

# INTERNATIONAL STANDARD

**ISO**  
**6002**

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## **Bolted bonnet steel gate valves**

*Robinets-vannes en acier à chapeau boulonné*



Reference number  
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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 6002 was prepared by Technical Committee ISO/TC 153, Valves, Sub-Committee SC 1, *Design, manufacture, marking and testing*.

## Introduction

The purpose of this International Standard is the establishment of the basic requirements and recommendations for flanged or butt-weld end steel gate valves of bolted bonnet construction.

To maintain compatibility with ISO 7005-1 whereby the American flanges previously designated by a class rating have been converted to nominal pressure (PN) ratings, this International Standard follows the same system. The equivalent ratings are as follows:

Class 150: PN 20

Class 300: PN 50

Class 600: PN 100

## Bolted bonnet steel gate valves

### 1 Scope

This International Standard specifies the requirements for bolted bonnet steel gate valves having the following features:

- bolted bonnet;
- outside screw and yoke;
- inside screw (alternative for PN 10, PN 16, PN 20, PN 25 and PN 40 only);
- single or double obturator;
- wedge or parallel seating;
- with or without non-metallic obturator or seat seals;
- flanged or butt-welding ends.

It covers valves of the nominal sizes DN

10; 15; 20; 25; 32; 40; 50; 65; 80; 100; 125; 150; 200; 250; 300; 350; 400; 450; 500; 600; 700; 800; 900; 1 000,

and applies to valves of the nominal pressures PN

10; 16; 20; 25; 40; 50; 100.

### 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All stan-

dards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 7-1:1982, *Pipe threads where pressure-tight joints are made on the threads — Part 1: Designation, dimensions and tolerances.*

ISO 5208:—<sup>1)</sup>, *Industrial valves — Pressure testing of valves.*

ISO 5210:1991, *Industrial valves — Multi-turn valve actuator attachments.*

ISO 5752:1982, *Metal valves for use in flanged pipe systems — Face-to-face and centre-to-face dimensions.*

ISO 6708:1986, *Pipe components — Definition of nominal size.*

ISO 7005-1:1992, *Metallic flanges — Part 1: Steel flanges.*

ISO 7268:1983, *Pipe components — Definition of nominal pressure.*

ANSI/ASME B1.20.1:1983, *Pipe threads, general purpose (inch).*

### 3 Definitions

For the purposes of this International Standard, the definition of nominal size given in ISO 6708 and of nominal pressure given in ISO 7268 apply.

1) To be published. (Revision of ISO 5208:1982)