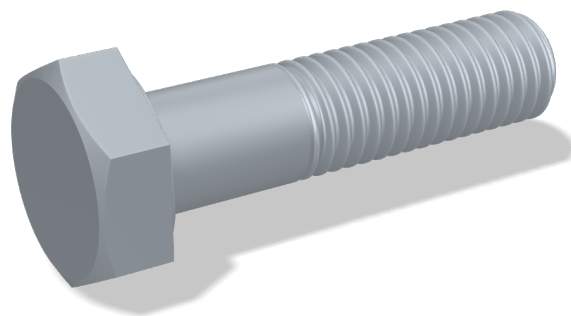


## Hex Head Bolt DIN 931 / ISO 4014 - Steel 8.8, Hot-dip galvanized

Hex Head Bolt to DIN 931 / ISO 4014, in the sizes, grades and finishes listed.



### TECHNICAL DATA

#### Dimensions

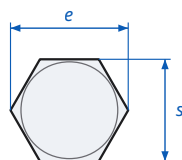
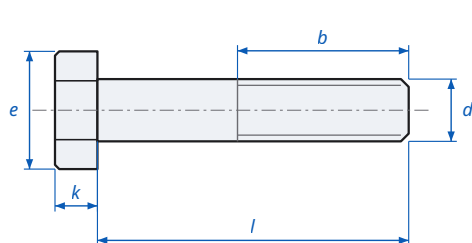
|             |                   |
|-------------|-------------------|
| Thread form | Metric ISO thread |
|-------------|-------------------|

#### Materials & Finish

|            |                  |
|------------|------------------|
| Head type  | Hexagon          |
| Drive type | External hexagon |

|                        |                    |
|------------------------|--------------------|
| Property class / grade | 8.8                |
| Material               | Steel              |
| Surface finish         | Hot-dip galvanized |

### DIMENSIONS



|   |                          |
|---|--------------------------|
| d | Thread diameter          |
| l | Length                   |
| b | Thread length            |
| k | Head height              |
| s | Width across flats (WAF) |
| e | Width across corners     |

Hex Head Bolt DIN 931 / ISO 4014 - dimensions

### AVAILABLE PART NUMBERS

| Part number   | Size (d) | Length (l) | Thread pitch | Width across flats (s) | Width across corners (e) | Head height (k) | Thread length (b) | Weight |
|---------------|----------|------------|--------------|------------------------|--------------------------|-----------------|-------------------|--------|
| FBH02G8H06020 | M6       | 20 mm      | 1 mm         | 10 mm                  | 11.05 mm                 | 4 mm            | 18 mm             | 5.92 g |
| FBH02G8H06025 | M6       | 25 mm      | 1 mm         | 10 mm                  | 11.05 mm                 | 4 mm            | 18 mm             | 6.99 g |
| FBH02G8H06030 | M6       | 30 mm      | 1 mm         | 10 mm                  | 11.05 mm                 | 4 mm            | 18 mm             | 8.06 g |
| FBH02G8H06035 | M6       | 35 mm      | 1 mm         | 10 mm                  | 11.05 mm                 | 4 mm            | 18 mm             | 9.13 g |
| FBH02G8H06040 | M6       | 40 mm      | 1 mm         | 10 mm                  | 11.05 mm                 | 4 mm            | 18 mm             | 10.2 g |
| FBH02G8H08025 | M8       | 25 mm      | 1.25 mm      | 13 mm                  | 14.38 mm                 | 5.3 mm          | 22 mm             | 14 g   |
| FBH02G8H08030 | M8       | 30 mm      | 1.25 mm      | 13 mm                  | 14.38 mm                 | 5.3 mm          | 22 mm             | 16.1 g |
| FBH02G8H08035 | M8       | 35 mm      | 1.25 mm      | 13 mm                  | 14.38 mm                 | 5.3 mm          | 22 mm             | 18.2 g |



| Part number   | Size (d) | Length (l) | Thread pitch | Width across flats (s) | Width across corners (e) | Head height (k) | Thread length (b) | Weight |
|---------------|----------|------------|--------------|------------------------|--------------------------|-----------------|-------------------|--------|
| FBH02G8H08040 | M8       | 40 mm      | 1.25 mm      | 13 mm                  | 14.38 mm                 | 5.3 mm          | 22 mm             | 20.3 g |
| FBH02G8H08045 | M8       | 45 mm      | 1.25 mm      | 13 mm                  | 14.38 mm                 | 5.3 mm          | 22 mm             | 22.2 g |
| FBH02G8H08050 | M8       | 50 mm      | 1.25 mm      | 13 mm                  | 14.38 mm                 | 5.3 mm          | 22 mm             | 24.2 g |
| FBH02G8H08055 | M8       | 55 mm      | 1.25 mm      | 13 mm                  | 14.38 mm                 | 5.3 mm          | 22 mm             | 25.8 g |
| FBH02G8H08060 | M8       | 60 mm      | 1.25 mm      | 13 mm                  | 14.38 mm                 | 5.3 mm          | 22 mm             | 27.8 g |
| FBH02G8H08065 | M8       | 65 mm      | 1.25 mm      | 13 mm                  | 14.38 mm                 | 5.3 mm          | 22 mm             | 29.8 g |
| FBH02G8H08070 | M8       | 70 mm      | 1.25 mm      | 13 mm                  | 14.38 mm                 | 5.3 mm          | 22 mm             | 31.8 g |
| FBH02G8H08075 | M8       | 75 mm      | 1.25 mm      | 13 mm                  | 14.38 mm                 | 5.3 mm          | 22 mm             | 33.7 g |
| FBH02G8H08080 | M8       | 80 mm      | 1.25 mm      | 13 mm                  | 14.38 mm                 | 5.3 mm          | 22 mm             | 35.7 g |
| FBH02G8H08085 | M8       | 85 mm      | 1.25 mm      | 13 mm                  | 14.38 mm                 | 5.3 mm          | 22 mm             | 37.7 g |
| FBH02G8H08090 | M8       | 90 mm      | 1.25 mm      | 13 mm                  | 14.38 mm                 | 5.3 mm          | 22 mm             | 39.7 g |
| FBH02G8H08100 | M8       | 100 mm     | 1.25 mm      | 13 mm                  | 14.38 mm                 | 5.3 mm          | 22 mm             | 43.7 g |
| FBH02G8H08110 | M8       | 110 mm     | 1.25 mm      | 13 mm                  | 14.38 mm                 | 5.3 mm          | 22 mm             | 47.7 g |
| FBH02G8H08120 | M8       | 120 mm     | 1.25 mm      | 13 mm                  | 14.38 mm                 | 5.3 mm          | 22 mm             | 51.7 g |
| FBH02G8H08130 | M8       | 130 mm     | 1.25 mm      | 13 mm                  | 14.38 mm                 | 5.3 mm          | 28 mm             | 55.7 g |
| FBH02G8H08140 | M8       | 140 mm     | 1.25 mm      | 13 mm                  | 14.38 mm                 | 5.3 mm          | 28 mm             | 59.7 g |
| FBH02G8H08150 | M8       | 150 mm     | 1.25 mm      | 13 mm                  | 14.38 mm                 | 5.3 mm          | 28 mm             | 63.7 g |
| FBH02G8H08160 | M8       | 160 mm     | 1.25 mm      | 13 mm                  | 14.38 mm                 | 5.3 mm          | 28 mm             | 67.7 g |
| FBH02G8H08170 | M8       | 170 mm     | 1.25 mm      | 13 mm                  | 14.38 mm                 | 5.3 mm          | 28 mm             | 71.7 g |
| FBH02G8H08180 | M8       | 180 mm     | 1.25 mm      | 13 mm                  | 14.38 mm                 | 5.3 mm          | 28 mm             | 75.7 g |
| FBH05G8H10040 | M10      | 40 mm      | 1.5 mm       | 17 mm                  | 18.9 mm                  | 6.4 mm          | 26 mm             | 35 g   |
| FBH04G8H10040 | M10      | 40 mm      | 1.5 mm       | 16 mm                  | 17.77 mm                 | 6.4 mm          | 26 mm             | 35 g   |
| FBH05G8H10045 | M10      | 45 mm      | 1.5 mm       | 17 mm                  | 18.9 mm                  | 6.4 mm          | 26 mm             | 38 g   |
| FBH04G8H10045 | M10      | 45 mm      | 1.5 mm       | 16 mm                  | 17.77 mm                 | 6.4 mm          | 26 mm             | 38 g   |
| FBH05G8H10050 | M10      | 50 mm      | 1.5 mm       | 17 mm                  | 18.9 mm                  | 6.4 mm          | 26 mm             | 41.1 g |
| FBH04G8H10050 | M10      | 50 mm      | 1.5 mm       | 16 mm                  | 17.77 mm                 | 6.4 mm          | 26 mm             | 41.1 g |
| FBH05G8H10055 | M10      | 55 mm      | 1.5 mm       | 17 mm                  | 18.9 mm                  | 6.4 mm          | 26 mm             | 43.8 g |
| FBH04G8H10055 | M10      | 55 mm      | 1.5 mm       | 16 mm                  | 17.77 mm                 | 6.4 mm          | 26 mm             | 43.8 g |
| FBH05G8H10060 | M10      | 60 mm      | 1.5 mm       | 17 mm                  | 18.9 mm                  | 6.4 mm          | 26 mm             | 46.9 g |
| FBH04G8H10060 | M10      | 60 mm      | 1.5 mm       | 16 mm                  | 17.77 mm                 | 6.4 mm          | 26 mm             | 46.9 g |
| FBH05G8H10065 | M10      | 65 mm      | 1.5 mm       | 17 mm                  | 18.9 mm                  | 6.4 mm          | 26 mm             | 50 g   |
| FBH04G8H10065 | M10      | 65 mm      | 1.5 mm       | 16 mm                  | 17.77 mm                 | 6.4 mm          | 26 mm             | 50 g   |
| FBH05G8H10070 | M10      | 70 mm      | 1.5 mm       | 17 mm                  | 18.9 mm                  | 6.4 mm          | 26 mm             | 53.1 g |
| FBH04G8H10070 | M10      | 70 mm      | 1.5 mm       | 16 mm                  | 17.77 mm                 | 6.4 mm          | 26 mm             | 53.1 g |
| FBH05G8H10075 | M10      | 75 mm      | 1.5 mm       | 17 mm                  | 18.9 mm                  | 6.4 mm          | 26 mm             | 56.2 g |
| FBH04G8H10075 | M10      | 75 mm      | 1.5 mm       | 16 mm                  | 17.77 mm                 | 6.4 mm          | 26 mm             | 56.2 g |
| FBH05G8H10080 | M10      | 80 mm      | 1.5 mm       | 17 mm                  | 18.9 mm                  | 6.4 mm          | 26 mm             | 59.3 g |



| Part number   | Size (d) | Length (l) | Thread pitch | Width across flats (s) | Width across corners (e) | Head height (k) | Thread length (b) | Weight  |
|---------------|----------|------------|--------------|------------------------|--------------------------|-----------------|-------------------|---------|
| FBH04G8H10080 | M10      | 80 mm      | 1.5 mm       | 16 mm                  | 17.77 mm                 | 6.4 mm          | 26 mm             | 59.3 g  |
| FBH05G8H10090 | M10      | 90 mm      | 1.5 mm       | 17 mm                  | 18.9 mm                  | 6.4 mm          | 26 mm             | 65.5 g  |
| FBH04G8H10090 | M10      | 90 mm      | 1.5 mm       | 16 mm                  | 17.77 mm                 | 6.4 mm          | 26 mm             | 65.5 g  |
| FBH05G8H10100 | M10      | 100 mm     | 1.5 mm       | 17 mm                  | 18.9 mm                  | 6.4 mm          | 26 mm             | 71.7 g  |
| FBH04G8H10100 | M10      | 100 mm     | 1.5 mm       | 16 mm                  | 17.77 mm                 | 6.4 mm          | 26 mm             | 71.7 g  |
| FBH05G8H10110 | M10      | 110 mm     | 1.5 mm       | 17 mm                  | 18.9 mm                  | 6.4 mm          | 26 mm             | 77.9 g  |
| FBH04G8H10110 | M10      | 110 mm     | 1.5 mm       | 16 mm                  | 17.77 mm                 | 6.4 mm          | 26 mm             | 77.9 g  |
| FBH05G8H10120 | M10      | 120 mm     | 1.5 mm       | 17 mm                  | 18.9 mm                  | 6.4 mm          | 26 mm             | 84.1 g  |
| FBH04G8H10120 | M10      | 120 mm     | 1.5 mm       | 16 mm                  | 17.77 mm                 | 6.4 mm          | 26 mm             | 84.1 g  |
| FBH05G8H10130 | M10      | 130 mm     | 1.5 mm       | 17 mm                  | 18.9 mm                  | 6.4 mm          | 32 mm             | 90.3 g  |
| FBH04G8H10130 | M10      | 130 mm     | 1.5 mm       | 16 mm                  | 17.77 mm                 | 6.4 mm          | 32 mm             | 90.3 g  |
| FBH05G8H10140 | M10      | 140 mm     | 1.5 mm       | 17 mm                  | 18.9 mm                  | 6.4 mm          | 32 mm             | 96.5 g  |
| FBH04G8H10140 | M10      | 140 mm     | 1.5 mm       | 16 mm                  | 17.77 mm                 | 6.4 mm          | 32 mm             | 96.5 g  |
| FBH05G8H10150 | M10      | 150 mm     | 1.5 mm       | 17 mm                  | 18.9 mm                  | 6.4 mm          | 32 mm             | 102.7 g |
| FBH04G8H10150 | M10      | 150 mm     | 1.5 mm       | 16 mm                  | 17.77 mm                 | 6.4 mm          | 32 mm             | 102.7 g |
| FBH05G8H10160 | M10      | 160 mm     | 1.5 mm       | 17 mm                  | 18.9 mm                  | 6.4 mm          | 32 mm             | 108.9 g |
| FBH04G8H10160 | M10      | 160 mm     | 1.5 mm       | 16 mm                  | 17.77 mm                 | 6.4 mm          | 32 mm             | 108.9 g |
| FBH05G8H10170 | M10      | 170 mm     | 1.5 mm       | 17 mm                  | 18.9 mm                  | 6.4 mm          | 32 mm             | 115.1 g |
| FBH04G8H10170 | M10      | 170 mm     | 1.5 mm       | 16 mm                  | 17.77 mm                 | 6.4 mm          | 32 mm             | 115.1 g |
| FBH05G8H10180 | M10      | 180 mm     | 1.5 mm       | 17 mm                  | 18.9 mm                  | 6.4 mm          | 32 mm             | 121.3 g |
| FBH04G8H10180 | M10      | 180 mm     | 1.5 mm       | 16 mm                  | 17.77 mm                 | 6.4 mm          | 32 mm             | 121.3 g |
| FBH05G8H10200 | M10      | 200 mm     | 1.5 mm       | 17 mm                  | 18.9 mm                  | 6.4 mm          | 32 mm             | 133.7 g |
| FBH04G8H10200 | M10      | 200 mm     | 1.5 mm       | 16 mm                  | 17.77 mm                 | 6.4 mm          | 32 mm             | 133.7 g |
| FBH05G8H10210 | M10      | 210 mm     | 1.5 mm       | 17 mm                  | 18.9 mm                  | 6.4 mm          | 45 mm             | 139.9 g |
| FBH04G8H10210 | M10      | 210 mm     | 1.5 mm       | 16 mm                  | 17.77 mm                 | 6.4 mm          | 45 mm             | 139.9 g |
| FBH05G8H10220 | M10      | 220 mm     | 1.5 mm       | 17 mm                  | 18.9 mm                  | 6.4 mm          | 45 mm             | 146.1 g |
| FBH04G8H10220 | M10      | 220 mm     | 1.5 mm       | 16 mm                  | 17.77 mm                 | 6.4 mm          | 45 mm             | 146.1 g |
| FBH05G8H10240 | M10      | 240 mm     | 1.5 mm       | 17 mm                  | 18.9 mm                  | 6.4 mm          | 45 mm             | 158.5 g |
| FBH04G8H10240 | M10      | 240 mm     | 1.5 mm       | 16 mm                  | 17.77 mm                 | 6.4 mm          | 45 mm             | 158.5 g |
| FBH05G8H12045 | M12      | 45 mm      | 1.75 mm      | 19 mm                  | 21.1 mm                  | 7.5 mm          | 30 mm             | 53.6 g  |
| FBH04G8H12045 | M12      | 45 mm      | 1.75 mm      | 18 mm                  | 20.03 mm                 | 7.5 mm          | 30 mm             | 53.6 g  |
| FBH05G8H12050 | M12      | 50 mm      | 1.75 mm      | 19 mm                  | 21.1 mm                  | 7.5 mm          | 30 mm             | 58.1 g  |
| FBH04G8H12050 | M12      | 50 mm      | 1.75 mm      | 18 mm                  | 20.03 mm                 | 7.5 mm          | 30 mm             | 58.1 g  |
| FBH05G8H12055 | M12      | 55 mm      | 1.75 mm      | 19 mm                  | 21.1 mm                  | 7.5 mm          | 30 mm             | 62.6 g  |
| FBH04G8H12055 | M12      | 55 mm      | 1.75 mm      | 18 mm                  | 20.03 mm                 | 7.5 mm          | 30 mm             | 62.6 g  |
| FBH05G8H12060 | M12      | 60 mm      | 1.75 mm      | 19 mm                  | 21.1 mm                  | 7.5 mm          | 30 mm             | 67 g    |
| FBH04G8H12060 | M12      | 60 mm      | 1.75 mm      | 18 mm                  | 20.03 mm                 | 7.5 mm          | 30 mm             | 67 g    |



| Part number   | Size<br>(d) | Length<br>(l) | Thread<br>pitch | Width across flats<br>(s) | Width across corners<br>(e) | Head height<br>(k) | Thread length<br>(b) | Weight |
|---------------|-------------|---------------|-----------------|---------------------------|-----------------------------|--------------------|----------------------|--------|
| FBH05G8H12065 | M12         | 65 mm         | 1.75 mm         | 19 mm                     | 21.1 mm                     | 7.5 mm             | 30 mm                | 70.3 g |
| FBH04G8H12065 | M12         | 65 mm         | 1.75 mm         | 18 mm                     | 20.03 mm                    | 7.5 mm             | 30 mm                | 70.3 g |
| FBH05G8H12070 | M12         | 70 mm         | 1.75 mm         | 19 mm                     | 21.1 mm                     | 7.5 mm             | 30 mm                | 74.7 g |
| FBH04G8H12070 | M12         | 70 mm         | 1.75 mm         | 18 mm                     | 20.03 mm                    | 7.5 mm             | 30 mm                | 74.7 g |
| FBH05G8H12075 | M12         | 75 mm         | 1.75 mm         | 19 mm                     | 21.1 mm                     | 7.5 mm             | 30 mm                | 79.1 g |
| FBH04G8H12075 | M12         | 75 mm         | 1.75 mm         | 18 mm                     | 20.03 mm                    | 7.5 mm             | 30 mm                | 79.1 g |
| FBH05G8H12080 | M12         | 80 mm         | 1.75 mm         | 19 mm                     | 21.1 mm                     | 7.5 mm             | 30 mm                | 83.6 g |
| FBH04G8H12080 | M12         | 80 mm         | 1.75 mm         | 18 mm                     | 20.03 mm                    | 7.5 mm             | 30 mm                | 83.6 g |
| FBH05G8H12090 | M12         | 90 mm         | 1.75 mm         | 19 mm                     | 21.1 mm                     | 7.5 mm             | 30 mm                | 92.4 g |
| FBH04G8H12090 | M12         | 90 mm         | 1.75 mm         | 18 mm                     | 20.03 mm                    | 7.5 mm             | 30 mm                | 92.4 g |
| FBH05G8H12100 | M12         | 100 mm        | 1.75 mm         | 19 mm                     | 21.1 mm                     | 7.5 mm             | 30 mm                | 101 g  |
| FBH04G8H12100 | M12         | 100 mm        | 1.75 mm         | 18 mm                     | 20.03 mm                    | 7.5 mm             | 30 mm                | 101 g  |
| FBH05G8H12110 | M12         | 110 mm        | 1.75 mm         | 19 mm                     | 21.1 mm                     | 7.5 mm             | 30 mm                | 109 g  |
| FBH04G8H12110 | M12         | 110 mm        | 1.75 mm         | 18 mm                     | 20.03 mm                    | 7.5 mm             | 30 mm                | 109 g  |
| FBH05G8H12120 | M12         | 120 mm        | 1.75 mm         | 19 mm                     | 21.1 mm                     | 7.5 mm             | 30 mm                | 118 g  |
| FBH04G8H12120 | M12         | 120 mm        | 1.75 mm         | 18 mm                     | 20.03 mm                    | 7.5 mm             | 30 mm                | 118 g  |
| FBH05G8H12130 | M12         | 130 mm        | 1.75 mm         | 19 mm                     | 21.1 mm                     | 7.5 mm             | 36 mm                | 127 g  |
| FBH04G8H12130 | M12         | 130 mm        | 1.75 mm         | 18 mm                     | 20.03 mm                    | 7.5 mm             | 36 mm                | 127 g  |
| FBH05G8H12140 | M12         | 140 mm        | 1.75 mm         | 19 mm                     | 21.1 mm                     | 7.5 mm             | 36 mm                | 136 g  |
| FBH04G8H12140 | M12         | 140 mm        | 1.75 mm         | 18 mm                     | 20.03 mm                    | 7.5 mm             | 36 mm                | 136 g  |
| FBH05G8H12150 | M12         | 150 mm        | 1.75 mm         | 19 mm                     | 21.1 mm                     | 7.5 mm             | 36 mm                | 145 g  |
| FBH04G8H12150 | M12         | 150 mm        | 1.75 mm         | 18 mm                     | 20.03 mm                    | 7.5 mm             | 36 mm                | 145 g  |
| FBH05G8H12160 | M12         | 160 mm        | 1.75 mm         | 19 mm                     | 21.1 mm                     | 7.5 mm             | 36 mm                | 154 g  |
| FBH04G8H12160 | M12         | 160 mm        | 1.75 mm         | 18 mm                     | 20.03 mm                    | 7.5 mm             | 36 mm                | 154 g  |
| FBH05G8H12170 | M12         | 170 mm        | 1.75 mm         | 19 mm                     | 21.1 mm                     | 7.5 mm             | 36 mm                | 163 g  |
| FBH04G8H12170 | M12         | 170 mm        | 1.75 mm         | 18 mm                     | 20.03 mm                    | 7.5 mm             | 36 mm                | 163 g  |
| FBH05G8H12180 | M12         | 180 mm        | 1.75 mm         | 19 mm                     | 21.1 mm                     | 7.5 mm             | 36 mm                | 172 g  |
| FBH04G8H12180 | M12         | 180 mm        | 1.75 mm         | 18 mm                     | 20.03 mm                    | 7.5 mm             | 36 mm                | 172 g  |
| FBH05G8H12190 | M12         | 190 mm        | 1.75 mm         | 19 mm                     | 21.1 mm                     | 7.5 mm             | 36 mm                | 181 g  |
| FBH04G8H12190 | M12         | 190 mm        | 1.75 mm         | 18 mm                     | 20.03 mm                    | 7.5 mm             | 36 mm                | 181 g  |
| FBH05G8H12200 | M12         | 200 mm        | 1.75 mm         | 19 mm                     | 21.1 mm                     | 7.5 mm             | 36 mm                | 190 g  |
| FBH04G8H12200 | M12         | 200 mm        | 1.75 mm         | 18 mm                     | 20.03 mm                    | 7.5 mm             | 36 mm                | 190 g  |
| FBH05G8H12220 | M12         | 220 mm        | 1.75 mm         | 19 mm                     | 21.1 mm                     | 7.5 mm             | 49 mm                | 208 g  |
| FBH04G8H12220 | M12         | 220 mm        | 1.75 mm         | 18 mm                     | 20.03 mm                    | 7.5 mm             | 49 mm                | 208 g  |
| FBH05G8H12240 | M12         | 240 mm        | 1.75 mm         | 19 mm                     | 21.1 mm                     | 7.5 mm             | 49 mm                | 226 g  |
| FBH04G8H12240 | M12         | 240 mm        | 1.75 mm         | 18 mm                     | 20.03 mm                    | 7.5 mm             | 49 mm                | 226 g  |
| FBH05G8H12260 | M12         | 260 mm        | 1.75 mm         | 19 mm                     | 21.1 mm                     | 7.5 mm             | 49 mm                | 244 g  |



| Part number   | Size (d) | Length (l) | Thread pitch | Width across flats (s) | Width across corners (e) | Head height (k) | Thread length (b) | Weight |
|---------------|----------|------------|--------------|------------------------|--------------------------|-----------------|-------------------|--------|
| FBH04G8H12260 | M12      | 260 mm     | 1.75 mm      | 18 mm                  | 20.03 mm                 | 7.5 mm          | 49 mm             | 244 g  |
| FBH05G8H12280 | M12      | 280 mm     | 1.75 mm      | 19 mm                  | 21.1 mm                  | 7.5 mm          | 49 mm             | 262 g  |
| FBH04G8H12280 | M12      | 280 mm     | 1.75 mm      | 18 mm                  | 20.03 mm                 | 7.5 mm          | 49 mm             | 262 g  |
| FBH05G8H12300 | M12      | 300 mm     | 1.75 mm      | 19 mm                  | 21.1 mm                  | 7.5 mm          | 49 mm             | 280 g  |
| FBH04G8H12300 | M12      | 300 mm     | 1.75 mm      | 18 mm                  | 20.03 mm                 | 7.5 mm          | 49 mm             | 280 g  |
| FBH05G8H12320 | M12      | 320 mm     | 1.75 mm      | 19 mm                  | 21.1 mm                  | 7.5 mm          | 49 mm             | 298 g  |
| FBH04G8H12320 | M12      | 320 mm     | 1.75 mm      | 18 mm                  | 20.03 mm                 | 7.5 mm          | 49 mm             | 298 g  |
| FBH05G8H12340 | M12      | 340 mm     | 1.75 mm      | 19 mm                  | 21.1 mm                  | 7.5 mm          | 49 mm             | 316 g  |
| FBH04G8H12340 | M12      | 340 mm     | 1.75 mm      | 18 mm                  | 20.03 mm                 | 7.5 mm          | 49 mm             | 316 g  |
| FBH05G8H12360 | M12      | 360 mm     | 1.75 mm      | 19 mm                  | 21.1 mm                  | 7.5 mm          | 49 mm             | 334 g  |
| FBH04G8H12360 | M12      | 360 mm     | 1.75 mm      | 18 mm                  | 20.03 mm                 | 7.5 mm          | 49 mm             | 334 g  |
| FBH05G8H12380 | M12      | 380 mm     | 1.75 mm      | 19 mm                  | 21.1 mm                  | 7.5 mm          | 49 mm             | 352 g  |
| FBH04G8H12380 | M12      | 380 mm     | 1.75 mm      | 18 mm                  | 20.03 mm                 | 7.5 mm          | 49 mm             | 352 g  |
| FBH05G8H12400 | M12      | 400 mm     | 1.75 mm      | 19 mm                  | 21.1 mm                  | 7.5 mm          | 49 mm             | 370 g  |
| FBH04G8H12400 | M12      | 400 mm     | 1.75 mm      | 18 mm                  | 20.03 mm                 | 7.5 mm          | 49 mm             | 370 g  |
| FBH05G8H14050 | M14      | 50 mm      | 2 mm         | 22 mm                  | 24.49 mm                 | 8.8 mm          | 34 mm             | 82 g   |
| FBH04G8H14050 | M14      | 50 mm      | 2 mm         | 21 mm                  | 23.36 mm                 | 8.8 mm          | 34 mm             | 82 g   |
| FBH05G8H14055 | M14      | 55 mm      | 2 mm         | 22 mm                  | 24.49 mm                 | 8.8 mm          | 34 mm             | 88.1 g |
| FBH04G8H14055 | M14      | 55 mm      | 2 mm         | 21 mm                  | 23.36 mm                 | 8.8 mm          | 34 mm             | 88.1 g |
| FBH05G8H14060 | M14      | 60 mm      | 2 mm         | 22 mm                  | 24.49 mm                 | 8.8 mm          | 34 mm             | 94.1 g |
| FBH04G8H14060 | M14      | 60 mm      | 2 mm         | 21 mm                  | 23.36 mm                 | 8.8 mm          | 34 mm             | 94.1 g |
| FBH05G8H14065 | M14      | 65 mm      | 2 mm         | 22 mm                  | 24.49 mm                 | 8.8 mm          | 34 mm             | 98.8 g |
| FBH04G8H14065 | M14      | 65 mm      | 2 mm         | 21 mm                  | 23.36 mm                 | 8.8 mm          | 34 mm             | 98.8 g |
| FBH05G8H14070 | M14      | 70 mm      | 2 mm         | 22 mm                  | 24.49 mm                 | 8.8 mm          | 34 mm             | 105 g  |
| FBH04G8H14070 | M14      | 70 mm      | 2 mm         | 21 mm                  | 23.36 mm                 | 8.8 mm          | 34 mm             | 105 g  |
| FBH05G8H14080 | M14      | 80 mm      | 2 mm         | 22 mm                  | 24.49 mm                 | 8.8 mm          | 34 mm             | 117 g  |
| FBH04G8H14080 | M14      | 80 mm      | 2 mm         | 21 mm                  | 23.36 mm                 | 8.8 mm          | 34 mm             | 117 g  |
| FBH05G8H14090 | M14      | 90 mm      | 2 mm         | 22 mm                  | 24.49 mm                 | 8.8 mm          | 34 mm             | 127 g  |
| FBH04G8H14090 | M14      | 90 mm      | 2 mm         | 21 mm                  | 23.36 mm                 | 8.8 mm          | 34 mm             | 127 g  |
| FBH05G8H14100 | M14      | 100 mm     | 2 mm         | 22 mm                  | 24.49 mm                 | 8.8 mm          | 34 mm             | 139 g  |
| FBH04G8H14100 | M14      | 100 mm     | 2 mm         | 21 mm                  | 23.36 mm                 | 8.8 mm          | 34 mm             | 139 g  |
| FBH05G8H14120 | M14      | 120 mm     | 2 mm         | 22 mm                  | 24.49 mm                 | 8.8 mm          | 34 mm             | 164 g  |
| FBH04G8H14120 | M14      | 120 mm     | 2 mm         | 21 mm                  | 23.36 mm                 | 8.8 mm          | 34 mm             | 164 g  |
| FBH05G8H14150 | M14      | 150 mm     | 2 mm         | 22 mm                  | 24.49 mm                 | 8.8 mm          | 40 mm             | 196 g  |
| FBH04G8H14150 | M14      | 150 mm     | 2 mm         | 21 mm                  | 23.36 mm                 | 8.8 mm          | 40 mm             | 196 g  |
| FBH02G8H16040 | M16      | 40 mm      | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 38 mm             | 91 g   |
| FBH02G8H16045 | M16      | 45 mm      | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 38 mm             | 99 g   |



| Part number   | Size (d) | Length (l) | Thread pitch | Width across flats (s) | Width across corners (e) | Head height (k) | Thread length (b) | Weight |
|---------------|----------|------------|--------------|------------------------|--------------------------|-----------------|-------------------|--------|
| FBH02G8H16050 | M16      | 50 mm      | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 38 mm             | 107 g  |
| FBH02G8H16055 | M16      | 55 mm      | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 38 mm             | 115 g  |
| FBH02G8H16060 | M16      | 60 mm      | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 38 mm             | 123 g  |
| FBH02G8H16065 | M16      | 65 mm      | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 38 mm             | 131 g  |
| FBH02G8H16070 | M16      | 70 mm      | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 38 mm             | 139 g  |
| FBH02G8H16075 | M16      | 75 mm      | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 38 mm             | 147 g  |
| FBH02G8H16080 | M16      | 80 mm      | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 38 mm             | 155 g  |
| FBH02G8H16085 | M16      | 85 mm      | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 38 mm             | 163 g  |
| FBH02G8H16090 | M16      | 90 mm      | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 38 mm             | 171 g  |
| FBH02G8H16100 | M16      | 100 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 38 mm             | 186 g  |
| FBH02G8H16110 | M16      | 110 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 38 mm             | 202 g  |
| FBH02G8H16120 | M16      | 120 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 38 mm             | 218 g  |
| FBH02G8H16130 | M16      | 130 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 44 mm             | 230 g  |
| FBH02G8H16140 | M16      | 140 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 44 mm             | 246 g  |
| FBH02G8H16150 | M16      | 150 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 44 mm             | 262 g  |
| FBH02G8H16160 | M16      | 160 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 44 mm             | 278 g  |
| FBH02G8H16170 | M16      | 170 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 44 mm             | 294 g  |
| FBH02G8H16180 | M16      | 180 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 44 mm             | 310 g  |
| FBH02G8H16190 | M16      | 190 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 44 mm             | 326 g  |
| FBH02G8H16200 | M16      | 200 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 44 mm             | 342 g  |
| FBH02G8H16220 | M16      | 220 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 57 mm             | 374 g  |
| FBH02G8H16240 | M16      | 240 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 57 mm             | 406 g  |
| FBH02G8H16250 | M16      | 250 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 57 mm             | 422 g  |
| FBH02G8H16260 | M16      | 260 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 57 mm             | 438 g  |
| FBH02G8H16280 | M16      | 280 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 57 mm             | 470 g  |
| FBH02G8H16300 | M16      | 300 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 57 mm             | 502 g  |
| FBH02G8H16320 | M16      | 320 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 57 mm             | 534 g  |
| FBH02G8H16325 | M16      | 325 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 57 mm             | 542 g  |
| FBH02G8H16340 | M16      | 340 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 57 mm             | 566 g  |
| FBH02G8H16350 | M16      | 350 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 57 mm             | 582 g  |
| FBH02G8H16360 | M16      | 360 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 57 mm             | 598 g  |
| FBH02G8H18070 | M18      | 70 mm      | 2.5 mm       | 27 mm                  | 30.14 mm                 | 11.5 mm         | 42 mm             | 181 g  |
| FBH02G8H18080 | M18      | 80 mm      | 2.5 mm       | 27 mm                  | 30.14 mm                 | 11.5 mm         | 42 mm             | 200 g  |
| FBH02G8H18090 | M18      | 90 mm      | 2.5 mm       | 27 mm                  | 30.14 mm                 | 11.5 mm         | 42 mm             | 220 g  |
| FBH02G8H18100 | M18      | 100 mm     | 2.5 mm       | 27 mm                  | 30.14 mm                 | 11.5 mm         | 42 mm             | 240 g  |
| FBH02G8H18120 | M18      | 120 mm     | 2.5 mm       | 27 mm                  | 30.14 mm                 | 11.5 mm         | 42 mm             | 280 g  |
| FBH02G8H18140 | M18      | 140 mm     | 2.5 mm       | 27 mm                  | 30.14 mm                 | 11.5 mm         | 48 mm             | 316 g  |



| Part number   | Size (d) | Length (l) | Thread pitch | Width across flats (s) | Width across corners (e) | Head height (k) | Thread length (b) | Weight |
|---------------|----------|------------|--------------|------------------------|--------------------------|-----------------|-------------------|--------|
| FBH02G8H20050 | M20      | 50 mm      | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 46 mm             | 183 g  |
| FBH02G8H20055 | M20      | 55 mm      | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 46 mm             | 195 g  |
| FBH02G8H20060 | M20      | 60 mm      | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 46 mm             | 207 g  |
| FBH02G8H20065 | M20      | 65 mm      | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 46 mm             | 219 g  |
| FBH02G8H20070 | M20      | 70 mm      | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 46 mm             | 231 g  |
| FBH02G8H20075 | M20      | 75 mm      | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 46 mm             | 243 g  |
| FBH02G8H20080 | M20      | 80 mm      | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 46 mm             | 255 g  |
| FBH02G8H20085 | M20      | 85 mm      | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 46 mm             | 267 g  |
| FBH02G8H20090 | M20      | 90 mm      | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 46 mm             | 279 g  |
| FBH02G8H20100 | M20      | 100 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 46 mm             | 303 g  |
| FBH02G8H20110 | M20      | 110 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 46 mm             | 327 g  |
| FBH02G8H20120 | M20      | 120 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 46 mm             | 351 g  |
| FBH02G8H20130 | M20      | 130 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 52 mm             | 374 g  |
| FBH02G8H20140 | M20      | 140 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 52 mm             | 398 g  |
| FBH02G8H20150 | M20      | 150 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 52 mm             | 422 g  |
| FBH02G8H20160 | M20      | 160 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 52 mm             | 446 g  |
| FBH02G8H20170 | M20      | 170 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 52 mm             | 470 g  |
| FBH02G8H20180 | M20      | 180 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 52 mm             | 494 g  |
| FBH02G8H20190 | M20      | 190 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 52 mm             | 519 g  |
| FBH02G8H20200 | M20      | 200 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 52 mm             | 544 g  |
| FBH02G8H20210 | M20      | 210 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 65 mm             | 569 g  |
| FBH02G8H20220 | M20      | 220 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 65 mm             | 594 g  |
| FBH02G8H20240 | M20      | 240 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 65 mm             | 644 g  |
| FBH02G8H20250 | M20      | 250 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 65 mm             | 669 g  |
| FBH02G8H20260 | M20      | 260 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 65 mm             | 694 g  |
| FBH02G8H20280 | M20      | 280 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 65 mm             | 744 g  |
| FBH02G8H20300 | M20      | 300 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 65 mm             | 794 g  |
| FBH02G8H20320 | M20      | 320 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 65 mm             | 844 g  |
| FBH02G8H20340 | M20      | 340 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 65 mm             | 894 g  |
| FBH02G8H20350 | M20      | 350 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 65 mm             | 919 g  |
| FBH02G8H20360 | M20      | 360 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 65 mm             | 944 g  |
| FBH02G8H20380 | M20      | 380 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 65 mm             | 994 g  |
| FBH02G8H20400 | M20      | 400 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 65 mm             | 1044 g |
| FBH05G8H22080 | M22      | 80 mm      | 2.5 mm       | 32 mm                  | 35.72 mm                 | 14 mm           | 50 mm             | 311 g  |
| FBH04G8H22080 | M22      | 80 mm      | 2.5 mm       | 34 mm                  | 37.72 mm                 | 14 mm           | 50 mm             | 311 g  |
| FBH05G8H22090 | M22      | 90 mm      | 2.5 mm       | 32 mm                  | 35.72 mm                 | 14 mm           | 50 mm             | 341 g  |
| FBH04G8H22090 | M22      | 90 mm      | 2.5 mm       | 34 mm                  | 37.72 mm                 | 14 mm           | 50 mm             | 341 g  |



| Part number   | Size (d) | Length (l) | Thread pitch | Width across flats (s) | Width across corners (e) | Head height (k) | Thread length (b) | Weight   |
|---------------|----------|------------|--------------|------------------------|--------------------------|-----------------|-------------------|----------|
| FBH05G8H22180 | M22      | 180 mm     | 2.5 mm       | 32 mm                  | 35.72 mm                 | 14 mm           | 56 mm             | 600 g    |
| FBH04G8H22180 | M22      | 180 mm     | 2.5 mm       | 34 mm                  | 37.72 mm                 | 14 mm           | 56 mm             | 600 g    |
| FBH02G8H24055 | M24      | 55 mm      | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 54 mm             | 302 g    |
| FBH02G8H24060 | M24      | 60 mm      | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 54 mm             | 320 g    |
| FBH02G8H24065 | M24      | 65 mm      | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 54 mm             | 338 g    |
| FBH02G8H24070 | M24      | 70 mm      | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 54 mm             | 356 g    |
| FBH02G8H24075 | M24      | 75 mm      | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 54 mm             | 374 g    |
| FBH02G8H24080 | M24      | 80 mm      | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 54 mm             | 392 g    |
| FBH02G8H24085 | M24      | 85 mm      | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 54 mm             | 410 g    |
| FBH02G8H24090 | M24      | 90 mm      | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 54 mm             | 428 g    |
| FBH02G8H24095 | M24      | 95 mm      | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 54 mm             | 446 g    |
| FBH02G8H24100 | M24      | 100 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 54 mm             | 464 g    |
| FBH02G8H24110 | M24      | 110 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 54 mm             | 500 g    |
| FBH02G8H24120 | M24      | 120 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 54 mm             | 535 g    |
| FBH02G8H24130 | M24      | 130 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 60 mm             | 560 g    |
| FBH02G8H24140 | M24      | 140 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 60 mm             | 595 g    |
| FBH02G8H24150 | M24      | 150 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 60 mm             | 630 g    |
| FBH02G8H24160 | M24      | 160 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 60 mm             | 665 g    |
| FBH02G8H24170 | M24      | 170 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 60 mm             | 700 g    |
| FBH02G8H24180 | M24      | 180 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 60 mm             | 735 g    |
| FBH02G8H24200 | M24      | 200 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 60 mm             | 805 g    |
| FBH02G8H24220 | M24      | 220 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 73 mm             | 870 g    |
| FBH02G8H24240 | M24      | 240 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 73 mm             | 935 g    |
| FBH02G8H24260 | M24      | 260 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 73 mm             | 1000 g   |
| FBH02G8H24280 | M24      | 280 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 73 mm             | 1065 g   |
| FBH02G8H24300 | M24      | 300 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 73 mm             | 1130 g   |
| FBH02G8H24320 | M24      | 320 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 73 mm             | 1195 g   |
| FBH02G8H24340 | M24      | 340 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 73 mm             | 1260 g   |
| FBH02G8H24360 | M24      | 360 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 73 mm             | 1325 g   |
| FBH02G8H24380 | M24      | 380 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 73 mm             | 1390 g   |
| FBH02G8H24400 | M24      | 400 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 73 mm             | 1455 g   |
| FBH02G8H27065 | M27      | 65 mm      | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 60 mm             | 448.88 g |
| FBH02G8H27070 | M27      | 70 mm      | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 60 mm             | 471.35 g |
| FBH02G8H27080 | M27      | 80 mm      | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 60 mm             | 516.29 g |
| FBH02G8H27090 | M27      | 90 mm      | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 60 mm             | 561.24 g |
| FBH02G8H27100 | M27      | 100 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 60 mm             | 606.18 g |
| FBH02G8H27110 | M27      | 110 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 60 mm             | 651.13 g |



| Part number   | Size (d) | Length (l) | Thread pitch | Width across flats (s) | Width across corners (e) | Head height (k) | Thread length (b) | Weight    |
|---------------|----------|------------|--------------|------------------------|--------------------------|-----------------|-------------------|-----------|
| FBH02G8H27120 | M27      | 120 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 60 mm             | 696.08 g  |
| FBH02G8H27130 | M27      | 130 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 66 mm             | 741.02 g  |
| FBH02G8H27140 | M27      | 140 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 66 mm             | 785.97 g  |
| FBH02G8H27150 | M27      | 150 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 66 mm             | 830.91 g  |
| FBH02G8H27160 | M27      | 160 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 66 mm             | 875.86 g  |
| FBH02G8H27180 | M27      | 180 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 66 mm             | 965.75 g  |
| FBH02G8H27200 | M27      | 200 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 66 mm             | 1055.64 g |
| FBH02G8H27260 | M27      | 260 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 79 mm             | 1325.31 g |
| FBH02G8H30070 | M30      | 70 mm      | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 66 mm             | 604 g     |
| FBH02G8H30080 | M30      | 80 mm      | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 66 mm             | 658 g     |
| FBH02G8H30090 | M30      | 90 mm      | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 66 mm             | 712 g     |
| FBH02G8H30100 | M30      | 100 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 66 mm             | 767 g     |
| FBH02G8H30110 | M30      | 110 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 66 mm             | 823 g     |
| FBH02G8H30120 | M30      | 120 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 66 mm             | 880 g     |
| FBH02G8H30130 | M30      | 130 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 72 mm             | 920 g     |
| FBH02G8H30140 | M30      | 140 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 72 mm             | 975 g     |
| FBH02G8H30150 | M30      | 150 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 72 mm             | 1030 g    |
| FBH02G8H30160 | M30      | 160 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 72 mm             | 1085 g    |
| FBH02G8H30170 | M30      | 170 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 72 mm             | 1140 g    |
| FBH02G8H30180 | M30      | 180 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 72 mm             | 1200 g    |
| FBH02G8H30190 | M30      | 190 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 72 mm             | 1250 g    |
| FBH02G8H30200 | M30      | 200 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 72 mm             | 1310 g    |
| FBH02G8H30220 | M30      | 220 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 85 mm             | 1420 g    |
| FBH02G8H30240 | M30      | 240 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 85 mm             | 1530 g    |
| FBH02G8H30260 | M30      | 260 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 85 mm             | 1640 g    |
| FBH02G8H30270 | M30      | 270 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 85 mm             | 1695 g    |
| FBH02G8H30280 | M30      | 280 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 85 mm             | 1750 g    |
| FBH02G8H30290 | M30      | 290 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 85 mm             | 1805 g    |
| FBH02G8H30300 | M30      | 300 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 85 mm             | 1860 g    |
| FBH02G8H33120 | M33      | 120 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 72 mm             | 1098.25 g |
| FBH02G8H33130 | M33      | 130 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 78 mm             | 1165.39 g |
| FBH02G8H33140 | M33      | 140 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 78 mm             | 1232.53 g |
| FBH02G8H33150 | M33      | 150 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 78 mm             | 1299.67 g |
| FBH02G8H33160 | M33      | 160 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 78 mm             | 1366.81 g |
| FBH02G8H33180 | M33      | 180 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 78 mm             | 1501.09 g |
| FBH02G8H33200 | M33      | 200 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 78 mm             | 1635.37 g |
| FBH02G8H36080 | M36      | 80 mm      | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 78 mm             | 1000 g    |



| Part number   | Size (d) | Length (l) | Thread pitch | Width across flats (s) | Width across corners (e) | Head height (k) | Thread length (b) | Weight    |
|---------------|----------|------------|--------------|------------------------|--------------------------|-----------------|-------------------|-----------|
| FBH02G8H36090 | M36      | 90 mm      | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 78 mm             | 1080 g    |
| FBH02G8H36100 | M36      | 100 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 78 mm             | 1160 g    |
| FBH02G8H36120 | M36      | 120 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 78 mm             | 1320 g    |
| FBH02G8H36130 | M36      | 130 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 84 mm             | 1390 g    |
| FBH02G8H36140 | M36      | 140 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 84 mm             | 1470 g    |
| FBH02G8H36150 | M36      | 150 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 84 mm             | 1550 g    |
| FBH02G8H36160 | M36      | 160 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 84 mm             | 1630 g    |
| FBH02G8H36170 | M36      | 170 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 84 mm             | 1710 g    |
| FBH02G8H36180 | M36      | 180 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 84 mm             | 1790 g    |
| FBH02G8H36190 | M36      | 190 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 84 mm             | 1870 g    |
| FBH02G8H36200 | M36      | 200 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 84 mm             | 1950 g    |
| FBH02G8H36220 | M36      | 220 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 97 mm             | 2110 g    |
| FBH02G8H36240 | M36      | 240 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 97 mm             | 2270 g    |
| FBH02G8H36260 | M36      | 260 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 97 mm             | 2430 g    |
| FBH02G8H36280 | M36      | 280 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 97 mm             | 2590 g    |
| FBH02G8H36300 | M36      | 300 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 97 mm             | 2750 g    |
| FBH02G8H36480 | M36      | 480 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 97 mm             | 4190 g    |
| FBH02G8H36520 | M36      | 520 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 97 mm             | 4510 g    |
| FBH02G8H36550 | M36      | 550 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 97 mm             | 4750 g    |
| FBH02G8H39130 | M39      | 130 mm     | 4 mm         | 60 mm                  | 66.44 mm                 | 25 mm           | 90 mm             | 1729.4 g  |
| FBH02G8H39160 | M39      | 160 mm     | 4 mm         | 60 mm                  | 66.44 mm                 | 25 mm           | 90 mm             | 2010.73 g |
| FBH02G8H42100 | M42      | 100 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | –                 | 1702.78 g |
| FBH02G8H42110 | M42      | 110 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | –                 | 1811.54 g |
| FBH02G8H42120 | M42      | 120 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | –                 | 1920.29 g |
| FBH02G8H42130 | M42      | 130 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 96 mm             | 2029.05 g |
| FBH02G8H42140 | M42      | 140 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 96 mm             | 2137.81 g |
| FBH02G8H42150 | M42      | 150 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 96 mm             | 2246.56 g |
| FBH02G8H42160 | M42      | 160 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 96 mm             | 2355.32 g |
| FBH02G8H42170 | M42      | 170 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 96 mm             | 2464.08 g |
| FBH02G8H42180 | M42      | 180 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 96 mm             | 2572.84 g |
| FBH02G8H42190 | M42      | 190 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 96 mm             | 2681.59 g |
| FBH02G8H42200 | M42      | 200 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 96 mm             | 2790.35 g |
| FBH02G8H42220 | M42      | 220 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 109 mm            | 3007.86 g |
| FBH02G8H42230 | M42      | 230 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 109 mm            | 3116.62 g |
| FBH02G8H42240 | M42      | 240 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 109 mm            | 3225.38 g |
| FBH02G8H42245 | M42      | 245 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 109 mm            | 3279.76 g |



| Part number   | Size (d) | Length (l) | Thread pitch | Width across flats (s) | Width across corners (e) | Head height (k) | Thread length (b) | Weight    |
|---------------|----------|------------|--------------|------------------------|--------------------------|-----------------|-------------------|-----------|
| FBH02G8H42260 | M42      | 260 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 109 mm            | 3442.89 g |
| FBH02G8H42270 | M42      | 270 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 109 mm            | 3551.65 g |
| FBH02G8H42280 | M42      | 280 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 109 mm            | 3660.41 g |
| FBH02G8H42300 | M42      | 300 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 109 mm            | 3877.92 g |
| FBH02G8H42320 | M42      | 320 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 109 mm            | 4095.44 g |
| FBH02G8H42350 | M42      | 350 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 109 mm            | 4421.71 g |
| FBH02G8H42375 | M42      | 375 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 109 mm            | 4693.6 g  |
| FBH02G8H42400 | M42      | 400 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 109 mm            | 4965.49 g |
| FBH02G8H42425 | M42      | 425 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 109 mm            | 5237.39 g |
| FBH02G8H42450 | M42      | 450 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 109 mm            | 5509.28 g |
| FBH02G8H42475 | M42      | 475 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 109 mm            | 5781.17 g |
| FBH02G8H45190 | M45      | 190 mm     | 4.5 mm       | 70 mm                  | 76.95 mm                 | 28 mm           | 102 mm            | 3154.11 g |

Part numbers: 352

## STANDARDS & CERTIFICATES

### Standards

**DIN 931** – Hex Head Bolt

**ISO 4014** – Hex Head Bolt

