

JB

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

JB/T 7248-2008

Replacing JB/T 7248-1994

**Technical requirements for low temperature steel castings for
valves**

阀门用低温钢铸件技术条件

(English Translation)

Issued on: February 1, 2008

Implemented on: July 1, 2008

**Issued by: Ministry of Industry and Information Technology of the
People's Republic of China**

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1 Scope

This standard specifies the technical requirements, test methods, inspection rules and markings of low temperature service steel casting for valves (hereinafter referred to as "castings").

This standard is applicable to valves, flanges and other pressure bearing castings used under low temperature conditions of -254 °C ~ -29 °C.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this national standard. For dated references, subsequent amendments (excluding corrections) to, or revisions, of any of these publications do not apply to this standard. However, parties to agreements based on this standard are encouraged to

investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition applies.

GB/T 222-2006 Method of sampling steel for determination of chemical composition and permissible variations for product analysis

GB/T 223 (all parts) Methods for chemical analysis of iron, steel and alloy

GB/T 228-2002 Metallic materials - Tensile testing at ambient temperature (ISO 6892:1998(E), MOD)

GB/T 229-1994 Metallic materials - Charpy notch impact test (eqv ISO 148:1983)

GB/T 6414-1999 Castings - System of dimensional tolerances and machining allowances (eqv ISO 8062:1994)

GB/T 9452-2003 Testing method for work zone of heat treatment furnace

GB/T 11352-1989 Carbon steel castings for general engineering purposes (neq ISO 3755:1991)

GB/T 12224-2005 General requirements for industrial steel valves

GB/T 12230-2005 General purpose industrial valve - Specification of stainless steel castings

GB/T 12467.1 ~ 12467.4-1998 Quality assurance of welding - General principle (idt ISO 3834-1 ~ 3834-4:1994)

GB/T 13927 Pressure testing for general purpose valves (GB/T 13927-1992, neq ISO 5208:1982)

GB/T 15169-2003 Qualification test of welders - Fusion welding for steels (ISO/DIS 9606-1:2002, IDT)

JB/T 6439 Methods of magnetic examination for valves

JB/T 6440 Methods of radiographic examination for steel castings valves

JB/T 6902 Methods for liquid penetrant examination of valves

JB/T 7927 Valve cast steel visual quality requirements

ASTM A351/A351M Standard specification for castings, austenitic, for pressure-containing parts

ASTM A352/A352M Standard specification for steel castings, ferritic and martensitic, for pressure-containing parts, suitable for low-temperature service

3.1 Material designation and service temperature

See Table 1 for material designation and service temperature of castings.

Table 1 Material designation and service temperature of castings