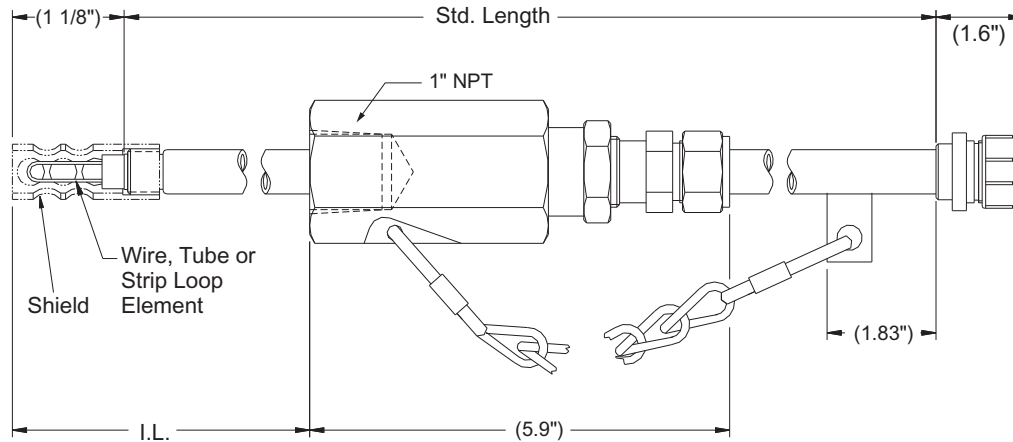


Model ER4000

Electrical Resistance Probe Retractable with Packing Gland and Loop Element



Model ER4000 is a retractable, electrical resistance probe commonly used in field and plant applications. A specially designed packing gland is used with the probe for insertion into or retraction from a pressurized system without a process shutdown. Standard packing material in the packing gland is Teflon[®]. Grafoil packing can be provided if requested. When the probe element requires replacement, the packing gland assembly may be reused. (Probe packing should also be replaced at this time.) The probe is designed to mount onto a 1" piping system, but can easily be adapted to fit your specific requirements. The probe assembly consists of a replaceable insertion rod with an element, a hermetically sealed connector welded in place, and a packing gland. A safety chain and safety nut are also provided to prevent blowout. 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 - Glass or Teflon[®]

Fill Material - Ceramic

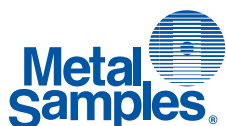
Temperature Rating - 500° F / 260° C

Pressure Rating - 2000 PSI / 138 Bar

Mounting - 1" Full Port Valve (Min.)

Std. Length	IL (max)
24"	17.60"
30"	23.60"
36"	29.60"
42"	35.60"

The Easy Tool is required for probe insertion or retraction in systems with pressure over 150 pounds.



Metal Samples Company

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ER4000 Ordering Information

Model								
ER45	Electrical Resistance 1" Female NPT Probe, Packing Gland with Teflon®							
ER75	Electrical Resistance 1" Female NPT Probe, Packing Gland with Grafoil							
ER00	Electrical Resistance Replacement Insertion Rod							
Probe Body Material								
2	316							
4	C276							
Packing Gland Material								
0	N/A (replacement insertion rod)							
2	316							
4	C276							
ER Element Options								
00	WR40 Wire Loop - 40 mil thickness (10 mil useful probe life)							
10	WR80 Wire Loop - 80 mil thickness (20 mil useful probe life)							
20	TU04 Tube Loop - 4 mil thickness (2 mil useful probe life)							
30	TU08 Tube Loop - 8 mil thickness (4 mil useful probe life)							
80	SL05 Strip Loop - 5 mil thickness (1.25 mil useful probe life)							
90	SL10 Strip Loop - 10 mil thickness (2.5 mil useful probe life)							
Seal Type								
1	Glass							
2	Teflon®							
3	Epoxy							
Length								
24	17.60 inches max. insertion length							
30	23.60 inches max. insertion length							
36	29.60 inches max. insertion length							
42	35.60 inches max. insertion length							
Element Alloy								
XXX	Use Code in Alloy Chart							
ER Probe Options								
00	No Shield							
01	Shield, coupon adaptor (118), hardware							
02	Shield, coupon adaptor (220), hardware							
03	Shield							
ER45	2	2	10	1	36	375	02	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.