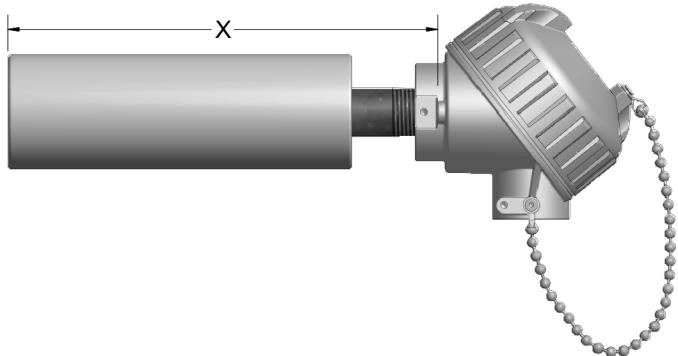
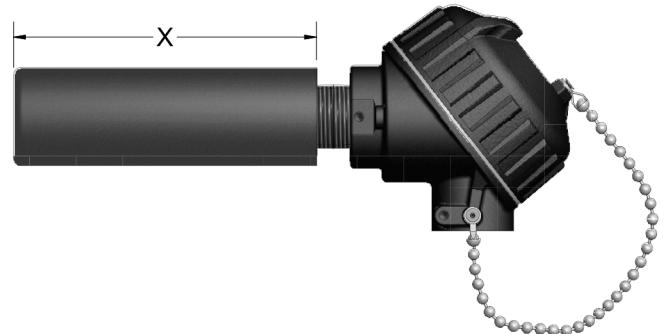


The Series 11, 13 and 14 assemblies are used to protect thermocouple elements in molten aluminum and zinc applications such as diecasting, melting, smelting and high-temperature holding furnace environments. Series 13 and 14 assemblies should be preheated and slowly immersed into any molten materials.

**SERIES 14 PROTECTION TUBE
ASSEMBLIES**

**SERIES 11 PROTECTION TUBE
ASSEMBLIES**

ORDER CODES
Example Order Number:

 1 **K8C** - 2 **13-75** - 3 **24** - 4 **31, H**
1 Thermocouple Type and Wire Gauge Size

CODE	DESCRIPTION
K8C	Type K 8 Gauge ceramic oval insulators
K11C	Type K 11 Gauge ceramic oval insulators
KK14C	Duplex, Type K 14 Gauge ceramic oval insulators

For duplex assemblies use the T/C type code letter twice.
Example: K8C - 13 - 75 becomes KK8C - 13 - 75.
For additional types and sizes consult factory.

2 Protection Tube Material

CODE	FIGURE NUMBER
CAST-IRON	
11-75 ^[1]	3
VESUVIUS	
13-75	1
CERITE® II	
14-50 ^[2]	5

[1] Not available with 8 gauge or duplex 11 gauge.
[2] For protection tubes supplied with a 316SS pipe instead of a carbon steel pipe, change order number 14 to 148.
EXAMPLE: K8C-148-50-24-31

Protection Tube Dimensions

CODE	I.D. x O.D. (inches)
11	0.875 x 1.625
13	0.824 x 2.00
14	0.622 x 2.00

4 Head Terminations

CODE	DESCRIPTION
31	Aluminum screw-cover head
34	Cast-Iron screw-cover head
49	Flip-top aluminum head
91	316L SS screw-cover head

4-1 Assembly Options

CODE	DESCRIPTION
SB	1/2" NPT conduit reducer bushing
GS	Ground screw
H	Adjustable steel mounting flange
I	Stainless tag
L	Insulated hot junction

3 Tube "X" Length

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

Consult factory for other lengths.