
Restrained joint systems for ductile iron pipelines — Design rules and type testing

*Assemblages verrouillés pour canalisations en fonte ductile — Règles
de conception et essais de type*



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Foreword

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The main task of technical committees is to prepare International Standards. 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.

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ISO 10804 was prepared by Technical Committee ISO/TC 5, *Ferrous metal pipes and metallic fittings*, Subcommittee SC 2, *Cast iron pipes, fittings and their joints*.

This first edition of ISO 10804 cancels and replaces ISO 10804-1:1996, of which it constitutes a technical revision.

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1 Scope

This International Standard specifies the design rules and type testing for restrained joint systems to be used on ductile iron pipelines complying with ISO 2531 and ISO 7186, in order to determine their mechanical properties and leaktightness.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 2531, *Ductile iron pipes, fittings, accessories and their joints for water applications*

ISO 6708, *Pipework components — Definition and selection of DN (nominal size)*

ISO 7186, *Ductile iron products for sewage applications*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 6708 and the following apply.

3.1

restrained joint

joint in which a means is provided to prevent separation of the assembled joint

3.2

allowable operating pressure

PFA

maximum internal pressure, excluding surge, which a component can safely withstand in permanent service

3.3

allowable maximum operating pressure

PMA

maximum internal pressure, including surge, which a component can safely withstand in service

3.4

allowable site test pressure

PEA

maximum hydrostatic pressure that a newly installed component can withstand for a relatively short duration, when either fixed above ground level or laid and backfilled underground, in order to measure the integrity and tightness of the pipeline

NOTE This test pressure is different from the system test pressure, which is related to the design pressure of the pipeline.