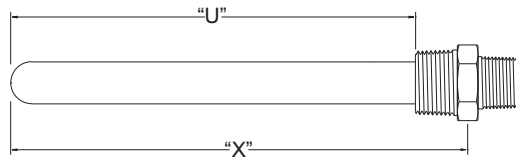


The protection tubes listed below are designed for use in high temperature corrosive service applications. The Series 41 protection tubes are used in waste incineration, cement and lime kilns, utility and recovery boilers, fluidized bed combustion systems, and other harsh process environments when high levels of sulphur, chlorides, ash, and salt deposits are commonly found. The Series 12 protection tubes are also excellent choices for use in waste incineration, immersion into molten copper, brass, basic steels and slag, and for use in open hearth furnaces, soaking pits, and blast furnace applications. **Note: Welded bushings will be welded at maximum length possible when X and U dimensions are specified as the same length. Actual U dimension will be 1 to 2 inches shorter than specified depending on bushing size.**

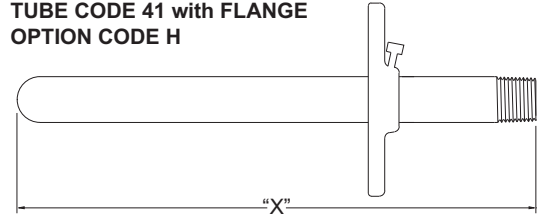
**TUBECODE 12** (see note below)



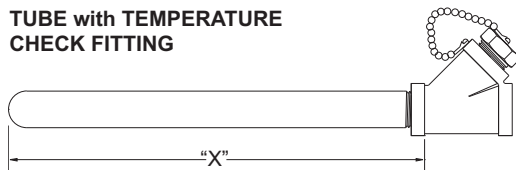
Note: Series 12 tubes "U" dimensions are fixed at approximately 1" less than specified "X" length.

1" x 3/4"  
Steel Hex Fitting  
Standard.  
No optional  
welded bushings  
are necessary.

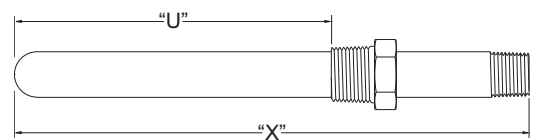
**TUBE CODE 41 with FLANGE**  
**OPTION CODE H**



**TUBE with TEMPERATURE**  
**CHECK FITTING**



**TUBE CODE 41 with OPTIONAL BUSHING**



## ORDER CODES

**Example Order Number:**

**41-75 - 18 - 8E16**

**1 Protection Tube NPT Connections**

CODE	NPT SIZE (inches)	PIPE SCHED.
<i>HR-160 1204 °C [2200 °F] Max.</i>		
41-50	1/2	40
41-75	3/4	40
41-100	1	40
<i>LT-1 1371 °C [2500 °F] Max.</i>		
12-75	n/a	0.875" OD 0.625" ID

**2 Tube "X" Length**

LENGTH (inches)
12
18
24
30
36
Specify other lengths in 1 inch increments.

**3 Protection Tube Options**

CODE	DESCRIPTION
H	Adjustable steel mounting flange
NT	Supplied without threads
6Y	Steel temperature check fitting

**Optional Welded Bushings For Series 41**

CODE	DESCRIPTION	
STEEL	316 SS	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.