



Exploration & Production

GENERAL SPECIFICATION

CORROSION

GS EP COR 101

**Design of internal cathodic protection of equipment
and storage tanks**

Rev.	Date	Notes
08	01/2012	Editorial changes
07	01/2011	Stainless Steel additional information, compatibility between magnesium and potable water
06	10/2009	Changes in alloy selection & CBF
05	10/2008	Specification becomes limited to EP
00	02/2001	First issue

Owner: DEV/TEC

Managing entity: DEV/TEC/COR



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1. Scope

This document defines the minimum requirements for the engineering, installation and commissioning of internal cathodic protection for equipment such as vessels, separators, desalters, filters, etc.

This document also deals with crude oil tanks (containing crude oil and a free water phase) and tanks containing seawater, industrial water or potable/fresh water.

Protection against external corrosion is not covered in this document.

2. Reference documents

The reference documents listed below form an integral part of this General Specification. Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published at the EFFECTIVE DATE of the CONTRACT.

Standards

Reference	Title
EN 12499	Internal cathodic protection of metallic structures

Professional Documents

Reference	Title
DNV-RP-B401	Cathodic protection design
NACE RP0196	Galvanic anode cathodic protection of internal submerged surfaces of steel water storage tanks
NACE SP0575	Design, Installation, Operation and Maintenance of Internal Cathodic Protection Systems in Oil Treating Vessels

Regulations

Reference	Title
Not applicable	

Codes

Reference	Title
Not applicable	