

## Controlled Volume Pump - Data Sheet

### Standardization

This Standard replaces and cancels its previous revision.

The CONTEC - Authoring Subcommittee provides guidance on the interpretation of this Standard when questions arise regarding its contents. The Department of PETROBRAS that uses this Standard is responsible for adopting and applying the sections, subsections and enumerates thereof.

**Technical Requirement:** A provision established as the most adequate and which shall be used strictly in accordance with this Standard. If a decision is taken not to follow the requirement ("non-conformity" to this Standard) it shall be based on well-founded economic and management reasons, and be approved and registered by the Department of PETROBRAS that uses this Standard. It is characterized by imperative nature.

**Recommended Practice:** A provision that may be adopted under the conditions of this Standard, but which admits (and draws attention to) the possibility of there being a more adequate alternative (not written in this Standard) to the particular application. The alternative adopted shall be approved and registered by the Department of PETROBRAS that uses this Standard. It is characterized by verbs of a nonmandatory nature. It is indicated by the expression: **[Recommended Practice]**.

Copies of the registered "non-conformities" to this Standard that may contribute to the improvement thereof shall be submitted to the CONTEC - Authoring Subcommittee.

Proposed revisions to this Standard shall be submitted to the CONTEC - Authoring Subcommittee, indicating the alphanumeric identification and revision of the Standard, the section, subsection and enumerate to be revised, the proposed text, and technical/economic justification for revision. The proposals are evaluated during the work for alteration of this Standard.

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***The use of this Standard by other companies / organizations / government agencies and individuals is the sole responsibility of the users.."***

## CONTEC

Comissão de Normalização  
Técnica

## SC - 11

Machines

### Introduction

*PETROBRAS Technical Standards are prepared by Working Groups - WG (consisting specialized of Technical Collaborators from Company and its Subsidiaries), are commented by Company Units and its Subsidiaries, are approved by the Authoring Subcommittees - SCs (consisting of technicians from the same specialty, representing the various Company Units and its Subsidiaries), and ratified by the Executive Nucleus (consisting of representatives of the Company Units and its Subsidiaries). A PETROBRAS Technical Standard is subject to revision at any time by its Authoring Subcommittee and shall be reviewed every 5 years to be revalidated, revised or cancelled. PETROBRAS Technical Standards are prepared in accordance with PETROBRAS Technical Standard N-1. For complete information about PETROBRAS Technical Standards see PETROBRAS Technical Standards Catalog.*

## Foreword

This Standard is the English version (issued in 10/2013) of PETROBRAS N-1712 REV. C 10/2013. In case of doubt, the Portuguese version, which is the valid document for all intents and purposes, shall be used.

## 1 Scope

1.1 This Standard standardizes the Datasheet for Controlled Volume Pump used in designs for PETROBRAS.

1.2 This Standard applies to design starting from its issue date.

1.3 This Standard is based on API [STD 675](#) (Third Edition).

## 2 Normative References

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document applies.

API [STD 675](#) (Third Edition) - Positive Displacement Pumps - Controlled Volume.

**NOTE** For documents referred in this Standard and for which only the Portuguese version is available, the PETROBRAS department that uses this Standard should be consulted for any information required for the specific application.

## 3 Terms and Definitions

For the purposes of this document, the following terms and definitions apply.

### 3.1

#### **hazardous service**

refers to the following fluids and operational conditions:

- a) H<sub>2</sub>S (Hydrogen Sulphide) concentrations above 500 ppm;
- b) hydrocarbons with hydrogen at a partial pressure above 7 bar (abs);
- c) hydrocarbons at pumping temperatures above their auto-ignition temperatures;
- d) other toxic and lethal substances, which will result in death or permanent personal injury through inhalation, exposition, or contact, to be specified and defined in the inquiry documents.

### 3.2

#### **material requisition (MR)**

document that aims to establish the scope of delivery, technical requirements and additional instructions necessary to purchase materials, systems and equipment

### 3.3

#### **SI**

international system of units

**3.4****ST**

international system of modified units

**4 General Requirements**

4.1 In order to purchase a Controlled Volume Pump, Annex A or Annex B Datasheet, after being completed, shall be attached to a Material Requisition (RM), in order to constitute a purchase document.

4.2 Annex A or Annex B Data sheet, after being completed by the designer and supplemented by manufacturer, if such is the case, shall constitute a permanent document of the equipment.

**5 Annexes**

This Standard contains the following annex:

- a) Annex A - Data Sheet - Controlled Volume Pump (SI Unit);
- b) Annex B - Data Sheet - Controlled Volume Pump (ST Unit).

|                                                                                                                                                                   |                                   |                                                                      |        |        |        |        |        |                |        |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------------|--------|--------|--------|--------|--------|----------------|--------|--|
|                                                                                  | <b>DATA SHEET</b>                 |                                                                      |        |        |        | Nº     |        |                |        |  |
|                                                                                                                                                                   | CLIENT:                           |                                                                      |        |        |        |        |        | SHEET 01 of 04 |        |  |
|                                                                                                                                                                   | JOB:                              |                                                                      |        |        |        |        |        |                |        |  |
|                                                                                                                                                                   | AREA:                             |                                                                      |        |        |        |        |        |                |        |  |
|                                                                                                                                                                   |                                   | TITLE: <b>CONTROLLED VOLUME PUMP<br/>(SI - INTERNATIONAL SYSTEM)</b> |        |        |        |        |        |                |        |  |
|                                                                                                                                                                   |                                   |                                                                      |        |        |        |        |        |                |        |  |
| INDEX OF REVISIONS                                                                                                                                                |                                   |                                                                      |        |        |        |        |        |                |        |  |
| REV.                                                                                                                                                              | DESCRIPTION AND/OR REVISED SHEETS |                                                                      |        |        |        |        |        |                |        |  |
|                                                                                                                                                                   |                                   |                                                                      |        |        |        |        |        |                |        |  |
|                                                                                                                                                                   | REV. 0                            | REV. A                                                               | REV. B | REV. C | REV. D | REV. E | REV. F | REV. G         | REV. H |  |
| DATE                                                                                                                                                              |                                   |                                                                      |        |        |        |        |        |                |        |  |
| DESIGN                                                                                                                                                            |                                   |                                                                      |        |        |        |        |        |                |        |  |
| EXECUTION                                                                                                                                                         |                                   |                                                                      |        |        |        |        |        |                |        |  |
| CHECK                                                                                                                                                             |                                   |                                                                      |        |        |        |        |        |                |        |  |
| APPROVAL                                                                                                                                                          |                                   |                                                                      |        |        |        |        |        |                |        |  |
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