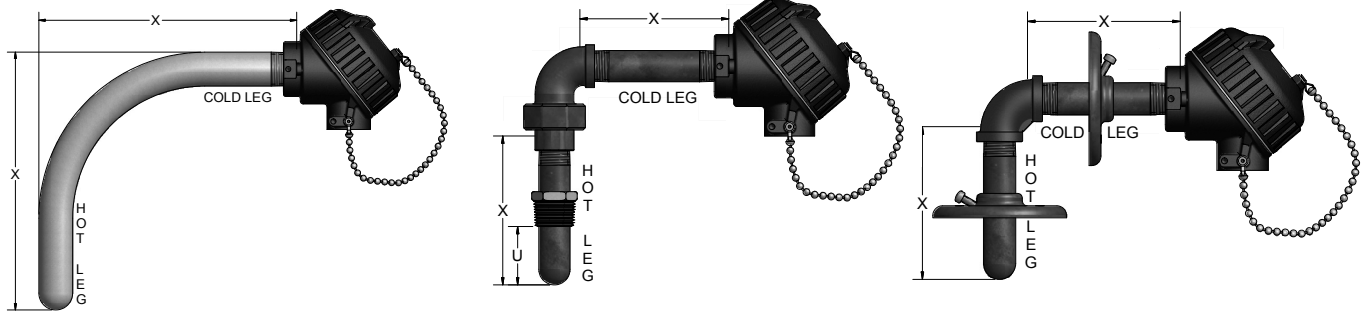


Angle Thermocouples with Metal-Alloy Protection Tubes

Angle thermocouple assemblies are most commonly used in general process applications requiring the use of "over-the-side" temperature sensors with metal-alloy protection tubes. Special construction designs are available. Assemblies may be shipped with the hot leg unattached for assembly at time of installation due to size limitations. Cold leg as standard is supplied as carbon steel.



ORDER CODES

Example Order Number:

K8A - **8** - **75** - **18** - **18** - **8E16** - **34**, **GS**

1 Thermocouple Type and Wire Gauge Size

CODE		
J8A	K8A	N8A
	K11A	
J14A	K14A	N14A

For duplex assemblies use the T/C type code letter twice. Example: J8A - 7 - 75 becomes JJ8A - 7 - 75

2 Hot Leg Protection Tube Material

CODE	MATERIAL	CODE (inches)		
		1/2	3/4	1
6	CARBON STEEL	50	75	100
8	316 SS	50	75	100
5	446 SS	50	75	100
3	ALLOY 600	50	75	N/A
7	ALLOY 601	50	75	100

3 Hot Leg NPT Thread Pipe Size

4 Hot Leg "X" Length

LENGTH (inches)	LENGTH (inches)
12	30
18	36
24	

Specify other lengths in 1" increments.

5 Cold Leg "X" Length

LENGTH (inches)	LENGTH (inches)
12	30
18	36
24	

Specify other lengths in 1" increments.

Continuous Bend Radius

1/2" NPT = 4(5/8)"
3/4" NPT = 4(5/8)"
1" NPT = 5(7/8)"

6 Optional Welded Bushings

CODE		DESCRIPTION
STEEL	316SS	BUSHING SIZE (inches)
6D(U)	8D(U)	3/4 NPT Bushing (50 tubes only)
6E(U)	8E(U)	1 NPT Bushing (50 and 75 tubes only)
6F(U)	8F(U)	1(1/4) NPT Bushing
6G(U)	8G(U)	1(1/2) NPT Bushing

Substitute insertion length, in inches, measured from hot tip to bottom of bushing for (U) above.
Insert NW in place of insertion length (U) for bushing supplied loose on tube.

7 Head Terminations

CODE	DESCRIPTION
31	Aluminum screw-cover head
34	Cast-Iron screw-cover head
49	Flip-top aluminum head

7-1 Assembly Options

CODE	DESCRIPTION
SB	1/2" NPT conduit reducer bushing
GS	Ground screw
H	Adjustable steel mounting flange
HC	Adjustable steel flange (cold leg)
L	Insulated hot junction
I	Stainless tag
UL	Steel union elbow
CB ^[1]	Continuous bend-angle assembly

^[1] Requires 12" minimum on Hot Leg and Cold Leg

Standard Assembly Specifications

ELEMENT	HOT LEG TUBE CODE AVAIL.	COLD LEG SUPPLIED
SINGLE		
8, 11, 14 GA.	50, 75, 100	3/4" NPT on HL tube codes 50, 75. 1" NPT on HL tube codes 100. 1" NPT on duplex 8 and 11 gauge assemblies.
DUPLEX		
8, 11 GA.	75, 100	
14 GA.	50, 75, 100	