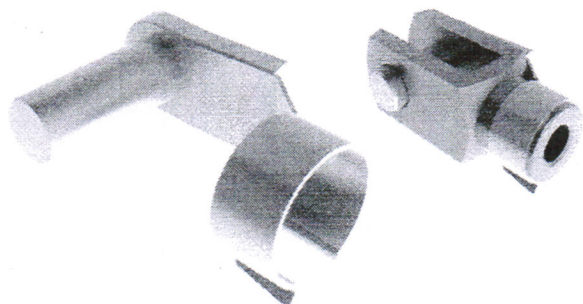
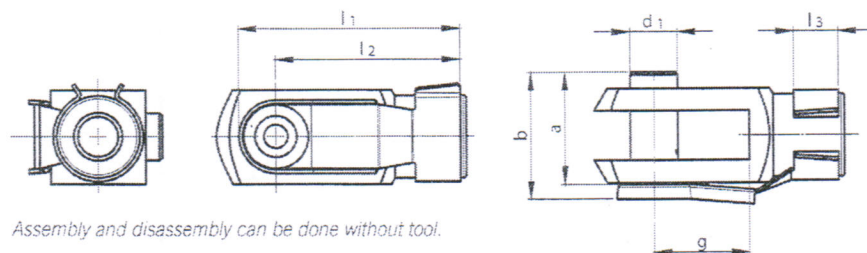




## folding spring bolts

order example: folding spring bolts G 8 x 16: FKB 8 x 16



Assembly and disassembly can be done without tool.

## materials

### bolt

- free-cutting steel 11SMnPb30+C or at the choice of the manufacturer

### spring

- hardened and tempered steel

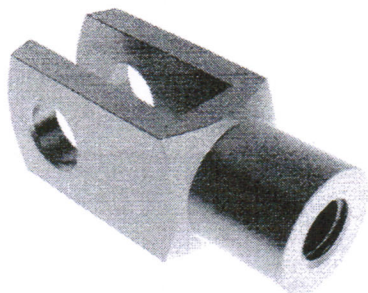
### surface

- unplated / phosphated and oiled
- zinc plated

| type<br>size | d <sub>1</sub> | g  | a   | b    | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | weight<br>approx.<br>kg per 1000 pcs. |
|--------------|----------------|----|-----|------|----------------|----------------|----------------|---------------------------------------|
| 4 x 8        | 4              | 8  | 9,5 | 11   | 18,5           | 15             | 4,5            | 1,5                                   |
| 5 x 10       | 5              | 10 | 12  | 13,5 | 23             | 19             | 5,5            | 2,6                                   |
| 5 x 20       | 5              | 20 | 12  | 13,5 | 33             | 29             | 5,5            | 3,1                                   |
| 6 x 12       | 6              | 12 | 14  | 16   | 28             | 23             | 6,5            | 4,6                                   |
| 6 x 24       | 6              | 24 | 14  | 16   | 40             | 35             | 6,5            | 5,2                                   |
| 8 x 16       | 8              | 16 | 19  | 21,5 | 37             | 30             | 8              | 10,6                                  |
| 8 x 32       | 8              | 32 | 19  | 21,5 | 52             | 46             | 8              | 11,6                                  |
| 10 x 20      | 10             | 20 | 23  | 26   | 46             | 38             | 10             | 19,4                                  |
| 10 x 40      | 10             | 40 | 23  | 26   | 66             | 58             | 10             | 20,5                                  |
| 12 x 24      | 12             | 24 | 28  | 31   | 53             | 45             | 12             | 33,1                                  |
| 12 x 48      | 12             | 48 | 28  | 31   | 78             | 69             | 12             | 35,0                                  |
| 14 x 28      | 14             | 28 | 31  | 34   | 62             | 52             | 14             | 47,2                                  |
| 14 x 56      | 14             | 56 | 31  | 34   | 92             | 82             | 14             | 50,8                                  |
| 16 x 32      | 16             | 32 | 36  | 39   | 73             | 62             | 16             | 69,4                                  |
| 16 x 64      | 16             | 64 | 36  | 39   | 103            | 92             | 16             | 74,4                                  |
| 20 x 40      | 20             | 40 | 45  | 50   | 87,5           | 71,5           | 19             | 130,0                                 |

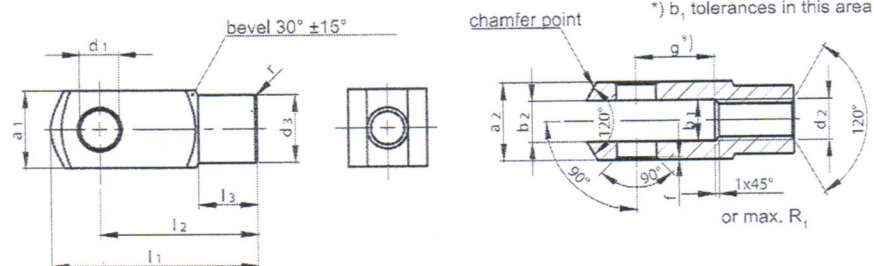
## optional features

- further special options available on request



order example: clevis DIN 71752 G 8 x 16 - M 8

Our clevises are also in accordance with DIN ISO 8140 except the chamfer point.



#### materials

- free-cutting steel 11SMnPb30+C or at the choice of the manufacturer
- stainless steel 1.4305
- stainless steel 1.4571 / 1.4404

#### surface

- unplated
- zinc plated

| type<br>size | d <sub>1</sub><br>H9 | g<br>±0,5 | a <sub>1</sub><br>D | a <sub>2</sub><br>+0,30<br>-0,16 | b <sub>1</sub><br>B13 | b <sub>2</sub> | d <sub>2</sub> | d <sub>3</sub><br>±0,3 | f<br>±0,2 | l <sub>1</sub><br>±0,5 | l <sub>2</sub> | l <sub>3</sub><br>±0,2 | r<br>±0,2 | weight<br>approx.<br>kg per piece |
|--------------|----------------------|-----------|---------------------|----------------------------------|-----------------------|----------------|----------------|------------------------|-----------|------------------------|----------------|------------------------|-----------|-----------------------------------|
| G 4 x 8      | 4                    | 8         | 8                   | 4                                |                       |                | M 4            | 8                      | 0,5       | 21                     | 16             | 6                      | 0,5       | 0,005                             |
| G 4 x 16     | 4                    | 16        | 8                   | 4                                |                       |                | M 4            | 8                      | 0,5       | 29                     | 24             | 6                      | 0,5       | 0,007                             |
| G 5 x 10     | 5                    | 10        | 10                  | 5                                |                       |                | M 5            | 9                      | 0,5       | 26                     | 20             | 7,5                    | 0,5       | 0,009                             |
| G 5 x 20     | 5                    | 20        | 10                  | 5                                |                       |                | M 5            | 9                      | 0,5       | 36                     | 30             | 7,5                    | 0,5       | 0,013                             |
| G 6 x 12     | 6                    | 12        | 12                  | 6                                |                       |                | M 6            | 10                     | 0,5       | 31                     | 24             | 9                      | 0,5       | 0,015                             |
| G 6 x 24     | 6                    | 24        | 12                  | 6                                |                       |                | M 6            | 10                     | 0,5       | 43                     | 36             | 9                      | 0,5       | 0,021                             |
| G 8 x 16     | 8                    | 16        | 16                  | 8                                |                       | B13            | M 8            | 14                     | 0,5       | 42                     | 32             | 12                     | 0,5       | 0,037                             |
| G 8 x 16 FG  | 8                    | 16        | 16                  | 8                                |                       |                | M 8 x 1        | 14                     | 0,5       | 42                     | 32             | 12                     | 0,5       | 0,037                             |
| G 8 x 32     | 8                    | 32        | 16                  | 8                                |                       |                | M 8            | 14                     | 0,5       | 58                     | 48             | 12                     | 0,5       | 0,054                             |
| G 8 x 32 FG  | 8                    | 32        | 16                  | 8                                |                       |                | M 8 x 1        | 14                     | 0,5       | 58                     | 48             | 12                     | 0,5       | 0,054                             |
| G 10 x 20    | 10                   | 20        | 20                  | 10                               |                       |                | M 10           | 18                     | 0,5       | 52                     | 40             | 15                     | 0,5       | 0,074                             |
| G 10 x 20 FG | 10                   | 20        | 20                  | 10                               |                       |                | M 10 x 1,25    | 18                     | 0,5       | 52                     | 40             | 15                     | 0,5       | 0,074                             |
| G 10 x 40    | 10                   | 40        | 20                  | 10                               |                       |                | M 10           | 18                     | 0,5       | 72                     | 60             | 15                     | 0,5       | 0,116                             |
| G 10 x 40 FG | 10                   | 40        | 20                  | 10                               |                       |                | M 10 x 1,25    | 18                     | 0,5       | 72                     | 60             | 15                     | 0,5       | 0,116                             |
| G 12 x 24    | 12                   | 24        | 24                  | 12                               |                       |                | M 12           | 20                     | 0,5       | 62                     | 48             | 18                     | 0,5       | 0,121                             |
| G 12 x 24 FG | 12                   | 24        | 24                  | 12                               |                       |                | M 12 x 1,25    | 20                     | 0,5       | 62                     | 48             | 18                     | 0,5       | 0,121                             |
| G 12 x 48    | 12                   | 48        | 24                  | 12                               |                       |                | M 12           | 20                     | 0,5       | 86                     | 72             | 18                     | 0,5       | 0,175                             |
| G 12 x 48 FG | 12                   | 48        | 24                  | 12                               |                       |                | M 12 x 1,25    | 20                     | 0,5       | 86                     | 72             | 18                     | 0,5       | 0,175                             |
| G 14 x 28    | 14                   | 28        | 27                  | 14                               |                       | +0,7<br>+0,15  | M 14           | 24                     | 1,0       | 72                     | 56             | 22,5                   | 1,0       | 0,178                             |
| G 14 x 28 FG | 14                   | 28        | 27                  | 14                               |                       |                | M 14 x 1,5     | 24                     | 1,0       | 72                     | 56             | 22,5                   | 1,0       | 0,178                             |
| G 14 x 56    | 14                   | 56        | 27                  | 14                               |                       |                | M 14           | 24                     | 1,0       | 101                    | 85             | 22,5                   | 1,0       | 0,258                             |
| G 14 x 56 FG | 14                   | 56        | 27                  | 14                               |                       |                | M 14 x 1,5     | 24                     | 1,0       | 101                    | 85             | 22,5                   | 1,0       | 0,258                             |
| G 16 x 32    | 16                   | 32        | 32                  | 16                               |                       |                | M 16           | 26                     | 1,0       | 83                     | 64             | 24                     | 1,0       | 0,282                             |
| G 16 x 32 FG | 16                   | 32        | 32                  | 16                               |                       |                | M 16 x 1,5     | 26                     | 1,0       | 83                     | 64             | 24                     | 1,0       | 0,282                             |
| G 16 x 64    | 16                   | 64        | 32                  | 16                               |                       |                | M 16           | 26                     | 1,0       | 115                    | 96             | 24                     | 1,0       | 0,411                             |
| G 16 x 64 FG | 16                   | 64        | 32                  | 16                               |                       |                | M 16 x 1,5     | 26                     | 1,0       | 115                    | 96             | 24                     | 1,0       | 0,411                             |

remarks:

<sup>1)</sup> dimensional tolerance half-finished product h11 acc. DIN 178

<sup>2)</sup> radius or 45° chamfer (at the choice of the manufacturer)

FG = fine-pitch thread