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

Hexagon socket set screws with cup point

Vis sans tête à six pans creux, à cuvette

First edition - 1977-06-15

iTeh STANDARD PREVIEW (standards.iteh.ai)

ISO 4029:1977 https://standards.iteh.ai/catalog/standards/sist/8973491b-d9ae-4e16-8d6a-781da52ee183/iso-4029-1977

UDC 621.882.219.4

Ref. No. ISO 4029-1977 (E)

Descriptors: fasteners, screws, socket head screws, set screws, specifications, dimensions, dimensional tolerances, designation.

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 4029 was developed by Technical Committee ISO/TC 2, Fasteners, and circulated to the member bodies in April 1976. PRFVIEW

It has been approved by the member bodies of the following countries: [e 1, 2]

Poland_{:1977} Belgium India Brazil Ireland Romania andards.iteh.ai/catalog/south Africa Rep. of -d9ae-4e16-8d6a-Bulgaria Italy 781da52 Spain ISC Czechoslovakia Japan Denmark Korea, Rep. of Sweden Switzerland Finland Mexico Netherlands Turkey France United Kingdom Germany Norway

Hungary Philippines U.S.S.R.

The member bodies of the following countries expressed disapproval of the document on technical grounds :

Australia U.S.A.



INTERNATIONAL STANDARD ISO 4029-1977 (E)/ERRATUM

Published 1979-11-15

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ERRATUM

Page 2

Alter s max, to read as follows:

Thread size d M 6 M 8 M 10 M 20 M 24

s max. 3,080 4,095 5,095 10,115 12,142

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Hexagon socket set screws with cup point

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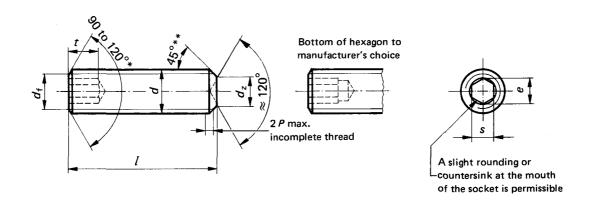
1 SCOPE AND FIELD OF APPLICATION

This International Standard gives specifications for hexagon socket set screws with cup point with metric dimensions and thread diameters from 1,6 up to and including 24 mm and product grade A: dae-4e16-8d6a-

If, in special cases, specifications other than those listed in this International Standard are required, it is recommended that they should be selected from existing International Standards, for example ISO 261, ISO 888, ISO 898, ISO 965.

Alternative forms of self-locking cup points may be supplied unless otherwise specified.

2 DIMENSIONS



- * The 120° angle is mandatory for short-length screws above the dotted stepped line.
- ** The 45° angle applies only to the portion of the point below the root diameter of the thread.

							-	····	·			•	Dimensio	ons in mi	llimetres
Th	read size d	f	M 1,6	М 2	M 2,5	МЗ	М 4	M 5	М 6	м 8	M 10	M 12	M 16	M 20	M 24
Р		1)	0,35	0,4	0,45	0,5	0,7	0,8	1,0	1,25	1,5	1,75	2,0	2,5	3
d _z	max.		0,8	1,0	1,2	1,4	2,0	2,5	3,0	5,0	6,0	8,0	10,0	14,0	16,0
	min.		0,55	0,75	0,95	1,15	1,75	2,25	2,75	4,7	5,7	7,64	9,64	13,57	15,57
df	≈		Minor thread diameter												
е	min. ²⁾		0,803	1,003	1,427	1,73	2,30	2,87	3,44	4,58	5,72	6,86	9,15	11,43	13,72
s	nominal		0,7	0,9	1,3	1,5	2,0	2,5	3,0	4,0	5,0	6,0	8,0	10,0	12,0
	min.		0,711	0,889	1,270	1,520	2,020	2,520	3,020	4,020	5,020	6,020	8,025	10,025	12,032
	max.		0,724	0,902	1,295	1,545	2,045	2,560	3,071	4,084	5,084	6,095	8,115	10,127	12,146
t	3) min. 4)		0,7	0,8	1,2	1,2	1,5	2,0	2,0	3,0	4,0	4,8	6,4	8,0	10,0
			1,5	1,7	2,0	2,0	2,5	3,0	3,5	5,0	6,0	8,0	10,0	12,0	15,0
	l I	1													
nominal	min.	max.	ļ			·		1			1				··········
2	1,80	2,20												!	
2,5	2,30	2,70	<u>i</u> '	Гeh	ST	AN	DAI	RD	PRI		EW				
3	2,80	3,20	· · · · · · · · · · · · · · · · · · ·		(st	and	lard	s.it	eh.a)					
4	3,76	4,24			(50	L				,					<u> </u>
5	4,76	5,24	1-44 0.1	latan dan	مامنده		SO 402		0724011	4000	1.16.04	60			ļ
6	5,76	6,24	https://	standar	igeπen,a	781da <i>5</i> 2	/standar lee 183/i	ds/sist/8 so-4029	9734911 -1 977)-a9ae-4	le16-80	.oa-			
8	7,71	8,29													
10	9,71	10,29													
12	11,65	12,35						of			-				
16	15,65	16,35													<u> </u>
20	19,58	20,42									i				<u> </u>
25	24,58	25,42									pop	oular			
30	29,58	30,42									 				
35	34,5	35,5										*			
40	39,5	40,5										-	leng	jτns	
45	44,5	45,5			-										
50	49,5	50,5									 				
55	54,4	55,6													
60	59,4	60,6													

¹⁾ P = pitch of the thread.

²⁾ $e \min = 1,14 s \min$, except for sizes M1,6, M 2 and M 2,5.

³⁾ Minimum depth of key engagement for screws with nominal lengths above the stepped line marked thus———.

⁴⁾ Minimum depth of key engagement for screws with nominal lengths below the stepped line marked thus———.

3 SPECIFICATIONS AND REFERENCE STANDARDS

Material		Steel Stainless steel		Non-ferrous metal				
Thread	Tolerances	5g6g for class 45H; for other classes : 6g						
Tillead	International Standards	ISO 261, ISO 965						
Bankanian I augustian	Class	45H	A2-2					
Mechanical properties	International Standards	ISO 898/V	ISO ¹⁾	ISO ¹⁾				
Tolerances	Product grade	A						
Tolerances	International Standard	ISO 4759/I ²⁾						
	,	black oxide (thermal or chemical)	plain	plain				
Finish		Requirements for electroplating are covered in ISO 4042 ²⁾ .						
		If different electroplating requirements are desired or if requirements are needed for other finishes, they should be negotiated between customer and supplier.						
Acceptability	Tab CTANI	For acceptance procedure see ISO 1).						

¹⁾ In preparation.

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4 DESIGNATION

ISO 4029:1977

https://standards.iteh.ai/catalog/standards/sist/8973491b-d9ae-4e16-8d6a-Example for the designation of a hexagon socket set screw with cup point, thread size d=M6, nominal length l=12 mm and property class 45H:

Hexagon socket set screw ISO 4029 M6 \times 12-45H

²⁾ At present at the stage of draft.

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