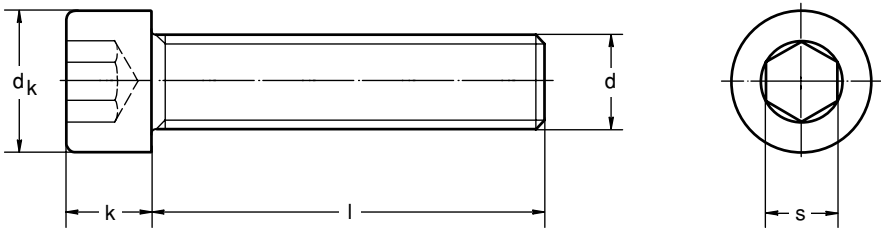


Hexagon Socket Head Cap Screw with Thread to Head ISO 4762: 2004
Product grade A

Material:	Steel
Property class:	8.8 acc. ISO 898-1
Surface:	ISO 4042: Zinc electro-plated and chromated bluish (also allowed: chromated yellowish, as long as on stock)
	d = M3.....M8 : A2F (5 µm)
	d = M10.....M20 : A3F (8 µm)
	d = M24.....M48 : A4F (12 µm)



Dimensions in mm

d	(M3)	M4	M5	M6	M8	M10	M12	(M14)	M16	M20
d _k max. ¹⁾	5.5	7	8.5	10	13	16	18	21	24	30
k max.	3	4	5	6	8	10	12	14	16	20
s nom.	2.5	3	4	5	6	8	10	12	14	17

d	M24	M27 ^{2) 3)}	M30	M33 ^{2) 3)}	M36	M42	M48
d _k max. ¹⁾	36	40	45	50	54	63	72
k max.	24	27	30	33	36	42	48
s nom.	19	19	22	24	27	32	36

Avoid values in brackets.
Application above +150 °C, see HZN 404209.

- 1) Valid for smooth heads only. For knurled heads: Tolerance IT 13.
2) This diameters are permissible only for ANSI-flange bolting.
3) According to DIN 912 (Withdrawn 1998-02). Not included in ISO 4762.

Dept.	Document No.	Type	Rev.	Released	Eng.	Status
9610	NB 315858	ND	K	2010-10-20	EN	Approved

Internal remark:	VPDM 3D model available	Yes ☐	Partly ☒	No ☐	Pos-No-Plan:	HZN 404214
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Hexagon Socket Head Cap Screw with Thread to Head ISO 4762: 2004

Dimensions in mm

d	(M3)	M4	M5	M6	M8	M10	M12	(M14)	M16	M20	M24
I	Ident-No.: NB 315858P....										
3											
4											
5	103										
6	104	154									
8	105	155	205								
10	106	156	206	256	(306)						
12	107	157	207	257	307						
16	109	159	209	259	309	359					
20	110	160	210	260	310	360	410		(460)		
25		161	211	261	311	361	411	(2515)	461		
30				262	312	362	412	(2517)	462	512	
35					313	363	413	(2518)	463	513	
40					(314)	364	414	(2519)	464	514	564
45							415	(2520)	465	515	565
50							416	(2521)	466	516	566
55								(2522)	467	517	567
60									468	518	568
65										519	569
70										520	570
80											572
90											
100											
110											
120											
130											
140											
150											
160										(529)	
180											
200							(435)				

Avoid values in brackets.

- 4) Screws with shank should be used for sizes below lower continuous stepped line.
5) The area between the upper and lower stepped line contains the bolt lengths that are commercially available (acc. to ISO).

Example of designation:

Hexagon socket head cap screw with thread to head M36x100, made of Steel, property class 8.8, zinc electro-plated and chromated, bluish

Text: HEX-S SCR M36X100 8.8/ZN	Ident-No.: NB 315858P0675
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Hexagon Socket Head Cap Screw with Thread to Head ISO 4762: 2004

Dimensions in mm

Dept.	Document No.	Type	Rev.	Released	Ing.	Status
9610	NB 315858	ND	K	2010-10-20	EN	Approved

d	M27 ^{2) 3)}	M30	M33 ^{2) 3)}	M36	M42	M48				
I	Ident-No.: NB 315858P....									
20										
25										
30										
35										
40										
45	3120	615								
50	3121	616	3321							
55	3122	617	3322	667						
60	3123	618	3323	668	718					
65	3124	619	3324	669	719					
70	3125	620	3325	670	720	770				
80	3127	622	3327	672	722	772				
90	3129	624	3329	674	724	774				
100		625	3331	675	725	775				
110				676	726	776				
120					727	777				
130					728	778				
140						779				
150						780				
160										
180										
200										
220										

Avoid values in brackets.

- 2) This diameters are permissible only for ANSI-flange bolting.
3) According to DIN 912 (Withdrawn 1998-02). Not included in ISO 4762.
4) Screws with shank should be used for sizes below lower continuous stepped line.
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