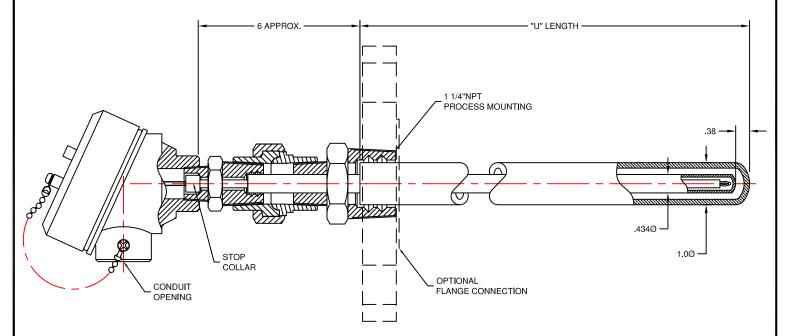
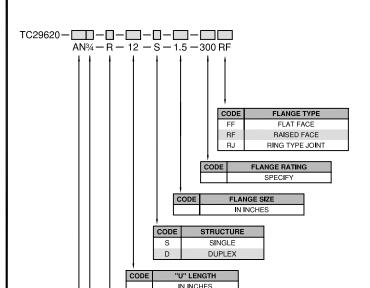
INDUSTRIAL THERMOCOUPLES





SPECIAL

(NOTE 3)

RR

SS

BB

CONDUIT OPENING

1/2 or 3/4NPT

STANDARD

CODE

This double tube construction allows the use of a alumina primary tube which protects the element and a silicon carbide secondary (or outer) tube which protects the alumina tube from the thermal shock associated with startup conditions.

The alumina inner tube is attached to the upper fitting (between head and union) with a high temperature cement. The silicon carbide outer tube is cemented to the process fitting. Grooves for the tube are machined into the fittings provide additional holding strength. The thermocouple is equipped with a collar seated in the inner fitting to prevent the measuring junction from being

Assemblies can be used in an oxidizing atmosphere up to 1900°F (1600°C) and 3600°F (2000°C) in a reducing atmosphere.

This unique design seals the thermocouples and prevents breakage by restricting movement of the tubes. Protection tubes are field replaceable.

> SPECIFICATIONS Calibration: R, S or B Element Size: 24 gauge Element Insulator: 2 or 4 hole Alumina Beads Stop Collar: Mullite Bead Upper Fitting Size: 1/2" by 3/4"NPT Material: Stainless Steel Union Size: 3/4"NPT Material: Steel, (Stainless Steel Available) Process Fitting

Size: 3/4" by 1 1/4"NPT

Material: Stainless Steel

Primary Tube

Size: 7/16"OD by 5/16"ID

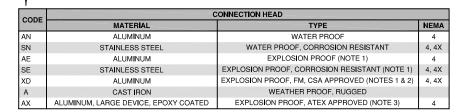
Material: High purity Alumina

Secondary Tube Size: 1"OD by 9/16"ID

Material: Recrystallized Silicon Carbide

Notes:

- (1) Rated NEC class 1, Groups B, C and D.
- (2) ATEX approved EEx d IIC, T6.
- (3) Meets or exceeds Special Initial Calibration Tolerances per ANSI MC96.1-1982 and ASTM E230-1993.
- (4) For an item that does not fall within the catalog description an (SP) can be added to the ordering code as part of a custom construction.



CALIBRATION

PLATINUM-13%RHODIUM (+) vs PLATINUM (-)

PLATINUM-10%RHODIUM (+) vs PLATINUM (-)

PLATINUM-30%RHOD. (+) vs PLATINUM-6%RHOD (-)



SECTION INTC

DOUBLE CERAMIC PROTECTION TUBE **ASSEMBLIES** THREADED or FLANGED

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