
INTERNATIONAL STANDARD



50

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

Metal pipes — Steel sockets screwed according to ISO 7

Tuyauterie — Manchons en acier, filetés suivant ISO 7

Second edition — 1977-06-15

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Descriptors : piping, pipe fittings, pipe sockets, steel products, specifications, dimensions.

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 50 was drawn up by Technical Committee ISO/TC 5, *Metal pipes and fittings*. The first edition, which replaced ISO/R 50-1957, was circulated to the member bodies in September 1975.

It was approved by the member bodies of the following countries :

Austria	India	Spain
Belgium	Israel	Sweden
Bulgaria	Italy	Switzerland
Canada	Korea, Dem. P. Rep. of	Turkey
Egypt, Arab Rep. of	Mexico	United Kingdom
Finland	Netherlands	U.S.S.R.
France	New Zealand	Yugoslavia
Germany	Romania	
Hungary	South Africa, Rep. of	

The member body of the following country expressed disapproval of the document on technical grounds :

Australia

This second edition, containing a new clause 4, was submitted directly to the ISO Council, in accordance with clause 6.12.1 of the Directives for the technical work of ISO. It cancels and replaces the first edition (ISO 50-1976).

Metal pipes – Steel sockets screwed according to ISO 7

1 SCOPE AND FIELD OF APPLICATION

This International Standard lays down dimensions of steel sockets screwed according to ISO 7.

2 REFERENCES

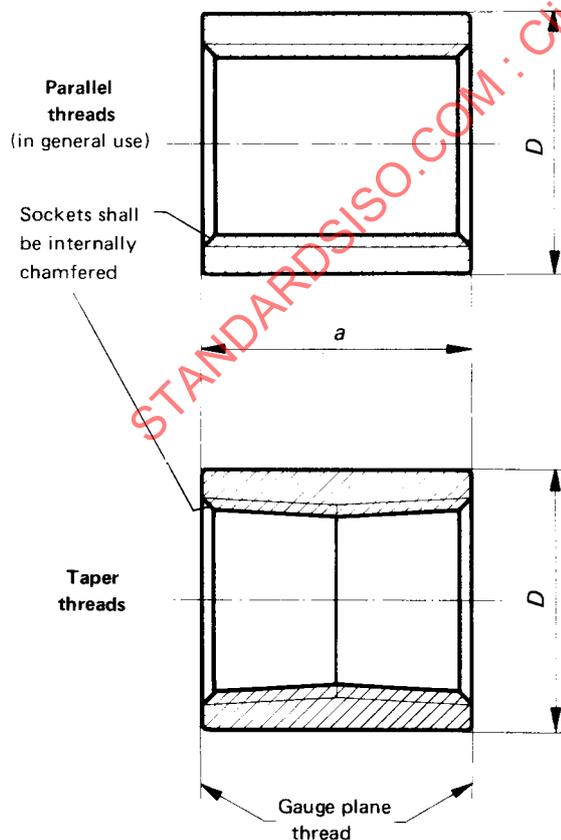
ISO 7, *Pipe threads where pressure-tight joints are made on the threads (designation, dimensions, tolerances).*¹⁾

ISO 2546, *Seamless plain end tubes from unalloyed steel and without quality requirements.*

ISO 2547, *Welded plain end tubes made from unalloyed steel and without quality requirements.*

3 DIMENSIONS

The minimum length, a , of steel sockets screwed with



parallel or taper threads is determined from the formula :

$$a = 2L + 2p$$

where

L is the length of useful thread on pipe end, according to ISO 7;

p is the pitch of thread.

Thus, the dimensions adopted enable the sockets to be assembled with tubes screwed according to ISO 7.

4 MATERIAL

The steel sockets shall be made from steel having characteristics and properties at least equal to those of the steel TS.O specified in ISO 2546, and/or the steel TW.O specified in ISO 2547.

Nominal size of sockets	Minimum outside diameter D mm	Minimum length a mm
1/8	14	17
1/4	18,5	25
3/8	21,3	26
1/2	26,4	34
3/4	31,8	36
1	39,5	43
1 1/4	48,3	48
1 1/2	54,5	48
2	66,3	56
2 1/2	82	65
3	95	71
4	122	83
5	147	92
6	174	92

1) At present at the stage of draft. (Revision of ISO/R 7.)