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GB/T 6556-2016

Replacing GB/T 6556-1994

Type, Main Dimension, Material and Marking of Mechanical Seals

机械密封的型式、主要尺寸、材料和识别标志

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Foreword

This Standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This Standard replaces GB/T 6556-1994, *Type, Main Dimension, Material and Marking of Mechanical Seals*. Compared with GB/T 6556-1994, the major changes are as follows, in addition to editorial changes:

-- it adds BU double mechanical seal type;

-- it adjusts the marking of mechanical seal.

This Standard was proposed by China Iron and Steel Association.

This Standard shall be under the jurisdiction of the National Standardization Technical Committee on Mechanical Seals (SAC/TC 183).

The main drafting organizations of this Standard: Hefei General Machinery Research Institute, Hefei General Environment Control Technology Co., Ltd., Sichuan University, Beijing University of Chemical Technology, Jiangsu Huaqing Fluid Technology Co., Ltd.

The main drafters of this Standard: Wu Zhaoshan, Li Xiang, Chen Zhi, Shen Zongzhao, Ding Siyun, Li Fengcheng, Wen Lan, Li Jihe, Li Kun.

The previous edition of the standard replaced by this Standard is as follows:

-- GB/T 6556-1994.

Type, Main Dimension, Material and Marking of Mechanical Seals

1 Application Scope

This Standard specifies the type, main dimension, marking and material code of mechanical seals for centrifugal pumps and similar rotary machines.

This Standard applies to single and double mechanical seals.

2 Normative References

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

GB/T 1804-2000, *General Tolerances – Tolerances for Linear and Angular Dimensions Without Individual Tolerance Indications*

GB/T 10444, *Method of Type Establishment for Mechanical Seals*

3 Type and Main Dimension

3.1 General requirements

All types of mechanical seals may be of the structures shown in Figure 1 ~ Figure 6, but the dimensions given shall be followed. The figures give the examples in which O ring is used as stationary auxiliary seal ring; the seal rings of other sectional types may also work as stationary auxiliary seal ring. The dimensional tolerances not specified shall be as specified in GB/T 1804-2000, grade f.

3.2 Single mechanical seal type

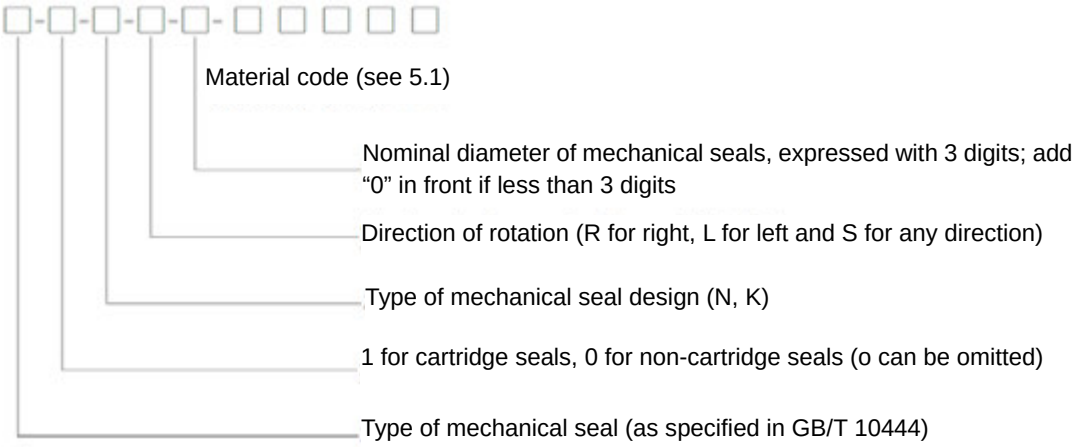
U type: unbalanced single mechanical seal. See Figure 1.

B type: balanced single mechanical seal. See Figure 2.

4 Marking

4.1 Marking of single mechanical seals

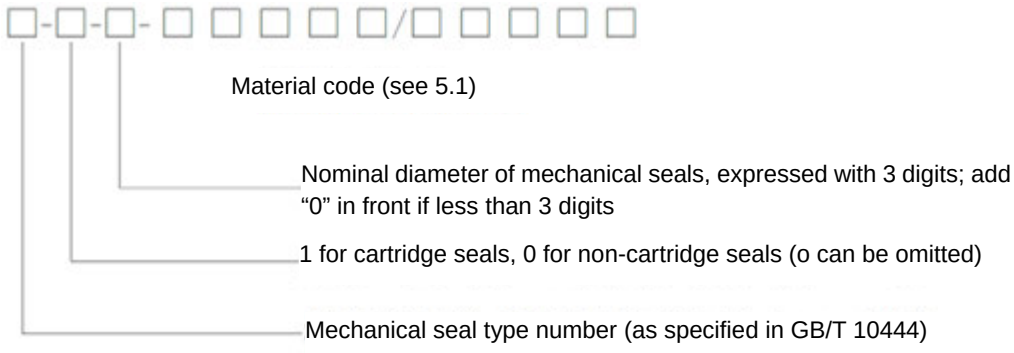
The marking of single mechanical seals is as follows:



EXAMPLE: 108-0-N-R-055-QBPFF indicates type 108 single mechanical seals of: non-cartridge type seal (0), design type N, right rotation (R), nominal diameter d_1 55 mm (055), rotary ring material silicon nitride (Q), stationary ring material graphite impregnating resin (B), auxiliary seal ring material nitrile rubber buna (P), spring material chrome-nickel steel (F) and other structural members' material chrome-nickel steel (F).

4.2 Marking of double mechanical seals

The marking of double mechanical seals is as follows:



EXAMPLE: UB191-0-080-UAVFF/UBPFF indicates UB191 double mechanical seals of: unbalanced medium side (U), balanced atmospheric side (B), non-cartridge seal (O), nominal diameter 80 mm (080), medium side materials including rotary ring material Co base tungsten carbide (U), stationary ring material graphite impregnating metal (A) and auxiliary seal ring material fluororubber (V), spring material chrome-nickel steel (F) and other structural members' material chrome-nickel steel (F), atmospheric side materials including rotary ring material Co base tungsten carbide (U), stationary ring material graphite impregnating resin (B), auxiliary seal ring material

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