

ICS 23.080
CCS J 71



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

GB/T 5656-2008

Replacing GB/T 5656-1994

**Technical specification for centrifugal pumps -- Class ??
(English Translation)**

Issued on: August 25, 2008

Implemented on: March 1, 2009

Issued by: Standardization Administration of China

Table of Contents

Introduction

Introduction

1 Scope

2 Normative references

3 Terms and definitions

4 Design

5 Material

6 Factory inspection and testing

7 Shipping preparation

Appendix A (normative) Centrifugal - Data Table

Annex B (informative) acting on the external short tube 20 and the outer torque

Annex C (normative) RFQ, tender, purchase order

File, Annex D (normative) Order

Annex E (informative) seal configuration examples

Annex F (informative) sealed piping system configuration

Annex G (informative) Examples of identification mentioned in Annex E and Annex F

Appendix H (informative) Checklist

References

Foreword

This standard is identical with ISO 5199:2002 "centrifugal technical conditions -II class" (in English).

This standard is equivalent translation ISO 5199:2002.

For ease of use, this standard has been modified following editorial.

--- "This International Standard" be replaced by "this standard";

"," --- With a decimal point instead of a comma as the decimal point, "";

--- Deleted international standard "foreword";

--- Deleted the international standard "Normative references". "The members of ISO and IEC retain currently valid international standards board Mind ";

--- Added Appendix A, Appendix B B. Tables 4.6c) and Appendix G G. 1 table title.

--- The ISO 1940-1 This standard referenced in 4.3.2.2 Notes Chapter 2, "Normative references" listed, and gives the China's national standard correspondence.

This standard replaces GB/T 5656-1994 "centrifugal technical conditions (II class)." this standard compared with GB/T 5656-1994, the main changes are as follows.

--- Original standard in Chapter 3, "maximum load" new standard "design load", respectively, as "design radial load" and "maximum radial negative Charge ", and an increase in the content;

--- 4.3.2 "Balance and Vibration" increases the maximum allowable vibration intensity provides for vertical pumps;

--- Original Standard Appendix B "peak shift" This standard has been deleted;

--- Original standard Appendix C to "external forces acting on the flange and the outer moment," the new standard in Appendix B as "acting on the spool and the force External force moment "; the original standard will be vertical, horizontal and total moment in the form of coordinates, the new standard is a table showing and and increases "the possibility of increasing the basic values." the Standard Appendix A, Appendix C, Appendix D is a normative appendix, Appendix B, Appendix E, Appendix F, Appendix G, Appendix H is informative appendix.

The standard proposed by China Machinery Industry Federation.

This standard by the National Standardization Technical Committee pump.

This standard was drafted. Shenyang Institute of pumps.

Introduction

One of a series of international standards set forth in this standard centrifugal technical conditions; these standards are class I, II type, III class. Class I Requirements the most serious, III class requirements of the most loose.

In accordance with the technical requirements of the pump applications to select the level to be used. The selected level to reach a consensus between buyers and sellers.

Also, consider the role of the security requirements of the scene.

However, it is impossible to make use of centrifugal technology for a particular site requirements level standardization, since each has a different use of the site Claim. All grades (I type, II and III class) can be based on different requirements for pump applications to use. Therefore, it may occur on the basis of class I, Class II and Class III technical conditions coexist pump manufactured in a factory.

Special applications include industrial or special further technical requirements set forth in a single standard.

Choose a specific application of the pump the desired level, the criteria may include.

- reliability;
- Operational life requirements;
- Operating conditions;
- Environmental conditions;
- Local ambient conditions.

Those who need or may need to decide by the purchaser and manufacturer/supplier mutually agreed by the buyers of content, its context - Checklist Listed in Appendix H.

GB/T 5656-2008/ISO 5199:2002 Centrifugal technical conditions (II type)

1 Scope

1.1

standard specifies a single-stage, multi-stage, horizontal or vertical structure general purpose class II and having any of the drivers installed in the form of isolated form Heart pump technical conditions. Pumps for the chemical process industry (for example, in line with international standards GB/T 5662 requirements of the pump) is set forth in this standard Typical pump.

1.2

This standard includes with base, coupling and auxiliary piping, including the installation, maintenance and safety-related design features, but does not require the addition those conditions associated with its rated output power of something other than the driver.

1.3

In the application of this standard has requested the case and requires a special design feature, you can provide compliance with this standard may be intended for Generation design, as long as it is described in detail.

Available for consideration by the pump does not fully comply with this standard, as long as will be described for all does not meet the Department.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 3216 rotary power pump hydraulic performance acceptance tests - Grades 1 and 2 (GB/T 3216-2005, ISO 9906:1999, MOD) Determination of sound power levels of noise sources reflecting plane free field engineering method GB/T 3767 sound pressure (GB/T 3767-1996, eqv ISO 3744:1994) GB/T 3768 Determination of sound pressure of sound power levels of noise sources using an enveloping surface reflectance measuring surface Simple Method (GB/T 3768-1996, eqv ISO 3746:1995) GB/T 4662 Rolling static load rating (GB/T 4662-2003, ISO 76. 1987, IDT) GB/T 5660 base suction centrifugal pumps and installation dimensions (GB/T 5660-1985, idt ISO 3661:1997) GB/T 5661 suction centrifugal pumps mechanical seals and for soft packing cavity size (GB/T 5661-2004, ISO 3069.

2000, MOD)

GB/T 5662 suction centrifugal pumps (16bar) mark, performance and size (GB/T 5662-1985, idt ISO 2858.

1975)

GB/T 6062 Geometrical product specifications (GPS) Surface texture Profile method of contact (stylus) instruments nominal characteristics (GB/T 6062-2002, eqv ISO 3274:1996) GB/T 6391 Rolling bearings - Dynamic load ratings and rating life (GB/T 6391-2003, ISO 281:1990, IDT) GB/T 9239.1 Mechanical vibration steady state (rigid) rotor balance quality requirements - Part 1. Specification and balance tolerance test (GB/T 9239.1-2006, ISO 1940-1:2003, IDT) Determination of noise sources GB/T 16404 sound intensity of sound power - Part 1. Measurement (GB/T 16404- discrete points 1996, eqv ISO 9614-1:1993) GB/Determination of sound power levels of noise sources - Part 2 T 16404.2 sound intensity. Measurement by scanning (GB/T 16404.2-GB/T 5656-2008/ISO 5199:2002