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

GB/T 13279-2015

Replacing GB/T 13279-2002

Stationary reciprocating air compressors for general use

一般用固定的往复活塞空气压缩机

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Foreword

This standard is drafted in accordance with the rules given in GB/T 1.1-2009. This standard replaces GB/T 13279-2002 "General fixed reciprocating piston air compressor". This standard compared with GB/T 13279-2002, in addition to editorial changes in the main technical changes are as follows:

--- adjust the common models 0.7MPa (0.8MPa) pressure air compressor performance parameters (see Table 1 and Table 4, 2002 version of Table

1 And Table 4); - increased the design life of the machine (see 4.3);

--- Increased machine performance (unit input power) requirements (see 4.5); - Improve and refine the noise figure for 90kW power (see Table 5, Table 5 of 2002); - improved product cleanliness and requirements for replacement parts (see Tables 5 and 7, tables 5 and 7 of 2002);

--- increase the fuselage, crankshaft and other major parts and manufacturing requirements (see 4.14);

--- Test method The new flow measurement is in accordance with GB/T 15487 (see 5.1); The new unit input ratio is measured according to GB 19153 (see 5.2); - delete the "factory test noise measurement allows the use of GB/T 7022 provides simple law" clause (see 2002 version 5.2); - delete the sampling test items and their contents in the inspection rules (see

--- modified the production test of the test time, from the original 2h or more to 1h or more (see 6.3, 2002 version of 6.3). This standard is proposed by the China Machinery Industry Federation. This standard is under the jurisdiction of the National Standardization Technical Committee for Compressors (SAC/TC145). The drafting unit of this standard. Hefei General Machinery Research Institute, Nanjing Compressor Co., Ltd., Zhejiang Mountain Compressor Co., Ltd., Zhejiang Red Central Machinery Co., Ltd., of the (China) Electrical and Mechanical Services Limited, Fusheng Industrial (Shanghai) Co., Ltd.. The main drafters of this standard. Chen Fang, Ren Fang, Jin Hongchun, Yao Chunzan, Zhu Jianguo, Jiang Jianjiang, Huang Zhiqiang, Chen Shengkun. This standard replaced the previous version of the standard release.

--- GB/T 13279-1991, GB/T 13279-2002;

--- GB 7787-1987. Generally with a fixed reciprocating piston air compressor

1 Scope

GB/T 13279-2015 is the Chinese national standard on stationary reciprocating air compressors for general use, in the field of fluid systems and general-purpose components. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 9 October 2015 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 June 2016. Classification: ICS 23.140, CCS J72. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the type of basic reciprocating piston air compressor (hereinafter referred to as "air compressor") with the basic parameters, requirements, test inspection methods, inspection rules and signs, packaging and storage requirements. This standard applies to drive the motor power of 18.5kW ~ 560kW, rated discharge pressure of 0.7MPa ~ 1.25MPa of the air press. Rated air pressure less than 0.7MPa air compressor can refer to the implementation of this standard.

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article Pieces. For undated references, the latest edition (including all modifications) applies to this document.

GB 150 (all parts) pressure vessel Acceptance test of

GB/T 3853 volumetric compressor

GB/T 4980 Volumetric compressor noise determination Industrial wire - braided square hole for industrial use

GB/T 5330-2003 Measurement and Evaluation of Mechanical Vibration of

GB/T 7777 Volumetric Compressor Safety rules and operating procedures for fixed air compressors GB/T 13306 signs

GB/T 15487 volumetric compressor flow measurement method Energy efficiency limit and energy efficiency rating of volumetric air compressors GB 19153-2009

GB 22207 Volumetric air compressor safety requirements

JB/T 2589 Volumetric Compressor Model Compilation Method

JB/T 6441 Safety valve for compressors

JB/T 7240 general reciprocating piston compressor main parts technical conditions

JB/T 7663.1 Volumetric Compressor Packaging Technical

JB/T 8867 fixed reciprocating piston air compressor gas tank TSGR0004 fixed pressure vessel safety technical supervision procedures

3 Models and basic parameters

3.1 air compressor model should be prepared according to JB/T 2589 requirements.

3.2 The rated exhaust pressure, the nominal volume flow and the supplied drive motor power of the air compressor shall be in accordance with Table 1.

3.3 When the air compressor in the specified operating conditions of the volumetric flow rate is greater than the specified value in Table 1, allowing the selection of the values in Table 2, as the nominal volume flow.