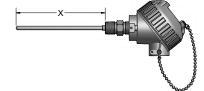


Fixed-Sheath RTD Assemblies with General-Purpose Connection Heads are provided with head mounting fittings that are welded or brazed to the sheath for direct immersion into a process. To order an assembly with an optional 4 to 20 mA transmitter, select the assembly below and the transmitter from the back of this section. The RTD assemblies are supplied with a 316 stainless steel sheath in several diameters. They are available in various tolerances and temperature ranges as noted below.







ORDER CODES

1-0 4-0 4-1 4-2 Select Type and Range RBF185L 48 Example Order Number: 006(1/2) 8HN SB from back of section

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

CODE		TOLERANCE ^[1]	
LOW RANG	SE WIRE WO	OUND (-200 to 200) °C	
SINGLE	DUPLEX		
R1T185L	R1T285L	Grade B	
R5T185L	R5T285L	(1/5) Class B	
LOW RANG	E THIN FILI	M (-50 to 200) °C	
RBF185L	RBF285L Class B		
RAF185L	RAF285L	Class A	
HIGH RANGE WIRE WOUND (-200 to 600) °C			
R1T185H	R1T285H	Grade B	
RAT185H	RAT285H	5H Class A	
[1] Refer to RTD tolerance information in the General Information section for calculations to determine specific tolerance at temperature.			

3-0 No Fitting

CODE 00

	- 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
14	Brass/ Steel	Flange	NO	1/8, 3/16, 1/4, 3/8

1-1 Sheath Diameters

CODE DIAMETERS (inches) 316 SS		
28[1]	1/8	
38	3/16	
48	1/4	
68	3/8	
[1] Not available in duplex		

1-2 Element Connection

Connection		
CODE DESCRIPTION		
2	2-wire element	
3	3-wire element	
4[1]	4-wire element	
[1] Not available in dupley or		

2-0 "X" Dimensions

with 440 Series Transmitter

Insert three digit "X" length in inches.

Sheath lengths over 72" will be shipped in a coiled configuration unless otherwise specified.

3-2 Re-Adjustable Compression Fittings

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[1]

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

[1] Requires Table 4, Option 9HP Selection

[2] 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.

Head Mounting Fittings

CODE	DESCRIPTION
6HN	1/2" x 1/2" NPT steel hex nipple 1" "E" length
8HN	1/2" x 1/2" NPT stainless steel hex nipple 1" "E" length
9HP	1/2" NPT stainless steel bushing (no process threads)
8RNDC	3/4" x 1/2" NPT stainless steel hex nipple

Head and Sheath Terminations

CODE	DESCRIPTION
22	3" Individual fluoropolymer leads with terminal pins
31	Aluminum screw-cover head
34	Cast iron screw-cover head
35T-642A	(4 to 20) mA HART® Field Transmitter with aluminum general-purpose housing
36T82-	(4 to 20) mA dual input HART® transmitter
D10	with digital display and general-purpose aluminum housing with glass lid
49	Flip-top aluminum head
63	White polypropylene screw-cover head
91	316 L stainless steel screw-cover head
4-2 O	otions
W ^[1]	Epoxy Coating
GS	Ground screw
I	Stainless tag
NB	1/2" NPT nylon conduit reducer bushing
SB	1/2" NPT 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
T82-00	(4 to 20) mA dual input HART® head- mounted transmitter
See transn	nitter ordering information in back of section.

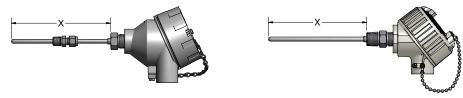
[1] Available with option 31 only.

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Fixed-Sheath RTD Assemblies with Explosion-Proof Connection Heads are provided with head mounting fittings that are welded or brazed to the sheath for direct immersion into a process. To order an assembly with an option 4 to 20 mA transmitter, select the assembly below and the transmitter from the back of this section. The RTD assemblies are supplied with a 316 stainless steel sheath in several diameters. They are available in various tolerances and temperature ranges as noted below.





Elements α = 0.003 85 °C-1

CC	DE	TOLERANCE ^[1]
LOW RANG	E WIRE WO	UND (-200 to 200) °C
SINGLE	DUPLEX	
R1T185L	R1T285L	Grade B
R5T185L	R5T285L	(1/5) Class B
LOW RANG	E THIN FILI	M (-50 to 200) °C
RBF185L	RBF285L	Class B
RAF185L	RAF285L	Class A
HIGH RANGE WIRE WOUND (-200 to 600) °C		
R1T185H	R1T285H	Grade B
RAT185H	RAT285H	Class A
[1] Refer to RTD tolerance information in the General Information section for calculations to determine specific tolerance at temperature.		

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	4
05A	316 SS	1/8	YES	1/8, 3/16, 1/4	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	1
15B	Brass	1/4	NO	3/16, 1/4, 3/8	3
15C	Brass	1/2	NO	1/4, 3/8	
14	Brass/ Steel	Flange	NO	1/8, 3/16, 1/4,	3/8

4-0 Head Mounting Fittings

CODE	DESCRIPTION	
6HN	1/2" x 1/2" NPT steel hex nipple 1" "E" length	
8HN	1/2" x 1/2" NPT stainless steel hex nipple 1" "E" length	
9HP	1/2" NPT stainless steel bushing (no process threads)	
8RNDC	3/4" x 1/2" NPT stainless steel hex nipple	

1-1 Sheath Diameters

CODE	DIAMETERS (inches) 316 SS	
28[1]	1/8	
38	3/16	
48	1/4	
68	3/8	
[1] Not available in duplex		

Element Connection

CODE	DESCRIPTION	
2	2-wire element	
3	3-wire element	
4[1]	4-wire element	
[1] Not available in duplex or with 440 Series Transmitter		

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.

3-2 Re-Adjustable Compression Fittings

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[1]

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] Requires Table 4. Option 9HP Selection

[2] 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.

4-1 Head Terminations

4-1 Head Terminations				
CODE	DESCRIPTION			
74	DIN form B aluminum explosion-proof head, Group A			
75T-642C	(4 to 20) mA HART® field transmitter with aluminum explosion-proof housing, Group A			
93	Aluminum explosion-proof head, Group B			
94	316L stainless steel explosion-proof head, Group A			
4-2 Options				
SB	1/2" NPT conduit reducer bushing			
I	Stainless tag			
T-440 ^[1]	(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			
T82-00	(4 to 20) mA dual input, isolated HART® head-mounted transmitter			
See transmitter ordering information in back of section.				
[1] Not available with option 74.				

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