

Slotted Pan Head Screws

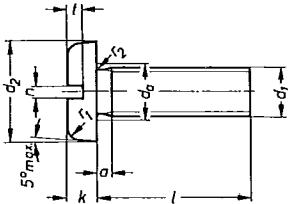
DIN
85

Flachkopfschrauben mit Schlitz

The contents of this Standard agrees in subject matter with the ISO Recommendation ISO/R 1580-1970 published by the "International Organization for Standardization (ISO)".

Dimensions in mm

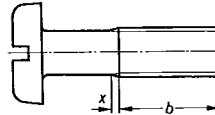
Type A threaded to head¹⁾
(above the stepped line)



d_2 and r_2 according to
DIN 267 Part 2

a and x according to
DIN 76

Type B with shank¹⁾
(below the stepped line)
Shank diameter \approx effective diameter



Other dimensions as in
left-hand illustration

Designation of a pan head screw with thread $d_1 = M 6$, length $l = 20$ mm and strength category 5.8¹⁾:

Pan head screw M 6 x 20 DIN 85 - 5.8

| d_1 | M3 | (M3,5) | M4 | M5 | M6 | (M8) | (M10) |
|-------|--|--------|------|------|------|------|-------|
| b | 19 | 20 | 22 | 25 | 28 | 34 | 40 |
| d_2 | 6 | 7 | 8 | 10 | 12 | 16 | 20 |
| k | 1,8 | 2,1 | 2,4 | 3 | 3,6 | 4,8 | 6 |
| n | 0,8 | 0,8 | 1 | 1,2 | 1,6 | 2 | 2,5 |
| r_1 | max. | 1,2 | 1,4 | 1,6 | 2 | 2,4 | 3,2 |
| | min. | 0,6 | 0,7 | 0,8 | 1 | 1,2 | 1,6 |
| l | min. | 0,7 | 0,8 | 1 | 1,2 | 1,5 | 1,9 |
| | max. | 0,95 | 1,1 | 1,3 | 1,5 | 1,9 | 2,4 |
| l | Weight (7,85 kg/dm ³) kg/1000 pieces \approx | | | | | | |
| 3 | 0,458 | | | | | | |
| 4 | 0,503 | 0,765 | | | | | |
| 5 | 0,548 | 0,825 | 1,16 | | | | |
| 6 | 0,591 | 0,885 | 1,24 | 2,27 | | | |
| 8 | 0,680 | 1,00 | 1,39 | 2,52 | 4,02 | | |
| 10 | 0,768 | 1,12 | 1,55 | 2,76 | 4,37 | 9,38 | |
| 12 | 0,856 | 1,24 | 1,70 | 3,00 | 4,72 | 10,0 | 18,2 |
| (14) | 0,945 | 1,36 | 1,86 | 3,25 | 5,10 | 10,6 | 19,2 |
| 16 | 1,03 | 1,48 | 2,01 | 3,50 | 5,45 | 11,2 | 20,2 |
| (18) | 1,12 | 1,60 | 2,17 | 3,75 | 5,79 | 11,9 | 21,2 |
| 20 | 1,21 | 1,72 | 2,32 | 4,00 | 6,14 | 12,6 | 22,2 |
| (22) | 1,30 | 1,84 | 2,48 | 4,25 | 6,49 | 13,2 | 23,2 |
| 25 | 1,43 | 2,02 | 2,71 | 4,62 | 7,01 | 14,1 | 24,7 |
| (28) | 1,56 | 2,20 | 2,94 | 5,00 | 7,53 | 15,0 | 26,2 |
| 30 | 1,65 | 2,32 | 3,10 | 5,24 | 7,90 | 15,7 | 27,2 |
| 35 | | 2,62 | 3,48 | 5,86 | 8,78 | 17,3 | 29,7 |
| 40 | | | 3,87 | 6,48 | 9,66 | 18,9 | 32,2 |
| 45 | | | | 7,10 | 10,5 | 20,5 | 34,7 |
| 50 | | | | 7,72 | 11,4 | 22,1 | 37,2 |
| 55 | | | | | | 23,7 | 39,7 |
| 60 | | | | | | | 42,2 |

Bracketed sizes should be avoided wherever possible.

¹⁾ Types A and B illustrated above count as the regular pattern in the areas separated in the Table by the stepped line. The socket head cap screws are therefore designated without the type letter symbols. At the manufacturer's choice the screws may be supplied with or without point and with the shank diameter = thread diameter instead of with the shank diameter \approx effective diameter. If, however, in exceptional cases a specific type or a different thread length is required, then the appropriate type letter symbol or the thread length must be stated in the designation. For examples of designations, see DIN 962.

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Technical conditions of delivery according to DIN 267

Strength category or material: preferred: 4.8 or 5.8 } according to DIN 267 Part 3
permitted: 8.8 or 10.9 }

Ms = Copper-zinc alloy (brass) according to DIN 17672, grade at manufacturer's choice
Other strength categories or materials are subject to agreement

Type: m according to DIN 267 Part 2

If electroplated surface protection is required the designation shall be augmented according to DIN 267 Part 9.

Intermediate lengths should be avoided wherever possible. Lengths over 60 mm are to be stepped in rises of 10 mm.

Normally these screws are manufactured in the sizes for which weights are stated.

If the screws are to be supplied with captive washers the designation shall be augmented according to DIN 6900.