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**Round steel short link chains for general  
lifting purposes — Medium tolerance  
sling chains for chain slings — Grade 8**

*Chaînes de levage général en acier, de section ronde, à maillons  
courts — Chaînes de tolérance moyenne pour élingues — Classe 8*



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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 3076 was prepared by Technical Committee ISO/TC 111, *Round steel link chains, chain slings, components and accessories*, Subcommittee SC 1, *Chains and chain slings*.

This third edition cancels and replaces the second edition (ISO 3076:1984), which has been technically revised.

# Round steel short link chains for general lifting purposes — Medium tolerance sling chains for chain slings — Grade 8

## 1 Scope

This International Standard specifies the requirements for medium tolerance sling chains of grade 8 for use in chain slings and for general lifting purposes.

They are round steel short link chains ( $3 d_n$ ), electrically welded, heat treated and tested; they comply with the general conditions of acceptance of ISO 1834.

NOTE 1 Butt welding and flash butt welding are listed in ISO 4063.

The range of nominal sizes covered by this International Standard is from 4 mm to 45 mm. They are for use in the temperature range  $-40\text{ °C}$  to  $+400\text{ °C}$ .

NOTE 2 Concerning the use and maintenance of chain slings of grade 8, see ISO 3056.

## 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 148-1, *Metallic materials — Charpy pendulum impact test — Part 1: Test method*

ISO 643, *Steels — Micrographic determination of the apparent grain size*

ISO 1035-1, *Hot-rolled steel bars — Part 1: Dimensions of round bars*

ISO 1834, *Short link chain for lifting purposes — General conditions of acceptance*

ISO 7500-1, *Metallic materials — Verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Verification and calibration of the force-measuring system*

ISO 14556, *Steel — Charpy V-notch pendulum impact test — Instrumented test method*

ISO 16124, *Steel wire rod — Dimensions and tolerances*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 1834 apply.

## 4 General conditions of acceptance

The sling chains shall comply with the requirements of ISO 1834 as well as those of this International Standard.

## 5 Dimensions

### 5.1 Nominal size, $d_n$

The nominal size,  $d_n$ , of the sling chain shall be one of the nominal sizes listed in Table 1, column 1, corresponding to the nominal diameter of the steel wire in accordance with ISO 16124 or bar in accordance with ISO 1035-1 from which the sling chain is made.