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# PROFESSIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA 中华人民共和国机械行业标准

JB/T 4119-2013

Replaces JB/T 4119-1991

# Solenoid valve for refrigerantion equipment 制冷用电磁阀

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#### **Foreword**

This standard is drafted according to the rules specified in GB/T 1.1-2009 This standard replaces GB/T 4119-1991 "Solenoid Valve For Refrigeration Equipment". Compared with GB/T 4119-1991, main technical changes are as follows —— Revising the rang of application (see chapter 1, chapter 1 in edition 1991); —— Revising terms and definitions (see chapter 3, chapter 3 in edition 1991); —— Revising basic parameters of solenoid valve; —— Increasing requirements on dimension, material, appearance, level of protection, high temperature resistance, low temperature resistance, corrosion resistance, cleanliness, noise, breaking strength; —— Revising requirements on tightness, maximum opening pressure differential, internal leakage rate, insulation resistance, electrical strength, heat and humidity resistance, vibration resistance, durability and flow rate; —— Revising tightness, maximum opening pressure differential, internal leakage rate, insulation resistance, insulation resistance, electrical strength, heat and humidity resistance, durability and flow rate test method. This standard is proposed by China Machinery Industry Federation. This standard is under the jurisdiction of National Technical Committee on Refrigeration & Air-Conditioning Equipment of Standardization (SAC/TC238) . Drafting units of this standard: Zhejiang DunAn Artificial Environment Co., Ltd., Hefei General Machinery Research Institute. Drafting units of this standard: Zhejiang Hongsen Machinery Co., Ltd., Zhejiang Hengsen Industry Group Co., Ltd. Main drafters of this standard: Li Weicao, Chen Huafeng, Zhang Mingsheng, Zhou Shuigen, He Yongshui.

Previous versions that this standard replaces are issued as follows:

—— JB/T 4119-1991.

#### **Solenoid Valve for Refrigeration Equipment**

#### 1 Scope

This standard specifies terms and definitions, types, models and basic parameters, requirements, test methods, inspection rules, marking, packaging, transportation and storage of solenoid valve for refrigeration equipment (hereinafter referred to as "solenoid valve").

This standard applies to solenoid valve for pipe and high and low-pressure steam pipes of using R22, R134a, R404A, R407C and R410A as refrigerants that nominal diameter is no greater than 40 mm. Solenoid valves of using other refrigerants may refer to use.

#### 2 Normative references

The articles contained in the following documents have become this document when they are quoted herein. For the dated documents so quoted, all the modifications (Including all corrections) or revisions made thereafter shall be applicable to this document.

GB/T 191 Packaging - Pictorial marking for handling of goods

GB/T 2423.1 Environmental testing - Part 2: Test methods - Tests A: Cold

GB/T 2423.2 Environmental testing - Part 2: Test methods - Tests B: Dry heat

GB/T 2423.3 Environmental testing for electric and electronic products - Part 2: Testing method test Cab: Damp heat Steady state

GB/T 2423.17 Environmental testing for electric and electronic products - Part 2: Test method - Test Ka: Salt mist

GB/T 2624(All parts) Measurement of fluid flow by means of pressure differential devices inserted in circular cross-section conduits running full

GB/T 10567.2 Wrought copper and copper alloys—Detection of residual stress—Ammonia test

GB/T 13306 Plates

GB 14536.1 Automatic electrical controls for household and similar use - Part 1: General requirements

JB/T 5296 Valves for general purposes Test method of flow coefficient and flow



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