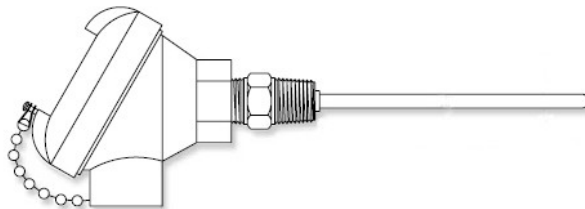




ThermoCouple Innovations, Inc



Industrial Thermocouples



- Oil Refining
- Steel Processing
- Turbine & Diesel Engine
- Chemical Plants
- Heat Treating
- Power Generation
- Custom OEM Applications

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HOW TO CONSTRUCT A PART NUMBER

Table 2 (Connection Head)

HEAD CODES
0 = NO HEAD
1= CAH (CAST ALUMINUM)
2= CIH (CAST IRON)
3= PPH (POLYPROPYLENE)
4= EPH (EXPLOSION PROOF)
5= MAH (MINI ALUMINUM)
6= (SPECIAL)

Table 3 (ANSI Designation)

CODE	ALLOY	MAX TEMP. RANGE
J	Iron/Constantan	1400 F (750 C)
K	Chromel/Alumel	2300 F (1250 C)
T	Copper/Constantan	700 F (350 C)
E	Chromel/Constantan	1600 F (900 C)
S	Platinum vs. Platinum 10% Rhodium	2700 F (1450 C)
R	Platinum vs. Platinum 13% Rhodium	2700 F (1450 C)
B	Plt 6% Rhd. Vs. Plt 30% Rhd	3100 F (1700 C)
W	Tungsten 5 % Rhenium vs Tg. 26% Rh	4200 F (2300 C)
N	Nicrosil/Nisil	2372F (1300 C)

JUNCTION TYPE	GROUNDED	UNGROUNDED	EXPOSED
Single	SG	SU	SE
Dual	GG	UU	EE
Dual Separate	N/A	US	ES

Table 4 (Junction Type)

				-				-				-					-				-				
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Table 5 (Sheath Diameter)

CODE	03	04	10	20	30	40	50	60	70	80
SIZE	.032"	.040"	.062"	.090"	.125"	.188"	.250"	.312"	.375"	.500"

CODE	MATERIAL	TEMP. RATING
1	304 S. Steel	1650 F (899 C)
2	310 S. Steel	2100 F (1149 C)
3	316 S. Steel	1700 F (927 C)
4	Inconel 600	2100 F (1149 C)
5*	Hastelloy C	2300 F (1260 C)
6*	Molybdenum	4000 F (2200 C)

Table 6 (Sheath Material)

Table 7 “P” (Process length in inches)

Example: 048C= 48-1/2"

CODE	A	B	C	D	E
FRACTIONS	0	$\frac{1}{4}''$	$\frac{1}{2}''$	$\frac{3}{4}''$	SPL

*NOT AVAILABLE IN SOME DIAMETERS

Table 8 “L” (Lead length if Applicable)

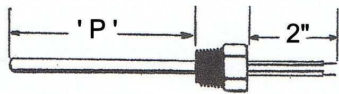
SPECIFY LENGTH INCHES
IF NOT NEEDED USE "000"

Table 9 (Options)

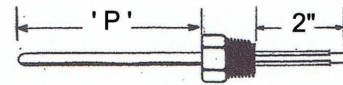
CODE
N = None
X = See Description

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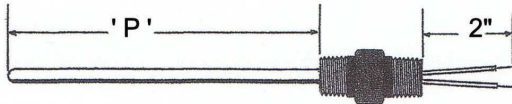
#300 FIXED S.S. HEX BUSHING TOWARDS PROCESS



#310 FIXED S.S. HEX BUSHING TOWARDS COLD END

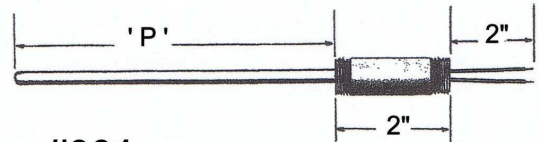


#320 FIXED S.S. HEX NIPPLE



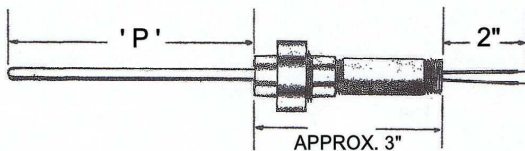
#321 SPRING LOADED S.S. HEX NIPPLE

#330 FIXED C.S. NIPPLE



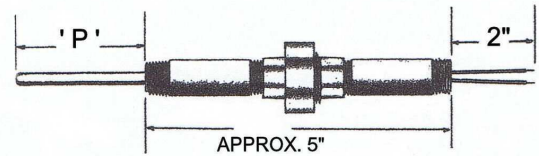
#331 SPRING LOADED C.S. NIPPLE

#340 FIXED C.S. NIPPLE AND UNION



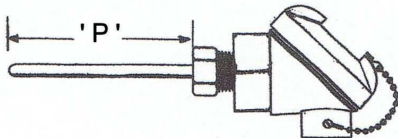
#341 SPRING LOADED C.S. NIPPLE AND UNION

#350 FIXED C.S. NIPPLE, UNION, NIPPLE

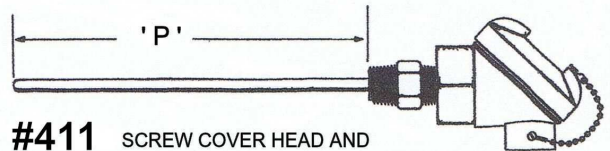


#351 SPRING LOADED C.S. NIPPLE, UNION, NIPPLE

#400 SCREW COVER HEAD AND FIXED BUSHING

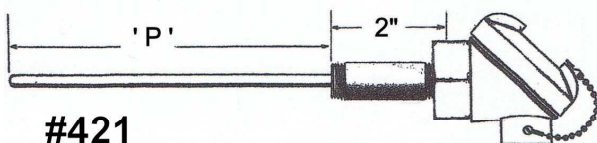


#410 SCREW COVER HEAD AND FIXED S.S. HEX NIPPLE



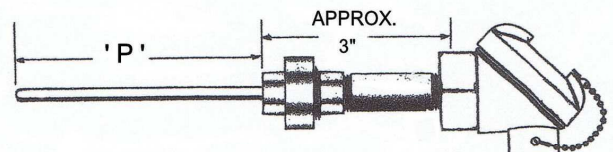
#411 SCREW COVER HEAD AND
SPRING LOADED S.S. HEX NIPPLE

#420 SCREW COVER HEAD AND FIXED C.S. NIPPLE



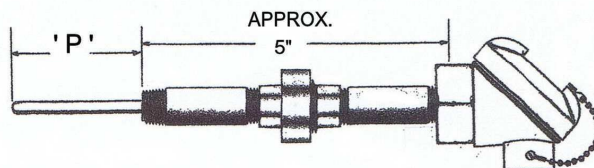
#421
SCREW COVER HEAD AND SPRING LOADED C.S. NIPPLE

#430 SCREW COVER HEAD AND FIXED C.S. NIPPLE AND UNION



#431 SCREW COVER HEAD AND SPRING LOADED C.S.
NIPPLE AND UNION

#440 SCREW COVER HEAD AND FIXED C.S. NIPPLE, UNION, NIPPLE



#441 SCREW COVER HEAD AND SPRING LOADED C.S. NIPPLE, UNION, NIPPLE