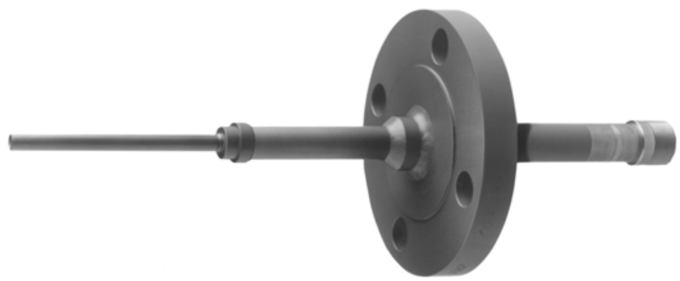
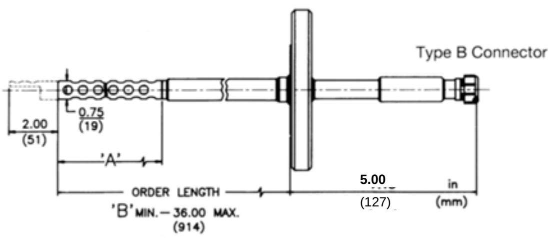
Model 2520/2520HT CORROSOMETER® Probe

CYLINDRICAL ELEMENT





Element Type	"A"	"B"
T-10	2.25 (57 mm)	3.25 (83 mm)
T-20	4.00 (102 mm)	5.00 (127 mm)
T-50	10.00 (254 mm)	11.00 (270 mm)

Specifications:

- ***Mounting — Standard ANSI and API RJ and RF Flanges***
- ***Temp. Rating — +500° F (+260° C) Standard, +1000° F (+520° C) High Temperature, subject to flange rating***
- ***Pressure Rating — 4000 PSI (27.6 MPa) subject to flange rating***
- ***Seal Material — Element seal all welded***
- ***Process Containment Seal — High pressure glass-metal seal connector (Additional/Alternate seals available for special service conditions)***
- ***Fill Material — Ceramic***
- ***Body Material — As element***

Model 2520 fixed process probes are designed for particularly severe or toxic duty service, where retractable or fixed thread probes are not permitted by plant or other regulations. The allwelded construction of the cylindrical probe element provides the highest integrity for a corrosion measurement element. Only the material under evaluation is exposed to the process fluid. Even with any localized attack or physical damage to the element, the back of the probe provides process containment with high pressure glass-to-metal seals. For special service such as hydrofluoric acid (HF), which would attack glass seals, alternate/additional metal/teflon mechanical seals are available to ensure process containment. For other toxic processes, double rear seals are available with capability for monitoring for leakage between seals. Probes are available in a wide range of alloys and are custom made to the flange size and probe length required. Special seals are added if process conditions warrant. High temperature versions of the probes are available. Maximum pressure and temperature conditions are frequently limited by the standard flange rating rather than the CORROSOMETER® probe construction. In the case of the more exotic alloys such as titanium, Hastelloy, Monel, Incalloy or other alloys where materials and flanges are relatively expensive, refurbishing of the process side of the probe may be possible at the end of probe element life, subject to the condition of the other parts of the probes.

Element Availability:

UNS Number	Alloy Code	Alloy	T10	T20	T50	UNS Number	Alloy Code	Alloy	T10	T20	T50
K03005	--------	Pipe Grade Carbon Steel	•	•	•	N08020	8043	CARP 20-Cb3		•	
S30400	8013	304 S.S.	•	•	•	S50400	8046	9% Cr 1% Mo		•	
S30403	8014	304L S.S.	•	•		N02200	8048	Nickel 200	•	•	
S31000	8018	310 S.S.	•			N04400	8054	Monel 400	•	•	
S31600	8020	316 S.S.	•	•		N06600	8057	Inconel 600	•		
S31603	8021	316L S.S.	•	•		N06625	8058	Inconel 625		•	
S31700	8022	317 S.S.		•		C71500	8060	CuNi 70/30 CDA #715		•	
S32100	8024	321 S.S.		•		N10665	8086	Hastelloy115 B2		•	
S50200	8040	502 S.S. (5% Cr 1/2% Mo)	•	•		N10276	8088	Hastelloy C-276		•	
N08904	8041	904L S.S.	•			N06007	8089	Hastelloy-G		•	
						R50400	8093	Titanium Grade 2 & 4		•	
		Inches Useful Range (mm)	.005 .127	.010 .254	.025 .635			**Inches Useful Range (mm)**	.005 .127	.010 .254	.025 .635

Table 1

Other element alloys or styles may be supplied subject to material availability.

Ordering Information:

Model	Fixed Flanged Mounting CORROSOMETER® Probe Assembly
2520	Complete Probe Assembly
2520HT	High Temperature Probe Assembly up to 1000º F (520º C) subject to flange rating

Code	Element Form: See Table 1 for availability
T10	10 mil thickness (5 mil useful probe life)
T20	20 mil thickness (10 mil useful probe life)
T50	50 mil thickness (25 mil useful probe life)

Code	Element Alloy: See Table 1 for availability
YYYYYY	Enter UNS number

Code	Probe Length: Probe tip to flange face (inches)
ZZ.ZZ	From 3.25 inches (T10), 5.00 (T20), 11.00 inches (T50), to 36.00 inches

Code	Flange Size
1.5	Nominal 1.5 inch
2.0	Nominal 2.0 inch
S.S.	Other Size (Specify)

Code	Flange/Rating Type
71	ANSI 150# RF
72	ANSI 300# RF
73	ANSI 4/600# RF
42	ANSI 4/600# RJ
43	ANSI 9/1500# RJ
UU	Other (Specify)

Code	Flange Material
K03504	ASTM A105 Carbon Steel for Carbon Steel Element
K03011	ASTM A350LF2 for Carbon Steel Element in Low Temp. Service
FFFFFF	Other material normally as YYYYYY

Code	Shield Options
0	Not Included*
1	Element Support*
2	High Velocity*
3	Coupon Holding*

2520 — T10 — K03005 — 16.00 — 1.5 — 71 — K03504 — 0 ← **Example**

Unit Weight: 3 lbs/1.36 kg

* 0 — (Max Liquid Velocity 8 ft/sec, Gases 25 ft/sec)
* 1 — (Max Liquid 25 ft/sec, Gases 75 ft/sec)
* 2 — (Max Liquid 50 ft/sec, Gases 150 ft/sec)
* 3 — (Max Liquid 25 ft/sec, Gases, 75 ft/sec)

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