
International Standard



4570/3

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

**Tyre valve threads —
Part 3 : Threads 8V2, 10V1, 11V1, 13V2, 15V1, 16V1, 17V1,
17V2, 17V3, 19V1, 20V1**

Filetages de valves pour pneumatiques —

Partie 3 : Filetages 8V2, 10V1, 11V1, 13V2, 15V1, 16V1, 17V1, 17V2, 17V3, 19V1, 20V1

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ISO 4570-3:1980

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Descriptors : tyre valves, screw threads, designation, dimensions, dimensional tolerances.

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 4570/3 was developed by Technical Committee ISO/TC 31, *Tyres, rims and valves*, and was circulated to the member bodies in February 1979.

It has been approved by the member bodies of the following countries:

Australia	Germany, F. R.	Romania
Austria	Israel	South Africa, Rep. of
Canada	Italy	Spain
Chile	Japan	Sweden
China	Korea, Rep. of	United Kingdom
Czechoslovakia	Netherlands	USA
France	Poland	

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

USSR

Foreword

Other documents in this series on tyre valve threads include :

Part 1 : Threads 5V1, 5V2, 6V1 and 8V1.

Part 2 : Threads 9V1, 10V2, 12V1, 13V1.

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1 Scope and field of application

This International Standard specifies limit dimensions and tolerances for tyre valve threads 8V2, 10V1, 11V1, 13V2, 15V1, 16V1, 17V1, 17V2, 17V3, 19V1 et 20V1.

2 References

ISO 1502, *ISO general purpose metric threads — Gauging*.

ANSI B1.2, *Gauges and gauging for unified inch screw threads*.

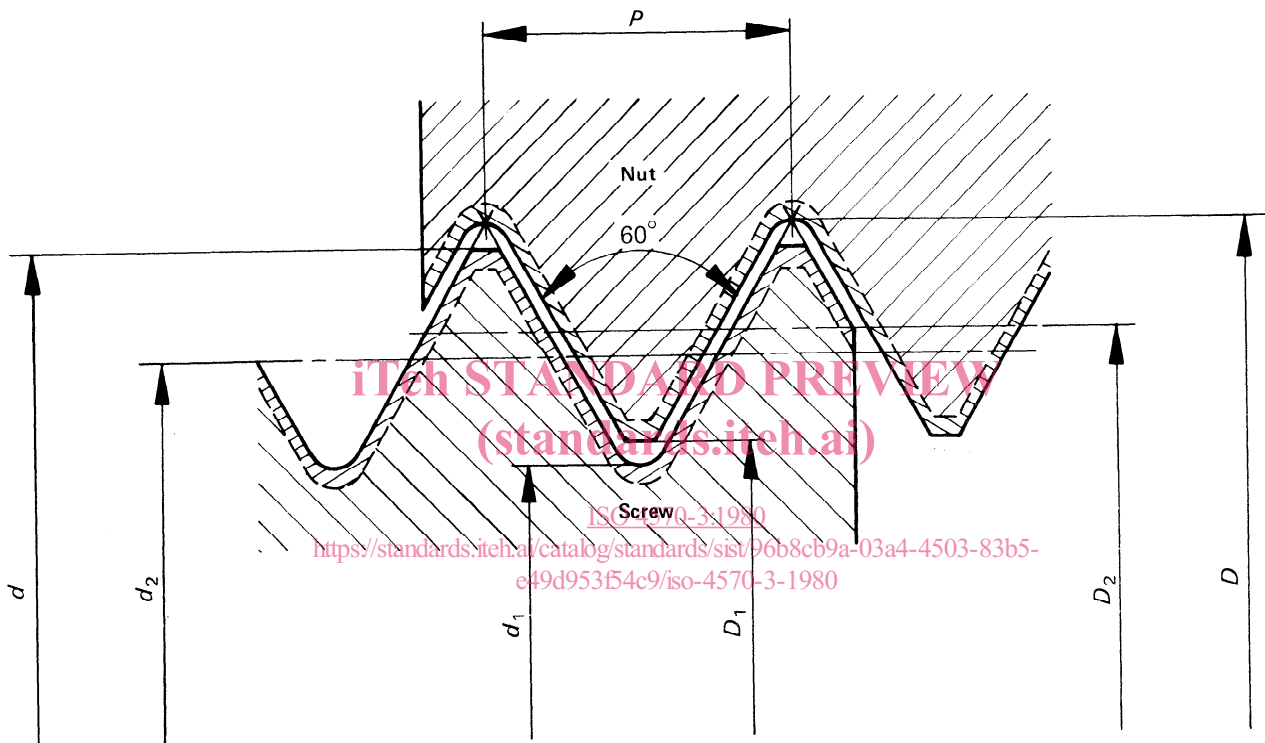
3 Designation

The designations shall be as given in table 1.

Table 1 — Designation

Nominal dimension, mm	Designation
7,9 × 1,058	8V2
9,6 × 1,00	10V1
11,1 × 1,270	11V1
12,7 × 0,794	13V2
15 × 1,00	15V1
15,8 × 0,941	16V1
17 × 1,00	17V1
17,5 × 1,058	17V2
17,5 × 1,588	17V3
19 × 1,588	19V1
20,5 × 1,00	20V1

4 Profile



- P : pitch
 - D : major diameter
 - D_2 : pitch diameter
 - D_1 : minor diameter
- } Nut
- d : major diameter
 - d_2 : pitch diameter
 - d_1 : minor diameter
- } Screw

Table 2 — Limit dimensions (see table 2)



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ERRATUM

Page 4

Heading "Screw", last column : "Minimum diameter" should read "Minor diameter".

Heading "Nut", first column : "Maximum diameter" should read "Major diameter".

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5 Thread gauging

5.1 Threads 10V1, 15V1, 17V1 and 20V1 should be verified according to the specifications given below.

The minimum and maximum values have been calculated to make it possible to apply the limit gauge inspection principles specified in ISO 1502 to the threads 10V1, 15V1, 17V1 and 20V1.

For the elaboration of the gauges, the following tolerances extracted from ISO 1502 have been chosen :

— pitch diameter of external thread (d_2)	$24 \mu\text{m} < T_{d_2} < 50 \mu\text{m}$
— outside diameter of external thread (d)	$36 \mu\text{m} < T_d < 85 \mu\text{m}$
— pitch diameter of internal thread (D_2)	$24 \mu\text{m} < T_{D_2} < 50 \mu\text{m}$
— inside diameter of internal thread (D_1)	$38 \mu\text{m} < T_{D_1} < 100 \mu\text{m}$

5.2 Threads 8V2, 11V1, 13V2, 16V1, 17V2, 17V3, 19V1, should be verified according ANSI B1.2.

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