

## TECHNICAL SPECIFICATION

# **DOWNHOLE EQUIPMENT - LOCK MANDRELS AND LANDING NIPPLES (ENDORSEMENT OF ISO 16070)**

DEP 39.01.30.35-Gen.

August 2005

## DESIGN AND ENGINEERING PRACTICE



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## 1. INTRODUCTION

### 1.1 SCOPE

This new DEP specifies requirements for lock mandrels and landing nipples within the production/injection conduit for the installation of flow control or other. It includes the interface connections to the flow control or other equipment, but does not cover the connections to the well conduit.

This DEP is based on ISO 16070, **which is adopted without amendment.**

### 1.2 DISTRIBUTION, INTENDED USE AND REGULATORY CONSIDERATIONS

Unless otherwise authorized by Shell GSI and SIEP, the distribution of this DEP is confined to companies forming part of the Royal Dutch/Shell Group or managed by a Group company and, where necessary, to Contractors and Manufacturers nominated by them.

This DEP is intended for use in exploration and production facilities.

When DEPs are applied, a Management of Change (MOC) process should be implemented; this is of particular importance when existing facilities are to be modified.

If national and/or local regulations exist in which some of the requirements may be more stringent than in this DEP, the Contractor shall determine by careful scrutiny which of the requirements are more stringent and which combination of requirements will be acceptable as regards safety, environmental, economic, and legal aspects. In all cases, the Contractor shall inform the Principal of any deviation from the requirements of this DEP which is considered to be necessary in order to comply with national and/or local regulations. The Principal may then negotiate with the Authorities concerned with the object of obtaining agreement to follow this DEP as closely as possible.

### 1.3 DEFINITIONS

The **Contractor** is the party that carries out all or part of the design, engineering, procurement, construction, commissioning or management of a project, or operation or maintenance of a facility. The Principal may undertake all or part of the duties of the Contractor.

The **Manufacturer/Supplier** is the party that manufactures or supplies equipment and services to perform the duties specified by the Contractor.

The **Principal** is the party that initiates the project and ultimately pays for its design and construction. The Principal will generally specify the technical requirements. The Principal may also include an agent or consultant authorised to act for, and on behalf of, the Principal.

The word **shall** indicates a requirement.

The word **should** indicates a recommendation.

### 1.4 COMMENTS ON THIS DEP

Comments on this DEP may be sent to the DEP Administrator at [standards@shell.com](mailto:standards@shell.com). Shell staff may also post comments on this DEP on the Surface Global Network (SGN) under the Standards/DEP 39.01.30.35-Gen. folder. The DEP Administrator and DEP Author monitor these folders on a regular basis.

**2. INTERNATIONAL STANDARD APPROVED FOR USE**

The following standard is approved for use without any Group amendments:  
ISO 16070.

### 3. REFERENCES

In this DEP, reference is made to the following publications:

- NOTES:
1. Unless specifically designated by date, the latest edition of each publication shall be used, together with any amendments/supplements/revisions thereto.
  2. The DEPs and most referenced external standards are available for Shell users on the SWW (Shell Wide Web) at address <http://sww05.europe.shell.com/standards/>

#### INTERNATIONAL STANDARDS

Petroleum and natural gas industries — Downhole equipment      ISO 16070  
— Lock mandrels and landing nipples

*Issued by:*  
*International Organization for Standardization*  
*1, Rue de Varembé*  
*CH-1211 Geneva 20*  
*Switzerland*

Copies can also be obtained from national standards organizations