

INDUSTRIAL THERMOCOUPLES

A	CODE	HEAD EXTENSION
	2	NIPPLE (NOTE 1)
4	NIPPLE/UNION/NIPPLE (NOTE 1)	

B	CONNECTION HEAD			
	CODE	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		
L	POLYPROPYLENE	WEATHER PROOF, LIGHT WEIGHT		
AX	ALUMINUM, LARGE DEVICE, EPOXY COATED	EXPLOSION PROOF, ATEX APPROVED (NOTE 3)	4	

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

F	ELEMENT CONSTRUCTION					
	CODE		DIAMETER	WIRE SIZE (AWG)	INSULATION	SPRING LOADED
ASL18	ADSL18	1/8"	24	MgO-SHEATH	YES	
A316	AD316	3/16"	20	MgO-SHEATH	NO	
ASL316	ADSL316	3/16"	20	MgO-SHEATH	YES	
A14	AD14	1/4"	18	MgO-SHEATH	NO	
ASL14	ADSL14	1/4"	18	MgO-SHEATH	YES	
A516	AD516	5/16"	16	MgO-SHEATH	NO	
ASL516	ADSL516	5/16"	16	MgO-SHEATH	YES	
A38	AD38	3/8"	15	MgO-SHEATH	NO	
ASL38	ADSL38	3/8"	15	MgO-SHEATH	YES	
B14	BD14	.325"	14	CERAMIC BEAD	NO	
B20	BD20	.183"	20	CERAMIC BEAD	NO	

G	CODE		CALIBRATION
	STANDARD	SPECIAL (NOTE 4)	
J	JJ	IRON (+) vs CONSTANTAN (-)	
K	KK	CHROMEL (+) vs ALUMEL (-)	
T	TT	COPPER (+) vs CONSTANTAN (-)	
E	EE	CHROMEL (+) vs CONSTANTAN (-)	
N	NN	NICROSIL (+) vs NISIL (-)	
-	KKS	CHROMEL (+) vs ALUMEL (-) (NOTE 5)	
-	EES	CHROMEL (+) vs CONSTANTAN (+) (NOTE 5)	

H	CODE		MEASURING JUNCTION
G			SINGLE GROUNDED, GROUNDED TO SHEATH
U			SINGLE UNGROUNDED, ISOLATED FROM SHEATH
DG			DUPLEX GROUNDED, GROUNDED TO SHEATH
DU			DUPLEX UNGROUNDED, ISOLATED FROM SHEATH

J	CODE	ELEMENT SHEATH MATERIAL	STANDARD CALIBRATIONS (NOTE 6)
	P	304 STN. STL.	J, K, T
R	316 STN. STL.	J, K, T, E, N	
Q	310 STN. STL.	J, K, E	
J	INCONEL 600	K, N, KKS, EES (NOTE 5)	

DROP CODE WHEN USING CERAMIC BEADED ELEMENTS

K	WELL TYPE					
	CODE	PROCESS NPS	OD-1	OD-2 (NOTE 7)	ID	PIPE SIZE (ACTUAL)
01	3/4"	.750	.844	.385	3/4" (1.05")	
011	3/4"	.750	.844	.260	3/4" (1.05")	
02	1"	.750	1.063	.385	1" (1.315")	
021	1"	.750	1.063	.260	1" (1.315")	

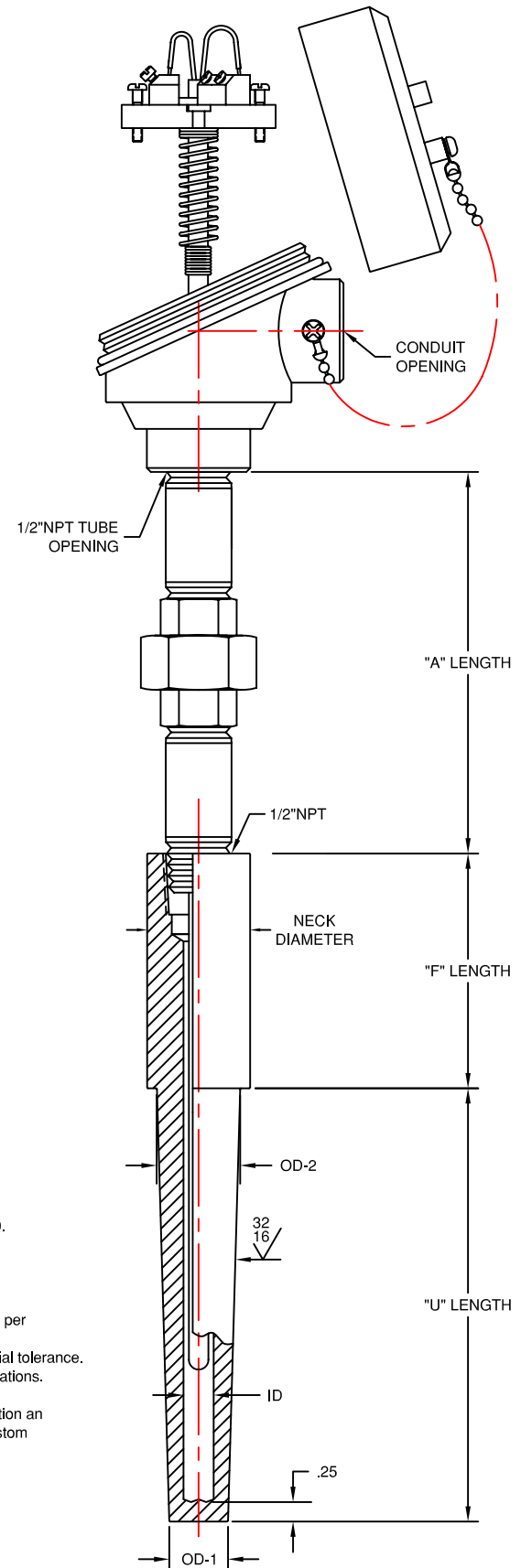
L	CODE		WELL MATERIAL
P			304 STAINLESS STEEL
R			316 STAINLESS STEEL
P L or R L			304 or 316 S. S. (LOW CARBON)
N			CARBON STEEL
(F11)			1.25% CR - .5% MO
(F22)			2.25% CR - 1% MO

M	"F" LENGTH
	IN INCHES

N	"U" LENGTH
	IN INCHES

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: 4AE 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) Meets or exceeds Special Initial Calibration Tolerances per ANSI MC96.1-1982 and ASTM E230-1993
- (5) KKS & EES denotes stabilized thermocouple and special tolerance.
- (6) Contact factory for other calibration and sheath combinations.
- (7) Shank diameter for 2000# service (Sch-40).
- (8) 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: 4 SE 3/4 - 1/2 - 5 - ADSL14 KK GR - 02 R 3 - 5

A	B	C	D	E	F	G	H	J	K	L	M	N



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

SECTION INTC

DRILLED SOCKET WELD WELL ASSEMBLIES TAPERED CONSTRUCTION 3/4 & 1"NPS PROCESS CONNECTIONS

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