



National Standard of the People's Republic of China

GB/T 8464—2008

Replace GB/T 8464—1998 and partly replace GB/T 15185—1994

Cast iron and copper valves with
screwed connections

铁制和铜制螺纹连接阀门

(*English Translation*)

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Foreword

SAC/TC 188 is in charge of this English translation. In case of any doubt about the contents of English translation, the Chinese original shall be considered authoritative.

This standard replaces the GB/T 8464—1998 *Valve with female screw ends for water heating system* in whole and partly replaces GB/T 15185—1994 *Cast iron and copper alloy ball valves*.

In addition to a number of editorial changes, the following technical deviation have been with respect to the GB/T 8464—1998 and GB/T 15185—1994 (the previous edition).

- Changed the title of the standard;
- Added typical structure in the structural type such as gate valve, globe valve and ball valve;
- Added pressure-temperature rated value of copper alloy;
- Added dimensions across wrench flats of pipe thread head;
- Changed the requirement of minimum wall thickness of valve body;
- Requirement of minimum diameter of valve stem;
- Added the sanitary requirements of valves on domestic drinking water pipeline;
- Changed the test method and inspection requirements;
- Added installation performance requirements of valves;
- Deleted all the contents of flanged ball valves given in GB/T 15185—1994.

This standard was proposed by China Machinery Industry Federation.

This standard was prepared by SAC/TC 188 National Technical Committee on valves of Standardization Administration of China.

The previous editions of this standard are as follows:

- GB 8464—1987, GB/T 8464—1998;
- GB/T 15185—1994.

Cast iron and copper valves with screwed connections

1 Scope

This standard specifies the classification, technical requirements, test method, inspection rules, marking, packaging, transportation and storage of cast iron and copper gate, ball and check valves with screwed connections.

This standard applies to:

- Threaded gate, stop, ball and check valves (hereinafter referred to as valves).
- Valves of grey cast iron and malleable cast iron with nominal pressure \leq PN16 and nominal dimension \leq DN100.
- Valves of ductile cast iron with nominal pressure \leq PN25 and nominal dimension \leq DN100.
- Copper alloy valves with nominal pressure \leq PN40 and working temperature \leq 180 °C.
- The working medium is water, non-corrosive liquid, air, saturated vapor, etc.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this standard. For dated reference, subsequent amendments (excluding corrections), 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 of the normative document referred to applies.

GB/T 1047, *Piping components—Definition and selection of DN (nominal size)* (GB/T 1047—2005, ISO 6708:1995, MOD)

GB/T 1048, *Piping components—Definition and selection of PN (nominal pressure)* (GB/T 1048—2005, ISO/CD 7268:1996, MOD)

GB/T 1184—1996, *Geometrical tolerancing—Geometrical tolerances for features without individual*