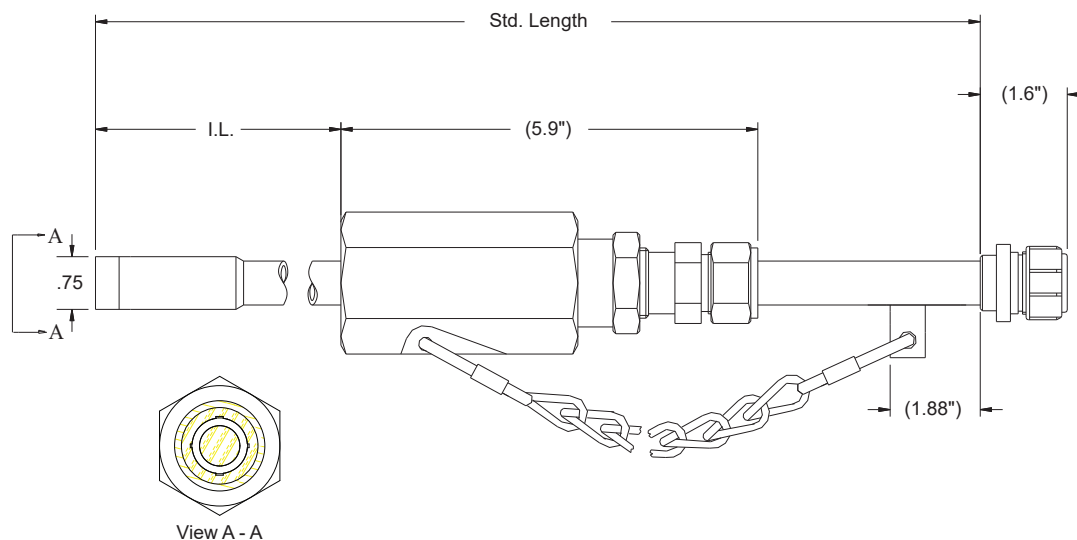


Model ER4200

Electrical Resistance Probe Retractable with Packing Gland and Small Flush Element



Model ER4200 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 1" piping system, but can easily be adapted to fit your specific requirements. The probe consists of an insertion rod with an element, a hermetically sealed connector welded in place, and a packing gland. 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

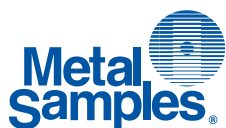
Temperature Rating - 500° F / 260° C

Pressure Rating - 2000 PSI / 138 Bar

Mounting - 1" 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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E-mail: msc@alspi.com Internet: www.metalsamples.com

Houston Office: 6327 Teal Mist Lane, Fulshear, TX 77441 Phone: (832) 451-6825

ER4200 Ordering Information

Model							
ER45 ER75	Electrical Resistance 1" Female NPT Probe, Packing Gland with Teflon®						
	Electrical Resistance 1" Female NPT Probe, Packing Gland with Grafoil®						
	Probe Body Material						
	22	316					
	44	C276					
	ER Element Options						
	A0	FS04 Flush Mount - 4 mil thickness (2 mil useful probe life)					
	B0	FS08 Flush Mount - 8 mil thickness (4 mil useful probe life)					
	H0	FS20 Flush Mount - 20 mil thickness (10 mil useful probe life)					
	Seal Type						
	3	Epoxy					
		Length					
		24	16.22 inches max. insertion length				
		30	22.22 inches max. insertion length				
		36	28.22 inches max. insertion length				
		42	34.22 inches max. insertion length				
Element Alloy							
XXX		Use Code in Alloy Chart					
ER Probe Options							
00		N/A					
ER45	22	A0	3	36	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.