



**NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC  
OF CHINA**

**中华人民共和国国家标准**

GB 50128-2005

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**Code for construction and acceptance of vertical  
cylindrical steel welded storage tank  
立式圆筒形钢制焊接储罐施工及验收规范**

**Compiled by: China National Petroleum Corporation, CNPC**

**Approved by: Ministry of Construction of PRC**

**Implemented from : March 1 2006**

**2006 Beijing**

## **NOTICE**

This code is written in Chinese and English. The Chinese text shall be taken as the ruling one in the event of any inconsistency between the Chinese text and the English text.

**Announcement of Ministry of  
Construction of the People's Republic of China**

No.389

Announcement of Ministry of Construction of the People's Republic of China for issuance of national Standard " Code for construction and acceptance of vertical cylindrical steel welded storage tank " .

This is hereby to certify "Code for construction and acceptance of vertical cylindrical steel welded storage tank " to be the national standard with standard no. GB 50128-2005, and to be executed from March 1 2006. The clauses are compulsory clause that must be executed strictly including clauses 2.0.1, 4.2.1, 5.2.1, 6.2.1, 6.2.3, 6.2.4, 6.2.5, 6.2.6, 6.2.7, 6.2.8, 6.2.9, 6.4.1, 6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.8. The original "Code for construction and acceptance of vertical cylindrical steel welded oil tank". GBL 128-90 was abolished,

This code compilation was completed by Ministry of Construction Standard Ration Research Institute and was published by China Planning Press.

**Ministry of Construction of the People's Republic of China**

**Nov. 30 2005**

## Preface

On base of the requirement in No.244 JIANBIAO [1998] "Notification for issuance of formulation and modification plan (2<sup>nd</sup> batch) for national standard for engineering construction 1998 of Ministry of Construction This code was compiled by China Petroleum No.1 Engineering Company and China National Petroleum Corporation, Construction Technology Research Institute together with units concerned on the ground of the modification for the original national standard "Code for construction and acceptance of vertical cylindrical steel welded oil tank". GBJ 128-90.

During modification, the compilation group had completed investigation in a wide range for meaning definition on base of summing up construction experience in term of storage tank work and consulting some experts in wide scope and units with repeated modification.

This code is divided into 6 chapters including general rules, acceptance of material, prefabrication, assembly, welding, inspection and acceptance as well as three appendices.

Compare with the original code, automatic welding content for storage is added into this code and put forward the requirement for stainless steel storage tank work and acceptance. Also, construction and acceptance requirement is added, single oblique foundation, clarified the detail for Nondestructive Testing.

Some disputable issues for the original code in execution process been solved.

The article with boldface mark in this code is compulsory article.

This code is managed and interpreted for compulsory articles by Ministry of Construction, No.1. China Petroleum and Gas Construction Company are in charge of content explanation. Every user shall sum up work experience according to engineering practice during the code execution process. Any comment and suggestion shall be sent to China National Petroleum Corporation, Construction Technology Research Institute (Address: No.40 Jingtang Road, Tangu District Tianjin, post code 300451) for further modification and supplementary.

The edition and drafter of this code:

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## **1 General**

**1.0.1** This code is made for establishment of the technology requirement for construction and acceptance of vertical cylindrical steel welded storage tank, and for quality of storage tank.

**1.0.2** This code is applicable to the work and acceptance for vertical cylindrical steel welded storage tank with normal pressure (including micro inner pressure) and the attachment welded to storage tank, used for petroleum, petroleum-chemical product and other similar liquid.

The storage tank buried for extreme and high dangerous media, artificial refrigerating liquid is not application to this code.

**1.0.3** A storage tank shall be constructed, as per design document and in case of any design modification, the original designer must approve such modification.

**1.0.4** The prefabrication, installation and testing of a storage tank shall adopt the measurement appliance with identical accuracy degree

**1.0.5** The construction and acceptance of storage tank shall comply with the regulation of existing nation standard except for compliance to this code.

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