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

GB/T 24923-2010

Technical specification for standard electric valve actuators

普通型阀门电动装置技术条件

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Quarantine;
Standardization Administration of the PRC**

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Foreword

The standard proposed by China Machinery Industry Federation. The standard valve by the National Standardization Technical Committee (SAC/TC188) centralized. This standard is drafted by: Tianjin Baili Machinery Co., Ltd., Hefei General Machinery Research Institute, Yangzhou Electric Power Equipment Factory built, often State Power Station Auxiliary Equipment Factory Co., Ltd., China · Teflon Group Co., Ltd. Tianjin Ai Kete valve control Equipment Co., Ltd., Huangshan Liang industry Valve Co., Ltd. The main drafters of this standard. Wang Lei, Song Zhongrong, Liu Huaifu, Zhule Yao Jiang New Year, Li Jinshuo, Cao record type, item Megan, Chen Huaxiang, ZHAO. Common type valve electric device technology

1 Scope

China's national technical specification for standard electric valve actuators. It specifies the types and basic parameters, the technical requirements, the test methods, the inspection rules and the marking, packaging, transport and storage of electric valve actuators of ordinary, non-explosion-protected construction. This is the companion to GB/T 24922 and covers the actuator as a machine, without the flameproof enclosure requirements - which is the great majority of them, since water treatment, power generation, district heating, HVAC and general industry have no hazardous area. What is left when the explosion protection is removed is the part that determines whether the valve works, and it is more demanding than it looks. An actuator has to develop a torque or thrust large enough to seat a valve and unseat it after it has been closed for months, and it must stop at exactly the right point: too little travel and the valve leaks, too much and the seat or the stem is destroyed. That is done by limit switches - travel switches for position and torque switches for load - and the interaction between them is the heart of the device: a rising-stem valve is normally closed on torque and opened on travel, and getting that logic wrong breaks the valve on the first stroke. The actuator must also fail safely and predictably, be operable by hand when the power is off, indicate its position locally and remotely, and survive being installed outdoors on a pipe and left for twenty years. So the standard specifies the torque and thrust ratings and their classes, the switch arrangement and its adjustment, the manual override and its interlock, the duty rating and the motor thermal protection, the position indication and the

control interface, the ingress protection and the environmental conditions. Issued on 9 August 2010 and in force since 31 December 2010.

This standard specifies the terms and definitions common type valve electric device, technical requirements, test methods, inspection rules, marking, packaging, transportation And storage. This standard applies to switching valve with an ordinary electric valve actuators (hereinafter referred to as electric apparatus).

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 3181-2008 standard paint colors

GB/T 3797-2005 Electric Control Equipment

GB 4208 housing protection (IP Code) (GB 4208-2008, IEC 60529.2001, IDT)

GB/T 12222 multi-turn valve actuator connecting means (GB/T 12222-2005, ISO 5210.1991, MOD)

GB/T 12223 part of the rotary valve drive connecting means (GB/T 12223-2005, ISO 5211.2001, MOD) GB/T 21465 valve term

JB/T 2195-1998 YDF2 series of electric valve actuators with three-phase induction motor

JB/T 8862 valve electric device life test procedures

3 Terms and Definitions

GB/T 21465 and established the following terms and definitions apply to this standard.

3.1 Nominal torque nominaltorque Shows the identification electric actuator output torque size, for ease of electric equipment design, manufacture, use, distribution, use, and maintenance and unity Predetermined torque value, which is related to the value of the operating torque.

3.2 Nominal thrust nominalthrust Logo indicates that the output shaft of the electric device to drive the stem nut to produce axial force size, for ease of electric equipment design, manufacture, use, stream Through, use and maintenance of uniform provisions thrust value, which is related to the value of the work force.

3.3 Operating torque workingtorque Valves open and close the required torque, operating torque should not exceed the nominal torque.

3.4 Working thrust workingthrust Valve opening, closing thrust value needed for the work force should not exceed the nominal thrust.

3.5 Stall Torque blockingtorque Electric apparatus load is increasing, the torque value of the motor stall time.

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