इंटरनेट मानक

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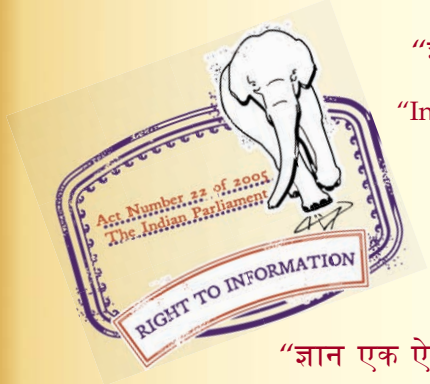
Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

"जानने का अधिकार, जीने का अधिकार"
Mazdoor Kisan Shakti Sangathan
"The Right to Information, The Right to Live"

"पुराने को छोड नये के तरफ"
Jawaharlal Nehru
"Step Out From the Old to the New"

IS 1821 (1987): Dimensions for clearance holes for bolts and screws [PGD 31: Bolts, Nuts and Fasteners Accessories]



"ज्ञान से एक नये भारत का निर्माण"
Satyanarayan Gangaram Pitroda
"Invent a New India Using Knowledge"

"ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है"
Bhartṛhari—Nītiśatakam
"Knowledge is such a treasure which cannot be stolen"

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UDC 621·882·2 - 472 : 006·78

IS : 1821 - 1987
ISO 273 - 1979

(Reaffirmed 2003)

Indian Standard

DIMENSIONS FOR CLEARANCE HOLES FOR BOLTS AND SCREWS

(Third Revision)

(ISO Title : Fasteners — Clearance Holes for Bolts and Screws)

Bolts, Nuts and Fasteners Accessories Sectional Committee, EDC 27 [Ref : Doc : EDC 27 (4965)]

National Foreword

This Indian Standard (Third Revision) which is identical with ISO 273-1979 ' Fasteners — Clearance holes for bolts and screws ' issued by the International Organization for Standardization (ISO), was adopted by the Indian Standards Institution on the recommendation of the Bolts, Nuts and Fasteners Accessories Sectional Committee and approval of the Mechanical Engineering Division Council.

The original version of this standard was published in 1961 and revised in 1967 and 1982. The present revision of the standard has been made by adoption of ISO 273-1979 to bring it in line with ISO standard.

In the adopted standard certain terminology and conventions are not identical with those used in Indian Standards; attention is specially drawn to the following:

Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use point (·) as the decimal marker.

Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.

Adopted 7 January 1987

Gr 2

BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
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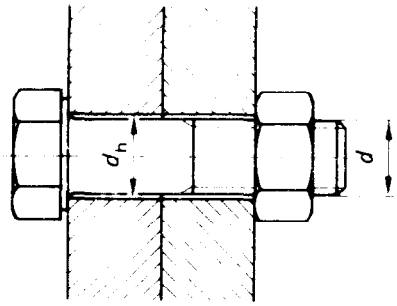
1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies clearance hole diameters for general purpose applications. These values result from bearing area calculations in connection with ISO bolt and nut product standards.

NOTE – Clearance holes for special applications should be selected on the basis of design requirements.

2 DIMENSIONS



Dimensions in millimetres

Thread diameter d	Clearance hole d_h		
	Series :		
	fine	medium	coarse
1	1,1	1 2	1,3
1,2	1,3	1,4	1,5
1,4	1,5	1,6	1,8
1,6	1,7	1,8	2
1,8	2	2,1	2,2
2	2,2	2,4	2,6
2 5	2,7	2,9	3,1
3	3,2	3,4	3,6
3,5	3,7	3,9	4,2
4	4,3	4,5	4,8
4,5	4,8	5	5,3
5	5,3	5,5	5,8
6	6,4	6,6	7
7	7,4	7,6	8
8	8,4	9	10
10	10,5	11	12
12	13	13,5	14,5
14	15	15,5	16,5
16	17	17,5	18,5
18	19	20	21
20	21	22	24
22	23	24	26
24	25	26	28
27	28	30	32
30	31	33	35
33	34	36	38
36	37	39	42
39	40	42	45

Thread diameter d	Clearance hole d_h		
	Series :		
	fine	medium	coarse
42	43	45	48
45	46	48	52
48	50	52	56
52	54	56	62
56	58	62	66
60	62	66	70
64	66	70	74
68	70	74	78
72	74	78	82
76	78	82	86
80	82	86	91
85	87	91	96
90	93	96	101
95	98	101	107
100	104	107	112
105	109	112	117
110	114	117	122
115	119	122	127
120	124	127	132
125	129	132	137
130	134	137	144
140	144	147	155
150	155	158	165

The following tolerance fields are given for information only, for use where it is desirable to specify tolerances :

fine series : H12

medium series : H13

coarse series : H14

In cases where it is necessary to avoid interference between the edge of the hole and the underhead fillet of the bolt, a chamfer is recommanded.