

INDUSTRIAL THERMOCOUPLES

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

B	CODE	CONNECTION HEAD		
		MATERIAL	TYPE	NEMA
	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

C	CODE	CONDUIT OPENING	D	CODE	TUBE OPENING	E	CODE	"A" LENGTH
		1/2 or 3/4NPT			(NOTE 4)			IN INCHES

F	CODE		ELEMENT CONSTRUCTION			
	SINGLE	DUPLEX	DIAMETER	WIRE SIZE (AWG)	INSULATION	AVAILABLE CALIB.
	B14	BD14	.325"	14	CERAMIC BEAD	K
	B08	BD08	.5"/.69"	8	CERAMIC BEAD	K
	B20	BD20	.125"	20	CERAMIC BEAD	R, S, B
	B22	BD22	.125"	22	CERAMIC BEAD	R, S, B
	B24	BD24	.125"	24	CERAMIC BEAD	R, S, B

G	CODE		CALIBRATION
	STANDARD	SPECIAL (NOTE 5)	
	K	KK	CHROMEL (+) vs ALUMEL (-)
	R	RR	PLATINUM-13%RHODIUM (+) vs PLATINUM (-)
	S	SS	PLATINUM-10%RHODIUM (+) vs PLATINUM (-)
	B	BB	PLATINUM-30%RHOD. (+) vs PLATINUM-6%RHOD (-)

H	CODE		MEASURING JUNCTION
	STANDARD	SPECIAL (NOTE 5)	
	G		SINGLE GROUNDED
	U		SINGLE UNGROUNDED
	DG		DUPLEX GROUNDED
	DU		DUPLEX UNGROUNDED

J	PROTECTION TUBE TYPE					
	CODE	MOUNTING CONNECTION	HEAD CONNECTION	TUBE SIZE I.D.	TUBE SIZE O.D.	MATERIAL
	900	1/2"NPT	1/2"NPT	1/4"	3/8"	MULLITE
	901	3/4"NPT	1/2"NPT	3/8"	1/2"	
	902	1"NPT	3/4"NPT	7/16"	11/16"	
	903	1 1/4"NPT	3/4"NPT	5/8"	7/8"	
	904	1 1/4"NPT	3/4"NPT	3/4"	1"	
	910	1/2"NPT	1/2"NPT	5/32"	1/4"	99.5% PURE ALUMINA
	911	1/2"NPT	1/2"NPT	3/16"	5/16"	
	912	1/2"NPT	1/2"NPT	1/4"	3/8"	
	913	3/4"NPT	1/2"NPT	5/16"	1/2"	
	914	3/4"NPT	1/2"NPT	7/16"	9/16"	
	915	3/4"NPT	1/2"NPT	7/16"	11/16"	
	916	1 1/4"NPT	3/4"NPT	5/8"	7/8"	
	917	1 1/4"NPT	3/4"NPT	3/4"	1"	
	930	NONE	1/2"NPT	5/8"	7/8"	CERMET
	930T	3/4"NPT	1/2"NPT	5/8"	7/8"	

K	PROTECTION TUBE MATERIAL		
	CODE	MATERIAL	MAXIMUM TEMPERATURE
	U	MULLITE (SILICA-ALUMINA)	3,000°F (1,650°C)
	S	99.5% PURE ALUMINA	3,450°F (1,900°C)
	CERMET	METAL-CERAMIC	2,500°F (1,370°C)

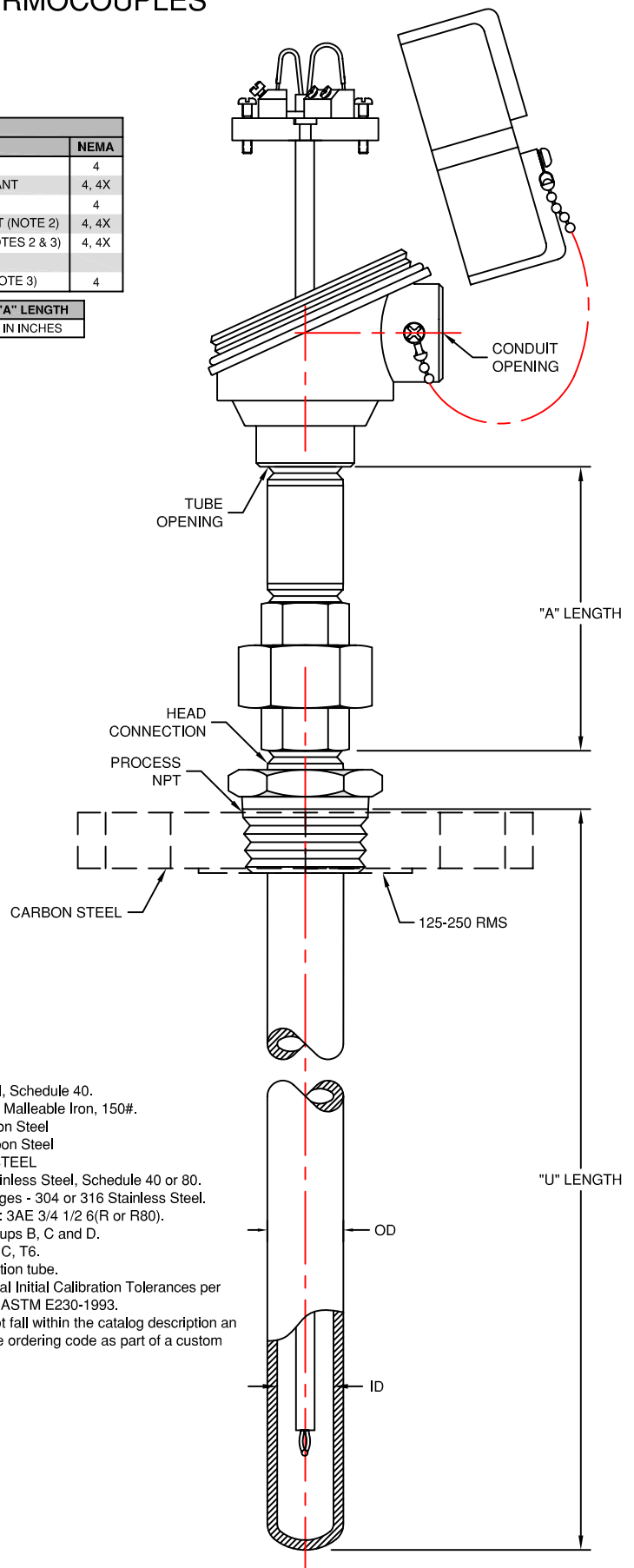
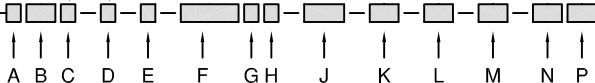
L	CODE	"U" LENGTH
		IN INCHES

M	CODE	FLANGE SIZE
		IN INCHES

N	CODE	FLANGE RATING
		SPECIFY

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

EXAMPLE: 3 AE 3/4 - 3/4 - 3 - BD24 K U - 916 - S - 18 - 1.5 - 300 RF



Notes:

- (1) Standard Nipples - Steel, Schedule 40.
Standard Unions - Black Malleable Iron, 150#.
Standard Fittings - Carbon Steel
Standard Flanges - Carbon Steel
- OPTIONAL STAINLESS STEEL
Nipples - 304 or 316 Stainless Steel, Schedule 40 or 80.
Unions, Fittings and flanges - 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) Match opening to protection tube.
- (5) Meets or exceeds Special Initial Calibration Tolerances per ANSI MC96.1-1982 and ASTM E230-1993.
- (6) 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.



TEMPERATURE MEASUREMENT DESIGNER'S GUIDE
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SECTION INTC

CERAMIC PROTECTION TUBE ASSEMBLIES THREADED or FLANGED

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