

## 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.

The fixed style probe must be used in systems which can be depressurized for insertion and removal.

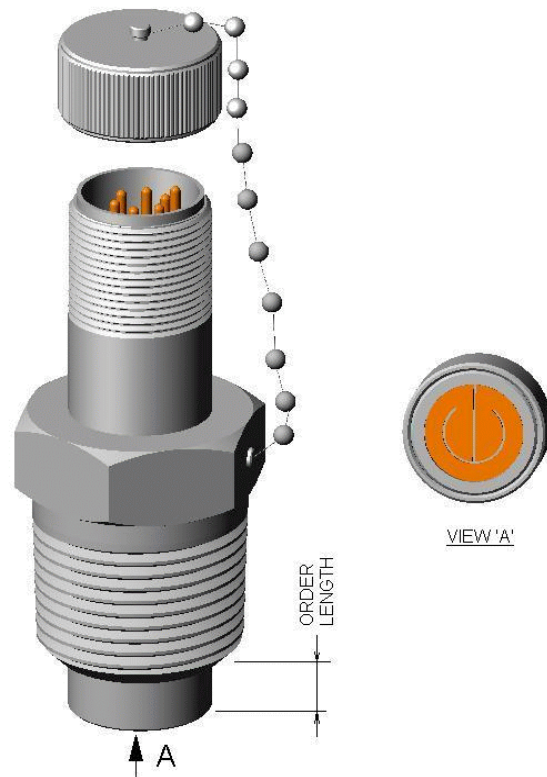
## SPECIFICATIONS

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.

Element Thickness	F10 0.010" (0.25 mm)
	F20 0.020" (0.50 mm)
Maximum Operating Pressure	3,600 / 6,000 psi (24.8 / 41.4 MPa)
Maximum Operating Temperature	500°F (260°C)

Caproco fixed flush probes are designed for mounting through a standard thread-o-let fitting, available in 3/4", 1", 1 1/2" and 2" NPT configurations.

- 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 THE START OF THE NPT THREAD TO THE END OF THE SENSING ELEMENT**

<b>1" NPT FIXED FLUSH ER PROBES</b>			
<b>LENGTH (INCHES)</b>		<b>PART NUMBERS</b>	
		<b>F10</b>	<b>F20</b>
0.375	10	92800	92850
0.500	13	92801	92851
0.625	16	92802	92852
0.750	19	92803	92853
0.875	22	92804	92854
1.000	25	92805	92855
1.125	29	92806	92856
1.250	32	92807	92857
1.375	35	92808	92858
1.500	38	92809	92859
1.625	41	92810	92860
1.750	44	92811	92861
1.875	48	92812	92862
2.000	51	92813	92863
2.125	54	92814	92864
2.250	57	92815	92865
2.375	60	92816	92866
2.500	64	92817	92867
2.625	67	92818	92868
2.750	70	92819	92869
2.875	73	92820	92870
3.000	76	92821	92871
3.125	79	92822	92872
3.250	83	92823	92873
3.375	86	92824	92874
3.500	89	92825	92875
3.625	92	92826	92876
3.750	95	92827	92877
3.875	98	92828	92878
4.000	102	92829	92879
4.125	105	92830	92880
4.250	108	92831	92881

**CONTACT CAPROCO FOR SIZING AND PART NUMBERS FOR ¾", 1 ½" & 2" NPT PROBES**