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Slotted Cheese Head Screws  
for Fine Mechanics  
M 0.3 to M 1.4

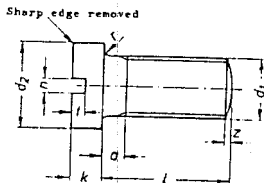
DIN

8243

Zylinderschrauben mit Schlitz für Feinwerktechnik, M 0,3 bis M 1,4

Dimensions in mm

Type A small head  
Type B medium head  
Type C large head



Designation of a cheese head screw  
Type A with thread  $d_1 = M 0.7$ ,  
length  $l = 1.4$  mm and strength  
category 5.8:

Cheese head screw A  
M 0.7 x 1.4 DIN 8243 - 5.8

$d_1$	M 0,3	M 0,35	M 0,4	M 0,5	M 0,6	M 0,7	M 0,8	M 0,9	M 1,1 <sup>1)</sup>	M 1,2 <sup>1)</sup>	M 1,4 <sup>1)</sup>
$a$ max.	0,16	0,18	0,2	0,25	0,3	0,35	0,4	0,45	0,5	0,5	0,6
$d_2$	A —	0,5	0,6	0,7	0,8	1	1,2	1,5	1,8	2	2,3
	B 0,5	0,6	0,7	0,8	1	1,2	1,5	1,8	—	—	—
	C 0,6	0,7	0,8	1	1,2	1,5	1,8	2	—	—	—
$k$	A —	0,2	0,23	0,25	0,3	0,35	0,4	0,5	0,6	0,7	0,8
	B 0,2	0,23	0,25	0,3	0,35	0,4	0,5	0,6	—	—	—
	C 0,23	0,25	0,3	0,35	0,4	0,5	0,6	0,7	—	—	—
$n$	A —	0,1	0,12	0,14	0,16	0,16	0,2	0,2	0,2	0,25	0,3
	B 0,1	0,12	0,14	0,16	0,16	0,16	0,2	0,2	—	—	—
	C 0,12	0,14	0,16	0,16	0,16	0,2	0,2	0,25	—	—	—
$r$	Values according to DIN 267 Sheet 6 (at present circulating as draft)										
$f$ min.	—	0,08	0,09	0,1	0,12	0,14	0,16	0,2	0,24	0,28	0,32
	max.	—	0,12	0,14	0,15	0,18	0,21	0,24	0,3	0,36	0,42
$f$ min.	0,08	0,09	0,1	0,12	0,14	0,16	0,2	0,24	0,3	0,36	—
	max.	0,12	0,14	0,15	0,18	0,21	0,24	0,3	0,36	—	—
$C$ min.	0,09	0,1	0,12	0,14	0,16	0,2	0,24	0,28	—	—	—
	max.	0,14	0,15	0,18	0,21	0,24	0,3	0,36	0,42	—	—
$z$ max.	0,12	0,14	0,16	0,19	0,22	0,25	0,3	0,35	0,4	0,4	0,45
$l$	0,6										
	0,7										
	0,8										
	1										
	1,2										
	1,4										
	1,6										
	1,8										
	2										
	2,2										
	2,5										
	3										
	4										
	5										
	6										
	8										
	10										

The sizes denoted by the compartments lying between the two stepped lines are preferred sizes. Intermediate lengths are permitted, but should be avoided where possible.

<sup>1)</sup> For the threads M 1, M 1.2 and M 1.4, this Standard specifies only Type A each time.  
See also Explanations.

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Explanations on page 2

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Technical conditions of delivery according to DIN 267

Strength category (material) (to be indicated when ordering): 5.8 according to DIN 267 Sheet 3  
A2 according to DIN 267 Sheet 11  
Other materials subject to agreement

Finish: f (fine) according to DIN 267 Sheet 6 (at present circulating as draft)

If surface protection is required, the designation must be augmented according to DIN 267 Sheet 9.

#### Explanations

In the field of fine mechanics space conditions are often difficult, so that the correlation of a single head size to a given thread diameter fails to meet the requirements arising in applications involving small screws. To provide the widest possible range of variation whilst keeping the number of head sizes comparatively small, three different head sizes have been allocated to each nominal thread diameter, and two sizes of each set match the heads of the next larger and smaller nominal thread size respectively. Thus, for example, the medium head of the M 0.7 screw is equal in size to the large head of the M 0.6 and the small head of the M 0.8 screw.

DIN 84, which likewise deals with slotted cheese head screws, starts at thread size M 1, but only covers screws in one head size to each thread diameter. From and including M 1, the series of cheese head screws standardized in DIN 84 directly continues the B series of DIN 8243 in terms of head sizes. Therefore, this Standard contains no provisions regarding nominal sizes M 1 to M 1.4 (Series B, medium head). Moreover, from and including M 1, Series C (large head) has ceased to be needed, so that it likewise can be omitted.