety of accuracies, wire configurations, and termination options. They are also available with a variety of (4-20) mA transmitter options. All wetted parts are supplied with a surface finish that meets or exceeds 32µin Ra. Surface finishes of 15µin Ra or better are available upon request. These assemblies are supplied with a 9/16" -18 UNF-2A process connection and Buna N O-ring on the face of the fitting. These RTD assemblies are designed to be used with a weld-in style thermowell as noted on the following page.



ORDER CODES

Example Order Number: **RAF185L** **28** **3** - **004** - **00** - **8VCC63**

1-1 Pt100 ($\alpha = 0.00385 \text{ } ^\circ\text{C}^{-1}$) RTD Assemblies

CODE		TOLERANCE	TEMPERATURE RANGE
SINGLE	DUPLEX (3/16" OD ONLY)		
R1T185L	R1T285L	Grade B	(-200 to 200°C)
R3T185L	R3T285L	Class AA	(-200 to 200°C)
R5T185L	R5T285L	(1/5) Class B	(-200 to 200°C)
RBF185L	RBF285L	Class B	(-50 to 200°C)
RAF185L	RAF285L	Class A	(-50 to 200°C)
R1T185H	R1T285H	Grade B	(-200 to 600°C)
RAT185H	RAT285H	Class A	(-200 to 600°C)

1-2 Sheath

CODE	DIAMETER (inches)	MATERIAL
28	1/8"	316 Stainless Steel
38	3/16"	316 Stainless Steel

1-3 Element Connection

CODE	DESCRIPTION
2	2 wires
3	3 wires
4	4 wires

2 Sheath Length

Specify 3 digit hot leg in inches

3 Head Mounting Fitting and Termination

CODE	DESCRIPTION
8VCC22(XX)	9/16" - 18UNF-2A X 1/2" NPT with 3" individual leads and terminal pins (or specified lead length)
8VCB22(XX)	9/16" - 18UNF-2A X 1/4" NPT with 3" individual leads and terminal pins (or specified lead length)
8VCC31	9/16" - 18UNF-2A process connection with Aluminum screw-cover head (NEMA 4X, IP66)
8VCC63	9/16" - 18UNF-2A process connection with White Polypropylene screw-cover head (NEMA 4X)
8VCC91	9/16" - 18UNF-2A process connection with 316L stainless steel screw-cover head (NEMA 4X, IP66)
8VCB17 ^[1]	9/16" - 18UNF-2A process connection with Miniature Plastic head (3/8" NPT conduit opening)
8VC45 ^[2]	9/16" -18UNF-2A X M12

Head Options

W ^[3]	Epoxy Coating
I	Stainless Steel Tag
SB	Steel conduit reducer bushing
NB	Nylon conduit reducer bushing
T-440	(4 to 20) mA head-mounted RTD transmitter
T-441	(4 to 20) mA isolated head-mounted transmitter
T-442	(4 to 20) mA isolated HART® head-mounted transmitter
T-450 ^[2]	(4 to 20) mA integral RTD transmitter

See Transmitter ordering info in the transmitter section.

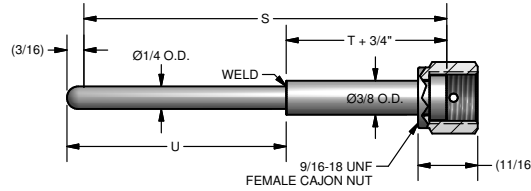
[1] Only available with single element

[2] Only available in single element, 4 wire construction

[3] Only available with option 31

HART® is a registered trademark of HART Communication Foundation.

The VCB series thermowells are intended to be used in high pressure UHT process lines. They are installed by welding the 3/8" OD sleeve directly into the sanitary tubing. The thermowells are made of 316 SS and the wetted parts are supplied with a surface finish that meets or exceeds 32µin Ra. Surface finishes of 15µin Ra or better are available upon request. These thermowells are supplied with a 9/16" -18 UNF-2A female rotating instrument connection with weep hole for leak detection.



ORDER CODES

Example Order Number:

1-1 1-2 1-3 1-4 1-5
VCB 3 04 08 T1

1-1 Well Type

CODE	DESCRIPTION
VCB	9/16" -18UNF-2A CAJON Well

1-2 Bore Size

CODE	DESCRIPTION
2	0.134 Bore
3	0.194 Bore

1-3 "S" Length

CODE	DESCRIPTION
XX	Specify length in inches using two digits plus fractional length

1-5 Optional "T" Lag Dimension

CODE	DESCRIPTION
T__	Specify length in inches
	Leave blank if no lag is required

1-4 Material

CODE	DESCRIPTION
08	316 Stainless Steel