

# International Standard



# 3076

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

## Short link chain for lifting purposes — Grade T (8), non-calibrated, for chain slings etc.

*Chaînes de levage à maillons courts, classe T (8), non calibrées, pour élingues à chaînes, etc.*

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Price based on 9 pages

# Short link chain for lifting purposes — Grade T (8), non-calibrated, for chain slings, etc.

## 1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the requirements for lifting chains, grade T (8), non-calibrated, for use on cranes, in chain slings and for general lifting purposes. These are electrically welded round steel short link chains, fully heat treated and tested and comply with the general conditions of acceptance of ISO 1834.

The range of sizes covered by this International Standard is from 5 mm to 45 mm. The annex gives a range of temporary additional sizes 6 mm to 35 mm.

## 2 REFERENCES

ISO/R 388, *ISO metric series for basic thicknesses of sheet and diameters of wire.*

ISO/R 643, *Micrographic determination of the austenitic grain size of steels.*

ISO 1035/1, *Dimensions of hot rolled steel bars — Part 1 : Round bars — Metric series.*<sup>1)</sup>

ISO 1834, *Short link chain for lifting purposes — General conditions of acceptance.*<sup>2)</sup>

## 3 DEFINITIONS

For the purpose of this International Standard the definitions given in ISO 1834 apply.

## 4 GENERAL CONDITIONS OF ACCEPTANCE

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

## 5 DIMENSIONS

### 5.1 Size (see ISO 1834, clause 4, Definitions)

The size of chain shall be one of the sizes listed in table 1, column 1 corresponding to the nominal diameter ( $d_n$ ) of the steel wire (ISO/R 388) or bar (ISO 1035/1) from which the chain is made.

NOTE — Control over the size of the material (bar or wire) from which the chain is made is important but this International Standard concerns finished chain and must assume that the inspector may not have the opportunity of retrospective measurement of the original material. The chain manufacturer will realize the need for the size of this material to be kept within accepted tolerances.

### 5.2 Material diameter (see ISO 1834 for definition of material diameter and method of measurement)

#### 5.2.1 Tolerance on material diameter

For sizes less than 18 mm the diameter  $d$  of the material in the finished link shall nowhere differ from the nominal diameter by more than  $\pm 2\%$ , except at the weld.

For sizes 18 mm and over, the diameter  $d$  of the material in the finished link shall nowhere differ from the nominal diameter by more than  $\pm 5\%$ , except at the weld.

#### 5.2.2 Tolerances at the weld

The dimension of the steel at the weld shall nowhere be less than the diameter  $d$  of the steel adjacent to the weld, or exceed it by more than the following tolerances. (See figure 1 and table 1.)

1) At present at the stage of draft (Revision of ISO/R 1035/1-1969.)

2) At present at the stage of draft.

## **8 INSPECTION**

### **8.1 Provision for inspection**

The provision for inspection shall be as specified in ISO 1834.

### **8.2 Acceptance**

The acceptance procedure shall be as specified in ISO 1834.

## **9 MARKING**

### **9.1 Quality marking**

The quality mark for the chain is T or 8. It shall be applied as specified in ISO 1834.

### **9.2 Identification marking**

The identification marking shall be as specified in ISO 1834.

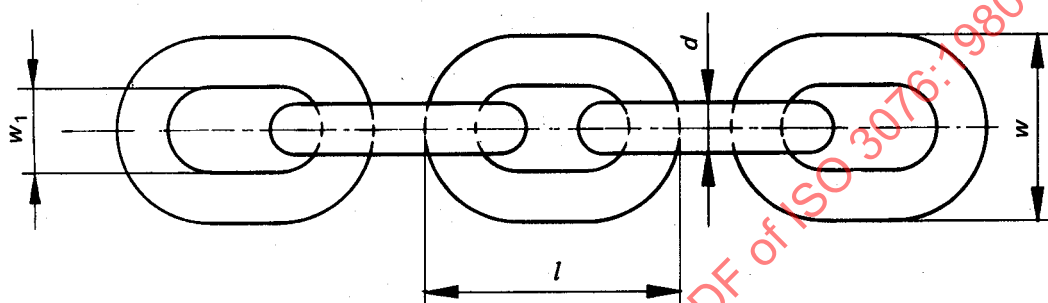
### **9.3 Inspection marking**

The inspection marking shall be as specified in ISO 1834.

## **10 TEST CERTIFICATE**

The manufacturer shall, if required, supply a certificate of test and examination with every supply of chain, containing the information detailed in ISO 1834. A typical form is given in ISO 1834, annex C.

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$l$  = outside link length ( $4,75 d_n$  min.,  $5 d_n$  max.)

$w$  = outside link width ( $3,5 d_n$  max. except at weld)

$w_1$  = inside link width ( $1,25 d_n$  min. except at weld)

FIGURE 2 — Chain and link dimensions