Head Assemblies - (Head & Connection)
Thermocouples & RTD's

REOTEMP INSTRUMENTS

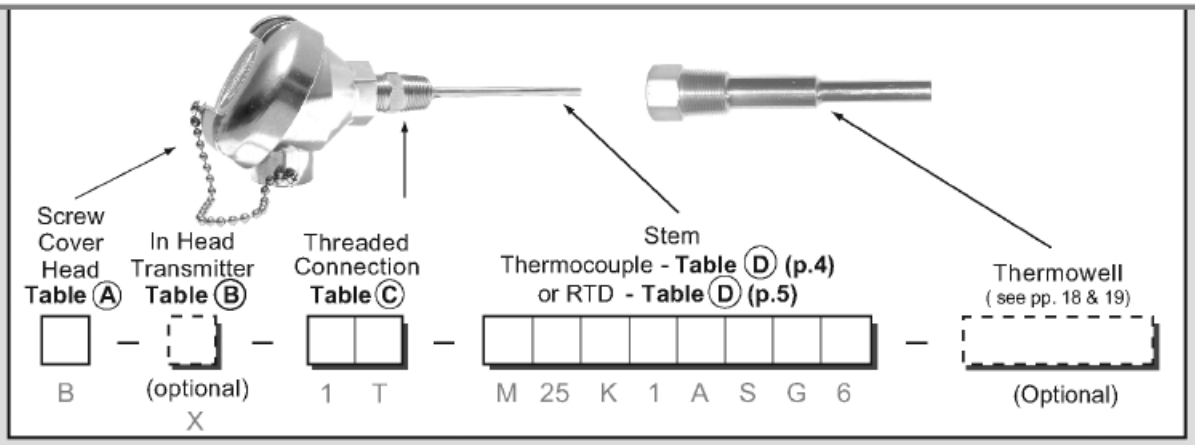


Table Ⓐ - Connection Heads

TYPE B Universal Cast Aluminum	TYPE A Universal Cast Iron
TYPE G 316SS	TYPE H Aluminum Flip-Top
TYPE I Epoxy Coated Aluminum	TYPE W (use with digital display) Aluminum, Window
TYPE E Explosion Proof, Aluminum	TYPE T ATEX Explosion Proof, Aluminum
TYPE J Explosion Proof 316SS	TYPE Z (use with digital display) Explosion Proof, Window
TYPE S Poly Plastic (white)	TYPE C Poly Plastic (Black)

Table Ⓑ - Transmitters - (optional)

In Head Standard	In Head with Digital Display (use window head Z or W)
X = 4-20mA 2-wire trans.	WX = 4-20mA 2-wire trans.
R = 4-20mA 2-wire Hart trans.	WR = 4-20mA 2-wire Hart trans.

Table Ⓒ - Threaded Connections

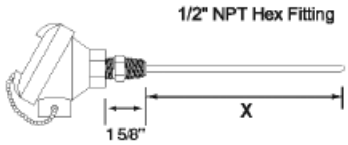
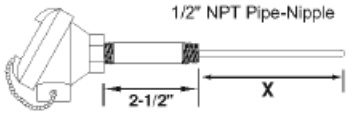
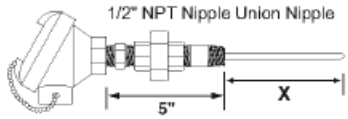
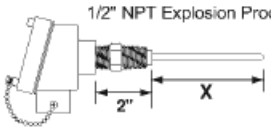
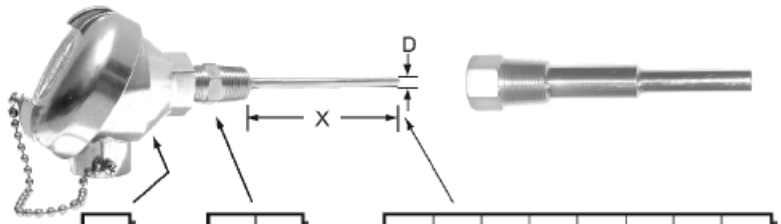
Use spring loaded connection with thermowells. Use welded connection when stem goes directly into the process medium.	Spring Loaded		Welded
	Standard 316SS Fittings	Steel Fittings	Standard 316SS Fittings
	1T	---	1F
	2T	2L	---
	4T	4L	4F
	7T	---	---

Table Ⓓ - Stems

Thermocouples see p.4
RTD's see p.5

Head Assemblies - (TC Stem)
Thermocouples



B — 1 T — M 25 K 1 A S G 6

Head - **Table Ⓐ** (p.3)

Connection - **Table Ⓒ** (p.3)

Thermocouple Stem - **Table Ⓓ** (below)

How to Order

1. Head - Table Ⓐ (p.3)
2. Transmitter (option) - Table Ⓑ (p.3)
3. Connection - Table Ⓒ (p.3)
4. Stem - Table Ⓓ

TABLE Ⓓ Thermocouple Stems

STEP 1

Metal Sheathed Thermocouple Assembly - Insert "M"

STEP 2 - Sheath Diameter (D)

Insert 2 digit number designated below

06 = .062in. (1/16")	**12** = .125in. (1/8")	**18** = .188in (3/16")	**25** = .250in. (1/4")	**37** = .375in. (3/8")	**50** = .500in. (1/2")

STEP 3 - ANSI Type Thermocouple

Insert designation below.

K = Chromel Alumel
T = Copper Constantan
J = Iron Constantan
E = Chromel Constantan

STEP 4 - Type of Sheath Material

Insert single-digit number designated below.

1 = 316 SS
3 = 304 SS
2 = 310 SS
5 = Inconel 600

STEP 5 - Style

A = Style "A" (Stem for complete assembly)

STEP 6 - Number of Element

S = Single element assembly
D = Dual element assembly

STEP 7 - Type of Junction

Elements: G = Grounded E = Exposed
U = Ungrounded UU = Ungrounded, Uncommon

STEP 8 - Probe Length (X) in inches

Stem length measured from bottom of threads to stem tip.

M | | | | A | | | |

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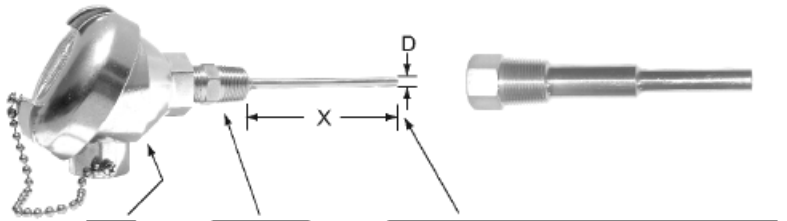
RTD's (Resistance Temperature Detectors)



B	–	1	T	–	A	PX	1	25	1	1	6	X

Head - **Table Ⓐ** (p.3) | Connection - **Table Ⓒ** (p.3) | RTD stem - **Table Ⓓ** (below)

How to Order

1. Head - Table Ⓐ (p.3)
2. Transmitter (option) - Table Ⓑ (p.3)
3. Connection - Table Ⓒ (p.3)
4. Stem - Table Ⓓ

TABLE Ⓓ RTD Stems

STEP 1 - RTD Style

A = Style "A" (stem for complete assembly)

STEP 2 - Sensor Material (Px is standard)

Insert Letter designated below.

Px - Platinum 0.00385 Ω/Ω/ °C
P - Platinum 0.00392 Ω/Ω/ °C
N - Nickel 0.06725 Ω/Ω/ °C
C - Copper 0.00421 Ω/Ω/ °C

STEP 3 - Temperature

Insert single-digit number designated below.

1 -40°F / 600°F
2 (Extended range) -328°F / 1100°F

STEP 4 - Sheath Diameter

Insert two-digit number designated below

25 = .250 dia. 12 = .125 dia. 18 = .188 dia. 37 = .375 dia.

STEP 5 - Sheath Material

Insert single-digit number designated below.

1 = 316 SS

STEP 6 - Resistance 32°F (0°C) Ohms ± .5% (#1 is standard)

Insert single-digit number designated below

1 = 100Ω (Pt, .00385 & .00392)
4 = 1,000Ω (Pt. .00385 only) 5 = 500Ω (Pt. .00385 only)
7 = 120Ω (Nickel only) 8 = 10Ω (Copper only)

STEP 7 - Determine the required length "X" in inches

Stem length measured from bottom of threads to stem tip.

STEP 8 - Number of Leads/RTD's

Single RTD	Leads/RTD	Duplex RTD
X	3-wire	XX
Y	4-wire	YY

A				1			

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