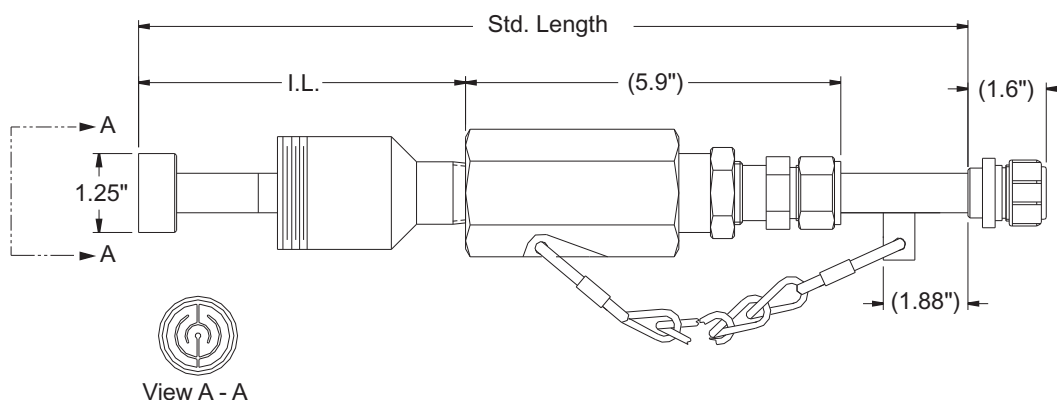


Model ER4210

Electrical Resistance Probe Retractable with Packing Gland and Large Flush Element



Model ER4210 is a retractable, flush-mount, electrical resistance probe ideally suited for applications where the probe element needs to be flush with the wall of the pipe. A specially designed packing gland is used with the probe for insertion to 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. The probe is designed to mount into a 1½" piping system, but can easily be adapted to fit larger requirements. The probe consists of an insertion rod with an element, a hermetically sealed connector welded in place, and a packing gland with a 1" to 1½" swage nipple. The insertion length (I.L.) is calculated to the end of the element. Probe length can be specified by the customer. For standard probes, the maximum 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 - Epoxy

Fill Material - Epoxy

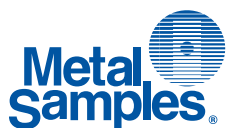
Temperature Rating - 500°F / 260°C

Pressure Rating - 2000 PSI /138 bar

Mounting - 1½" Full Port Valve (Min.)

Std. Length	IL (max)
24"	16.22"
30"	22.22"
36"	28.22"
42"	34.22"

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



Metal Samples Company

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ER4210 Ordering Information

Model							
ERB	Electrical Resistance Pipe Plug Probe with Packing Gland & Swage Nipple						
	Pipe Plug Size						
	6	2" NPT Pipe Plug					
	7	1 1/2" NPT Pipe Plug					
	Probe Body Material						
	22	316					
	44	C276					
	ER Element Options						
	D03	FL10 Flush Mount - 10 mil thickness (5 mil useful probe life)					
	E03	FL20 Flush Mount - 20 mil thickness (10 mil useful probe life)					
	F03	FL40 Flush Mount - 40 mil thickness (20 mil useful probe life)					
	Length						
	24	11.22 inches max. insertion length					
	30	17.22 inches max. insertion length					
	36	23.22 inches max. insertion length					
	42	29.22 inches max. insertion length					
	Element Alloy						
XXX	Use Code in Alloy Chart						
ER Probe Options							
00	N/A						
ERB	6	22	D03	24	375	00	Example of Probe Ordering #

For alloys, sizes, or other special requirements not listed, contact our sales department.
Safety clamp must be ordered separately.

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.