



Exploration & Production

GENERAL SPECIFICATION

CORROSION

GS EP COR 210

Monolithic insulating joints

07	01/2012	General review
06	01/2011	Additional info on external paint
05	10/2009	General review
04	10/2008	Specification becomes limited to EP - New calculation for internal coating
00	03/2001	First issue
Rev.	Date	Notes

Owner: DEV/TEC

Managing entity: DEV/TEC/COR



Contents

1. Scope	3
2. Reference documents.....	3
3. General characteristics.....	5
3.1 ANSI Series	5
3.2 Maximum pressures.....	5
3.3 Description.....	5
3.4 Design	5
4. Materials.....	6
4.1 Pipe lengths	6
4.2 Hub	6
4.3 Insulating materials	6
5. Manufacture.....	7
5.1 Welding operations	7
5.2 Electrical connecting plates.....	7
6. Tests and acceptance.....	7
6.1 Acceptance of insulating materials	7
6.2 Acceptance of insulating joints assembled in the factory.....	7
7. Painting.....	8
7.1 External coating	8
7.2 Internal coating	8
8. Final inspection.....	9
8.1 Hydraulic tests	9
8.2 Electrical tests.....	9
8.3 Insulating joint qualification tests.....	10
8.4 Quality control.....	10
9. Protection for shipment.....	10



1. Scope

This specification deals with the supply of monolithic insulating joints to be installed on pipes to establish an electrical break between the pipe and foreign structures (wellhead, platform, terminal, etc.).

Insulation devices may be installed within piping systems where electrical isolation of portions of the system is required to facilitate corrosion control.

Insulating devices shall be installed only when approved by Company and/or when required by General Specifications **GS EP COR 100**, **GS EP COR 102**, **GS EP COR 110** or **GS EP COR 111**.

Generally, insulating devices may be:

- Isolating flanges in which the central gasket is non conductive and the nuts and bolts are electrically isolated from both flanges by means of non conductive sleeves and washers
- Prefabricated monolithic insulating joints
- Others such as yoke-type, unions, couplings and non-metallic spools
- Combination of an isolating kit and an internally coated spool.

The present specification deals only with the supply of prefabricated monolithic insulating joints.

2. Reference documents

The reference documents listed below form an integral part of this General Specification. Unless otherwise stipula

ted, 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
ASTM D 709	Standard Specification for Laminated Thermosetting Materials
ASTM D 5162	Holidays detection
EN 10204	Metallic products - Types of inspection documents

Professional Documents

Reference	Title
API 5L	Specification for line pipe
NACE SP0286	Electrical isolation of cathodically protected pipelines