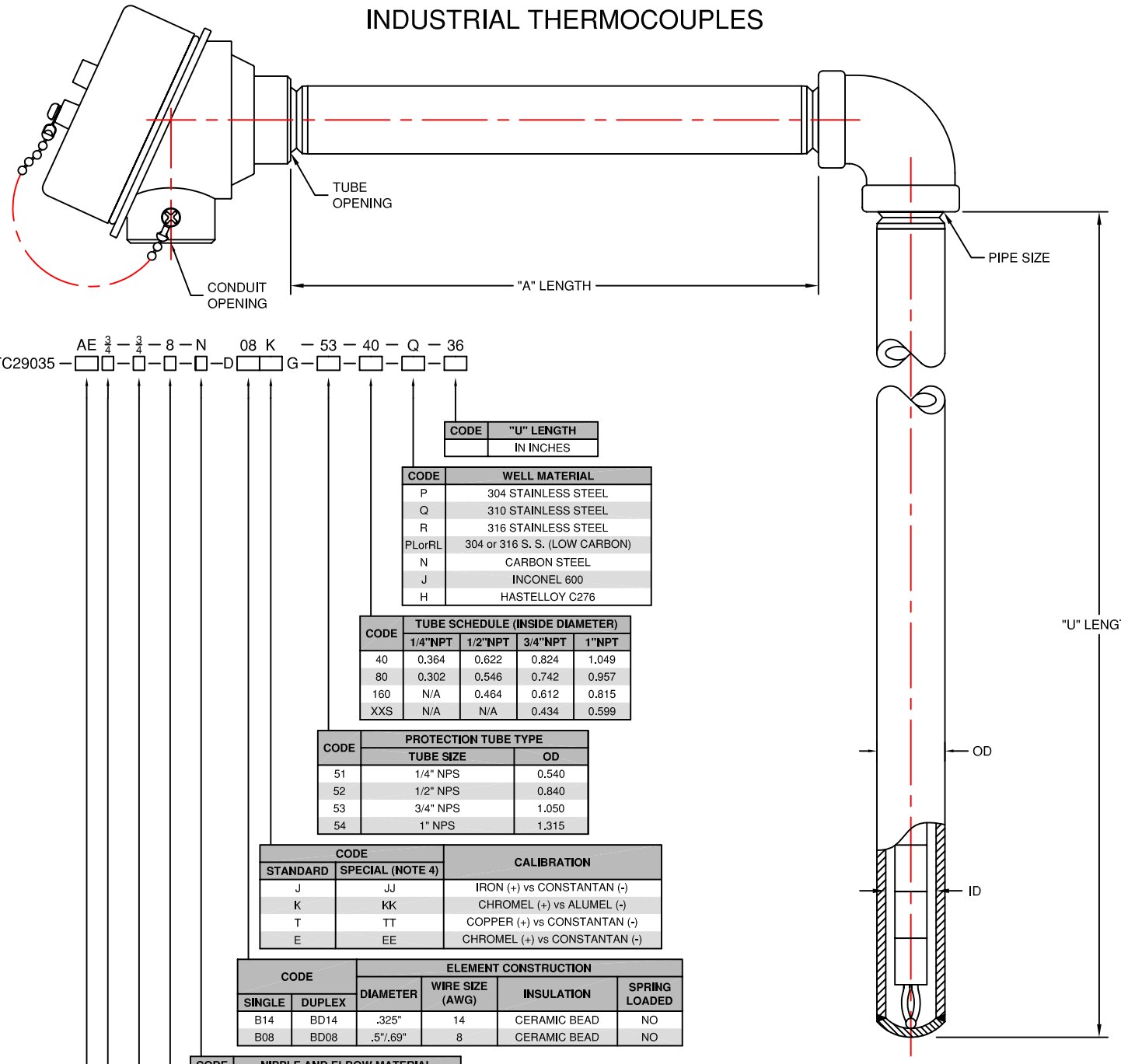
INDUSTRIAL THERMOCOUPLES



TC29035 — AE — $\frac{3}{4}$ — $\frac{3}{4}$ — 8 — N — 08 — K — D — G — 53 — 40 — Q — 36

CODE	"U" LENGTH
	IN INCHES

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

CODE	TUBE SCHEDULE (INSIDE DIAMETER)			
	1/4"NPT	1/2"NPT	3/4"NPT	1"NPT
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	PROTECTION TUBE TYPE	
	TUBE SIZE	OD
51	1/4" NPS	0.540
52	1/2" NPS	0.840
53	3/4" NPS	1.050
54	1" NPS	1.315

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 (-)

CODE		ELEMENT CONSTRUCTION			
SINGLE	DUPLEX	DIAMETER	WIRE SIZE (AWG)	INSULATION	SPRING LOADED
B14	BD14	.325"	14	CERAMIC BEAD	NO
B08	BD08	.5"/.69"	8	CERAMIC BEAD	NO

CODE	NIPPLE AND ELBOW MATERIAL
P	304 STAINLESS STEEL
N	CARBON STEEL
R	316 STAINLESS STEEL

CODE	"A" LENGTH
	IN INCHES

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

CODE	CONDUIT OPENING
	1/2 or 3/4NPT

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 1)	4
SE	STAINLESS STEEL	EXPLOSION PROOF, CORROSION RESISTANT (NOTE 1)	4, 4X
XD	ALUMINUM	EXPLOSION PROOF, FM, CSA APPROVED (NOTES 1 & 2)	4, 4X
A	CAST IRON	WEATHER PROOF, RUGGED	
AX	ALUMINUM, LARGE DEVICE, EPOXY COATED	EXPLOSION PROOF, ATEX APPROVED (NOTE 2)	4

Notes:
(1) Rated NEC class 1, Groups B, C and D.
(2) ATEX approved EEx d IIC, T6.
(3) For 1/4" and 1" pipe size a reducing bushing will be used to fit tube opening, specify 1/2 for 1/4" pipe size and 3/4 for 1" pipe size.
(4) Meets or exceeds Special Initial Calibration Tolerances per ANSI MC96.1-1982 and ASTM E230-1993.
(5) 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.

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