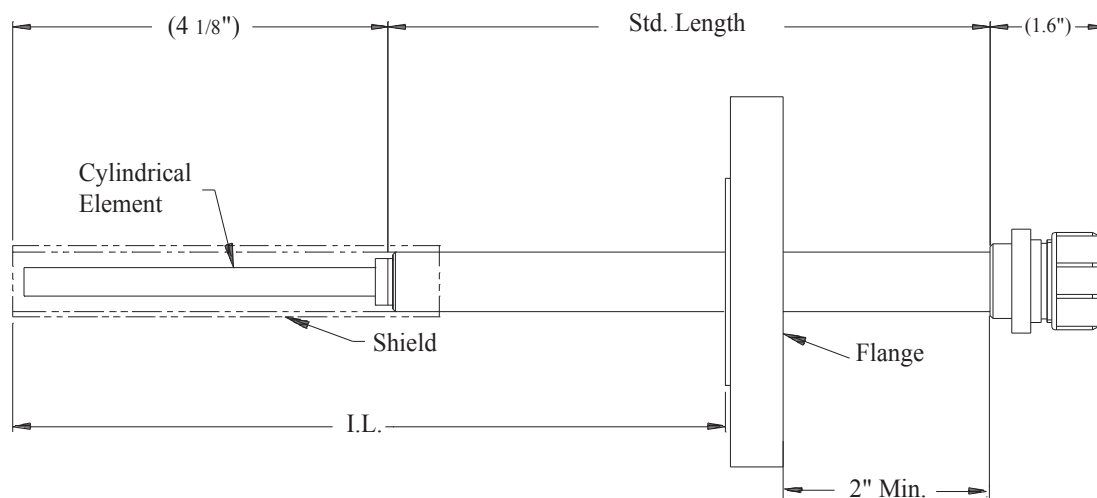


Model ER6100

Electrical Resistance Probe Fixed Length with Flange and Cylindrical Element



Model ER6100 is a fixed-length, flange-mounted, electrical resistance probe. The probe is ideally suited for use in high pressure and/or hazardous applications where threaded fittings are not available or not recommended. Process shutdown or process isolation is required to install and inspect. The all-welded construction allows the probe to be used in harsh environments. The probe assembly consists of an insertion rod with an element, a hermetically sealed connector, and a flange (as specified by customer), which are all welded in place. A mechanical seal and a velocity shield can be added if required. The insertion length (I.L.) is calculated to the end of the shield or to the end of the element if a shield is not present. Probe length can be specified by the customer. For standard probes, the maximum insertion length is given in the chart below and, in this case, is based on a 1" total flange thickness. Several standard elements are available to meet your specific needs.

Specifications:

Probe Body - 316 Stainless Steel

Element Seal - Welded

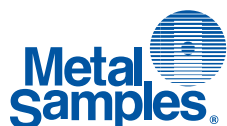
Fill Material - Ceramic

Temperature Rating - 500°F / 260°C

Pressure Rating - According to Flange Rating

Mounting - Mating Flange

Std. Length	IL (max)
8"	9"
12"	13"
18"	19"
24"	25"



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ER6100 Ordering Information

Model									
ER6	Electrical Resistance Fixed Length Probe with Flange								
Flange Size									
1	1" Flange								
2	1 1/2" Flange								
3	2" Flange								
4	3" Flange								
5	4" Flange								
7	6" Flange								
Probe Body Material									
22	316								
44	C276								
ER Element Options									
5	CT10 Cylindrical - 10 mil thickness (5 mil useful probe life)								
6	CT20 Cylindrical - 20 mil thickness (10 mil useful probe life)								
7	CT50 Cylindrical - 50 mil thickness (25 mil useful probe life)								
Flange Pressure Rating									
10	150 lbs.								
20	300 lbs.								
30	600 lbs.								
40	1200 lbs.								
50	1500 lbs.								
60	900 lbs.								
Length									
08	9 inches max. insertion length								
12	13 inches max. insertion length								
18	19 inches max. insertion length								
24	25 inches max. insertion length								
Element Alloy									
XXX	Use Code in Alloy Chart								
ER Probe Options									
00	No shield								
01	Shield, coupon adapter (118), hardware								
02	Shield, coupon adapter (220), hardware								
03	Shield								
Insertion Length (I.L.)									
-LLLL	Length in inches, stated in 2 decimal place format. Round calculated length down to the nearest 1/8". (Ex: 5 1/8" = 0512)								
ER6	2	22	7	20	08	375	03	-0512	Example of Probe Ordering #

For alloys, sizes, or other special requirements not listed, contact our sales department.

Alloy Chart					
Code	Description	UNS #	Code	Description	UNS #
375	Carbon Steel *	G10100	159	316L SS	S31603
538	5Cr 1/2Mo	K42544	A12	C276	N10276
541	9Cr 1Mo	K90941	602	Alloy 625	N06625
186	410 SS	S41000	419	CDA110	C11000
141	304 SS	S30400	434	CDA443	C44300

Note: Not all alloys are available with all element types and seals. * Chemically equivalent to standard pipe-grade carbon steels.