

Fixed-sheath RTD assemblies with miniature heads are offered with mounting fittings that are welded or brazed to the sheath for direct immersion into a process. The miniature heads offer a compact design and are ideal for laboratory applications or applications where space is limited. The RTD assemblies are supplied with a 316 stainless steel sheath in several diameters. They are offered in various tolerances and temperature ranges as noted below.





1-0 100 Ω Platinum RTD Elements α = 0.003 85 °C⁻¹

CODE	TOLERANCE ^[1]		
LOW RANG	LOW RANGE WIRE WOUND (-200 to 200) °C		
SINGLE			
R1T185L	Grade B		
R5T185L	(1/5) Class B		
LOW RANGE THIN FILM (-50 to 200) °C			
RBF185L	Class B		
RAF185L	Class A		
HIGH RANGE WIRE WOUND (-200 to 600) °C			
R1T185H	Grade B		
[1] Refer to RTD tolerance information in the General Information section for calculations to determine specific tolerance at temperature.			

1-1 Sheath Diameters

CODE	DIAMETERS (inches) 316 SS	
28	1/8	
38	3/16	
48	1/4	
68	3/8	

1-2 Element Connection

CODE DESCRIPTION		
2	2 wire element	
3	3 wire element	
4	4 wire element	

2 -0 "X" Dimensions

Insert three digit "X" length in inches.

Sheath lengths over 72"

will be shipped in a coiled configuration unless otherwise specified.

3-0 No Fitting

CODE 00

3-1 One-Time Adjustable Fittings

CODE	TYPE	NPT SIZE (inches)	PRESSURE- RATED	AVAILABLE SHEATH DIAMETERS (inches)
01A	303 SS	1/8	NO	1/8, 3/16, 1/4
05A	316 SS	1/8	YES	1/8, 3/16, 1/4
05B	316 SS	1/4	YES	1/8, 3/16, 1/4, 3/8
05C	316 SS	1/2	YES	1/8, 1/4, 3/8
15A	Brass	1/8	NO	1/8, 3/16, 1/4
15B	Brass	1/4	NO	3/16, 1/4, 3/8
15C	Brass	1/2	NO	1/4, 3/8

4-0 Head Mounting Fittings

CODE	DESCRIPTION	
9HNB	1/4" x 1/4" stainless steel hex nipple	
8HPB	1/4" stainless steel hex bushing (no process threads)	
8CFB	1/4" NPT 316 stainless steel compression fitting (no process threads)	
22CFB	1/4" NPT brass compression fitting (no process threads)	

4-1 Miniature Head Terminations

CODE	DESCRIPTION	
17	Miniature plastic head (3/8" NPT conduit opening)	
25	Miniature nickel-plated head	

3-2 Re-Adjustable Compression Fittings

J-Z	Re-Aujustable Complession i ittings		
CODE	TYPE	NPT SIZE (inches)	AVAILABLE SHEATH DIAMETERS (inches)
10A	303 SS	1/8	1/8, 3/16
10B	303 SS	1/4	1/4, 3/8
10C	303 SS	1/2	1/4, 3/8
12A	316 SS	1/8	1/8, 3/16, 1/4
12B	316 SS	1/4	1/8, 3/16, 1/4, 3/8
12C	316 SS	1/2	1/8, 1/4, 3/8
11A	Brass	1/8	1/8, 3/16, 1/4
11B	Brass	1/4	1/8, 3/16, 1/4, 3/8
11C	Brass	1/2	1/4, 3/8
19C	Spring-loaded SS well fitting	1/2	3/16, 1/4
FEP gland standard 204 °C [400 °F] max.			

3-3 Fixed Bushings

CODE	MOUNTING THREAD	AVAILABLE SHEATH
316 SS	NPT (inches)	DIAMETERS (inches)
8A ^[1]	1/8	1/8, 3/16, 1/4
8B ^[1]	1/4	1/8, 3/16, 1/4, 3/8
8C ^[1]	1/2	1/8, 3/16, 1/4, 3/8
8D ^[1]	3/4	1/8, 3/16, 1/4, 3/8

^[1] When ordering fixed bushings, specify order code above plus insert length "U", as measured from hot tip to bottom of threaded bushing. EXAMPLE: order code 8A06 is 1/8" NPT, 316 SS bushing located 6" from hot tip.

