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NATIONAL STANDARD OF
THE PEOPLE'S REPUBLIC OF CHINA

中华人民共和国国家标准 **GB**

Code for construction
and acceptance of compressor, fan and
pump installation

压缩机、风机、泵安装工程
施工及验收规范

GB 50275—98

Contents

| | |
|--------------------------------------------------------------------------------------|-----------|
| 1 General..... | 1 |
| 2 Compressors | 1 |
| 2.1 Integral compressors | 1 |
| 2.2 Non-integral reciprocating compressors | 1 |
| 2.3 Accessory equipments | 6 |
| 2.4 Test run | 6 |
| 2.5 Non-lubricated compressors..... | 8 |
| 2.6 Screw compressors..... | 9 |
| 3 Fan | 11 |
| 3.1 General specification..... | 11 |
| 3.2 The centrifugal ventilating fan | 12 |
| 3.3 The propeller fan | 14 |
| 3.4 Roots blast blower and Jaeger blast blower | 16 |
| 3.5 Centrifugal blast blower and centrifugal compressor..... | 17 |
| 3.6 The propeller blast blower and the propeller compressor | 24 |
| 4 Pump | 27 |
| 4.1 General provisions | 27 |
| 4.2 Centrifugal pump | 28 |
| 4.3 Well pump | 33 |
| 4.4 Vertical axial-flow pump and diffuser mixed-flow pump | 35 |
| 4.5 Motor-driven reciprocating pump | 38 |
| 4.6 Steam-driven reciprocating pump | 41 |
| 4.7 Metering pump | 41 |
| 4.8 Screw pump..... | 43 |
| 4.9 Water-ring vacuum pump..... | 43 |
| 5 Engineering acceptance..... | 44 |
| Appendix A Measuring methods of fan and pump vibration speed..... | 45 |
| Appendix B Configuration requirements of suction and discharge pipelines..... | 47 |
| Appendix C Wording explanations for this code | 50 |
| Additional explanations..... | 51 |

1 General

1.0.1 This code is hereby formulated to ensure the installation quality and secure operation of compressors, fans and pumps and accelerate the advancement of installation technique.

1.0.2 This code is applicable to the installation and acceptance of compressors, fans and pumps.

1.0.3 The installation of compressors, fans and pumps shall be carried out according to the design.

1.0.4 For the compressors, fans and pumps not included in this code or with special requirements, the installation shall be executed according to the design and the regulations of the technical documentations of the equipment.

1.0.5 The construction and acceptance of compressor, fan and pump installation engineering shall be executed in accordance with the regulations of current relevant national standards and codes in addition to this code.

2 Compressors

2.0.1 This chapter is applicable to the installation of volumetric reciprocating, screw, slide vane and membrane compressors.

2.1 Integral compressors

2.1.1 During the installation of the compressors, the cleaning and inspection of the equipment shall meet the following requirements:

1 For reciprocating compressors, the piston, connecting rod, gas valve and filling shall be cleaned and inspected. The gas valve and the filling shall not be cleaned with steam.

2 For membrane compressors, the cylinder cover, membrane, suction valve and exhaust valve shall be removed before cleaning and without any damages and corrosion.

2.1.2 The horizontal installation deviation of the compressor shall not be greater than 0.20/1000 and shall be measured in the following positions:

1 For horizontal and symmetrical balancing compressors, the measurement shall be made on the chute surface of the machine body or other reference surfaces;

2 For vertical compressors, the cylinder cover shall be removed and the measurement shall be made on the top surface of the cylinder;

3 For other types of compressors, the measurement shall be made on the exposed part of the main shaft or other reference surfaces.

2.2 Non-integral reciprocating compressors

2.2.1 Before assembling the compressor, the cleaning and inspection of the equipment shall meet the following requirements:

1 The parts, components and accessory equipments shall be without any damages and defects such as corrosion.

2 The parts, components and accessory equipments shall be cleaned thoroughly. After cleaning, the detergent and water shall be removed completely and machined surfaces shall be coated with lubricating oil. Non-lubricated compressors and the parts and components in contact with the medium shall not be coated with oil. Gas valves, fillings and other sealing parts shall not be cleaned with steam.

2.2.2 The parts, components and original assembly marks shall be checked before assembling the compressor. The following parts and components shall be assembled according to the marks:

1 The bearing blocks, bearing caps and bearing bushes of the machine body;

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