

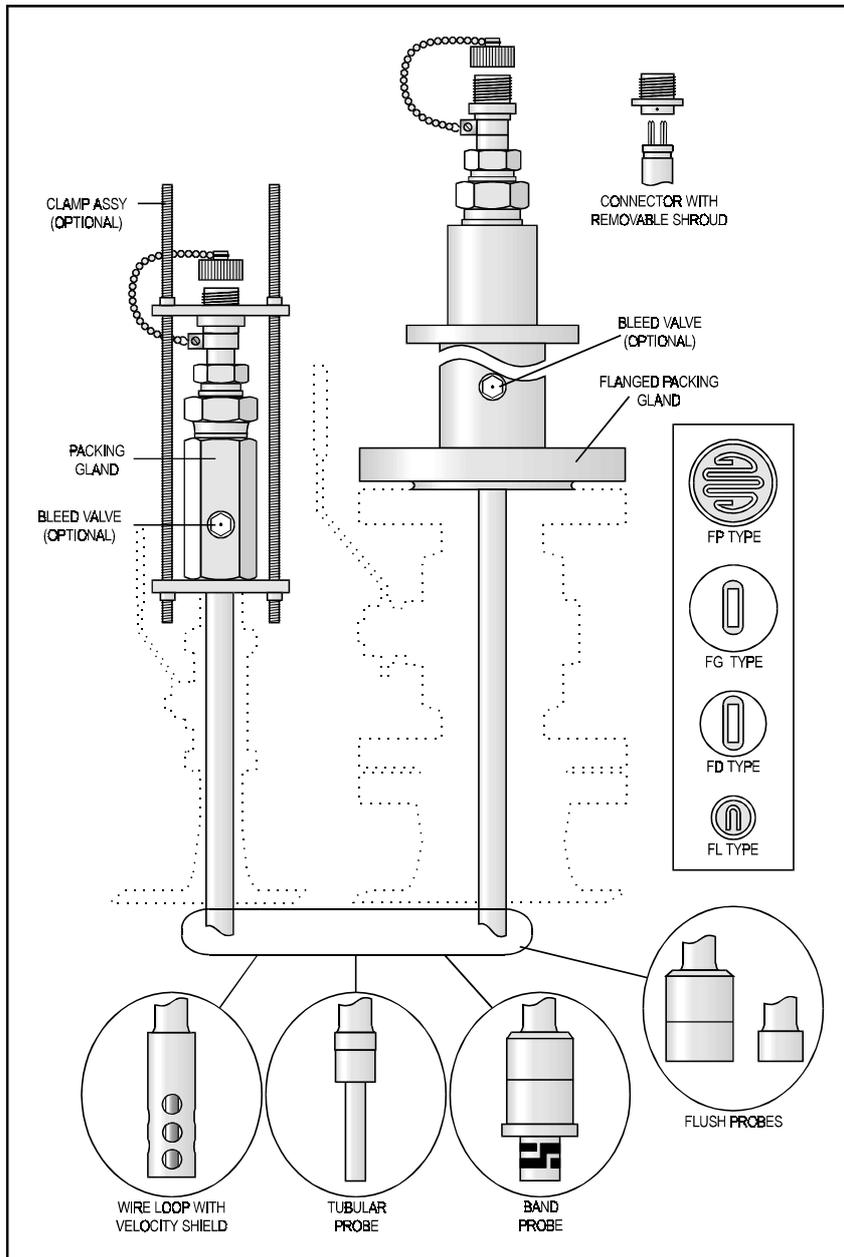
ELECTRICAL RESISTANCE PROBES

RC SERIES RETRACTABLE

FLUSH, TUBULAR, WIRE LOOP, TUBE LOOP, BAND

cormon

CMEP005.1



A comprehensive range of ER probes for making metal loss measurements in processes up to 1000 psi and 260°C with options up to 1500 psi, and 450°C.

Probes have bodies in 316ss (1/8" - 3.2 mm wall) and 6 pin plated connectors. Probes with sensor heads over 16 mm diameter have a removable connector flange. For a full range of packings and accessories see data sheet CMEF.011. Cormon recommends the use of a safety clamp assembly.

Retractable ER probes are typically used for refineries, petrochemical plants and low pressure oil production operations. They are used for continuous on-line monitoring situations, they are well known for reliability and are particularly easy to install and maintain.

Use with Cormon DCU series ER instrumentation for best performance.

CORMON LTD
CORROSION
MONITORING
SYSTEMS

A wide range of materials, packing gland options and accessories is available for this product. Please contact Cormon sales for information, advice and design support.

Product specifications may change without notice

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BS EN ISO 9001 Registered (BSI: Q5877)



PROBE LENGTH DATA

Dimension	Tubular Long				Tubular Short & Band				Wire & Tube Loop				Flush			
Nominal Length (order code)	18	24	30	36	18	24	30	36	18	24	30	36	18	24	30	36
Length overall (mm)	737	887	1037	1187	692	842	992	1142	660	810	960	1110	680	830	980	1130

↑ example

Length calculation method. The minimum length of a probe is the sum of the height of the packing assembly (P) and the travel distance to retract the probe so that the valve may be closed (T). T is equal to the sum of the length of insertion into the pipe (I), the wall thickness of the pipe (W) and the height of the branch assembly (H). The value of P is 170 mm for NPT packing glands and 280 mm for flanged packing glands. When the minimum length in millimeters overall is known, the next highest overall length may be found from the table for the insert type to be used, and its nominal length equivalent entered as the length component of the order code. Values I, W & H are site specific variables. For example: if I = 150, W = 15 and H = 250 then T = 415. For an NPT packing P = 170 therefore P+T= 585. If a Flush probe is in use then the next highest table value is 680, and the nominal length vertically above 680 is **18**. The sum of values H + T + P gives the minimum clearance above the pipe wall to retract the probe fully. In practice an additional clearance of 100 mm provides working space. Retractor tools may require additional clearance.

PRODUCT CODE GUIDE

PER																
ER PROBE	RETRACTABLE PACKING OPTION		LENGTH		ELEMENT TYPE		ELEMENT SIZE		ELEMENT MATERIAL		ACCESSORY					
	RC	Probe insert only	12	12" nom. insertion	FL	Flush epoxy seal 16 mm	10	0.010" (0.25 mm)	A07	Carbon steel	BP	Blow out preventer Standard				
	RA	Probe + standard packing	18	18" nom. insertion	FP	Flush epoxy seal 32 mm	20	0.020" (0.5 mm)		For other materials consult material code data sheet	OO	No device fitted - not applicable				
	RP	Probe + standard packing & clamp	24	24" nom. insertion	FG	Flush glass seal 32 mm										
	RH	Probe + high temp. packing	30	30" nom. insertion	FD	Flush glass seal 24 mm										
	RK	Probe + high temp. packing and clamp	36	36" nom. insertion	WL	Wire loop glass seal	40	0.040" (1 mm)	A06	Carbon steel 070M20	VS	Velocity shield as Standard				
				(see table for dimensions)			80	0.080" (2 mm)			BP	Blow out preventer				
					WT	Tube loop glass seal	04	0.004" (0.1 mm)			OO	No device fitted				
					08	0.008" (0.2 mm)										
For Packing Gland options not shown above, order probe insert only and specify packing from data sheet CMEF.011. Options include Gas Tight, High Pressure, Bleed Valve, Sample Valve and Flanged Glands					TL	Tubular long glass	10	0.010" (0.25 mm)		For other materials consult material code data sheet	BP	Blow out preventer Standard				
					TS	Tubular short glass	20	0.020" (0.5 mm)			VS	Velocity shield option				
Temperature & Pressure Ratings					TW	Tubular long welded	40	0.040" (1 mm)			OO	No device fitted				
FL, FP, BA		150°C 300°F - 1500 psi 103 Bar			TV	Tubular short welded	80	0.080" (2 mm)								
FG,FD,WL,WT, TL,TS,TW,TV		260°C 500°F - 1500 psi 103 Bar			TH	Tubular high temp. long										
TH,TT		450°C 840°F - 1500 psi 103 Bar			TT	Tubular high temp. short										
<i>CMEP005.2</i>					BA	Band epoxy/ glass 32 mm					OO	No device fitted - not applicable				