
**Tyre valves — ISO core chambers No. 1,
No. 2 and No. 3**

*Valves pour pneumatiques — Logements de mécanismes ISO n° 1,
n° 2 et n° 3*

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[ISO 20562:2004](https://standards.iteh.ai/catalog/standards/sist/876de4ae-4996-482f9a75-837657381c05/iso-20562-2004)

[https://standards.iteh.ai/catalog/standards/sist/876de4ae-4996-482f9a75-
837657381c05/iso-20562-2004](https://standards.iteh.ai/catalog/standards/sist/876de4ae-4996-482f9a75-837657381c05/iso-20562-2004)



PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

ISO 20562:2004

<https://standards.iteh.ai/catalog/standards/sist/876de4ae-4996-482f9a75-837657381c05/iso-20562-2004>

© ISO 2004

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 ISO core chamber No. 1 — Dimensions and tolerances	1
4 ISO core chamber No. 2 (large bore) — Dimensions and tolerances	4
5 ISO core chamber No. 3 — Dimensions and tolerances	6
Annex A (informative) Counterbore dimensions	7
Bibliography	8

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[ISO 20562:2004](https://standards.iteh.ai/catalog/standards/sist/876de4ae-4996-482f9a75-837657381c05/iso-20562-2004)

<https://standards.iteh.ai/catalog/standards/sist/876de4ae-4996-482f9a75-837657381c05/iso-20562-2004>

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 20562 was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*, Subcommittee SC 9, *Valves for tube and tubeless tyres*.

This first edition of ISO 20562 cancels and replaces ISO 6762:1982 and ISO 7442:1982, of which it constitutes a technical revision.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

ISO 20562:2004
<https://standards.iteh.ai/catalog/standards/sist/876de4ae-4996-482f-9a75-837657381c05/iso-20562-2004>

Tyre valves — ISO core chambers No. 1, No. 2 and No. 3

1 Scope

This International Standard specifies the interchangeability dimensions of ISO core chambers Nos. 1, 2 and 3 for tyre valves. For the applicability of the core chambers, see ISO 9413.

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.

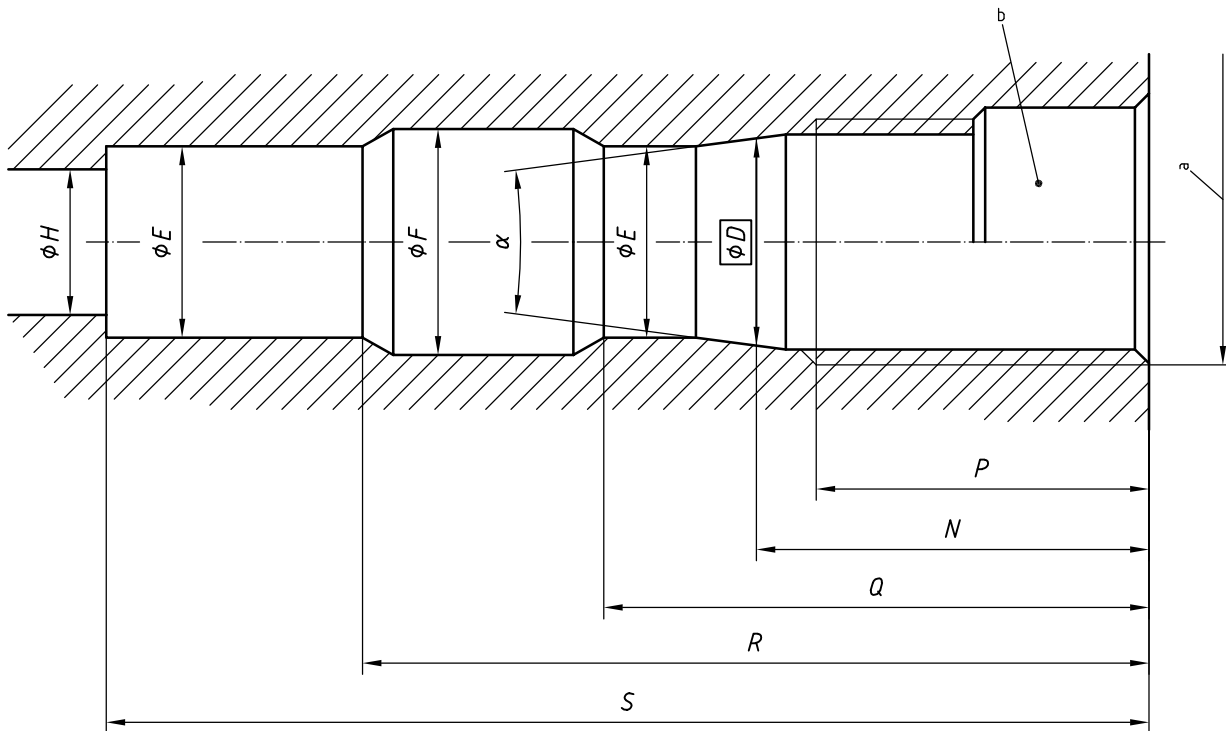
ISO 1502:1996, *ISO general-purpose metric screw threads — Gauges and gauging*

ISO 4570, *Tyre valve threads*

ISO 9413, *Tyre valves — Dimensions and designation*

3 ISO core chamber No. 1 — Dimensions and tolerances

ISO core chamber No. 1 (see Figure 1) can be used on all valves, provided the valve mouth is long enough to accept long cores. The core chamber dimensions shall be in accordance with Table 1 and the tolerances of the core head pin position in accordance with Figure 2.



- a Thread 5V1 (see ISO 4570).
- b The counterbore of the valve mouth is optional (for its dimensions, see Annex A).

iTeh STANDARD PREVIEW
(standards.iteh.ai)

Figure 1 — Core chamber No. 1

ISO 20562:2004

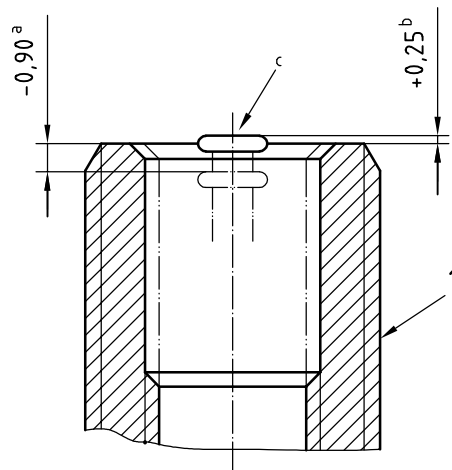
Table 1 — Core chamber No. 1 dimensions and angle α

Dimensions in millimetres

Dimension/angle	Min.	Max.
<i>D</i>	4,3	
<i>E</i>	3,82	3,94
<i>F</i>	4,27	4,70
<i>H</i>	—	3,2
<i>N</i>	10,0	10,4
<i>P</i> ^a	7,8	8,6
<i>Q</i>	13,5	14,5
<i>R</i>	22,7	25,0
<i>S</i>	30,5	31,0
α	16°	18°

^a The length of the thread is determined by using a GO thread plug gauge (see ISO 1502:1996, 11.3 and Figure 12). The dimension shall be measured from the end of the gauge and shall include a chamfer length of $0,5 \times$ pitch.

Dimensions in millimetres

**Key**

1 valve stem

a Low limit.

b High limit.

c The pin head shall not be more than 0,25 mm above, or 0,90 mm below, the valve mouth after insertion of the core at a torque of

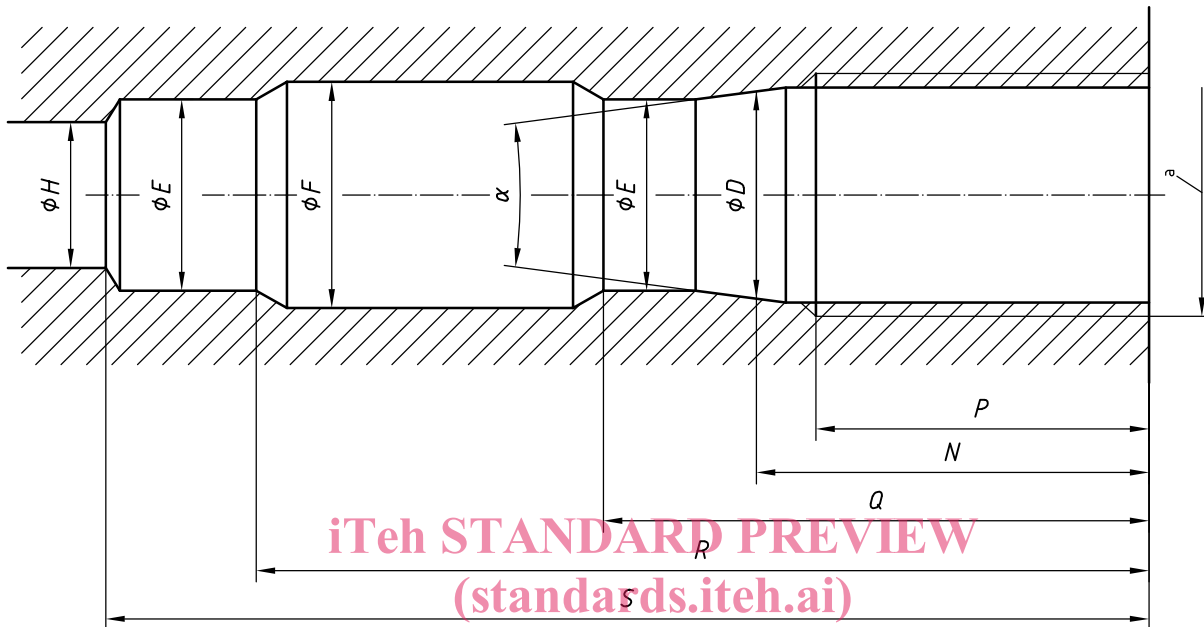
- 0,17 N·m to 0,34 N·m for a core with an elastomeric barrel gasket, or
- 0,34 N·m to 0,54 N·m for a core with a metallic sealing gasket.

ISO 20562:2004
Figure 2 — Core pin head position — Tolerances
<https://standards.iteh.ai/catalog/standards/sist/876de4ac-4996-482f-9a75-837657381c05/iso-20562-2004>

4 ISO core chamber No. 2 (large bore) — Dimensions and tolerances

ISO core chamber No. 2 (large bore) is designed principally for valves used on tyres of agricultural machines, earth-moving machines and civil aircraft.

The dimensions of the core chamber (see Figure 3) shall be in accordance with Table 2 and the tolerances of the core pin head position in accordance with Figure 4.



a Thread 8V1 (see ISO 4570).
 ISO 20562:2004
<https://standards.iteh.ai/catalog/standards/sist/876de4ae-4996-482f-9a75-837657381c05/iso-20562-2004>
Figure 3 — Core chamber No. 2

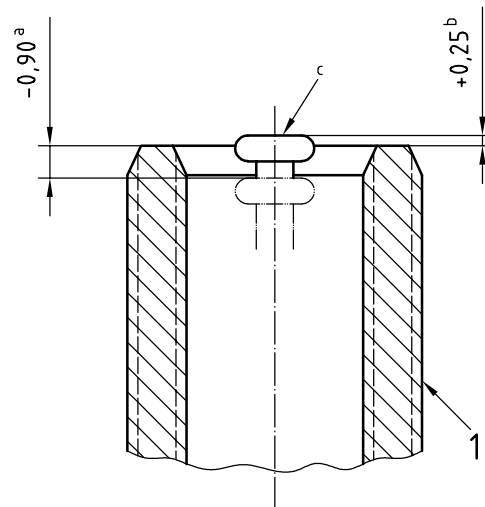
Table 2 — Core chamber No. 2 dimensions and angle α

Dimensions in millimetres

Dimension/angle	Min.	Max.
D	6,7	
E	6,3	6,4
F	7,3	7,7
H	4,6	4,9
N	13,82	14,22
p^a	11,5	12,3
Q	17,8	18,5
R	30,5	31,5
S	34,3	35,1
α	16°	18°

^a The length of the thread is determined by using a GO thread plug gauge (see ISO 1502:1996, 11.3 and Figure 12). The dimension shall be measured from the end of the gauge and shall include a chamfer length of $0,5 \times \text{pitch}$.

Dimensions in millimetres

**Key**

1 valve stem

a Low limit.

b High limit.

c The pin head shall not be more than 0,25 mm above, or 0,90 mm below, the valve mouth after insertion of the core at a torque of

— 0,34 N·m to 0,56 N·m for a core with an elastomeric barrel gasket, or

— 0,60 N·m to 0,80 N·m for a core with a metallic sealing barrel gasket.

ISO 20562:2004

<https://standards.iteh.ai/country/standards/cit/876514ee-4996-48260a75-837657381c05/iso-20562-2004>

Figure 4 — Core pin head position — Tolerances