DE NORA
our research - your future

LIDA® Flex Anodes

The **LIDA® Flex Anode** integrates our existing product line for impressed current cathodic protection of pipelines and tanks. This system is ideal where the space is limited and the anode is to be installed closed to the cathode (close-by cathodic protection).

The anode is available with a mesh sock or sleeve that offers protection against anodes to cathode shorts. The system includes backfill in order to optimize current distribution and low groundbed resistance. The core is a precious metal oxide catalyst on a titanium wire substrate.

Available in two different diameters and a standard length of 50 m, the LIDA® anode wire is connected to the header cable at pre-set intervals around the loop. The spacing of the connections is determined at the design stage.

Tanks Farm

Applications:

- Especially designed for maximum distribution and minimum anode current attenuation in confined spaces.
- Ideal for distribution of small amounts of CP current on a large surface area.
- Above Ground Storage Tank Bottoms with secondary containment liner (new constructions and replacements).
- Parallel Anode Pipeline CP

LIDA® Flex Anode

Pipeline

LIDA® Flex Anode

System strengths and advantages for customers:

- Easy to Install – Cost Effective
- Ready to Lay in Place – Reduced installation time
- Follows Structure Symmetry - maximum CP efficiency achieved by running a continuous anode parallel to the cathode
- 100% Factory Connections – high QC
- Continuous Anode Distribution – Optimized protection current spreading
- Optimized Power Efficiency – Energy saving
- Optimized Low Groundbed Resistance – Suitable to high resistivity environments

Material specifications:

Dimension:

Anode Diameter	3 mm Ø Titanium wire
Lengths	50 m. Longer lengths available on request
Header Cable cross section	10 mm2 or 16 mm2 typically connected every 10 m to the anode*
Header Cable Insulation	XLPE insulated and PVC sheathed unarmoured cable
Cable Tail	From 1 m to 5 m at one end or both ends for connection to T/R

* Customized Anode Specification is possible on request for application in congested plants.

Anode performance:

Maximum Current Density (CD) @ Anode	100 A/m2	
Wire anode diameter mm (ft)	1,5 mm Ø Ti	3 mm Ø
Linear Current Rating @ Max CD, A/m	0.5	1
Expected Life	30 years	
Anode Coating	Iridium Oxide, Mixed Metal Oxide	

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