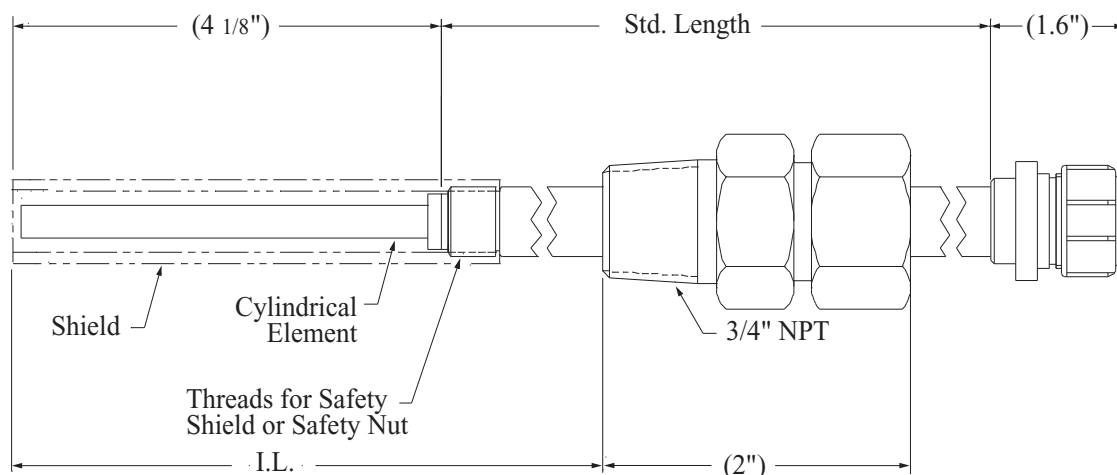


Model ER3100

Electrical Resistance Probe

Adjustable Length with 3/4" NPT Pipe Plug and Cylindrical Element



Model ER3100 is an adjustable-length, electrical resistance probe with a 3/4" NPT compression fitting. The compression fitting allows the probe to be inserted into the process to the required length. The probe requires process isolation or process shutdown to install and a threaded pipe fitting to mount. 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 welded in place, a 3/4" compression fitting, and a safety nut to prevent blow out. A velocity shield can be added to the assembly 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. Several standard elements are available to meet your specific needs.

Specifications:

Probe Body - 316 Stainless Steel

Element Seal - Welded

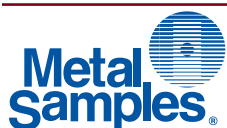
Fill Material - Ceramic

Temperature Rating - 500°F / 260°C

Pressure Rating - 1500 PSI / 102 Bar

Mounting - 3/4" NPT Pipe Plug

Std. Length	IL (max)
6"	8.58"
8"	10.58"
12"	14.58"
18"	20.58"



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ER3100 Ordering Information

Model							
ER3	Electrical Resistance Adjustable Length Pipe Plug Probe						
	Pipe Plug Size						
	2	3/4" NPT Pipe Plug					
	3	1" NPT Pipe Plug					
	Probe Body Material						
	22	316					
	44	C276					
	ER Element Options						
	500	CT10 Cylindrical - 10 mil thickness (5 mil useful probe life)					
	600	CT20 Cylindrical - 20 mil thickness (10 mil useful probe life)					
	700	CT50 Cylindrical - 50 mil thickness (25 mil useful probe life)					
	Length						
	06	8.58 inches max. insertion length					
	08	10.58 inches max. insertion length					
	12	14.58 inches max. insertion length					
	18	20.58 inches max. insertion length					
	Element Alloy						
XXX	Use Code in Alloy Chart						
ER Probe Options							
00	No shield						
03	Shield						
ER3	2	22	500	08	375	03	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.