

11.02  
S6K

Hexagonal head bolt, partially threaded

SEND THE INQUIRY

+48 58 55 40 410

Standards:

DIN 931  
GOST 7798-70  
ISO 4014  
PN-M 82101

5.88.810.9

Class (standard):

12.9

Class (special order):

Coating (standard):

B  
WHITE  
ZINC  
COATING

A  
YELLOW  
ZINC  
COATING

C  
BLACK  
ZINC  
COATING

G  
HDG

Coating (special order):

N  
NICKEL  
COATING



Dimensions

| Material index     | d   | L [mm] | k [mm] | s [mm] | b [mm] | Mechanical properties class | Type of coating | Jednostka mia |
|--------------------|-----|--------|--------|--------|--------|-----------------------------|-----------------|---------------|
| 1102200100S10D931S | M20 | 100    | 12.5   | 30.0   | 42     | 10.9                        | S (raw product) | SZT           |
| 1102080080S10D931T | M8  | 80     | 5.3    | 13.0   | 22     | 10.9                        | S (raw product) | TYS           |
| 1102120200S10D931S | M12 | 200    | 7.5    | 19.0   | 36     | 10.9                        | S (raw product) | SZT           |
| 1102100160S10D931S | M10 | 160    | 6.4    | 17.0   | 32     | 10.9                        | S (raw product) | SZT           |
| 1102140160S10D931S | M14 | 160    | 9.0    | 22.0   | 40     | 10.9                        | S (raw product) | SZT           |
| 1102140070S10D931S | M14 | 70     | 9.0    | 22.0   | 34     | 10.9                        | S (raw product) | SZT           |
| 1102160060S10D931S | M16 | 60     | 10.0   | 24.0   | 38     | 10.9                        | S (raw product) | SZT           |
| 1102160050S10D931S | M16 | 50     | 10.0   | 24.0   | 38     | 10.9                        | S (raw product) | SZT           |
| 1102160070S10D931S | M16 | 70     | 10.0   | 24.0   | 38     | 10.9                        | S (raw product) | SZT           |
| 1102120160S10D931S | M12 | 160    | 7.5    | 19.0   | 36     | 10.9                        | S (raw product) | SZT           |
| 1102140100S10D931S | M14 | 100    | 9.0    | 22.0   | 34     | 10.9                        | S (raw product) | SZT           |
| 1102160140S10D931S | M16 | 140    | 10.0   | 24.0   | 44     | 10.9                        | S (raw product) | SZT           |
| 1102140060S10D931S | M14 | 60     | 9.0    | 22.0   | 34     | 10.9                        | S (raw product) | SZT           |
| 1102200120S10D931S | M20 | 120    | 12.5   | 30.0   | 42     | 10.9                        | S (raw product) | SZT           |
| 1102120140S10D931S | M12 | 140    | 7.5    | 19.0   | 36     | 10.9                        | S (raw product) | SZT           |
| 1102200070S10D931S | M20 | 70     | 12.5   | 30.0   | 42     | 10.9                        | S (raw product) | SZT           |

| Material index     | d   | L [mm] | k [mm] | s [mm] | b [mm] | Mechanical properties class | Type of coating        | Jednostka miar |
|--------------------|-----|--------|--------|--------|--------|-----------------------------|------------------------|----------------|
| 1102120060S10D931S | M12 | 60     | 7.5    | 19.0   | 30     | 10.9                        | S (raw product)        | SZT            |
| 1102120120S10D931S | M12 | 120    | 7.5    | 19.0   | 30     | 10.9                        | S (raw product)        | SZT            |
| 1102160120S10D931S | M16 | 120    | 10.0   | 24.0   | 38     | 10.9                        | S (raw product)        | SZT            |
| 1102160180S10D931S | M16 | 180    | 10.0   | 24.0   | 44     | 10.9                        | S (raw product)        | SZT            |
| 1102160160S10D931S | M16 | 160    | 10.0   | 24.0   | 44     | 10.9                        | S (raw product)        | SZT            |
| 1102100120S10D931T | M10 | 120    | 6.4    | 17.0   | 26     | 10.9                        | S (raw product)        | TYS            |
| 1102180160S10D931S | M18 | 160    | 12.0   | 27.0   | 48     | 10.9                        | S (raw product)        | SZT            |
| 1102200140S10D931S | M20 | 140    | 12.5   | 30.0   | 48     | 10.9                        | S (raw product)        | SZT            |
| 1102180120S10D931S | M18 | 120    | 12.0   | 27.0   | 42     | 10.9                        | S (raw product)        | SZT            |
| 1102100060S10D931S | M10 | 60     | 6.4    | 17.0   | 26     | 10.9                        | S (raw product)        | SZT            |
| 1102240100S10D931S | M24 | 100    | 15.0   | 36.0   | 54     | 10.9                        | S (raw product)        | SZT            |
| 1102200160S10D931S | M20 | 160    | 12.5   | 30.0   | 48     | 10.9                        | B (White zinc coating) | SZT            |
| 1102100180S10D931S | M10 | 180    | 6.4    | 17.0   | 32     | 10.9                        | S (raw product)        | SZT            |
| 1102240200S10D931S | M24 | 200    | 15.0   | 36.0   | 60     | 10.9                        | S (raw product)        | SZT            |
| 1102200060S10D931S | M20 | 60     | 12.5   | 30.0   | 42     | 10.9                        | S (raw product)        | SZT            |
| 1102140080S10D931S | M14 | 80     | 9.0    | 22.0   | 34     | 10.9                        | S (raw product)        | SZT            |
| 1102160080S10D931S | M16 | 80     | 10.0   | 24.0   | 38     | 10.9                        | S (raw product)        | SZT            |
| 1102120080S10D931S | M12 | 80     | 7.5    | 19.0   | 30     | 10.9                        | S (raw product)        | SZT            |
| 1102120050S10D931S | M12 | 50     | 7.5    | 19.0   | 30     | 10.9                        | S (raw product)        | SZT            |
| 1102200080S10D931S | M20 | 80     | 12.5   | 30.0   | 42     | 10.9                        | S (raw product)        | SZT            |
| 1102100100S10D931T | M10 | 100    | 6.4    | 17.0   | 26     | 10.9                        | S (raw product)        | TYS            |
| 1102120180S10D931S | M12 | 180    | 7.5    | 19.0   | 36     | 10.9                        | S (raw product)        | SZT            |
| 1102080140S10D931T | M8  | 140    | 5.3    | 13.0   | 22     | 10.9                        | S (raw product)        | TYS            |
| 1102080120S10D931T | M8  | 120    | 5.3    | 13.0   | 26     | 10.9                        | S (raw product)        | TYS            |
| 1102180100S10D931S | M18 | 100    | 12.0   | 27.0   | 42     | 10.9                        | S (raw product)        | SZT            |
| 1102240140S10D931S | M24 | 140    | 15.0   | 36.0   | 60     | 10.9                        | S (raw product)        | SZT            |
| 1102120040B10D931T | M12 | 40     | 7.5    | 19.0   | 30     | 10.9                        | B (White zinc coating) | TYS            |
| 1102160090S10D931S | M16 | 90     | 10.0   | 24.0   | 38     | 10.9                        | S (raw product)        | SZT            |
| 1102200200S10D931S | M20 | 200    | 12.5   | 30.0   | 48     | 10.9                        | S (raw product)        | SZT            |
| 1102140180S10D931S | M14 | 180    | 9.0    | 22.0   | 40     | 10.9                        | S (raw product)        | SZT            |
| 1102180140S10D931S | M18 | 140    | 12.0   | 27.0   | 48     | 10.9                        | S (raw product)        | SZT            |
| 1102100090S10D931T | M10 | 90     | 6.4    | 17.0   | 26     | 10.9                        | S (raw product)        | TYS            |
| 1102240120S10D931S | M24 | 120    | 15.0   | 36.0   | 54     | 10.9                        | S (raw product)        | SZT            |
| 1102120100S10D931S | M12 | 100    | 7.5    | 19.0   | 30     | 10.9                        | S (raw product)        | SZT            |
| 1102120070S10D931S | M12 | 70     | 7.5    | 19.0   | 30     | 10.9                        | S (raw product)        | SZT            |
| 1102140140S10D931S | M14 | 140    | 9.0    | 22.0   | 40     | 10.9                        | S (raw product)        | SZT            |
| 1102140120S10D931S | M14 | 120    | 9.0    | 22.0   | 40     | 10.9                        | S (raw product)        | SZT            |
| 1102160200S10D931S | M16 | 200    | 10.0   | 24.0   | 44     | 10.9                        | S (raw product)        | SZT            |
| 1102100140S10D931S | M10 | 140    | 6.4    | 17.0   | 32     | 10.9                        | S (raw product)        | SZT            |

| Material index     | d   | L [mm] | k [mm] | s [mm] | b [mm] | Mechanical properties class | Type of coating        | Jednostka miar |
|--------------------|-----|--------|--------|--------|--------|-----------------------------|------------------------|----------------|
| 1102200180S10D931S | M20 | 180    | 12.5   | 30.0   | 48     | 10.9                        | S (raw product)        | SZT            |
| 1102080050S10D931T | M8  | 50     | 5.3    | 13.0   | 22     | 10.9                        | S (raw product)        | TYS            |
| 1102180080S10D931S | M18 | 80     | 12.0   | 27.0   | 42     | 10.9                        | S (raw product)        | SZT            |
| 1102120090S10D931S | M12 | 90     | 7.5    | 19.0   | 30     | 10.9                        | S (raw product)        | SZT            |
| 1102080070S10D931S | M8  | 70     | 5.3    | 13.0   | 22     | 10.9                        | S (raw product)        | SZT            |
| 1102160100S10D931S | M16 | 100    | 10.0   | 24.0   | 38     | 10.9                        | S (raw product)        | SZT            |
| 1102140050S10D931S | M14 | 50     | 9.0    | 22.0   | 34     | 10.9                        | S (raw product)        | SZT            |
| 1102180060S10D931S | M18 | 60     | 12.0   | 27.0   | 42     | 10.9                        | S (raw product)        | SZT            |
| 1102200090S10D931S | M20 | 90     | 12.5   | 30.0   | 42     | 10.9                        | S (raw product)        | SZT            |
| 1102080060S10D931T | M8  | 60     | 5.3    | 13.0   | 22     | 10.9                        | S (raw product)        | TYS            |
| 1102080100S10D931T | M8  | 100    | 5.3    | 13.0   | 22     | 10.9                        | S (raw product)        | TYS            |
| 1102100040S10D931T | M10 | 40     | 6.4    | 17.0   | 26     | 10.9                        | S (raw product)        | TYS            |
| 1102100050S10D931T | M10 | 50     | 6.4    | 17.0   | 26     | 10.9                        | S (raw product)        | TYS            |
| 1102100070S10D931T | M10 | 70     | 6.4    | 17.0   | 26     | 10.9                        | S (raw product)        | TYS            |
| 1102100080S10D931T | M10 | 80     | 6.4    | 17.0   | 26     | 10.9                        | S (raw product)        | TYS            |
| 1102120040S10D931T | M12 | 40     | 7.5    | 19.0   | 30     | 10.9                        | S (raw product)        | TYS            |
| 1102080040S10D931T | M8  | 40     | 5.3    | 13.0   | 22     | 10.9                        | S (raw product)        | TYS            |
| 1102100050B88D931K | M10 | 50     | 6.4    | 17.0   | 26     | 8.8                         | B (White zinc coating) | KG             |
| 1102120180B88D931S | M12 | 180    | 7.5    | 19.0   | 36     | 8.8                         | B (White zinc coating) | SZT            |
| 1102160130B88D931S | M16 | 130    | 10.0   | 24.0   | 44     | 8.8                         | B (White zinc coating) | SZT            |
| 1102200080B88D931K | M20 | 80     | 12.5   | 30.0   | 42     | 8.8                         | B (White zinc coating) | KG             |
| 1102160065B88D931K | M16 | 65     | 10.0   | 24.0   | 38     | 8.8                         | B (White zinc coating) | KG             |
| 1102120080B88D931K | M12 | 80     | 7.5    | 19.0   | 30     | 8.8                         | B (White zinc coating) | KG             |
| 1102100130B88D931K | M10 | 130    | 6.4    | 17.0   | 32     | 8.8                         | B (White zinc coating) | KG             |
| 1102160140B88D931K | M16 | 140    | 10.0   | 24.0   | 44     | 8.8                         | B (White zinc coating) | KG             |
| 1102140080B88D931K | M14 | 80     | 9.0    | 22.0   | 34     | 8.8                         | B (White zinc coating) | KG             |
| 1102240120B88D931S | M24 | 120    | 15.0   | 36.0   | 54     | 8.8                         | B (White zinc coating) | SZT            |
| 1102160100B88D931K | M16 | 100    | 10.0   | 24.0   | 38     | 8.8                         | B (White zinc coating) | KG             |
| 1102100160B88D931K | M10 | 160    | 6.4    | 17.0   | 32     | 8.8                         | B (White zinc coating) | KG             |
| 1102100040B88D931K | M10 | 40     | 6.4    | 17.0   | 26     | 8.8                         | B (White zinc coating) | KG             |
| 1102200070B88D931S | M20 | 70     | 12.5   | 30.0   | 42     | 8.8                         | B (White zinc coating) | SZT            |
| 1102160055B88D931K | M16 | 55     | 10.0   | 24.0   | 38     | 8.8                         | B (White zinc coating) | KG             |
| 1102060080B88D931T | M6  | 80     | 4.0    | 10.0   | 18     | 8.8                         | B (White zinc coating) | TYS            |
| 1102060060B88D931K | M6  | 60     | 4.0    | 10.0   | 18     | 8.8                         | B (White zinc coating) | KG             |
| 1102140060B88D931K | M14 | 60     | 9.0    | 22.0   | 34     | 8.8                         | B (White zinc coating) | KG             |
| 1102240140B88D931S | M24 | 140    | 15.0   | 36.0   | 54     | 8.8                         | B (White zinc coating) | SZT            |
| 1102120080B88D931T | M12 | 80     | 7.5    | 19.0   | 30     | 8.8                         | B (White zinc coating) | TYS            |
| 1102160130B88D931K | M16 | 130    | 10.0   | 24.0   | 44     | 8.8                         | B (White zinc coating) | KG             |
| 1102120070B88D931K | M12 | 70     | 7.5    | 19.0   | 30     | 8.8                         | B (White zinc coating) | KG             |

| Material index     | d   | L [mm] | k [mm] | s [mm] | b [mm] | Mechanical properties class | Type of coating        | Jednostka miar |
|--------------------|-----|--------|--------|--------|--------|-----------------------------|------------------------|----------------|
| 1102240100B88D931K | M24 | 100    | 15.0   | 36.0   | 54     | 8.8                         | B (White zinc coating) | KG             |
| 1102120065B88D931K | M12 | 65     | 7.5    | 19.0   | 30     | 8.8                         | B (White zinc coating) | KG             |
| 1102100120B88D931T | M10 | 120    | 6.4    | 17.0   | 26     | 8.8                         | B (White zinc coating) | TYS            |
| 1102120130B88D931K | M12 | 130    | 7.5    | 19.0   | 36     | 8.8                         | B (White zinc coating) | KG             |
| 1102080100B88D931K | M8  | 100    | 5.3    | 13.0   | 22     | 8.8                         | B (White zinc coating) | KG             |
| 1102200180B88D931S | M20 | 180    | 12.5   | 30.0   | 48     | 8.8                         | B (White zinc coating) | SZT            |
| 1102060050B88D931K | M6  | 50     | 4.0    | 10.0   | 18     | 8.8                         | B (White zinc coating) | KG             |
| 1102240160B88D931K | M24 | 160    | 15.0   | 36.0   | 60     | 8.8                         | B (White zinc coating) | KG             |
| 1102080050B88D931K | M8  | 50     | 5.3    | 13.0   | 22     | 8.8                         | B (White zinc coating) | KG             |
| 1102160080B88D931K | M16 | 80     | 10.0   | 24.0   | 38     | 8.8                         | B (White zinc coating) | KG             |
| 1102120045B88D931K | M12 | 45     | 7.5    | 19.0   | 30     | 8.8                         | B (White zinc coating) | KG             |
| 1102140120B88D931S | M14 | 120    | 9.0    | 22.0   | 40     | 8.8                         | B (White zinc coating) | SZT            |
| 1102060070B88D931T | M6  | 70     | 4.0    | 10.0   | 18     | 8.8                         | B (White zinc coating) | TYS            |
| 1102100140B88D931K | M10 | 140    | 6.4    | 17.0   | 32     | 8.8                         | B (White zinc coating) | KG             |
| 1102120110B88D931K | M12 | 110    | 7.5    | 19.0   | 30     | 8.8                         | B (White zinc coating) | KG             |
| 1102200140B88D931S | M20 | 140    | 12.5   | 30.0   | 48     | 8.8                         | B (White zinc coating) | SZT            |
| 1102120090B88D931K | M12 | 90     | 7.5    | 19.0   | 30     | 8.8                         | B (White zinc coating) | KG             |
| 1102160120B88D931K | M16 | 120    | 10.0   | 24.0   | 38     | 8.8                         | B (White zinc coating) | KG             |
| 1102200080B88D931S | M20 | 80     | 12.5   | 30.0   | 42     | 8.8                         | B (White zinc coating) | SZT            |
| 1102120120B88D931T | M12 | 120    | 7.5    | 19.0   | 30     | 8.8                         | B (White zinc coating) | TYS            |
| 1102120060B88D931K | M12 | 60     | 7.5    | 19.0   | 30     | 8.8                         | B (White zinc coating) | KG             |
| 1102080060B88D931K | M8  | 60     | 5.3    | 13.0   | 22     | 8.8                         | B (White zinc coating) | KG             |
| 1102080040B88D931K | M8  | 40     | 5.3    | 13.0   | 22     | 8.8                         | B (White zinc coating) | KG             |
| 1102100060B88D931K | M10 | 60     | 6.4    | 17.0   | 26     | 8.8                         | B (White zinc coating) | KG             |
| 1102080080B88D931K | M8  | 80     | 5.3    | 13.0   | 22     | 8.8                         | B (White zinc coating) | KG             |
| 1102100100B88D931K | M10 | 100    | 6.4    | 17.0   | 26     | 8.8                         | B (White zinc coating) | KG             |
| 1102100120B88D931K | M10 | 120    | 6.4    | 17.0   | 26     | 8.8                         | B (White zinc coating) | KG             |
| 1102100170B88D931K | M10 | 170    | 6.4    | 17.0   | 32     | 8.8                         | B (White zinc coating) | KG             |
| 1102060120B88D931K | M6  | 120    | 4.0    | 10.0   | 18     | 8.8                         | B (White zinc coating) | KG             |
| 1102160060B88D931K | M16 | 60     | 10.0   | 24.0   | 38     | 8.8                         | B (White zinc coating) | KG             |
| 1102100150B88D931S | M10 | 150    | 6.4    | 17.0   | 32     | 8.8                         | B (White zinc coating) | SZT            |
| 1102160150B88D931K | M16 | 150    | 10.0   | 24.0   | 44     | 8.8                         | B (White zinc coating) | KG             |
| 1102200150B88D931S | M20 | 150    | 12.5   | 30.0   | 48     | 8.8                         | B (White zinc coating) | SZT            |
| 1102240200B88D931S | M24 | 200    | 15.0   | 36.0   | 60     | 8.8                         | B (White zinc coating) | SZT            |
| 1102200140B88D931K | M20 | 140    | 12.5   | 30.0   | 48     | 8.8                         | B (White zinc coating) | KG             |
| 1102200090B88D931K | M20 | 90     | 12.5   | 30.0   | 42     | 8.8                         | B (White zinc coating) | KG             |
| 1102160150B88D931S | M16 | 150    | 10.0   | 24.0   | 44     | 8.8                         | B (White zinc coating) | SZT            |
| 1102240080B88D931S | M24 | 80     | 15.0   | 36.0   | 54     | 8.8                         | B (White zinc coating) | SZT            |
| 1102240120B88D931K | M24 | 120    | 15.0   | 36.0   | 54     | 8.8                         | B (White zinc coating) | KG             |

| Material index     | d   | L [mm] | k [mm] | s [mm] | b [mm] | Mechanical properties class | Type of coating        | Jednostka miar |
|--------------------|-----|--------|--------|--------|--------|-----------------------------|------------------------|----------------|
| 1102100090B88D931K | M10 | 90     | 6.4    | 17.0   | 26     | 8.8                         | B (White zinc coating) | KG             |
| 1102160120B88D931S | M16 | 120    | 10.0   | 24.0   | 38     | 8.8                         | B (White zinc coating) | SZT            |
| 1102180160B88D931S | M18 | 160    | 12.0   | 27.0   | 48     | 8.8                         | B (White zinc coating) | SZT            |
| 1102080070B88D931K | M8  | 70     | 5.3    | 13.0   | 22     | 8.8                         | B (White zinc coating) | KG             |
| 1102120140B88D931K | M12 | 140    | 7.5    | 19.0   | 36     | 8.8                         | B (White zinc coating) | KG             |
| 1102160060B88D931T | M16 | 60     | 10.0   | 24.0   | 38     | 8.8                         | B (White zinc coating) | TYS            |
| 1102060045B88D931K | M6  | 45     | 4.0    | 10.0   | 18     | 8.8                         | B (White zinc coating) | KG             |
| 1102120160B88D931S | M12 | 160    | 7.5    | 19.0   | 36     | 8.8                         | B (White zinc coating) | SZT            |
| 1102100070B88D931K | M10 | 70     | 6.4    | 17.0   | 26     | 8.8                         | B (White zinc coating) | KG             |
| 1102200120B88D931K | M20 | 120    | 12.5   | 30.0   | 42     | 8.8                         | B (White zinc coating) | KG             |
| 1102160070B88D931K | M16 | 70     | 10.0   | 24.0   | 38     | 8.8                         | B (White zinc coating) | KG             |
| 1102120050B88D931K | M12 | 50     | 7.5    | 19.0   | 30     | 8.8                         | B (White zinc coating) | KG             |
| 1102080110B88D931T | M8  | 110    | 5.3    | 13.0   | 22     | 8.8                         | B (White zinc coating) | TYS            |
| 1102160070B88D931T | M16 | 70     | 10.0   | 24.0   | 38     | 8.8                         | B (White zinc coating) | TYS            |
| 1102120160B88D931K | M12 | 160    | 7.5    | 19.0   | 36     | 8.8                         | B (White zinc coating) | KG             |
| 1102160100B88D931T | M16 | 100    | 10.0   | 24.0   | 38     | 8.8                         | B (White zinc coating) | TYS            |
| 1102160200B88D931S | M16 | 200    | 10.0   | 24.0   | 44     | 8.8                         | B (White zinc coating) | SZT            |
| 1102180100B88D931S | M18 | 100    | 12.0   | 27.0   | 42     | 8.8                         | B (White zinc coating) | SZT            |
| 1102200160B88D931S | M20 | 160    | 12.5   | 30.0   | 48     | 8.8                         | B (White zinc coating) | SZT            |
| 1102160160B88D931S | M16 | 160    | 10.0   | 24.0   | 44     | 8.8                         | B (White zinc coating) | SZT            |
| 1102180080B88D931S | M18 | 80     | 12.0   | 27.0   | 42     | 8.8                         | B (White zinc coating) | SZT            |
| 1102240100B88D931S | M24 | 100    | 15.0   | 36.0   | 54     | 8.8                         | B (White zinc coating) | SZT            |
| 1102160080B88D931T | M16 | 80     | 10.0   | 24.0   | 38     | 8.8                         | B (White zinc coating) | TYS            |
| 1102240090B88D931K | M24 | 90     | 15.0   | 36.0   | 54     | 8.8                         | B (White zinc coating) | KG             |
| 1102100110B88D931K | M10 | 110    | 6.4    | 17.0   | 26     | 8.8                         | B (White zinc coating) | KG             |
| 1102180070B88D931S | M18 | 70     | 12.0   | 27.0   | 42     | 8.8                         | B (White zinc coating) | SZT            |
| 1102080090B88D931K | M8  | 90     | 5.3    | 13.0   | 22     | 8.8                         | B (White zinc coating) | KG             |
| 1102160180B88D931K | M16 | 180    | 10.0   | 24.0   | 44     | 8.8                         | B (White zinc coating) | KG             |
| 1102060100B88D931T | M6  | 100    | 4.0    | 10.0   | 18     | 8.8                         | B (White zinc coating) | TYS            |
| 1102160050B88D931K | M16 | 50     | 10.0   | 24.0   | 38     | 8.8                         | B (White zinc coating) | KG             |
| 1102240180B88D931S | M24 | 180    | 15.0   | 36.0   | 60     | 8.8                         | B (White zinc coating) | SZT            |
| 1102140100B88D931K | M14 | 100    | 9.0    | 22.0   | 34     | 8.8                         | B (White zinc coating) | KG             |
| 1102200070B88D931K | M20 | 70     | 12.5   | 30.0   | 42     | 8.8                         | B (White zinc coating) | KG             |
| 1102200200B88D931S | M20 | 200    | 12.5   | 30.0   | 48     | 8.8                         | B (White zinc coating) | SZT            |
| 1102160050B88D931T | M16 | 50     | 10.0   | 24.0   | 38     | 8.8                         | B (White zinc coating) | TYS            |
| 1102160220B88D931S | M16 | 220    | 10.0   | 24.0   | 44     | 8.8                         | B (White zinc coating) | SZT            |
| 1102200130B88D931S | M20 | 130    | 12.5   | 30.0   | 48     | 8.8                         | B (White zinc coating) | SZT            |
| 1102100100B88D931T | M10 | 100    | 6.4    | 17.0   | 26     | 8.8                         | B (White zinc coating) | TYS            |
| 1102140090B88D931K | M14 | 90     | 9.0    | 22.0   | 34     | 8.8                         | B (White zinc coating) | KG             |

| Material index     | d   | L [mm] | k [mm] | s [mm] | b [mm] | Mechanical properties class | Type of coating        | Jednostka miar |
|--------------------|-----|--------|--------|--------|--------|-----------------------------|------------------------|----------------|
| 1102120055B88D931T | M12 | 55     | 7.5    | 19.0   | 30     | 8.8                         | B (White zinc coating) | TYS            |
| 1102300120B88D931S | M30 | 120    | 18.7   | 46.0   | 66     | 8.8                         | B (White zinc coating) | SZT            |
| 1102180140B88D931S | M18 | 140    | 12.0   | 27.0   | 48     | 8.8                         | B (White zinc coating) | SZT            |
| 1102200060B88D931K | M20 | 60     | 12.5   | 30.0   | 42     | 8.8                         | B (White zinc coating) | KG             |
| 1102120200B88D931S | M12 | 200    | 7.5    | 19.0   | 36     | 8.8                         | B (White zinc coating) | SZT            |
| 1102160090B88D931K | M16 | 90     | 10.0   | 24.0   | 38     | 8.8                         | B (White zinc coating) | KG             |
| 1102120120B88D931K | M12 | 120    | 7.5    | 19.0   | 30     | 8.8                         | B (White zinc coating) | KG             |
| 1102160160B88D931K | M16 | 160    | 10.0   | 24.0   | 44     | 8.8                         | B (White zinc coating) | KG             |
| 1102120150B88D931K | M12 | 150    | 7.5    | 19.0   | 36     | 8.8                         | B (White zinc coating) | KG             |
| 1102120180B88D931K | M12 | 180    | 7.5    | 19.0   | 36     | 8.8                         | B (White zinc coating) | KG             |
| 1102160110B88D931K | M16 | 110    | 10.0   | 24.0   | 38     | 8.8                         | B (White zinc coating) | KG             |
| 1102120100B88D931K | M12 | 100    | 7.5    | 19.0   | 30     | 8.8                         | B (White zinc coating) | KG             |
| 1102140140B88D931K | M14 | 140    | 9.0    | 22.0   | 40     | 8.8                         | B (White zinc coating) | KG             |
| 1102200180B88D931K | M20 | 180    | 12.5   | 30.0   | 48     | 8.8                         | B (White zinc coating) | KG             |
| 1102120140B88D931S | M12 | 140    | 7.5    | 19.0   | 36     | 8.8                         | B (White zinc coating) | SZT            |
| 1102200110B88D931K | M20 | 110    | 12.5   | 30.0   | 42     | 8.8                         | B (White zinc coating) | KG             |
| 1102160240B88D931S | M16 | 240    | 10.0   | 24.0   | 44     | 8.8                         | B (White zinc coating) | SZT            |
| 1102180090B88D931S | M18 | 90     | 12.0   | 27.0   | 42     | 8.8                         | B (White zinc coating) | SZT            |
| 1102100180B88D931S | M10 | 180    | 6.4    | 17.0   | 32     | 8.8                         | B (White zinc coating) | SZT            |
| 1102140050B88D931K | M14 | 50     | 9.0    | 22.0   | 34     | 8.8                         | B (White zinc coating) | KG             |
| 1102200100B88D931K | M20 | 100    | 12.5   | 30.0   | 42     | 8.8                         | B (White zinc coating) | KG             |
| 1102100080B88D931K | M10 | 80     | 6.4    | 17.0   | 26     | 8.8                         | B (White zinc coating) | KG             |
| 1102300200B88D931S | M30 | 200    | 18.7   | 46.0   | 72     | 8.8                         | B (White zinc coating) | SZT            |
| 1102100200B88D931S | M10 | 200    | 6.4    | 17.0   | 32     | 8.8                         | B (White zinc coating) | SZT            |
| 1102120100B88D931T | M12 | 100    | 7.5    | 19.0   | 30     | 8.8                         | B (White zinc coating) | TYS            |
| 1102300140B88D931S | M30 | 140    | 18.7   | 46.0   | 72     | 8.8                         | B (White zinc coating) | SZT            |
| 1102100140B88D931S | M10 | 140    | 6.4    | 17.0   | 32     | 8.8                         | B (White zinc coating) | SZT            |
| 1102240110B88D931S | M24 | 110    | 15.0   | 36.0   | 54     | 8.8                         | B (White zinc coating) | SZT            |
| 1102160140B88D931S | M16 | 140    | 10.0   | 24.0   | 44     | 8.8                         | B (White zinc coating) | SZT            |
| 1102200075B88D931K | M20 | 75     | 12.5   | 30.0   | 42     | 8.8                         | B (White zinc coating) | KG             |
| 1102080120B88D931K | M8  | 120    | 5.3    | 13.0   | 22     | 8.8                         | B (White zinc coating) | KG             |
| 1102100130B88D931S | M10 | 130    | 6.4    | 17.0   | 32     | 8.8                         | B (White zinc coating) | SZT            |
| 1102060090B58D931K | M6  | 90     | 4.0    | 10.0   | 18     | 5.8                         | B (White zinc coating) | KG             |
| 1102240120B58D931K | M24 | 120    | 15.0   | 36.0   | 54     | 5.8                         | B (White zinc coating) | KG             |
| 1102080060B58D931K | M8  | 60     | 5.3    | 13.0   | 22     | 5.8                         | B (White zinc coating) | KG             |
| 1102120090B58D931K | M12 | 90     | 7.5    | 19.0   | 30     | 5.8                         | B (White zinc coating) | KG             |
| 1102160090B58D931K | M16 | 90     | 10.0   | 24.0   | 38     | 5.8                         | B (White zinc coating) | KG             |
| 1102080065B58D931K | M8  | 65     | 5.3    | 13.0   | 22     | 5.8                         | B (White zinc coating) | KG             |
| 1102160055B58D931K | M16 | 55     | 10.0   | 24.0   | 38     | 5.8                         | B (White zinc coating) | KG             |

| Material index     | d   | L [mm] | k [mm] | s [mm] | b [mm] | Mechanical properties class | Type of coating        | Jednostka miar |
|--------------------|-----|--------|--------|--------|--------|-----------------------------|------------------------|----------------|
| 1102100050B58D931K | M10 | 50     | 6.4    | 17.0   | 26     | 5.8                         | B (White zinc coating) | KG             |
| 1102100060B58D931K | M10 | 60     | 6.4    | 17.0   | 26     | 5.8                         | B (White zinc coating) | KG             |
| 1102200120B58D931K | M20 | 120    | 12.5   | 30.0   | 42     | 5.8                         | B (White zinc coating) | KG             |
| 1102120150B58D931K | M12 | 150    | 7.5    | 19.0   | 36     | 5.8                         | B (White zinc coating) | KG             |
| 1102120200B58D931K | M12 | 200    | 7.5    | 19.0   | 36     | 5.8                         | B (White zinc coating) | KG             |
| 1102100100B58D931K | M10 | 100    | 6.4    | 17.0   | 26     | 5.8                         | B (White zinc coating) | KG             |
| 1102160080B58D931K | M16 | 80     | 10.0   | 24.0   | 38     | 5.8                         | B (White zinc coating) | KG             |
| 1102200180B58D931K | M20 | 180    | 12.5   | 30.0   | 48     | 5.8                         | B (White zinc coating) | KG             |
| 1102160060B58D931K | M16 | 60     | 10.0   | 24.0   | 38     | 5.8                         | B (White zinc coating) | KG             |
| 1102160140B58D931K | M16 | 140    | 10.0   | 24.0   | 44     | 5.8                         | B (White zinc coating) | KG             |
| 1102060070B58D931K | M6  | 70     | 4.0    | 10.0   | 18     | 5.8                         | B (White zinc coating) | KG             |
| 1102080100B58D931K | M8  | 100    | 5.3    | 13.0   | 22     | 5.8                         | B (White zinc coating) | KG             |
| 1102240100B58D931K | M24 | 100    | 15.0   | 36.0   | 54     | 5.8                         | B (White zinc coating) | KG             |
| 1102160200B58D931K | M16 | 200    | 10.0   | 24.0   | 44     | 5.8                         | B (White zinc coating) | KG             |
| 1102120120B58D931K | M12 | 120    | 7.5    | 19.0   | 30     | 5.8                         | B (White zinc coating) | KG             |
| 1102120080B58D931K | M12 | 80     | 7.5    | 19.0   | 30     | 5.8                         | B (White zinc coating) | KG             |
| 1102120100B58D931K | M12 | 100    | 7.5    | 19.0   | 30     | 5.8                         | B (White zinc coating) | KG             |
| 1102120180B58D931K | M12 | 180    | 7.5    | 19.0   | 36     | 5.8                         | B (White zinc coating) | KG             |
| 1102200060B58D931K | M20 | 60     | 12.5   | 30.0   | 42     | 5.8                         | B (White zinc coating) | KG             |
| 1102060040B58D931K | M6  | 40     | 4.0    | 10.0   | 18     | 5.8                         | B (White zinc coating) | KG             |
| 1102200160B58D931K | M20 | 160    | 12.5   | 30.0   | 48     | 5.8                         | B (White zinc coating) | KG             |
| 1102080130B58D931K | M8  | 130    | 5.3    | 13.0   | 22     | 5.8                         | B (White zinc coating) | KG             |
| 1102200220B58D931K | M20 | 220    | 12.5   | 30.0   | 48     | 5.8                         | B (White zinc coating) | KG             |
| 1102160050B58D931K | M16 | 50     | 10.0   | 24.0   | 38     | 5.8                         | B (White zinc coating) | KG             |
| 1102160130B58D931K | M16 | 130    | 10.0   | 24.0   | 44     | 5.8                         | B (White zinc coating) | KG             |
| 1102160150B58D931K | M16 | 150    | 10.0   | 24.0   | 44     | 5.8                         | B (White zinc coating) | KG             |
| 1102080150B58D931K | M8  | 150    | 5.3    | 13.0   | 22     | 5.8                         | B (White zinc coating) | KG             |
| 1102080050B58D931K | M8  | 50     | 5.3    | 13.0   | 22     | 5.8                         | B (White zinc coating) | KG             |
| 1102100140B58D931K | M10 | 140    | 6.4    | 17.0   | 32     | 5.8                         | B (White zinc coating) | KG             |
| 1102160180B58D931K | M16 | 180    | 10.0   | 24.0   | 44     | 5.8                         | B (White zinc coating) | KG             |
| 1102140100B58D931K | M14 | 100    | 9.0    | 22.0   | 34     | 5.8                         | B (White zinc coating) | KG             |
| 1102080075B58D931K | M8  | 75     | 5.3    | 13.0   | 22     | 5.8                         | B (White zinc coating) | KG             |
| 1102200100B58D931K | M20 | 100    | 12.5   | 30.0   | 42     | 5.8                         | B (White zinc coating) | KG             |
| 1102160120B58D931K | M16 | 120    | 10.0   | 24.0   | 38     | 5.8                         | B (White zinc coating) | KG             |
| 1102120070B58D931K | M12 | 70     | 7.5    | 19.0   | 30     | 5.8                         | B (White zinc coating) | KG             |
| 1102100130B58D931K | M10 | 130    | 6.4    | 17.0   | 32     | 5.8                         | B (White zinc coating) | KG             |
| 1102100070B58D931K | M10 | 70     | 6.4    | 17.0   | 26     | 5.8                         | B (White zinc coating) | KG             |
| 1102120130B58D931K | M12 | 130    | 7.5    | 19.0   | 36     | 5.8                         | B (White zinc coating) | KG             |
| 1102060060B58D931K | M6  | 60     | 4.0    | 10.0   | 18     | 5.8                         | B (White zinc coating) | KG             |

| Material index     | d   | L [mm] | k [mm] | s [mm] | b [mm] | Mechanical properties class | Type of coating        | Jednostka miar |
|--------------------|-----|--------|--------|--------|--------|-----------------------------|------------------------|----------------|
| 1102080080B58D931K | M8  | 80     | 5.3    | 13.0   | 22     | 5.8                         | B (White zinc coating) | KG             |
| 1102100120B58D931K | M10 | 120    | 6.4    | 17.0   | 26     | 5.8                         | B (White zinc coating) | KG             |
| 1102120060B58D931K | M12 | 60     | 7.5    | 19.0   | 30     | 5.8                         | B (White zinc coating) | KG             |
| 1102200070B58D931K | M20 | 70     | 12.5   | 30.0   | 42     | 5.8                         | B (White zinc coating) | KG             |
| 1102200080B58D931K | M20 | 80     | 12.5   | 30.0   | 42     | 5.8                         | B (White zinc coating) | KG             |
| 1102060100B58D931K | M6  | 100    | 4.0    | 10.0   | 18     | 5.8                         | B (White zinc coating) | KG             |
| 1102100150B58D931K | M10 | 150    | 6.4    | 17.0   | 32     | 5.8                         | B (White zinc coating) | KG             |
| 1102120050B58D931K | M12 | 50     | 7.5    | 19.0   | 30     | 5.8                         | B (White zinc coating) | KG             |
| 1102080045B58D931K | M8  | 45     | 5.3    | 13.0   | 22     | 5.8                         | B (White zinc coating) | KG             |
| 1102160070B58D931K | M16 | 70     | 10.0   | 24.0   | 38     | 5.8                         | B (White zinc coating) | KG             |
| 1102200240B58D931K | M20 | 240    | 12.5   | 30.0   | 48     | 5.8                         | B (White zinc coating) | KG             |
| 1102120160B58D931K | M12 | 160    | 7.5    | 19.0   | 36     | 5.8                         | B (White zinc coating) | KG             |
| 1102080090B58D931K | M8  | 90     | 5.3    | 13.0   | 22     | 5.8                         | B (White zinc coating) | KG             |
| 1102100110B58D931K | M10 | 110    | 6.4    | 17.0   | 26     | 5.8                         | B (White zinc coating) | KG             |
| 1102160160B58D931K | M16 | 160    | 10.0   | 24.0   | 44     | 5.8                         | B (White zinc coating) | KG             |
| 1102100080B58D931K | M10 | 80     | 6.4    | 17.0   | 26     | 5.8                         | B (White zinc coating) | KG             |
| 1102140080B58D931K | M14 | 80     | 9.0    | 22.0   | 34     | 5.8                         | B (White zinc coating) | KG             |
| 1102080070B58D931K | M8  | 70     | 5.3    | 13.0   | 22     | 5.8                         | B (White zinc coating) | KG             |
| 1102200140B58D931K | M20 | 140    | 12.5   | 30.0   | 48     | 5.8                         | B (White zinc coating) | KG             |
| 1102200170B58D931K | M20 | 170    | 12.5   | 30.0   | 48     | 5.8                         | B (White zinc coating) | KG             |
| 1102100160B58D931K | M10 | 160    | 6.4    | 17.0   | 32     | 5.8                         | B (White zinc coating) | KG             |
| 1102100090B58D931K | M10 | 90     | 6.4    | 17.0   | 26     | 5.8                         | B (White zinc coating) | KG             |
| 1102200200B58D931K | M20 | 200    | 12.5   | 30.0   | 48     | 5.8                         | B (White zinc coating) | KG             |
| 1102200090B58D931K | M20 | 90     | 12.5   | 30.0   | 42     | 5.8                         | B (White zinc coating) | KG             |
| 1102060050B58D931K | M6  | 50     | 4.0    | 10.0   | 18     | 5.8                         | B (White zinc coating) | KG             |
| 1102160100B58D931K | M16 | 100    | 10.0   | 24.0   | 38     | 5.8                         | B (White zinc coating) | KG             |
| 1102120140B58D931K | M12 | 140    | 7.5    | 19.0   | 36     | 5.8                         | B (White zinc coating) | KG             |
| 1102200150B58D931K | M20 | 150    | 12.5   | 30.0   | 48     | 5.8                         | B (White zinc coating) | KG             |
| 1102080120B58D931K | M8  | 120    | 5.3    | 13.0   | 22     | 5.8                         | B (White zinc coating) | KG             |
| 1102120110B58D931K | M12 | 110    | 7.5    | 19.0   | 30     | 5.8                         | B (White zinc coating) | KG             |
| 1102200110B58D931K | M20 | 110    | 12.5   | 30.0   | 42     | 5.8                         | B (White zinc coating) | KG             |
| 1102200130B58D931K | M20 | 130    | 12.5   | 30.0   | 48     | 5.8                         | B (White zinc coating) | KG             |
| 1102080140B58D931K | M8  | 140    | 5.3    | 13.0   | 22     | 5.8                         | B (White zinc coating) | KG             |
| 1102120075B58D931K | M12 | 75     | 7.5    | 19.0   | 30     | 5.8                         | B (White zinc coating) | KG             |
| 1102160110B58D931K | M16 | 110    | 10.0   | 24.0   | 38     | 5.8                         | B (White zinc coating) | KG             |
| 1102240110B58D931K | M24 | 110    | 15.0   | 36.0   | 54     | 5.8                         | B (White zinc coating) | KG             |