INDUSTRIAL RTD'S

	CODE	HEAD EXTENSION
A	1	(NO EXTENSION, 0 "A" LENGTH)
	3	NIPPLE/UNION/ (NOTE 1)

	CODE	CONNECTION HEAD		
		MATERIAL	TYPE	NEMA
B	AN	ALUMINUM	WATER PROOF	4
	SN	STAINLESS STEEL	WATER PROOF, CORROSION RESISTANT	4, 4X
	AE	ALUMINUM	EXPLOSION PROOF (NOTE 2)	4
	SE	STAINLESS STEEL	EXPLOSION PROOF, CORROSION RESISTANT (NOTE 2)	4, 4X
	XD	ALUMINUM	EXPLOSION PROOF, FM, CSA APPROVED (NOTES 2 & 3)	4, 4X
	A	CAST IRON	WEATHER PROOF, RUGGED	
	AX	ALUMINUM, LARGE DEVICE, EPOXY COATED	EXPLOSION PROOF, ATEX APPROVED (NOTE 3)	4

	CODE	CONDUIT OPENING
C		1/2 or 3/4NPT

	CODE	TUBE OPENING
D		1/2 or 3/4NPT (NOTE 4)

	CODE	"A" LENGTH
E		IN INCHES

	CODE	STRUCTURE
F		SINGLE (LEAVE BLANK)
	D	DUPLEX

	CODE	SHEATH DIAMETER (STANDARD 316 STN. STL.) (NOTE 4)
G	316	3/16" (.187)
	14	1/4" (.250)

	CODE	ELEMENT TYPE (NOTE 5)			
		STANDARD	MATERIAL	TCR	RESISTANCE @ 0° C.
H		DIN 43760	PLATINUM	.00385	100 OHMS (LEAVE BLANK)
	PT5	DIN 43760	PLATINUM	.00385	500 OHMS
	PT1	DIN 43760	PLATINUM	.00385	1000 OHMS (LT RANGE ONLY)
	JIS	JIS-C-1604-81	PLATINUM	.003916	100 OHMS
	SA	RC21-4-1966	PLATINUM	.003923	98.129 OHMS
	CU		COPPER	.00427	10 OHMS (LT RANGE ONLY)
	NI		NICKEL	.00672	120 OHMS

	CODE	TEMPERATURE RANGE
J	LT	-58 to +500° F (-50 to +260° C.)
	MT	-58 to +900° F (-50 to +482° C.)
		-292 to +932° F (-180 to +500° C) (LEAVE BLANK)
	HT	-292 to +1202° F (-180 to +650° C) (NOTE 6)

	CODE	SYSTEM
K	2W	2 WIRE (4 WIRE TOTAL WITH DUPLEX)
		3 WIRE (LEAVE BLANK)
	4W	4 WIRE (8 TOTAL WITH DUPLEX)

	CODE	ACCURACY
L		ASTM E1137 CLASS B (LEAVE BLANK)
	CLA	ASTM E1137 CLASS A

	CODE	PROTECTION TUBE TYPE	
		TUBE SIZE	OD
M	81	1/4" NPS	0.540
	82	1/2" NPS	0.840
	83	3/4" NPS	1.050
	84	1" NPS	1.315

	CODE	TUBE SCHEDULE (INSIDE DIAMETER)			
		1/4"NPT	1/2"NPT	3/4"NPT	1"NPT
N	40	0.364	0.622	0.824	1.049
	80	0.302	0.546	0.742	0.957
	160	N/A	0.464	0.612	0.815
	XXS	N/A	N/A	0.434	0.599

	CODE	WELL MATERIAL
Q	P	304 STAINLESS STEEL
	Q	310 STAINLESS STEEL
	R	316 STAINLESS STEEL
	PLorRL	304or316 S. S. (LOW CARBON)
	N	CARBON STEEL
	J	INCONEL 600
	H	HASTELLOY C276

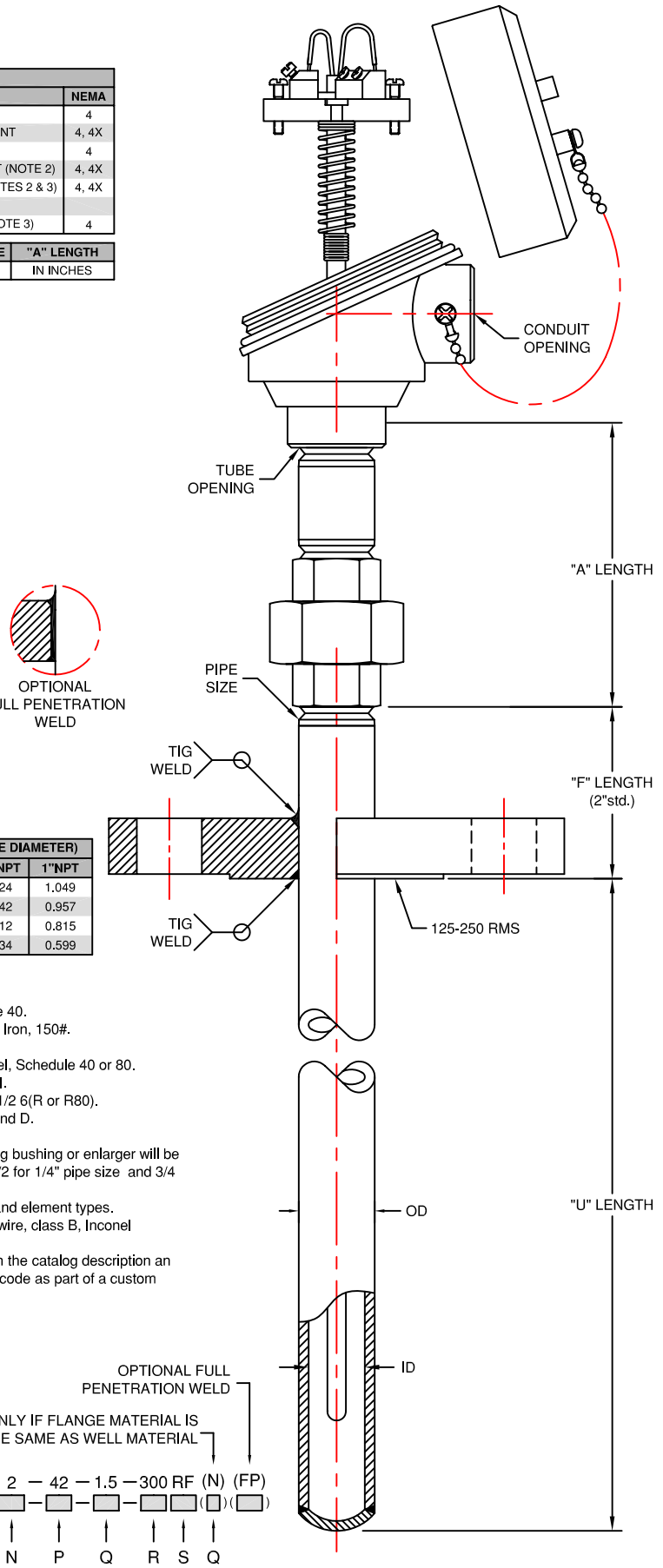
	CODE	"F" LENGTH
N		IN INCHES (2" STD.)

	CODE	"U" LENGTH
P		IN INCHES

	CODE	FLANGE SIZE
Q		SPECIFY

	CODE	FLANGE RATING
R		SPECIFY

	CODE	FLANGE TYPE
S	FF	FLAT FACE
	RF	RAISED FACE
	RJ	RING TYPE JOINT



Notes:

(1) Standard Nipples - Steel, Schedule 40.
Standard Unions - Black Malleable Iron, 150#.
OPTIONAL STAINLESS STEEL
Nipples - 304 or 316 Stainless Steel, Schedule 40 or 80.
Unions - 304 or 316 Stainless Steel.
Example Ordering Code: 3AE 3/4 1/2 6(R or R80).

(2) Rated NEC class 1, Groups B, C and D.

(3) ATEX approved EEx d IIC, T6.

(4) For 1/4" and 1" pipe size a reducing bushing or enlarger will be used to fit tube opening, specify 1/2 for 1/4" pipe size and 3/4 for 1" pipe size.

(5) Contact factory for other sheaths and element types.

(6) Standard in single construction, 3 wire, class B, Inconel sheath material.

(7) 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.

EXAMPLE:

3 SN 3/4 — 3/4 — 2 — D 14 PT5 LT 4W CLA — 83 — 80 — Q — 2 — 42 — 1.5 — 300 RF (N) (FP)

RTD

A B C D E F G H J K L M N Q N P Q R S Q

THERMO ELECTRIC

TEMPERATURE MEASUREMENT DESIGNER'S GUIDE
WWW.THERMO-ELECTRIC-DIRECT.COM

SECTION INRD

PIPE WELL ASSEMBLIES
FLANGED PROCESS CONNECTION

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