

## GENERAL

Caproco offers a range of high quality, high integrity electrical resistance probes which utilize a flush element configuration to measure the rate of corrosion.

The sensing element is mounted flush in a supporting substrate to overcome any effects associated with edge corrosion. Resistance readings from the sensing element are relative to a non-corroding reference element sealed within the probe body.

## APPLICATION

The flush element is designed to reproduce the precise corrosion behaviour at the wall of the pipe or vessel, as well as allowing pigging operations to be undertaken without the requirement of probe retrieval. Two sizes of elements are available to suit requirements regarding sensitivity and desired probe life.

## SPECIFICATIONS

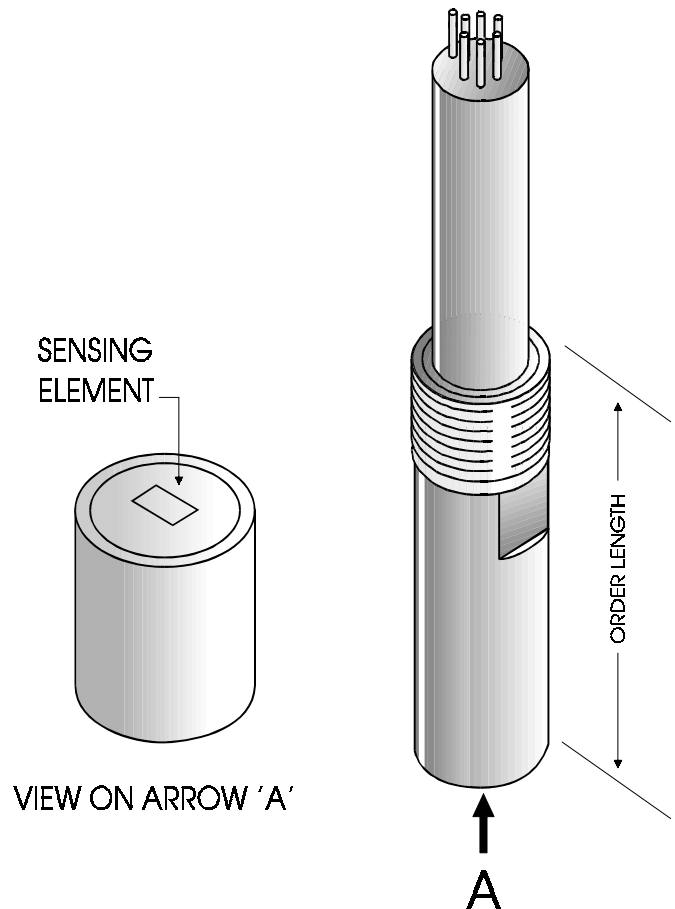
Caproco ER probes are manufactured from 316 stainless steel with an AISI 1018 mild steel element. Probe bodies and elements are available in alternative materials upon request. Standard probes are designed for mounting through a Caproco Hollow Plug assembly.

Element Thickness	S8 0.008" (0.20 mm) S20 0.020" (0.50 mm) S40 0.040" (1.00 mm)
Maximum Operating Pressure	3,600 / 6,000 psi (24.8 / 41.4 Mpa)
Maximum Operating Temperature	500°F (260°C)

**PROBE SEALING** Element and connector pins hermetically sealed using high integrity glass ceramic seals.

**ENCAPSULATION** Two part loaded resin with excellent thermal, electrical and mechanical properties.

**CONNECTION** Interfaces with the Caproco ER Analyzer and most other commercial ER monitoring instrumentation, via a MIL standard 6 pin receptacle.



**PROBE LENGTH IS MEASURED FROM SEALING FACE OF PROBE BODY THREADS TO ELEMENT END**

<b>FLUSH MOUNTING STRIP RETRIEVABLE ER PROBES</b>				
<b>LENGTH</b>		<b>PART NUMBER - S8</b>	<b>PART NUMBER - S20</b>	<b>PART NUMBER - S40</b>
<b>(Inches)</b>	<b>(mm)</b>			
1.125	29	94000	94200	94400
1.250	32	94001	94201	94401
1.375	35	94002	94202	94402
1.500	38	94003	94203	94403
1.625	41	94004	94204	94404
1.750	44	94005	94205	94405
1.875	48	94006	94206	94406
2.000	51	94007	94207	94407
2.125	54	94008	94208	94408
2.250	57	94009	94209	94409
2.375	60	94010	94210	94410
2.500	64	94011	94211	94411
2.625	67	94012	94212	94412
2.750	70	94013	94213	94413
2.875	73	94014	94214	94414
3.000	76	94015	94215	94415
3.125	79	94016	94216	94416
3.250	83	94017	94217	94417
3.375	86	94018	94218	94418
3.500	89	94019	94219	94419
3.625	92	94020	94220	94420
3.750	95	94021	94221	94421
3.875	98	94022	94222	94422
4.000	102	94023	94223	94423
4.125	105	94024	94224	94424
4.250	108	94025	94225	94425
4.375	111	94026	94226	94426
4.500	114	94027	94227	94427
4.625	117	94028	94228	94428
4.750	121	94029	94229	94429
4.875	124	94030	94230	94430
5.000	127	94031	94231	94431
5.125	130	94032	94232	94432
5.250	133	94033	94233	94433
5.375	137	94034	94234	94434
5.500	140	94035	94235	94435
5.625	143	94036	94236	94436
5.750	146	94037	94237	94437
5.875	149	94038	94238	94438
6.000	152	94039	94239	94439
6.125	156	94040	94240	94440
6.250	159	94041	94241	94441
6.375	162	94042	94242	94442
6.500	165	94043	94243	94443