

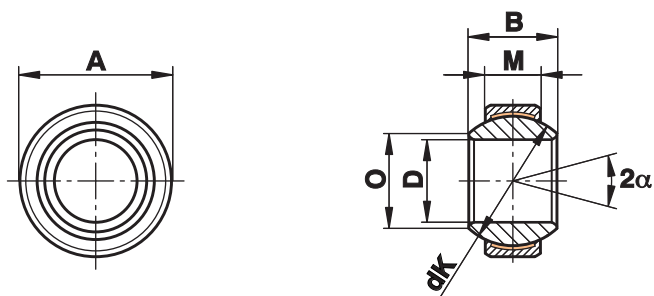
# Spherical Plain Bearings Series G - Maintenance Free

## Series GE...FW (-2RS)

Spherical Plain Bearings  
series G to DIN ISO  
12240-1.

Mating surface hard  
chromium/PTFE,  
maintenance free

Higher pivoting angle  
through wider ball



| Size<br>(D)                         | B   | M   | A                                  | O     | dK    | Static<br>load C <sub>0</sub><br>kN | Static<br>load C <sub>0</sub><br>kN -2RS | Dynamic<br>load C<br>kN | Dynamic<br>load C<br>kN -2RS | Pivoting<br>angle<br>α | Weight<br>g |
|-------------------------------------|-----|-----|------------------------------------|-------|-------|-------------------------------------|------------------------------------------|-------------------------|------------------------------|------------------------|-------------|
| 4 <sup>0</sup> <sub>-0,008</sub>    | 4   | 4   | 14 <sup>0</sup> <sub>-0,008</sub>  | 7,1   | 10,0  | 9,1                                 | -                                        | 3,6                     | -                            | 20                     | 5           |
| 5 <sup>0</sup> <sub>-0,008</sub>    | 5   | 5   | 16 <sup>0</sup> <sub>-0,008</sub>  | 9,3   | 13,0  | 14,0                                | -                                        | 5,8                     | -                            | 21                     | 8           |
| 6 <sup>0</sup> <sub>-0,008</sub>    | 9   | 5   | 16 <sup>0</sup> <sub>-0,008</sub>  | 9,3   | 13,0  | 14,0                                | -                                        | 5,8                     | -                            | 21                     | 9           |
| 8 <sup>0</sup> <sub>-0,008</sub>    | 11  | 6   | 19 <sup>0</sup> <sub>-0,009</sub>  | 11,6  | 16,0  | 21,0                                | -                                        | 8,6                     | -                            | 21                     | 14          |
| 10 <sup>0</sup> <sub>-0,008</sub>   | 12  | 7   | 22 <sup>0</sup> <sub>-0,009</sub>  | 13,4  | 18,0  | 28,0                                | -                                        | 11,0                    | -                            | 18                     | 21          |
| 12 <sup>0</sup> <sub>-0,008</sub>   | 15  | 9   | 26 <sup>0</sup> <sub>-0,009</sub>  | 16,0  | 22,0  | 45,0                                | -                                        | 18,0                    | -                            | 18                     | 33          |
| 15 <sup>0</sup> <sub>-0,008</sub>   | 16  | 10  | 30 <sup>0</sup> <sub>-0,009</sub>  | 19,2  | 25,0  | 56,0                                | 75,0                                     | 22,0                    | 32,0                         | 16                     | 49          |
| 17 <sup>0</sup> <sub>-0,008</sub>   | 20  | 12  | 35 <sup>0</sup> <sub>-0,011</sub>  | 21,0  | 29,0  | 78,0                                | 104,0                                    | 31,0                    | 45,0                         | 19                     | 83          |
| 20 <sup>0</sup> <sub>-0,010</sub>   | 25  | 16  | 42 <sup>0</sup> <sub>-0,011</sub>  | 25,2  | 35,5  | 127,0                               | 204,0                                    | 51,0                    | 85,0                         | 17                     | 153         |
| 25 <sup>0</sup> <sub>-0,010</sub>   | 28  | 18  | 47 <sup>0</sup> <sub>-0,011</sub>  | 29,5  | 40,7  | 166,0                               | 263,0                                    | 65,0                    | 110,0                        | 17                     | 203         |
| 30 <sup>0</sup> <sub>-0,010</sub>   | 32  | 20  | 55 <sup>0</sup> <sub>-0,013</sub>  | 34,4  | 47,0  | 211,0                               | 338,0                                    | 84,0                    | 140,0                        | 17                     | 304         |
| 35 <sup>0</sup> <sub>-0,012</sub>   | 35  | 22  | 62 <sup>0</sup> <sub>-0,013</sub>  | 39,7  | 53,0  | 262,0                               | 419,0                                    | 104,0                   | 175,0                        | 16                     | 408         |
| 40 <sup>0</sup> <sub>-0,012</sub>   | 40  | 25  | 68 <sup>0</sup> <sub>-0,013</sub>  | 44,7  | 60,0  | 337,0                               | 540,0                                    | 135,0                   | 225,0                        | 17                     | 542         |
| 45 <sup>0</sup> <sub>-0,012</sub>   | 43  | 28  | 75 <sup>0</sup> <sub>-0,013</sub>  | 50,0  | 66,0  | 415,0                               | 665,0                                    | 166,0                   | 275,0                        | 15                     | 713         |
| 50 <sup>0</sup> <sub>-0,012</sub>   | 56  | 36  | 90 <sup>0</sup> <sub>-0,013</sub>  | 57,1  | 80,0  | -                                   | 1030,0                                   | -                       | 430,0                        | 17                     | 1420        |
| 60 <sup>0</sup> <sub>-0,015</sub>   | 63  | 40  | 105 <sup>0</sup> <sub>-0,015</sub> | 67,0  | 92,0  | -                                   | 1320,0                                   | -                       | 550,0                        | 17                     | 2090        |
| 70 <sup>0</sup> <sub>-0,015</sub>   | 70  | 45  | 120 <sup>0</sup> <sub>-0,015</sub> | 78,2  | 105,0 | -                                   | 1700,0                                   | -                       | 705,0                        | 16                     | 3010        |
| 80 <sup>0</sup> <sub>-0,015</sub>   | 75  | 50  | 130 <sup>0</sup> <sub>-0,015</sub> | 87,1  | 115,0 | -                                   | 2070,0                                   | -                       | 860,0                        | 14                     | 3610        |
| 90 <sup>0</sup> <sub>-0,020</sub>   | 85  | 55  | 150 <sup>0</sup> <sub>-0,018</sub> | 98,3  | 130,0 | -                                   | 2570,0                                   | -                       | 1070,0                       | 15                     | 5500        |
| 100 <sup>0</sup> <sub>-0,020</sub>  | 85  | 55  | 160 <sup>0</sup> <sub>-0,018</sub> | 111,2 | 140,0 | -                                   | 2770,0                                   | -                       | 1150,0                       | 14                     | 6040        |
| 110 <sup>0</sup> <sub>-0,020</sub>  | 100 | 70  | 180 <sup>0</sup> <sub>-0,025</sub> | 124,8 | 160,0 | -                                   | 4030,0                                   | -                       | 1680,0                       | 12                     | 9740        |
| 120 <sup>0</sup> <sub>-0,020</sub>  | 115 | 70  | 210 <sup>0</sup> <sub>-0,025</sub> | 138,4 | 180,0 | -                                   | 4530,0                                   | -                       | 1890,0                       | 16                     | 15100       |
| 140 <sup>1)</sup> <sub>-0,025</sub> | 130 | 80  | 230 <sup>0</sup> <sub>-0,030</sub> | 151,9 | 200,0 | -                                   | 5760,0                                   | -                       | 2400,0                       | 16                     | 18900       |
| 160 <sup>1)</sup> <sub>-0,025</sub> | 135 | 80  | 260 <sup>0</sup> <sub>-0,030</sub> | 180,0 | 225,0 | -                                   | 6480,0                                   | -                       | 2700,0                       | 16                     | 24800       |
| 180 <sup>1)</sup> <sub>-0,025</sub> | 155 | 100 | 290 <sup>0</sup> <sub>-0,035</sub> | 196,1 | 250,0 | -                                   | 9000,0                                   | -                       | 3750,0                       | 14                     | 35900       |
| 200 <sup>1)</sup> <sub>-0,030</sub> | 165 | 100 | 320 <sup>0</sup> <sub>-0,035</sub> | 220,0 | 275,0 | -                                   | 9900,0                                   | -                       | 4120,0                       | 15                     | 44900       |
| 220 <sup>1)</sup> <sub>-0,030</sub> | 175 | 100 | 340 <sup>0</sup> <sub>-0,040</sub> | 243,6 | 300,0 | -                                   | 10800,0                                  | -                       | 4500,0                       | 16                     | 50900       |
| 240 <sup>1)</sup> <sub>-0,030</sub> | 190 | 110 | 370 <sup>0</sup> <sub>-0,040</sub> | 263,6 | 325,0 | -                                   | 12870,0                                  | -                       | 5360,0                       | 15                     | 65300       |
| 260 <sup>1)</sup> <sub>-0,035</sub> | 205 | 120 | 400 <sup>0</sup> <sub>-0,040</sub> | 283,6 | 350,0 | -                                   | 15120,0                                  | -                       | 6300,0                       | 15                     | 82000       |
| 280 <sup>1)</sup> <sub>-0,035</sub> | 210 | 120 | 430 <sup>0</sup> <sub>-0,045</sub> | 310,6 | 375,0 | -                                   | 16200,0                                  | -                       | 6750,0                       | 15                     | 96600       |

## Materials:

**Insert:** Bearing steel with PTFE liner bonded to the inner surface  
from size 15 available sealed (-2RS) on both sides  
from size 50 only available sealed (-2RS) on both sides

**Ball:** Bearing steel to 100Cr6, Aisi 52100, hardened, ground, polished, hard chrome plated

On request available in stainless steel.

<sup>1)</sup> from size 140 the  
hardened inserts  
are two pieced  
and secured with  
tension spring

**FLURO-Gelenklager GmbH**