

Valves — Materials for bodies, bonnets and covers —

Part 3: Cast irons specified in European Standards

The European Standard EN 1503-3:2000 has the status of a
British Standard

ICS 23.060.01; 77.080.10

National foreword

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The UK participation in its preparation was entrusted by Technical Committee PSE/7, Valves, to Subcommittee PSE/7/1, Valves — Basic standards, which has the responsibility to:

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Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 4, an inside back cover and a back cover.

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Amendments issued since publication

Amd. No.	Date	Comments
14645 Corrigendum No. 1	12 August 2003	Changes to Table 1

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English version

Valves - Materials for bodies, bonnets and covers - Part 3: Cast irons specified in European Standards

Appareils de robinetterie - Matériaux pour les corps, chapeaux et couvercles - Partie 3: Fontes spécifiées dans les normes européennes

Armaturen - Werkstoffe für Gehäuse, Oberteile und Deckel - Teil 3: Gußeisen, das in Europäischen Normen festgelegt ist

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 69 "Industrial valves", the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2001, and conflicting national standards shall be withdrawn at the latest by April 2001.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association. This European Standard is considered to be a supporting standard to those application and product standards which in themselves support an essential safety requirement of a New Approach Directive and which make reference to this European Standard.

EN 1503 comprises four parts :

- Part 1 : Steels specified in European Standards ;
- Part 2 : Steels other than those specified in European Standards ;
- Part 3 : Cast irons specified in European Standards ;
- Part 4 : Copper alloys specified in European Standards.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Standard lists cast irons for pressure containing valve bodies, bonnets and covers which are given in European Standards.

2 Normative references

This European standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European standard only when incorporate in it by amendments or revision. For undated references, the latest edition of the publication referred to applies (including amendments).

EN 545, *Ductile iron pipes, fittings, accessories and their joints for water pipelines - Requirements and test methods.*

EN 1560, *Founding - Designation system for cast iron - Material symbols and material numbers.*

EN 1561, *Founding - Grey cast irons.*

EN 1562, *Founding - Malleable cast irons.*

EN 1563, *Founding - Spheroidal graphite cast irons.*

3 Materials

The materials shall be as given in Table 1. The material designation is in accordance with EN 1560.

When selecting materials according to this standard, the limits of use given in the material standards are to be taken into account.

Table 1 - Cast irons

Graphite structure	EN	R_m N/mm ²	Material designation	
			Short name	Number
Grey cast iron	1561	200	EN-GJL-200	EN-JL1030
		250	EN-GJL-250	EN-JL1040
		300	EN-GJL-300	EN-JL1050
		350	EN-GJL-350	EN-JL1060
Spheroidal graphite cast iron	1563	350	EN-GJS-350-22-LT	EN-JS1015
		350	EN-GJS-350-22-RT	EN-JS1014
		400	EN-GJS-400-18-LT	EN-JS1025
		400	EN-GJS-400-18-RT	EN-JS1024
		400	EN-GJS-400-15	EN-JS1030
		450	EN-GJS-450-10	EN-JS1040
		500	EN-GJS-500-7	EN-JS1050
	600	EN-GJS-600-3	EN-JS1060	
	545	400	-	-
Malleable cast iron	1562	350	EN-GJMW-350-4	EN-JM1010
		400	EN-GJMW-400-5	EN-JM1030
		300	EN-GJMB-300-6	EN-JM1110
		350	EN-GJMB-350-10	EN-JM1130

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