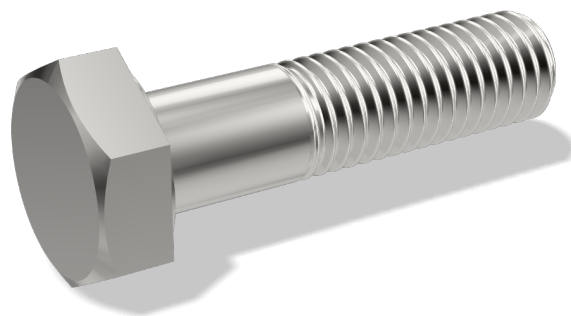


## Hex Head Bolt DIN 931 / ISO 4014 - Stainless steel A2, Plain

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



### TECHNICAL DATA

#### General

|                 |                    |
|-----------------|--------------------|
| <b>Standard</b> | DIN 931 / ISO 4014 |
|-----------------|--------------------|

#### Dimensions

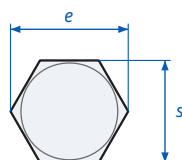
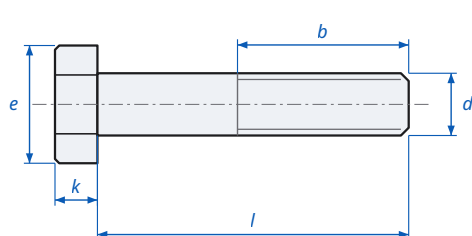
|                    |                   |
|--------------------|-------------------|
| <b>Thread form</b> | Metric ISO thread |
|--------------------|-------------------|

#### Materials & Finish

|                  |         |
|------------------|---------|
| <b>Head type</b> | Hexagon |
|------------------|---------|

|                               |                  |
|-------------------------------|------------------|
| <b>Drive type</b>             | External hexagon |
| <b>Property class / grade</b> | A2 stainless     |
| <b>Material</b>               | Stainless steel  |
| <b>Surface finish</b>         | Plain            |

### DIMENSIONS



|          |                          |
|----------|--------------------------|
| <b>d</b> | Thread diameter          |
| <b>l</b> | Length                   |
| <b>b</b> | Thread length            |
| <b>k</b> | Head height              |
| <b>s</b> | Width across flats (WAF) |
| <b>e</b> | 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    |
|---------------|----------|------------|--------------|------------------------|--------------------------|-----------------|-------------------|-----------|
| FBH02A2P27070 | M27      | 70 mm      | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 60 mm             | 476.064 g |
| FBH02A2P27075 | M27      | 75 mm      | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 60 mm             | 498.758 g |
| FBH02A2P27080 | M27      | 80 mm      | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 60 mm             | 521.453 g |
| FBH02A2P27085 | M27      | 85 mm      | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 60 mm             | 544.158 g |
| FBH02A2P27090 | M27      | 90 mm      | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 60 mm             | 566.852 g |
| FBH02A2P27095 | M27      | 95 mm      | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 60 mm             | 589.547 g |



| Part number   | Size (d) | Length (l) | Thread pitch | Width across flats (s) | Width across corners (e) | Head height (k) | Thread length (b) | Weight     |
|---------------|----------|------------|--------------|------------------------|--------------------------|-----------------|-------------------|------------|
| FBH02A2P27100 | M27      | 100 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 60 mm             | 612.242 g  |
| FBH02A2P27110 | M27      | 110 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 60 mm             | 657.641 g  |
| FBH02A2P27120 | M27      | 120 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 60 mm             | 703.041 g  |
| FBH02A2P27130 | M27      | 130 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 66 mm             | 748.43 g   |
| FBH02A2P27140 | M27      | 140 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 66 mm             | 793.83 g   |
| FBH02A2P27150 | M27      | 150 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 66 mm             | 839.219 g  |
| FBH02A2P27160 | M27      | 160 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 66 mm             | 884.619 g  |
| FBH02A2P27170 | M27      | 170 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 66 mm             | 930.008 g  |
| FBH02A2P27180 | M27      | 180 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 66 mm             | 975.408 g  |
| FBH02A2P27190 | M27      | 190 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 66 mm             | 1020.797 g |
| FBH02A2P27200 | M27      | 200 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 66 mm             | 1066.196 g |
| FBH02A2P27210 | M27      | 210 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 79 mm             | 1111.596 g |
| FBH02A2P27220 | M27      | 220 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 79 mm             | 1156.985 g |
| FBH02A2P27230 | M27      | 230 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 79 mm             | 1202.385 g |
| FBH02A2P27240 | M27      | 240 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 79 mm             | 1247.774 g |
| FBH02A2P27250 | M27      | 250 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 79 mm             | 1293.174 g |
| FBH02A2P27260 | M27      | 260 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 79 mm             | 1338.563 g |
| FBH02A2P27270 | M27      | 270 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 79 mm             | 1383.963 g |
| FBH02A2P27280 | M27      | 280 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 79 mm             | 1429.362 g |
| FBH02A2P27290 | M27      | 290 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 79 mm             | 1474.752 g |
| FBH02A2P27300 | M27      | 300 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 79 mm             | 1520.151 g |
| FBH02A2P30080 | M30      | 80 mm      | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 66 mm             | 664.58 g   |
| FBH02A2P30085 | M30      | 85 mm      | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 66 mm             | 691.85 g   |
| FBH02A2P30090 | M30      | 90 mm      | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 66 mm             | 719.12 g   |
| FBH02A2P30095 | M30      | 95 mm      | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 66 mm             | 746.39 g   |
| FBH02A2P30100 | M30      | 100 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 66 mm             | 774.67 g   |
| FBH02A2P30110 | M30      | 110 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 66 mm             | 831.23 g   |
| FBH02A2P30120 | M30      | 120 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 66 mm             | 888.8 g    |
| FBH02A2P30130 | M30      | 130 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 72 mm             | 929.2 g    |
| FBH02A2P30140 | M30      | 140 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 72 mm             | 984.75 g   |
| FBH02A2P30150 | M30      | 150 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 72 mm             | 1040.3 g   |
| FBH02A2P30160 | M30      | 160 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 72 mm             | 1095.85 g  |
| FBH02A2P30170 | M30      | 170 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 72 mm             | 1151.4 g   |
| FBH02A2P30180 | M30      | 180 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 72 mm             | 1212 g     |
| FBH02A2P30190 | M30      | 190 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 72 mm             | 1262.5 g   |
| FBH02A2P30200 | M30      | 200 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 72 mm             | 1323.1 g   |
| FBH02A2P30210 | M30      | 210 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 85 mm             | 1378.65 g  |



| Part number   | Size (d) | Length (l) | Thread pitch | Width across flats (s) | Width across corners (e) | Head height (k) | Thread length (b) | Weight     |
|---------------|----------|------------|--------------|------------------------|--------------------------|-----------------|-------------------|------------|
| FBH02A2P30220 | M30      | 220 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 85 mm             | 1434.2 g   |
| FBH02A2P30230 | M30      | 230 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 85 mm             | 1489.75 g  |
| FBH02A2P30240 | M30      | 240 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 85 mm             | 1545.3 g   |
| FBH02A2P30250 | M30      | 250 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 85 mm             | 1600.85 g  |
| FBH02A2P30260 | M30      | 260 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 85 mm             | 1656.4 g   |
| FBH02A2P30270 | M30      | 270 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 85 mm             | 1711.95 g  |
| FBH02A2P30280 | M30      | 280 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 85 mm             | 1767.5 g   |
| FBH02A2P30290 | M30      | 290 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 85 mm             | 1823.05 g  |
| FBH02A2P30300 | M30      | 300 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 85 mm             | 1878.6 g   |
| FBH02A2P33090 | M33      | 90 mm      | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 72 mm             | 905.788 g  |
| FBH02A2P33095 | M33      | 95 mm      | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 72 mm             | 939.694 g  |
| FBH02A2P33100 | M33      | 100 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 72 mm             | 973.6 g    |
| FBH02A2P33110 | M33      | 110 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 72 mm             | 1041.421 g |
| FBH02A2P33120 | M33      | 120 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 72 mm             | 1109.233 g |
| FBH02A2P33130 | M33      | 130 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 78 mm             | 1177.044 g |
| FBH02A2P33140 | M33      | 140 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 78 mm             | 1244.855 g |
| FBH02A2P33150 | M33      | 150 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 78 mm             | 1312.667 g |
| FBH02A2P33160 | M33      | 160 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 78 mm             | 1380.478 g |
| FBH02A2P33170 | M33      | 170 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 78 mm             | 1448.29 g  |
| FBH02A2P33180 | M33      | 180 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 78 mm             | 1516.101 g |
| FBH02A2P33190 | M33      | 190 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 78 mm             | 1583.912 g |
| FBH02A2P33200 | M33      | 200 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 78 mm             | 1651.724 g |
| FBH02A2P33210 | M33      | 210 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 91 mm             | 1719.545 g |
| FBH02A2P33220 | M33      | 220 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 91 mm             | 1787.357 g |
| FBH02A2P33230 | M33      | 230 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 91 mm             | 1855.168 g |
| FBH02A2P33240 | M33      | 240 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 91 mm             | 1922.979 g |
| FBH02A2P33250 | M33      | 250 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 91 mm             | 1990.791 g |
| FBH02A2P33260 | M33      | 260 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 91 mm             | 2058.602 g |
| FBH02A2P33270 | M33      | 270 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 91 mm             | 2126.414 g |
| FBH02A2P33280 | M33      | 280 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 91 mm             | 2194.225 g |
| FBH02A2P33290 | M33      | 290 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 91 mm             | 2262.036 g |
| FBH02A2P33300 | M33      | 300 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 91 mm             | 2329.848 g |
| FBH02A2P36100 | M36      | 100 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 78 mm             | 1171.6 g   |
| FBH02A2P36110 | M36      | 110 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 78 mm             | 1252.4 g   |
| FBH02A2P36120 | M36      | 120 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 78 mm             | 1333.2 g   |
| FBH02A2P36130 | M36      | 130 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 84 mm             | 1403.9 g   |



| Part number   | Size (d) | Length (l) | Thread pitch | Width across flats (s) | Width across corners (e) | Head height (k) | Thread length (b) | Weight     |
|---------------|----------|------------|--------------|------------------------|--------------------------|-----------------|-------------------|------------|
| FBH02A2P36140 | M36      | 140 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 84 mm             | 1484.7 g   |
| FBH02A2P36150 | M36      | 150 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 84 mm             | 1565.5 g   |
| FBH02A2P36160 | M36      | 160 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 84 mm             | 1646.3 g   |
| FBH02A2P36170 | M36      | 170 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 84 mm             | 1727.1 g   |
| FBH02A2P36180 | M36      | 180 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 84 mm             | 1807.9 g   |
| FBH02A2P36190 | M36      | 190 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 84 mm             | 1888.7 g   |
| FBH02A2P36200 | M36      | 200 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 84 mm             | 1969.5 g   |
| FBH02A2P36210 | M36      | 210 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 97 mm             | 2050.3 g   |
| FBH02A2P36220 | M36      | 220 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 97 mm             | 2131.1 g   |
| FBH02A2P36230 | M36      | 230 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 97 mm             | 2211.9 g   |
| FBH02A2P36240 | M36      | 240 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 97 mm             | 2292.7 g   |
| FBH02A2P36250 | M36      | 250 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 97 mm             | 2373.5 g   |
| FBH02A2P36260 | M36      | 260 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 97 mm             | 2454.3 g   |
| FBH02A2P36270 | M36      | 270 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 97 mm             | 2535.1 g   |
| FBH02A2P36280 | M36      | 280 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 97 mm             | 2615.9 g   |
| FBH02A2P36290 | M36      | 290 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 97 mm             | 2696.7 g   |
| FBH02A2P36300 | M36      | 300 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 97 mm             | 2777.5 g   |
| FBH02A2P39100 | M39      | 100 mm     | 4 mm         | 60 mm                  | 66.44 mm                 | 25 mm           | 84 mm             | 1462.551 g |
| FBH02A2P39110 | M39      | 110 mm     | 4 mm         | 60 mm                  | 66.44 mm                 | 25 mm           | 84 mm             | 1557.268 g |
| FBH02A2P39120 | M39      | 120 mm     | 4 mm         | 60 mm                  | 66.44 mm                 | 25 mm           | 84 mm             | 1651.976 g |
| FBH02A2P39130 | M39      | 130 mm     | 4 mm         | 60 mm                  | 66.44 mm                 | 25 mm           | 90 mm             | 1746.694 g |
| FBH02A2P39140 | M39      | 140 mm     | 4 mm         | 60 mm                  | 66.44 mm                 | 25 mm           | 90 mm             | 1841.402 g |
| FBH02A2P39150 | M39      | 150 mm     | 4 mm         | 60 mm                  | 66.44 mm                 | 25 mm           | 90 mm             | 1936.12 g  |
| FBH02A2P39160 | M39      | 160 mm     | 4 mm         | 60 mm                  | 66.44 mm                 | 25 mm           | 90 mm             | 2030.837 g |
| FBH02A2P39170 | M39      | 170 mm     | 4 mm         | 60 mm                  | 66.44 mm                 | 25 mm           | 90 mm             | 2125.545 g |
| FBH02A2P39180 | M39      | 180 mm     | 4 mm         | 60 mm                  | 66.44 mm                 | 25 mm           | 90 mm             | 2220.263 g |
| FBH02A2P39190 | M39      | 190 mm     | 4 mm         | 60 mm                  | 66.44 mm                 | 25 mm           | 90 mm             | 2314.971 g |
| FBH02A2P39200 | M39      | 200 mm     | 4 mm         | 60 mm                  | 66.44 mm                 | 25 mm           | 90 mm             | 2409.688 g |
| FBH02A2P39210 | M39      | 210 mm     | 4 mm         | 60 mm                  | 66.44 mm                 | 25 mm           | 103 mm            | 2504.396 g |
| FBH02A2P39220 | M39      | 220 mm     | 4 mm         | 60 mm                  | 66.44 mm                 | 25 mm           | 103 mm            | 2599.114 g |
| FBH02A2P39230 | M39      | 230 mm     | 4 mm         | 60 mm                  | 66.44 mm                 | 25 mm           | 103 mm            | 2693.822 g |
| FBH02A2P39240 | M39      | 240 mm     | 4 mm         | 60 mm                  | 66.44 mm                 | 25 mm           | 103 mm            | 2788.539 g |
| FBH02A2P39250 | M39      | 250 mm     | 4 mm         | 60 mm                  | 66.44 mm                 | 25 mm           | 103 mm            | 2883.247 g |
| FBH02A2P39260 | M39      | 260 mm     | 4 mm         | 60 mm                  | 66.44 mm                 | 25 mm           | 103 mm            | 2977.965 g |
| FBH02A2P39270 | M39      | 270 mm     | 4 mm         | 60 mm                  | 66.44 mm                 | 25 mm           | 103 mm            | 3072.673 g |
| FBH02A2P39280 | M39      | 280 mm     | 4 mm         | 60 mm                  | 66.44 mm                 | 25 mm           | 103 mm            | 3167.39 g  |



| Part number   | Size (d) | Length (l) | Thread pitch | Width across flats (s) | Width across corners (e) | Head height (k) | Thread length (b) | Weight     |
|---------------|----------|------------|--------------|------------------------|--------------------------|-----------------|-------------------|------------|
| FBH02A2P39290 | M39      | 290 mm     | 4 mm         | 60 mm                  | 66.44 mm                 | 25 mm           | 103 mm            | 3262.108 g |
| FBH02A2P39300 | M39      | 300 mm     | 4 mm         | 60 mm                  | 66.44 mm                 | 25 mm           | 103 mm            | 3356.816 g |
| FBH02A2P42100 | M42      | 100 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | –                 | 1719.808 g |
| FBH02A2P42110 | M42      | 110 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | –                 | 1829.655 g |
| FBH02A2P42120 | M42      | 120 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | –                 | 1939.493 g |
| FBH02A2P42130 | M42      | 130 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 96 mm             | 2049.34 g  |
| FBH02A2P42140 | M42      | 140 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 96 mm             | 2159.188 g |
| FBH02A2P42150 | M42      | 150 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 96 mm             | 2269.026 g |
| FBH02A2P42160 | M42      | 160 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 96 mm             | 2378.873 g |
| FBH02A2P42170 | M42      | 170 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 96 mm             | 2488.721 g |
| FBH02A2P42180 | M42      | 180 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 96 mm             | 2598.568 g |
| FBH02A2P42190 | M42      | 190 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 96 mm             | 2708.406 g |
| FBH02A2P42200 | M42      | 200 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 96 mm             | 2818.253 g |
| FBH02A2P42210 | M42      | 210 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 109 mm            | 2928.101 g |
| FBH02A2P42220 | M42      | 220 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 109 mm            | 3037.939 g |
| FBH02A2P42230 | M42      | 230 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 109 mm            | 3147.786 g |
| FBH02A2P42240 | M42      | 240 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 109 mm            | 3257.634 g |
| FBH02A2P42250 | M42      | 250 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 109 mm            | 3367.481 g |
| FBH02A2P42400 | M42      | 400 mm     | 4.5 mm       | 65 mm                  | 71.3 mm                  | 26 mm           | 109 mm            | 5015.145 g |
| FBH02A2P45110 | M45      | 110 mm     | 4.5 mm       | 70 mm                  | 76.95 mm                 | 28 mm           | –                 | 2176.873 g |
| FBH02A2P45120 | M45      | 120 mm     | 4.5 mm       | 70 mm                  | 76.95 mm                 | 28 mm           | –                 | 2302.972 g |
| FBH02A2P45130 | M45      | 130 mm     | 4.5 mm       | 70 mm                  | 76.95 mm                 | 28 mm           | 102 mm            | 2429.06 g  |
| FBH02A2P45140 | M45      | 140 mm     | 4.5 mm       | 70 mm                  | 76.95 mm                 | 28 mm           | 102 mm            | 2555.159 g |
| FBH02A2P45150 | M45      | 150 mm     | 4.5 mm       | 70 mm                  | 76.95 mm                 | 28 mm           | 102 mm            | 2681.257 g |
| FBH02A2P45160 | M45      | 160 mm     | 4.5 mm       | 70 mm                  | 76.95 mm                 | 28 mm           | 102 mm            | 2807.356 g |
| FBH02A2P45170 | M45      | 170 mm     | 4.5 mm       | 70 mm                  | 76.95 mm                 | 28 mm           | 102 mm            | 2933.454 g |
| FBH02A2P45180 | M45      | 180 mm     | 4.5 mm       | 70 mm                  | 76.95 mm                 | 28 mm           | 102 mm            | 3059.553 g |
| FBH02A2P45190 | M45      | 190 mm     | 4.5 mm       | 70 mm                  | 76.95 mm                 | 28 mm           | 102 mm            | 3185.651 g |
| FBH02A2P45200 | M45      | 200 mm     | 4.5 mm       | 70 mm                  | 76.95 mm                 | 28 mm           | 102 mm            | 3311.75 g  |
| FBH02A2P45210 | M45      | 210 mm     | 4.5 mm       | 70 mm                  | 76.95 mm                 | 28 mm           | 115 mm            | 3437.848 g |
| FBH02A2P45220 | M45      | 220 mm     | 4.5 mm       | 70 mm                  | 76.95 mm                 | 28 mm           | 115 mm            | 3563.937 g |
| FBH02A2P45230 | M45      | 230 mm     | 4.5 mm       | 70 mm                  | 76.95 mm                 | 28 mm           | 115 mm            | 3690.035 g |
| FBH02A2P45240 | M45      | 240 mm     | 4.5 mm       | 70 mm                  | 76.95 mm                 | 28 mm           | 115 mm            | 3816.133 g |
| FBH02A2P45250 | M45      | 250 mm     | 4.5 mm       | 70 mm                  | 76.95 mm                 | 28 mm           | 115 mm            | 3942.232 g |
| FBH02A2P45260 | M45      | 260 mm     | 4.5 mm       | 70 mm                  | 76.95 mm                 | 28 mm           | 115 mm            | 4068.331 g |
| FBH02A2P45270 | M45      | 270 mm     | 4.5 mm       | 70 mm                  | 76.95 mm                 | 28 mm           | 115 mm            | 4194.429 g |



| Part number   | Size (d) | Length (l) | Thread pitch | Width across flats (s) | Width across corners (e) | Head height (k) | Thread length (b) | Weight     |
|---------------|----------|------------|--------------|------------------------|--------------------------|-----------------|-------------------|------------|
| FBH02A2P45280 | M45      | 280 mm     | 4.5 mm       | 70 mm                  | 76.95 mm                 | 28 mm           | 115 mm            | 4320.528 g |
| FBH02A2P45290 | M45      | 290 mm     | 4.5 mm       | 70 mm                  | 76.95 mm                 | 28 mm           | 115 mm            | 4446.626 g |
| FBH02A2P45300 | M45      | 300 mm     | 4.5 mm       | 70 mm                  | 76.95 mm                 | 28 mm           | 115 mm            | 4572.714 g |
| FBH02A2P48120 | M48      | 120 mm     | 5 mm         | 75 mm                  | 82.6 mm                  | 30 mm           | –                 | 2585.6 g   |
| FBH02A2P48130 | M48      | 130 mm     | 5 mm         | 75 mm                  | 82.6 mm                  | 30 mm           | 108 mm            | 2737.1 g   |
| FBH02A2P48140 | M48      | 140 mm     | 5 mm         | 75 mm                  | 82.6 mm                  | 30 mm           | 108 mm            | 2888.6 g   |
| FBH02A2P48150 | M48      | 150 mm     | 5 mm         | 75 mm                  | 82.6 mm                  | 30 mm           | 108 mm            | 3040.1 g   |
| FBH02A2P48160 | M48      | 160 mm     | 5 mm         | 75 mm                  | 82.6 mm                  | 30 mm           | 108 mm            | 3191.6 g   |
| FBH02A2P48170 | M48      | 170 mm     | 5 mm         | 75 mm                  | 82.6 mm                  | 30 mm           | 108 mm            | 3333 g     |
| FBH02A2P48180 | M48      | 180 mm     | 5 mm         | 75 mm                  | 82.6 mm                  | 30 mm           | 108 mm            | 3474.4 g   |
| FBH02A2P48190 | M48      | 190 mm     | 5 mm         | 75 mm                  | 82.6 mm                  | 30 mm           | 108 mm            | 3615.8 g   |
| FBH02A2P48200 | M48      | 200 mm     | 5 mm         | 75 mm                  | 82.6 mm                  | 30 mm           | 108 mm            | 3757.2 g   |
| FBH02A2P48210 | M48      | 210 mm     | 5 mm         | 75 mm                  | 82.6 mm                  | 30 mm           | 121 mm            | 3903.65 g  |
| FBH02A2P48220 | M48      | 220 mm     | 5 mm         | 75 mm                  | 82.6 mm                  | 30 mm           | 121 mm            | 4050.1 g   |
| FBH02A2P48230 | M48      | 230 mm     | 5 mm         | 75 mm                  | 82.6 mm                  | 30 mm           | 121 mm            | 4191.5 g   |
| FBH02A2P48240 | M48      | 240 mm     | 5 mm         | 75 mm                  | 82.6 mm                  | 30 mm           | 121 mm            | 4332.9 g   |
| FBH02A2P48250 | M48      | 250 mm     | 5 mm         | 75 mm                  | 82.6 mm                  | 30 mm           | 121 mm            | 4474.3 g   |
| FBH02A2P52130 | M52      | 130 mm     | 5 mm         | 80 mm                  | 88.25 mm                 | 33 mm           | 116 mm            | 3414.8 g   |
| FBH02A2P52140 | M52      | 140 mm     | 5 mm         | 80 mm                  | 88.25 mm                 | 33 mm           | 116 mm            | 3583.177 g |
| FBH02A2P52150 | M52      | 150 mm     | 5 mm         | 80 mm                  | 88.25 mm                 | 33 mm           | 116 mm            | 3751.554 g |
| FBH02A2P52160 | M52      | 160 mm     | 5 mm         | 80 mm                  | 88.25 mm                 | 33 mm           | 116 mm            | 3919.931 g |
| FBH02A2P52170 | M52      | 170 mm     | 5 mm         | 80 mm                  | 88.25 mm                 | 33 mm           | 116 mm            | 4088.318 g |
| FBH02A2P52180 | M52      | 180 mm     | 5 mm         | 80 mm                  | 88.25 mm                 | 33 mm           | 116 mm            | 4256.695 g |
| FBH02A2P52190 | M52      | 190 mm     | 5 mm         | 80 mm                  | 88.25 mm                 | 33 mm           | 116 mm            | 4425.073 g |
| FBH02A2P52200 | M52      | 200 mm     | 5 mm         | 80 mm                  | 88.25 mm                 | 33 mm           | 116 mm            | 4593.45 g  |
| FBH02A2P52210 | M52      | 210 mm     | 5 mm         | 80 mm                  | 88.25 mm                 | 33 mm           | 129 mm            | 4761.827 g |
| FBH02A2P52220 | M52      | 220 mm     | 5 mm         | 80 mm                  | 88.25 mm                 | 33 mm           | 129 mm            | 4930.204 g |
| FBH02A2P52230 | M52      | 230 mm     | 5 mm         | 80 mm                  | 88.25 mm                 | 33 mm           | 129 mm            | 5098.591 g |
| FBH02A2P52240 | M52      | 240 mm     | 5 mm         | 80 mm                  | 88.25 mm                 | 33 mm           | 129 mm            | 5266.968 g |
| FBH02A2P52250 | M52      | 250 mm     | 5 mm         | 80 mm                  | 88.25 mm                 | 33 mm           | 129 mm            | 5435.345 g |
| FBH02A2P52260 | M52      | 260 mm     | 5 mm         | 80 mm                  | 88.25 mm                 | 33 mm           | 129 mm            | 5603.722 g |
| FBH02A2P52270 | M52      | 270 mm     | 5 mm         | 80 mm                  | 88.25 mm                 | 33 mm           | 129 mm            | 5772.1 g   |
| FBH02A2P52280 | M52      | 280 mm     | 5 mm         | 80 mm                  | 88.25 mm                 | 33 mm           | 129 mm            | 5940.477 g |
| FBH02A2P52290 | M52      | 290 mm     | 5 mm         | 80 mm                  | 88.25 mm                 | 33 mm           | 129 mm            | 6108.864 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     |
|---------------|-------------|---------------|-----------------|---------------------------|-----------------------------|--------------------|----------------------|------------|
| FBH02A2P52300 | M52         | 300 mm        | 5 mm            | 80 mm                     | 88.25 mm                    | 33 mm              | 129 mm               | 6277.241 g |

Part numbers: 186

## STANDARDS & CERTIFICATES

### Standards

**DIN 931** – Hex Head Bolt

**ISO 4014** – Hex Head Bolt

