



National Standards Authority of Ireland

IRISH STANDARD

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**VALVES - MATERIALS FOR BODIES,
BONNETS AND COVERS -
PART 3: CAST IRONS SPECIFIED IN
EUROPEAN STANDARDS**

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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

This European Standard was approved by CEN on 6 October 2000.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPAISCHES KOMITEE FÜR NORMUNG

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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of an identical text or by endorsement, at the latest by April 2001, and conflicting national standards shall be withdrawn at the latest by April 2001.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	420	-	-
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
		320	EN-GJMB-320-12	EN-JM1120
		350	EN-GJMB-350-10	EN-JM1130

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