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**

Example Order Number: RBF185L 48 3 - 006(1/2) - 00 - 8HN 31, SB, T-

- **1-0 100 Platinum RTD Elements α = 0.00385 °C⁻¹**
  - **SINGLE**
  - **DUAL**
  - **TOLERANCE**
  - **TEMP. RANGE**
  - R1T185L R1T285L Grade B (-200 to 200) °C
  - RST185L RST285L (1/5) Class B (-30 to 150) °C
  - RBF185L RBF285L Class B (-50 to 200) °C
  - RAF185L RAF285L Class A (-30 to 200) °C
  - R1T185H R1T285H Grade B (-200 to 600) °C
  - RAT185H RAT285H Class A (-100 to 450) °C

- [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
  - 36 3/16
  - 48 1/4
  - 66 3/8
  - [1] Not available in duplex

- **1-2 Element Connection**
  - **CODE**
  - **DESCRIPTION**
  - 2 2-wire element
  - 3 3-wire element
  - 4 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.

- **3-0 No Fitting**
  - CODE: 00

- **3-1 One-Time Adjustable Fittings**
  - CODE: TYPE
  - NPT SIZE (inches) AVAILABLE SHEATH DIAMETERS (inches)
  - 05A 316 SS 1/8 1/8, 3/16, 1/4
  - 05B 316 SS 1/4 1/8, 3/16, 1/4, 3/8
  - 05C 316 SS 1/2 1/8, 3/16, 1/4, 3/8
  - 15A Brass 1/8 1/8, 3/16, 1/4
  - 15B Brass 1/4 1/8, 3/16, 1/4, 3/8
  - 15C Brass 1/2 1/4, 3/8
  - 14 Brass/ Steel Flange 1/8, 3/16, 1/4, 3/8

- **3-2 Re-Adjustable Compression Fittings**
  - CODE: TYPE
  - NPT SIZE (inches) AVAILABLE SHEATH DIAMETERS (inches)
  - 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, 3/16, 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

- **3-3 Fixed Bushings**
  - CODE: MOUNTING THREAD
  - NPT SIZE (inches) AVAILABLE SHEATH DIAMETERS (inches)
  - 316 SS 8A 1/8 1/8, 3/16, 1/4
  - 8B 1/4 1/8, 3/16, 1/4, 3/8
  - 8C 1/2 1/8, 3/16, 1/4, 3/8
  - 8D 3/4 1/8, 3/16, 1/4, 3/8

- [1] Requires Table 4, Option HP Selection

- [2] When ordering fixed bushings, specify order code above plus insert length “U”, as measured from hot tip to bottom of threaded bushing.

**3-4 Options**

- **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-D 10 (4 to 20) mA dual input HART® transmitter with digital display and general-purpose aluminum housing with glass lid
  - 37T-662A (4 to 20) mA HART® dual cavity field temperature transmitter with general-purpose aluminum housing
  - 49 Flip-top aluminum head
  - 63 White polypropylene screw-cover head
  - 91 316 L stainless steel screw-cover head

- **4-0 Head Mounting Fittings**
  - CODE: DESCRIPTION
  - 6HN 1/2” x 1/2” NPT stainless steel bushing (no process threads)
  - 8HN 1/2” x 1/2” NPT stainless steel bushing (no process threads)
  - 8RNDC 3/4” x 1/2” NPT stainless steel hex nipple

- **4-1 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-D 10 (4 to 20) mA dual input HART® transmitter with digital display and general-purpose aluminum housing with glass lid
  - 37T-662A (4 to 20) mA HART® dual cavity field temperature transmitter with general-purpose aluminum housing
  - 49 Flip-top aluminum head
  - 63 White polypropylene screw-cover head
  - 91 316 L stainless steel screw-cover head

- **4-2 Options**
  - [W] 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 transmitter ordering information in back of section.

Available with option 31 only.

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