

## Spherical Plain Bearings

LY spherical plain bearings are self-aligning spherical plain bearings capable of bearing both large radial load and bidirectional axial load. There are many part numbers, which can be roughly divided into lubricating type and self-lubricating type according to the type of sliding surface.

The inner and outer rings of lubricating type radial spherical plain bearings are made of high-carbon chromium bearing steel. The sliding surface is hardened and wear-resistant, and covered by molybdenum disulfide dry film. The bearings are operated with low torque and have excellent wear-resistance and large load capacity. They are especially suitable for the position where the load changes alternately and with shock loads.

They are widely used in engineering machinery, construction machinery, metallurgical heavy machinery, etc

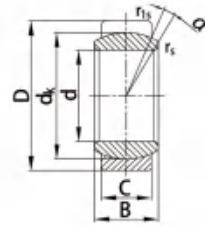
Self-lubricating type radial spherical plain bearings are equipped with outer rings lined with special PTFE composite material and inner rings coated with hard chromium on the sliding surface, which deforms less under a compressive load and has excellent wear-resistant properties.

They are especially suitable for bearing load in a certain direction, for food machinery and other fields where oil is not suitable and for parts of construction machinery where oil cannot be added.

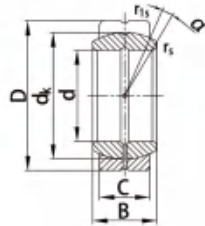
The rod end of LY rod end spherical plain bearings has internal thread or external thread, easy for installation. It can be used for textile machinery and packaging machinery and other control mechanisms and rod structure, especially suitable for food machinery and other areas that dislike oil and parts where oil cannot be added.



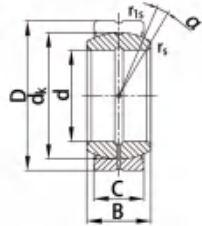
Sliding contact surfaces: Steel / Steel



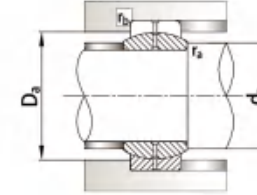
GE...E



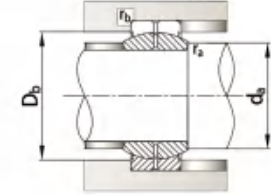
GE...ES



GE...ES-2RS



GE...ES



GE...ES-2RS

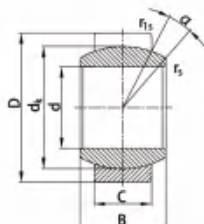
| Bearing Designations |             | Principal Dimensions (mm) |     |     |     |                |                       |                        |         | Load Ratings (kN) |                | Weight<br>=kg |  |  | Abutment and Fillet Dimensions |     |                |     |                |     |                |                |
|----------------------|-------------|---------------------------|-----|-----|-----|----------------|-----------------------|------------------------|---------|-------------------|----------------|---------------|--|--|--------------------------------|-----|----------------|-----|----------------|-----|----------------|----------------|
|                      |             | d                         | D   | B   | C   | d <sub>k</sub> | r <sub>s</sub><br>min | r <sub>1s</sub><br>min | α°<br>≈ | Dynamic<br>Load   | Static<br>Load |               |  |  | d <sub>a</sub>                 |     | D <sub>a</sub> |     | D <sub>b</sub> |     | r <sub>a</sub> | r <sub>b</sub> |
|                      |             |                           |     |     |     |                |                       |                        |         |                   |                |               |  |  | max                            | min | max            | min | max            | min | max            | max            |
| GE4E                 | -           | 4                         | 12  | 5   | 3   | 8              | 0.3                   | 0.3                    | 16      | 2                 | 10             | 0.003         |  |  | 6                              | 6   | 10             | 8   | -              | -   | 0.3            | 0.3            |
| GE5E                 | -           | 5                         | 14  | 6   | 4   | 10             | 0.3                   | 0.3                    | 13      | 3.4               | 17             | 0.005         |  |  | 7                              | 7   | 12             | 10  | -              | -   | 0.3            | 0.3            |
| GE6E                 | -           | 6                         | 14  | 6   | 4   | 10             | 0.3                   | 0.3                    | 13      | 3.4               | 17             | 0.004         |  |  | 8                              | 8   | 12             | 10  | -              | -   | 0.3            | 0.3            |
| GE8E                 | -           | 8                         | 16  | 8   | 5   | 13             | 0.3                   | 0.3                    | 15      | 5.5               | 27             | 0.007         |  |  | 10                             | 10  | 14             | 13  | -              | -   | 0.3            | 0.3            |
| GE10E                | -           | 10                        | 19  | 9   | 6   | 16             | 0.3                   | 0.3                    | 12      | 8.1               | 40             | 0.011         |  |  | 13                             | 13  | 17             | 17  | -              | -   | 0.3            | 0.3            |
| GE12E                | -           | 12                        | 22  | 10  | 7   | 18             | 0.3                   | 0.3                    | 10      | 10                | 53             | 0.017         |  |  | 15                             | 15  | 19             | 18  | -              | -   | 0.3            | 0.3            |
| GE15ES               | GE15ES-2RS  | 15                        | 26  | 12  | 9   | 22             | 0.3                   | 0.3                    | 8       | 16                | 84             | 0.026         |  |  | 18                             | 18  | 23             | 21  | 23             | 22  | 0.3            | 0.3            |
| GE17ES               | GE17ES-2RS  | 17                        | 30  | 14  | 10  | 25             | 0.3                   | 0.3                    | 10      | 21                | 106            | 0.04          |  |  | 20                             | 20  | 27             | 24  | 27             | 25  | 0.3            | 0.3            |
| GE20ES               | GE20ES-2RS  | 20                        | 35  | 16  | 12  | 29             | 0.3                   | 0.3                    | 9       | 30                | 146            | 0.064         |  |  | 24                             | 23  | 31             | 28  | 31             | 30  | 0.3            | 0.3            |
| GE25ES               | GE25ES-2RS  | 25                        | 42  | 20  | 16  | 35.5           | 0.6                   | 0.6                    | 7       | 48                | 240            | 0.115         |  |  | 29                             | 28  | 38             | 33  | 38             | 36  | 0.6            | 0.6            |
| GE30ES               | GE30ES-2RS  | 30                        | 47  | 22  | 18  | 40.7           | 0.6                   | 0.6                    | 6       | 62                | 310            | 0.149         |  |  | 34                             | 33  | 43             | 38  | 43             | 40  | 0.6            | 0.6            |
| GE35ES               | GE35ES-2RS  | 35                        | 55  | 25  | 20  | 47             | 0.6                   | 1                      | 6       | 79                | 399            | 0.228         |  |  | 39                             | 38  | 50             | 44  | 50             | 47  | 0.6            | 1              |
| GE40ES               | GE40ES-2RS  | 40                        | 62  | 28  | 22  | 53             | 0.6                   | 1                      | 7       | 99                | 495            | 0.318         |  |  | 45                             | 44  | 57             | 50  | 57             | 53  | 0.6            | 1              |
| GE45ES               | GE45ES-2RS  | 45                        | 68  | 32  | 25  | 60             | 0.6                   | 1                      | 7       | 127               | 637            | 0.421         |  |  | 50                             | 49  | 63             | 56  | 63             | 59  | 0.6            | 1              |
| GE50ES               | GE50ES-2RS  | 50                        | 75  | 35  | 28  | 66             | 0.6                   | 1                      | 6       | 156               | 780            | 0.562         |  |  | 55                             | 54  | 70             | 61  | 70             | 64  | 0.6            | 1              |
| GE55ES               | GE55ES-2RS  | 55                        | 85  | 40  | 32  | 74             | 0.6                   | 1                      | 7       | 200               | 1000           | 0.864         |  |  | 60                             | 59  | 80             | 70  | 80             | 73  | 0.6            | 1              |
| GE60ES               | GE60ES-2RS  | 60                        | 90  | 44  | 36  | 80             | 1                     | 1                      | 6       | 245               | 1220           | 1.03          |  |  | 66                             | 65  | 84             | 73  | 84             | 77  | 1              | 1              |
| GE70ES               | GE70ES-2RS  | 70                        | 105 | 49  | 40  | 92             | 1                     | 1                      | 6       | 313               | 1560           | 1.57          |  |  | 77                             | 75  | 99             | 84  | 99             | 89  | 1              | 1              |
| GE80ES               | GE80ES-2RS  | 80                        | 120 | 55  | 45  | 105            | 1                     | 1                      | 6       | 400               | 2000           | 2.32          |  |  | 88                             | 85  | 114            | 97  | 114            | 102 | 1              | 1              |
| GE90ES               | GE90ES-2RS  | 90                        | 130 | 60  | 50  | 115            | 1                     | 1                      | 5       | 488               | 2440           | 2.79          |  |  | 98                             | 96  | 124            | 106 | 124            | 110 | 1              | 1              |
| GE100ES              | GE100ES-2RS | 100                       | 150 | 70  | 55  | 130            | 1                     | 1                      | 7       | 607               | 3030           | 4.44          |  |  | 109                            | 106 | 144            | 120 | 144            | 127 | 1              | 1              |
| GE110ES              | GE110ES-2RS | 110                       | 160 | 70  | 55  | 140            | 1                     | 1                      | 6       | 654               | 3270           | 4.83          |  |  | 120                            | 116 | 154            | 131 | 154            | 138 | 1              | 1              |
| GE120ES              | GE120ES-2RS | 120                       | 180 | 85  | 70  | 160            | 1                     | 1                      | 6       | 950               | 4750           | 8.11          |  |  | 130                            | 126 | 174            | 146 | 174            | 154 | 1              | 1              |
| GE140ES              | GE140ES-2RS | 140                       | 210 | 90  | 70  | 180            | 1                     | 1                      | 7       | 1070              | 5350           | 11.2          |  |  | 160                            | 146 | 204            | 168 | 204            | 177 | 1              | 1              |
| GE160ES              | GE160ES-2RS | 160                       | 230 | 105 | 80  | 200            | 1                     | 1                      | 8       | 1360              | 6800           | 14.1          |  |  | 170                            | 166 | 224            | 186 | 224            | 196 | 1              | 1              |
| GE180ES              | GE180ES-2RS | 180                       | 260 | 105 | 80  | 225            | 1.1                   | 1.1                    | 6       | 1530              | 7650           | 18.5          |  |  | 192                            | 187 | 253            | 214 | 253            | 224 | 1.1            | 1.1            |
| GE200ES              | GE200ES-2RS | 200                       | 290 | 130 | 100 | 250            | 1.1                   | 1.1                    | 7       | 2120              | 10600          | 28.4          |  |  | 212                            | 207 | 283            | 233 | 283            | 245 | 1.1            | 1.1            |
| GE220ES              | GE220ES-2RS | 220                       | 320 | 135 | 100 | 275            | 1.1                   | 1.1                    | 8       | 2320              | 11600          | 35.7          |  |  | 238                            | 227 | 313            | 260 | 313            | 272 | 1.1            | 1.1            |
| GE240ES              | GE240ES-2RS | 240                       | 340 | 140 | 100 | 300            | 1.1                   | 1.1                    | 8       | 2550              | 12700          | 39.7          |  |  | 265                            | 247 | 333            | 286 | 333            | 299 | 1.1            | 1.1            |
| GE260ES              | GE260ES-2RS | 260                       | 370 | 150 | 110 | 325            | 1.1                   | 1.1                    | 7       | 3030              | 15190          | 51.5          |  |  | 280                            | 267 | 363            | 310 | 363            | 323 | 1.1            | 1.1            |
| GE280ES              | GE280ES-2RS | 280                       | 400 | 155 | 120 | 350            | 1.1                   | 1.1                    | 6       | 3570              | 17850          | 64.9          |  |  | 310                            | 287 | 393            | 333 | 393            | 346 | 1.1            | 1.1            |
| GE300ES              | GE300ES-2RS | 300                       | 430 | 165 | 120 | 375            | 1.1                   | 1.1                    | 7       | 3800              | 19100          | 77.6          |  |  | 330                            | 307 | 423            | 360 | 423            | 373 | 1.1            | 1.1            |

Note: ① Outer ring has an axial slit, inner ring and outer ring are of bearing steel, hardened and phosphated, sliding surface treated with MoS<sub>2</sub>. All bearings have an annular groove and lubrication in each ring except those of the E design. Bearings of the 2RS design are fitted with seals at both sides.

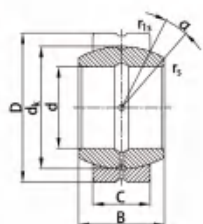
② Outer ring sliding surface can be designed with cross lubrication slots, with suffix "YA".  
For example: GE160ESYA-2RS



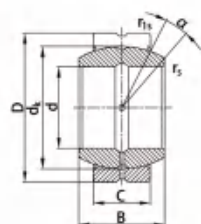
Sliding contact surfaces: Steel / Steel



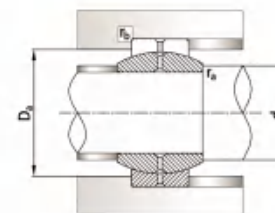
GEG...E



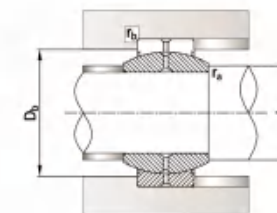
GEG...ES



GEG...ES-2RS



GEG...ES

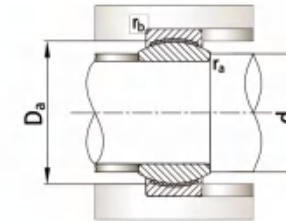
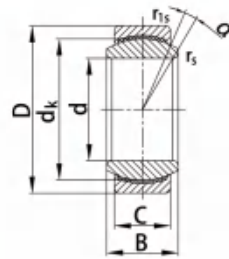


GEG...ES-2RS

| Bearing Designations |              | Principal Dimensions(mm) |     |     |     |                |                    |                     |      | Load Ratings (KN) |             | Weight ≈kg |  | Abutment and Fillet Dimensions |     |                |     |                |     |                |                |
|----------------------|--------------|--------------------------|-----|-----|-----|----------------|--------------------|---------------------|------|-------------------|-------------|------------|--|--------------------------------|-----|----------------|-----|----------------|-----|----------------|----------------|
|                      |              | d                        | D   | B   | C   | d <sub>k</sub> | r <sub>s</sub> min | r <sub>1s</sub> min | α° ≈ | Dynamic Load      | Static Load |            |  | d <sub>a</sub>                 |     | D <sub>a</sub> |     | D <sub>b</sub> |     | r <sub>a</sub> | r <sub>b</sub> |
|                      |              |                          |     |     |     |                |                    |                     |      |                   |             |            |  | max                            | min | max            | min | max            | min | max            | max            |
| GEG4E                | -            | 4                        | 14  | 7   | 4   | 10             | 0.3                | 0.3                 | 20   | 3.4               | 17          | 0.005      |  | 7                              | 6   | 12             | 10  | -              | -   | 0.3            | 0.3            |
| GEG5E                | -            | 5                        | 16  | 9   | 5   | 13             | 0.3                | 0.3                 | 21   | 5.5               | 27          | 0.009      |  | 8                              | 7   | 14             | 12  | -              | -   | 0.3            | 0.3            |
| GEG6E                | -            | 6                        | 16  | 9   | 5   | 13             | 0.3                | 0.3                 | 21   | 5.5               | 27          | 0.008      |  | 9                              | 8   | 14             | 12  | -              | -   | 0.3            | 0.3            |
| GEG8E                | -            | 8                        | 19  | 11  | 6   | 16             | 0.3                | 0.3                 | 21   | 8.1               | 40          | 0.014      |  | 11                             | 10  | 17             | 15  | -              | -   | 0.3            | 0.3            |
| GEG10E               | -            | 10                       | 22  | 12  | 7   | 18             | 0.3                | 0.3                 | 18   | 10                | 53          | 0.021      |  | 13                             | 13  | 20             | 18  | -              | -   | 0.3            | 0.3            |
| GEG12E               | -            | 12                       | 26  | 15  | 9   | 22             | 0.3                | 0.3                 | 18   | 16                | 84          | 0.036      |  | 16                             | 15  | 23             | 21  | -              | -   | 0.3            | 0.3            |
| GEG15ES              | GEG15ES-2RS  | 15                       | 30  | 16  | 10  | 25             | 0.3                | 0.3                 | 16   | 21                | 106         | 0.048      |  | 19                             | 18  | 27             | 24  | 27             | 25  | 0.3            | 0.3            |
| GEG17ES              | GEG17ES-2RS  | 17                       | 35  | 20  | 12  | 29             | 0.3                | 0.3                 | 19   | 30                | 146         | 0.08       |  | 21                             | 20  | 32             | 28  | 32             | 30  | 0.3            | 0.3            |
| GEG20ES              | GEG20ES-2RS  | 20                       | 42  | 25  | 16  | 35.5           | 0.3                | 0.6                 | 17   | 48                | 240         | 0.152      |  | 24                             | 23  | 38             | 33  | 38             | 36  | 0.3            | 0.3            |
| GEG25ES              | GEG25ES-2RS  | 25                       | 47  | 28  | 18  | 40.7           | 0.6                | 0.6                 | 17   | 62                | 310         | 0.199      |  | 29                             | 28  | 43             | 38  | 43             | 40  | 0.6            | 0.6            |
| GEG30ES              | GEG30ES-2RS  | 30                       | 55  | 32  | 20  | 47             | 0.6                | 1                   | 17   | 79                | 399         | 0.296      |  | 34                             | 33  | 50             | 44  | 50             | 47  | 0.6            | 1              |
| GEG35ES              | GEG35ES-2RS  | 35                       | 62  | 35  | 22  | 53             | 0.6                | 1                   | 16   | 99                | 495         | 0.402      |  | 39                             | 38  | 57             | 50  | 57             | 53  | 0.6            | 1              |
| GEG40ES              | GEG40ES-2RS  | 40                       | 68  | 40  | 25  | 60             | 0.6                | 1                   | 17   | 127               | 637         | 0.535      |  | 44                             | 44  | 63             | 56  | 63             | 59  | 0.6            | 1              |
| GEG45ES              | GEG45ES-2RS  | 45                       | 75  | 43  | 28  | 66             | 0.6                | 1                   | 15   | 156               | 780         | 0.698      |  | 50                             | 49  | 70             | 61  | 70             | 64  | 0.6            | 1              |
| GEG50ES              | GEG50ES-2RS  | 50                       | 90  | 56  | 36  | 80             | 0.6                | 1                   | 17   | 245               | 1220        | 1.42       |  | 57                             | 54  | 84             | 73  | 84             | 77  | 0.6            | 1              |
| GEG60ES              | GEG60ES-2RS  | 60                       | 105 | 63  | 40  | 92             | 1                  | 1                   | 17   | 313               | 1560        | 2.09       |  | 67                             | 65  | 99             | 84  | 99             | 89  | 1              | 1              |
| GEG70ES              | GEG70ES-2RS  | 70                       | 120 | 70  | 45  | 105            | 1                  | 1                   | 16   | 400               | 2000        | 3.01       |  | 77                             | 75  | 114            | 87  | 114            | 102 | 1              | 1              |
| GEG80ES              | GEG80ES-2RS  | 80                       | 130 | 75  | 50  | 115            | 1                  | 1                   | 14   | 488               | 2440        | 3.61       |  | 87                             | 85  | 124            | 106 | 124            | 110 | 1              | 1              |
| GEG90ES              | GEG90ES-2RS  | 90                       | 150 | 85  | 55  | 130            | 1                  | 1                   | 15   | 607               | 3030        | 5.5        |  | 98                             | 96  | 144            | 120 | 144            | 127 | 1              | 1              |
| GEG100ES             | GEG100ES-2RS | 100                      | 160 | 85  | 55  | 140            | 1                  | 1                   | 14   | 654               | 3270        | 6.04       |  | 110                            | 106 | 154            | 131 | 154            | 138 | 1              | 1              |
| GEG110ES             | GEG110ES-2RS | 110                      | 180 | 100 | 70  | 160            | 1                  | 1                   | 12   | 950               | 4750        | 9.74       |  | 122                            | 116 | 174            | 146 | 174            | 154 | 1              | 1              |
| GEG120ES             | GEG120ES-2RS | 120                      | 210 | 115 | 70  | 180            | 1                  | 1                   | 16   | 1070              | 5350        | 15.1       |  | 132                            | 126 | 204            | 168 | 204            | 177 | 1              | 1              |
| GEG140ES             | GEG140ES-2RS | 140                      | 230 | 130 | 80  | 200            | 1                  | 1                   | 16   | 1360              | 6800        | 18.9       |  | 151                            | 146 | 224            | 186 | 224            | 196 | 1              | 1              |
| GEG160ES             | GEG160ES-2RS | 160                      | 260 | 135 | 80  | 225            | 1.1                | 1.1                 | 16   | 1530              | 7650        | 24.8       |  | 176                            | 166 | 254            | 214 | 254            | 224 | 1.1            | 1.1            |
| GEG180ES             | GEG180ES-2RS | 180                      | 290 | 155 | 100 | 250            | 1.1                | 1.1                 | 14   | 2120              | 10600       | 35.9       |  | 196                            | 187 | 283            | 233 | 283            | 245 | 1.1            | 1.1            |
| GEG200ES             | GEG200ES-2RS | 200                      | 320 | 165 | 100 | 275            | 1.1                | 1.1                 | 15   | 2320              | 11600       | 44.9       |  | 220                            | 207 | 313            | 260 | 313            | 272 | 1.1            | 1.1            |
| GEG220ES             | GEG220ES-2RS | 220                      | 340 | 175 | 100 | 300            | 1.1                | 1.1                 | 16   | 2550              | 12700       | 50.9       |  | 243                            | 227 | 333            | 286 | 333            | 299 | 1.1            | 1.1            |
| GEG240ES             | GEG240ES-2RS | 240                      | 370 | 190 | 110 | 325            | 1.1                | 1.1                 | 15   | 3030              | 15190       | 65.3       |  | 263                            | 247 | 363            | 310 | 363            | 323 | 1.1            | 1.1            |
| GEG260ES             | GEG260ES-2RS | 260                      | 400 | 205 | 120 | 350            | 1.1                | 1.1                 | 15   | 3570              | 17850       | 82         |  | 285                            | 267 | 393            | 333 | 393            | 346 | 1.1            | 1.1            |
| GEG280ES             | GEG280ES-2RS | 280                      | 430 | 210 | 120 | 375            | 1.1                | 1.1                 | 15   | 3800              | 19100       | 96.6       |  | 310                            | 287 | 423            | 360 | 423            | 373 | 1.1            | 1.1            |

Note: ① Outer ring has an axial slit, inner ring and outer ring are of bearing steel, hardened and phosphated, sliding surface treated with MoS<sub>2</sub>. All bearings have an annular groove and lubrication in each ring except those of the E design. Bearings of the 2RS design are fitted with seals at both sides.

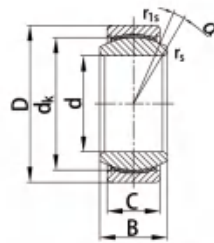
Sliding contact surfaces: Steel / PTFE composite material



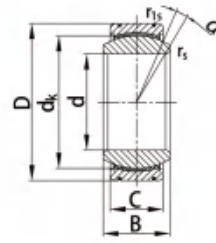
| Bearing Designations | Principal Dimensions (mm) |    |    |    |                |                    |                     |    | Load Ratings (KN) |             | Weight ≈kg |  |  | Abutment and Fillet Dimensions |     |                |     |                |                |
|----------------------|---------------------------|----|----|----|----------------|--------------------|---------------------|----|-------------------|-------------|------------|--|--|--------------------------------|-----|----------------|-----|----------------|----------------|
|                      | d                         | D  | B  | C  | d <sub>k</sub> | r <sub>s</sub> min | r <sub>1s</sub> min | α° | Dynamic Load      | Static Load |            |  |  | d <sub>a</sub>                 |     | D <sub>a</sub> |     | r <sub>a</sub> | r <sub>b</sub> |
|                      |                           |    |    |    |                |                    |                     |    |                   |             |            |  |  | max                            | min | max            | min | max            | max            |
| GE4C                 | 4                         | 12 | 5  | 3  | 8              | 0.3                | 0.3                 | 16 | 2.1               | 5.4         | 0.003      |  |  | 6                              | 6   | 10             | 8   | 0.3            | 0.3            |
| GE5C                 | 5                         | 14 | 6  | 4  | 10             | 0.3                | 0.3                 | 13 | 3.6               | 9.1         | 0.005      |  |  | 7                              | 7   | 12             | 10  | 0.3            | 0.3            |
| GE6C                 | 6                         | 14 | 6  | 4  | 10             | 0.3                | 0.3                 | 13 | 3.6               | 9.1         | 0.004      |  |  | 8                              | 8   | 12             | 10  | 0.3            | 0.3            |
| GE8C                 | 8                         | 16 | 8  | 5  | 13             | 0.3                | 0.3                 | 15 | 5.8               | 14          | 0.007      |  |  | 10                             | 10  | 14             | 13  | 0.3            | 0.3            |
| GE10C                | 10                        | 19 | 9  | 6  | 16             | 0.3                | 0.3                 | 12 | 8.6               | 21          | 0.011      |  |  | 13                             | 13  | 17             | 17  | 0.3            | 0.3            |
| GE12C                | 12                        | 22 | 10 | 7  | 18             | 0.3                | 0.3                 | 10 | 11                | 28          | 0.017      |  |  | 15                             | 15  | 19             | 18  | 0.3            | 0.3            |
| GE15C                | 15                        | 26 | 12 | 9  | 22             | 0.3                | 0.3                 | 8  | 18                | 45          | 0.026      |  |  | 18                             | 18  | 23             | 21  | 0.3            | 0.3            |
| GE17C                | 17                        | 30 | 14 | 10 | 25             | 0.3                | 0.3                 | 10 | 22                | 56          | 0.04       |  |  | 20                             | 20  | 27             | 24  | 0.3            | 0.3            |
| GE20C                | 20                        | 35 | 16 | 12 | 29             | 0.3                | 0.3                 | 9  | 31                | 78          | 0.064      |  |  | 24                             | 23  | 31             | 28  | 0.3            | 0.3            |
| GE25C                | 25                        | 42 | 20 | 16 | 35.5           | 0.6                | 0.6                 | 7  | 51                | 127         | 0.115      |  |  | 29                             | 28  | 38             | 33  | 0.6            | 0.6            |
| GE30C                | 30                        | 47 | 22 | 18 | 40.7           | 0.6                | 0.6                 | 6  | 65                | 166         | 0.149      |  |  | 34                             | 33  | 43             | 38  | 0.6            | 0.6            |
| GE35C                | 35                        | 55 | 25 | 20 | 47             | 0.6                | 1                   | 6  | 84                | 211         | 0.228      |  |  | 39                             | 38  | 50             | 44  | 0.6            | 1              |
| GE40C                | 40                        | 62 | 28 | 22 | 53             | 0.6                | 1                   | 7  | 104               | 262         | 0.318      |  |  | 45                             | 44  | 57             | 50  | 0.6            | 1              |
| GE45C                | 45                        | 68 | 32 | 25 | 60             | 0.6                | 1                   | 7  | 135               | 337         | 0.421      |  |  | 50                             | 49  | 63             | 56  | 0.6            | 1              |
| GE50C                | 50                        | 75 | 35 | 28 | 66             | 0.6                | 1                   | 6  | 166               | 415         | 0.562      |  |  | 55                             | 54  | 70             | 61  | 0.6            | 1              |
|                      |                           |    |    |    |                |                    |                     |    |                   |             |            |  |  |                                |     |                |     |                |                |
| GEG4C                | 4                         | 14 | 7  | 4  | 10             | 0.3                | 0.3                 | 20 | 3.6               | 9.1         | 0.005      |  |  | 7                              | 6   | 12             | 10  | 0.3            | 0.3            |
| GEG5C                | 5                         | 16 | 9  | 5  | 13             | 0.3                | 0.3                 | 21 | 5.8               | 14          | 0.008      |  |  | 8                              | 7   | 14             | 12  | 0.3            | 0.3            |
| GEG6C                | 6                         | 16 | 9  | 5  | 13             | 0.3                | 0.3                 | 21 | 5.8               | 14          | 0.006      |  |  | 9                              | 8   | 14             | 12  | 0.3            | 0.3            |
| GEG8C                | 8                         | 19 | 11 | 6  | 16             | 0.3                | 0.3                 | 21 | 8.6               | 21          | 0.014      |  |  | 11                             | 10  | 17             | 15  | 0.3            | 0.3            |
| GEG10C               | 10                        | 22 | 12 | 7  | 18             | 0.3                | 0.3                 | 18 | 11                | 28          | 0.021      |  |  | 13                             | 13  | 20             | 18  | 0.3            | 0.3            |
| GEG12C               | 12                        | 26 | 15 | 9  | 22             | 0.3                | 0.3                 | 18 | 18                | 45          | 0.033      |  |  | 16                             | 15  | 23             | 21  | 0.3            | 0.3            |
| GEG15C               | 15                        | 30 | 16 | 10 | 25             | 0.3                | 0.3                 | 16 | 22                | 56          | 0.049      |  |  | 19                             | 18  | 27             | 24  | 0.3            | 0.3            |
| GEG17C               | 17                        | 35 | 20 | 12 | 29             | 0.3                | 0.3                 | 19 | 31                | 78          | 0.083      |  |  | 21                             | 20  | 32             | 28  | 0.3            | 0.3            |
| GEG20C               | 20                        | 42 | 25 | 16 | 35.5           | 0.3                | 0.3                 | 17 | 51                | 127         | 0.153      |  |  | 24                             | 23  | 38             | 33  | 0.3            | 0.3            |
| GEG25C               | 25                        | 47 | 28 | 18 | 40.7           | 0.6                | 0.6                 | 17 | 65                | 166         | 0.203      |  |  | 29                             | 28  | 43             | 38  | 0.6            | 0.6            |
| GEG30C               | 30                        | 55 | 32 | 20 | 47             | 0.6                | 1                   | 17 | 84                | 211         | 0.304      |  |  | 34                             | 33  | 50             | 44  | 0.6            | 1              |
| GEG35C               | 35                        | 62 | 35 | 22 | 53             | 0.6                | 1                   | 16 | 104               | 262         | 0.408      |  |  | 39                             | 38  | 57             | 50  | 0.6            | 1              |
| GEG40C               | 40                        | 68 | 40 | 25 | 60             | 0.6                | 1                   | 17 | 135               | 337         | 0.542      |  |  | 44                             | 44  | 63             | 56  | 0.6            | 1              |
| GEG45C               | 45                        | 75 | 43 | 28 | 66             | 0.6                | 1                   | 15 | 166               | 415         | 0.713      |  |  | 50                             | 49  | 70             | 61  | 0.6            | 1              |

Note: ① Outer ring is of carbon steel, extrusion forming with sliding surface of PTFE composite material. Inner ring is of bearing steel, hardened, sliding surface treated with hard chromium coating.  
② The inner and outer rings can be made of stainless steel, mark "X" as the suffix, that is GE...C/X

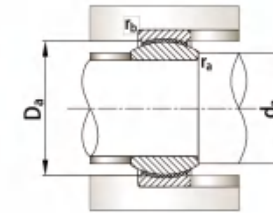
Sliding contact surfaces: Steel / PTFE composite material



GE...ETL-2RS



GE...XTL-2RS



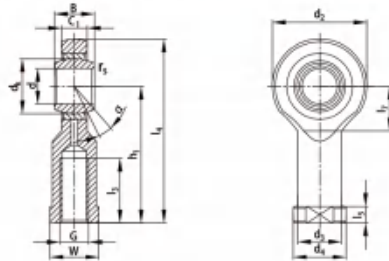
| Bearing Designations | Principal Dimensions (mm) |     |     |     |                |                    |                     |      | Load Ratings (kN) |             | Weight ~kg |  | Abutment and Fillet Dimensions |     |                |     |                |                |
|----------------------|---------------------------|-----|-----|-----|----------------|--------------------|---------------------|------|-------------------|-------------|------------|--|--------------------------------|-----|----------------|-----|----------------|----------------|
|                      | d                         | D   | B   | C   | d <sub>k</sub> | r <sub>s min</sub> | r <sub>1s min</sub> | α° ≈ | Dynamic Load      | Static Load |            |  | d <sub>a</sub>                 |     | D <sub>a</sub> |     | r <sub>a</sub> | r <sub>b</sub> |
|                      |                           |     |     |     |                |                    |                     |      |                   |             |            |  | max                            | min | max            | min | max            | max            |
| GE15ETL-2RS          | 15                        | 26  | 12  | 9   | 22             | 0.3                | 0.3                 | 8    | 47                | 79          | 0.026      |  | 18                             | 18  | 23             | 21  | 0.3            | 0.3            |
| GE17ETL-2RS          | 17                        | 30  | 14  | 10  | 25             | 0.3                | 0.3                 | 10   | 60                | 100         | 0.04       |  | 20                             | 20  | 27             | 24  | 0.3            | 0.3            |
| GE20ETL-2RS          | 20                        | 35  | 16  | 12  | 29             | 0.3                | 0.3                 | 9    | 83                | 139         | 0.064      |  | 24                             | 23  | 31             | 28  | 0.3            | 0.3            |
| GE25ETL-2RS          | 25                        | 42  | 20  | 16  | 35.5           | 0.6                | 0.6                 | 7    | 135               | 225         | 0.115      |  | 29                             | 28  | 38             | 33  | 0.6            | 0.6            |
| GE30ETL-2RS          | 30                        | 47  | 22  | 18  | 40.7           | 0.6                | 0.6                 | 6    | 175               | 290         | 0.149      |  | 34                             | 33  | 43             | 38  | 0.6            | 0.6            |
| GE35ETL-2RS          | 35                        | 55  | 25  | 20  | 47             | 0.6                | 1                   | 6    | 225               | 375         | 0.228      |  | 39                             | 38  | 50             | 44  | 0.6            | 1              |
| GE40ETL-2RS          | 40                        | 62  | 28  | 22  | 53             | 0.6                | 1                   | 7    | 275               | 465         | 0.318      |  | 45                             | 44  | 57             | 50  | 0.6            | 1              |
| GE45ETL-2RS          | 45                        | 68  | 32  | 25  | 60             | 0.6                | 1                   | 7    | 360               | 600         | 0.421      |  | 50                             | 49  | 63             | 56  | 0.6            | 1              |
| GE50ETL-2RS          | 50                        | 75  | 35  | 28  | 66             | 0.6                | 1                   | 6    | 440               | 735         | 0.562      |  | 55                             | 54  | 70             | 61  | 0.6            | 1              |
| GE55ETL-2RS          | 55                        | 85  | 40  | 32  | 74             | 0.6                | 1                   | 7    | 560               | 940         | 0.864      |  | 60                             | 59  | 80             | 70  | 0.6            | 1              |
| GE60ETL-2RS          | 60                        | 90  | 44  | 36  | 80             | 1                  | 1                   | 6    | 690               | 1150        | 1.03       |  | 66                             | 65  | 84             | 73  | 1              | 1              |
| GE70ETL-2RS          | 70                        | 105 | 49  | 40  | 92             | 1                  | 1                   | 6    | 880               | 1470        | 1.57       |  | 77                             | 75  | 99             | 84  | 1              | 1              |
| GE80ETL-2RS          | 80                        | 120 | 55  | 45  | 105            | 1                  | 1                   | 6    | 1130              | 1890        | 2.32       |  | 88                             | 85  | 114            | 97  | 1              | 1              |
| GE90ETL-2RS          | 90                        | 130 | 60  | 50  | 115            | 1                  | 1                   | 5    | 1380              | 2300        | 2.79       |  | 98                             | 96  | 124            | 106 | 1              | 1              |
| GE100ETL-2RS         | 100                       | 150 | 70  | 55  | 130            | 1                  | 1                   | 7    | 1710              | 2860        | 4.44       |  | 109                            | 106 | 144            | 120 | 1              | 1              |
| GE110ETL-2RS         | 110                       | 160 | 70  | 55  | 140            | 1                  | 1                   | 6    | 1840              | 3080        | 4.83       |  | 120                            | 116 | 154            | 131 | 1              | 1              |
| GE120ETL-2RS         | 120                       | 180 | 85  | 70  | 160            | 1                  | 1                   | 6    | 2680              | 4480        | 8.11       |  | 130                            | 126 | 174            | 146 | 1              | 1              |
| GE140XTL-2RS         | 140                       | 210 | 90  | 70  | 180            | 1                  | 1                   | 7    | 3020              | 5040        | 11.2       |  | 160                            | 146 | 204            | 168 | 1              | 1              |
| GE160XTL-2RS         | 160                       | 230 | 105 | 80  | 200            | 1                  | 1                   | 8    | 3840              | 6400        | 14.1       |  | 170                            | 166 | 224            | 186 | 1              | 1              |
| GE180XTL-2RS         | 180                       | 260 | 105 | 80  | 225            | 1.1                | 1.1                 | 6    | 4320              | 7200        | 18.5       |  | 192                            | 187 | 253            | 214 | 1.1            | 1.1            |
| GE200XTL-2RS         | 200                       | 290 | 130 | 100 | 250            | 1.1                | 1.1                 | 7    | 6000              | 10000       | 28.4       |  | 212                            | 207 | 283            | 233 | 1.1            | 1.1            |
| GE220XTL-2RS         | 220                       | 320 | 135 | 100 | 275            | 1.1                | 1.1                 | 8    | 6600              | 11000       | 35.7       |  | 238                            | 227 | 313            | 260 | 1.1            | 1.1            |
| GE240XTL-2RS         | 240                       | 340 | 140 | 100 | 300            | 1.1                | 1.1                 | 8    | 7200              | 12000       | 39.7       |  | 265                            | 247 | 333            | 286 | 1.1            | 1.1            |
| GE260XTL-2RS         | 260                       | 370 | 150 | 110 | 325            | 1.1                | 1.1                 | 7    | 8580              | 14300       | 51.5       |  | 280                            | 267 | 363            | 310 | 1.1            | 1.1            |
| GE280XTL-2RS         | 280                       | 400 | 155 | 120 | 350            | 1.1                | 1.1                 | 6    | 10000             | 16800       | 64.9       |  | 310                            | 287 | 393            | 333 | 1.1            | 1.1            |
| GE300XTL-2RS         | 300                       | 430 | 165 | 120 | 375            | 1.1                | 1.1                 | 7    | 10800             | 18000       | 77.6       |  | 330                            | 307 | 423            | 360 | 1.1            | 1.1            |

Note: ① The outer ring has an axial slit with two seals at both sides. Outer ring is of bearing steel, hardened, phosphated, with sliding surface of PTFE composite material. Inner ring is of bearing steel, quenched, sliding surface coated with hard chromium. Part no. with suffix of XTL, means that the outer ring is splitted into two parts axially, held together by retaining rings.

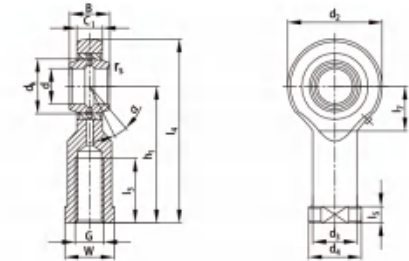
② Radial spherical plain bearings with seals "2RS" and without seals are both available.



Sliding contact surfaces: Steel/Steel



SI...E



SI...ES 、SIS...ES

| Bearing Designations | Principal Dimensions(mm) |    |                |                    |                |         |                |                    |                |                |                |  | Principal Dimensions(mm) |                |                |                    |      | Basic Load Ratings(KN) |            | Weight ≈kg |
|----------------------|--------------------------|----|----------------|--------------------|----------------|---------|----------------|--------------------|----------------|----------------|----------------|--|--------------------------|----------------|----------------|--------------------|------|------------------------|------------|------------|
|                      | d                        | B  | d <sub>k</sub> | C <sub>1</sub> max | d <sub>2</sub> | G 6H    | h <sub>1</sub> | l <sub>3</sub> min | l <sub>4</sub> | l <sub>5</sub> | l <sub>7</sub> |  | W                        | d <sub>3</sub> | d <sub>4</sub> | r <sub>s</sub> min | α° ≈ | Dynamic Cr             | Static Cor |            |
| SI5E                 | 5                        | 6  | 10             | 4.5                | 21             | M5      | 30             | 11                 | 40.5           | 5              | 11.5           |  | 10                       | 10             | 13             | 0.3                | 13   | 3.4                    | 8.1        | 0.023      |
| SI6E                 | 6                        | 6  | 10             | 4.5                | 21             | M6      | 30             | 11                 | 40.5           | 5              | 11.5           |  | 11                       | 11             | 13             | 0.3                | 13   | 3.4                    | 8.1        | 0.023      |
| SI8E                 | 8                        | 8  | 13             | 6.5                | 24             | M8      | 36             | 15                 | 48             | 5              | 13             |  | 13                       | 13             | 16             | 0.3                | 15   | 5.5                    | 12.9       | 0.04       |
| SI10E                | 10                       | 9  | 16             | 7.5                | 29             | M10     | 43             | 20                 | 57.5           | 6.5            | 15             |  | 16                       | 16             | 19             | 0.3                | 12   | 8.1                    | 17.6       | 0.065      |
| SI12E                | 12                       | 10 | 18             | 8.5                | 34             | M12     | 50             | 23                 | 67             | 7              | 18             |  | 18                       | 19             | 22             | 0.3                | 10   | 10                     | 24.5       | 0.108      |
| SI15ES               | 15                       | 12 | 22             | 10.5               | 40             | M14     | 61             | 30                 | 81             | 8              | 21             |  | 21                       | 21             | 26             | 0.3                | 8    | 16                     | 36         | 0.169      |
| SI17ES               | 17                       | 14 | 25             | 11.5               | 46             | M16     | 67             | 34                 | 90             | 10             | 24             |  | 27                       | 25             | 29             | 0.3                | 10   | 21                     | 45         | 0.235      |
| SI20ES               | 20                       | 16 | 29             | 13.5               | 53             | M20X1.5 | 77             | 40                 | 103.5          | 10             | 25.5           |  | 30                       | 28             | 34             | 0.3                | 9    | 30                     | 60         | 0.335      |
| SI25ES               | 25                       | 20 | 35.5           | 18                 | 64             | M24X2   | 94             | 48                 | 126            | 12             | 33             |  | 36                       | 35             | 42             | 0.6                | 7    | 48                     | 83         | 0.665      |
| SI30ES               | 30                       | 22 | 40.7           | 20                 | 73             | M30X2   | 110            | 56                 | 146.5          | 15             | 37.5           |  | 46                       | 42             | 50             | 0.6                | 6    | 62                     | 110        | 1.05       |
| SI35ES               | 35                       | 25 | 47             | 22                 | 82             | M36X3   | 125            | 60                 | 166            | 15             | 40             |  | 55                       | 48             | 58             | 0.6                | 6    | 79                     | 146        | 1.5        |
| SI40ES               | 40                       | 28 | 53             | 24                 | 92             | M39X3   | 142            | 65                 | 188            | 18             | 47             |  | 60                       | 52             | 65             | 0.6                | 7    | 99                     | 180        | 2.05       |
| SIS40ES              | 40                       | 28 | 53             | 24                 | 92             | M42X3   | 142            | 65                 | 188            | 18             | 47             |  | 55                       | 52             | 65             | 0.6                | 7    | 99                     | 180        | 1.94       |
| SI45ES               | 45                       | 32 | 60             | 28                 | 102            | M42X3   | 145            | 65                 | 196            | 20             | 52             |  | 65                       | 58             | 70             | 0.6                | 7    | 127                    | 240        | 2.72       |
| SIS45ES              | 45                       | 32 | 60             | 27                 | 102            | M45X3   | 145            | 65                 | 196            | 20             | 52             |  | 60                       | 58             | 70             | 0.6                | 7    | 127                    | 240        | 2.61       |
| SI50ES               | 50                       | 35 | 66             | 31                 | 112            | M45X3   | 160            | 68                 | 216            | 20             | 57             |  | 70                       | 62             | 75             | 0.6                | 6    | 156                    | 290        | 3.48       |
| SIS50ES              | 50                       | 35 | 66             | 31                 | 112            | M52X3   | 160            | 69                 | 216            | 20             | 57             |  | 65                       | 62             | 75             | 0.6                | 6    | 156                    | 260        | 3.24       |
| SI60ES               | 60                       | 44 | 80             | 39                 | 135            | M52X3   | 175            | 70                 | 242.5          | 20             | 68.5           |  | 80                       | 70             | 88             | 1                  | 6    | 245                    | 450        | 5.55       |
| SIS60ES              | 60                       | 44 | 80             | 39                 | 135            | M60X4   | 175            | 73                 | 242.5          | 20             | 68.5           |  | 75                       | 70             | 88             | 1                  | 6    | 245                    | 300        | 4.99       |
| SI70ES               | 70                       | 49 | 92             | 43                 | 160            | M56X4   | 200            | 80                 | 280            | 20             | 81             |  | 85                       | 80             | 98             | 1                  | 6    | 313                    | 610        | 8.72       |
| SIS70ES              | 70                       | 49 | 92             | 42                 | 160            | M72X4   | 200            | 80                 | 280            | 20             | 81             |  | 80                       | 85             | 98             | 1                  | 6    | 313                    | 470        | 8.33       |
| SI80ES               | 80                       | 55 | 105            | 48                 | 180            | M64X4   | 230            | 85                 | 320            | 25             | 91             |  | 95                       | 95             | 110            | 1                  | 6    | 400                    | 750        | 12.9       |
| SIS80ES              | 80                       | 55 | 105            | 47                 | 180            | M80X4   | 230            | 85                 | 320            | 25             | 91             |  | 100                      | 95             | 110            | 1                  | 6    | 400                    | 600        | 11.7       |

Note: ① Rod end spherical plain bearing with cartridge design is assembled by rod end and radial spherical plain bearing series GE...E or GE...ES. The material of rod end is carbon steel and the surface is coated with zinc. Except for the item with suffix "E", other items can be lubricated via a nipple or a hole in the rod end.

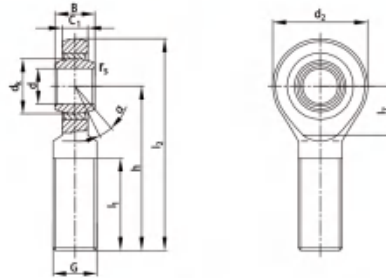
② If it is a left-hand thread, the bearing type and thread mark should be added with suffix "L".

For example: SIL20ES M20X1.5 L-6H

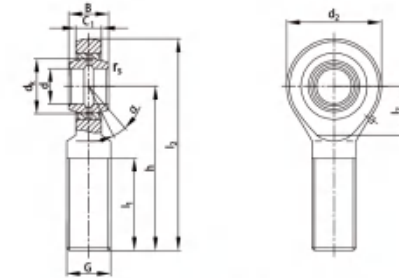
③ Rod end spherical plain bearings with different pitches or thread precisions with special requirements can also be available.



Sliding contact surfaces: Steel/Steel



SA...E



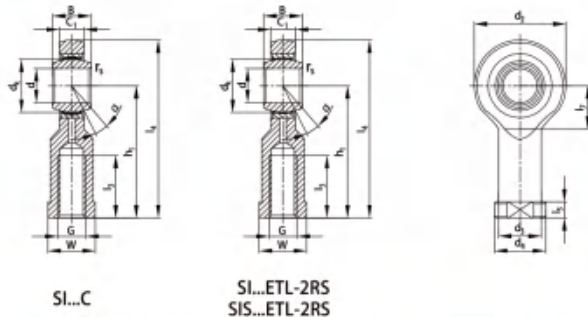
SA...ES 、 SAS...ES

| Bearing Designations | Principal Dimensions(mm) |    |      |                       |                |         |     |                       |  | Principal Dimensions(mm) |                |                       |                     | Basic Load Ratings(KN) |            | Weight<br>≈kg |
|----------------------|--------------------------|----|------|-----------------------|----------------|---------|-----|-----------------------|--|--------------------------|----------------|-----------------------|---------------------|------------------------|------------|---------------|
|                      | d                        | B  | dk   | C <sub>1</sub><br>max | d <sub>2</sub> | G<br>6g | h   | l <sub>1</sub><br>min |  | l <sub>2</sub>           | l <sub>7</sub> | r <sub>s</sub><br>min | α <sub>s</sub><br>≈ | Dynamic Cr             | Static Cor |               |
| SA5E                 | 5                        | 6  | 10   | 4.5                   | 21             | M5      | 36  | 16                    |  | 46.5                     | 11.5           | 0.3                   | 13                  | 3.4                    | 3.9        | 0.015         |
| SA6E                 | 6                        | 6  | 10   | 4.5                   | 21             | M6      | 36  | 16                    |  | 46.5                     | 11.5           | 0.3                   | 13                  | 3.4                    | 5.5        | 0.016         |
| SA8E                 | 8                        | 8  | 13   | 6.5                   | 24             | M8      | 42  | 21                    |  | 54                       | 13             | 0.3                   | 15                  | 5.5                    | 10         | 0.026         |
| SA10E                | 10                       | 9  | 16   | 7.5                   | 29             | M10     | 48  | 26                    |  | 62.5                     | 15.5           | 0.3                   | 12                  | 8.1                    | 16         | 0.05          |
| SA12E                | 12                       | 10 | 18   | 8.5                   | 34             | M12     | 54  | 28                    |  | 71                       | 18             | 0.3                   | 10                  | 10                     | 23         | 0.068         |
| SA15ES               | 15                       | 12 | 22   | 10.5                  | 40             | M14     | 63  | 34                    |  | 83                       | 21             | 0.3                   | 8                   | 16                     | 32         | 0.12          |
| SA17ES               | 17                       | 14 | 25   | 11.5                  | 46             | M16     | 69  | 36                    |  | 92                       | 24             | 0.3                   | 10                  | 21                     | 44         | 0.19          |
| SA20ES               | 20                       | 16 | 29   | 13.5                  | 53             | M20X1.5 | 78  | 43                    |  | 104.5                    | 25.5           | 0.3                   | 9                   | 30                     | 60         | 0.3           |
| SA25ES               | 25                       | 20 | 35.5 | 18                    | 64             | M24X2   | 94  | 53                    |  | 126                      | 31             | 0.6                   | 7                   | 48                     | 83         | 0.555         |
| SA30ES               | 30                       | 22 | 40.7 | 20                    | 73             | M30X2   | 110 | 65                    |  | 146.5                    | 35.5           | 0.6                   | 6                   | 62                     | 110        | 0.875         |
| SA35ES               | 35                       | 25 | 47   | 22                    | 82             | M36X3   | 140 | 82                    |  | 181                      | 41             | 0.6                   | 6                   | 79                     | 146        | 1.42          |
| SA40ES               | 40                       | 28 | 53   | 24                    | 92             | M39X3   | 150 | 86                    |  | 196                      | 47             | 0.6                   | 7                   | 99                     | 180        | 1.85          |
| SAS40ES              | 40                       | 28 | 53   | 23                    | 92             | M42X3   | 145 | 86                    |  | 191                      | 47             | 0.6                   | 7                   | 99                     | 180        | 2.04          |
| SA45ES               | 45                       | 32 | 60   | 26                    | 102            | M42X3   | 163 | 92                    |  | 214                      | 52             | 0.6                   | 7                   | 127                    | 240        | 2.49          |
| SAS45ES              | 45                       | 32 | 60   | 27                    | 102            | M45X3   | 165 | 95                    |  | 216                      | 52             | 0.6                   | 7                   | 127                    | 240        | 2.74          |
| SA50ES               | 50                       | 35 | 66   | 31                    | 112            | M45X3   | 185 | 104                   |  | 241                      | 60             | 0.6                   | 6                   | 156                    | 290        | 3.58          |
| SAS50ES              | 50                       | 35 | 66   | 30                    | 112            | M52X3   | 195 | 110                   |  | 251                      | 60             | 0.6                   | 6                   | 156                    | 290        | 4.07          |
| SA60ES               | 60                       | 44 | 80   | 39                    | 135            | M52X3   | 210 | 115                   |  | 277.5                    | 75.5           | 1.0                   | 6                   | 245                    | 450        | 5.89          |
| SAS60ES              | 60                       | 44 | 80   | 38                    | 135            | M60X4   | 225 | 120                   |  | 292.5                    | 75.5           | 1.0                   | 6                   | 245                    | 450        | 6.79          |
| SA70ES               | 70                       | 49 | 92   | 43                    | 160            | M56X4   | 235 | 125                   |  | 315                      | 95             | 1.0                   | 6                   | 313                    | 610        | 8.51          |
| SAS70ES              | 70                       | 59 | 92   | 42                    | 160            | M72X4   | 265 | 132                   |  | 345                      | 95             | 1.0                   | 6                   | 313                    | 610        | 11.2          |
| SA80ES               | 80                       | 55 | 105  | 48                    | 180            | M64X4   | 270 | 140                   |  | 360                      | 105.5          | 1.0                   | 6                   | 400                    | 750        | 12.3          |
| SAS80ES              | 80                       | 55 | 105  | 47                    | 180            | M80X4   | 295 | 147                   |  | 385                      | 105.5          | 1.0                   | 6                   | 400                    | 750        | 15.3          |

Note: ① Rod end spherical plain bearing with cartridge design is assembled by rod end and radial spherical plain bearing series GE...E or GE...ES. The material of rod end is carbon steel and the surface is coated with zinc. Except for the item with suffix "E", other items can be lubricated via a nipple or a hole in the rod end.  
 ② If it is a left-hand thread, the bearing type and thread mark should be added with suffix "L".  
 For example: SIL20ES M20X1.5 L-6g  
 ③ Rod end spherical plain bearings with different pitches or thread precisions with special requirements can also be available.



Sliding contact surfaces: Steel/ PTFE composite material



| Bearing Designation | Principal Dimensions (mm) |    |                |                       |                |         |                |                       |                |                |                | Principal Dimensions (mm) |                |                |                       |    | Basic Load Ratings(KN)    |                           | Weight<br>≈kg |
|---------------------|---------------------------|----|----------------|-----------------------|----------------|---------|----------------|-----------------------|----------------|----------------|----------------|---------------------------|----------------|----------------|-----------------------|----|---------------------------|---------------------------|---------------|
|                     | d                         | B  | d <sub>k</sub> | C <sub>1</sub><br>max | d <sub>2</sub> | G<br>6H | h <sub>1</sub> | l <sub>3</sub><br>min | l <sub>4</sub> | l <sub>5</sub> | l <sub>7</sub> | W                         | d <sub>3</sub> | d <sub>4</sub> | r <sub>s</sub><br>min | α° | Dynamic<br>C <sub>r</sub> | Static<br>C <sub>0r</sub> |               |
| SI5C                | 5                         | 6  | 10             | 4.5                   | 21             | M5      | 30             | 11                    | 40.5           | 5              | 11.5           | 10                        | 10             | 13             | 0.3                   | 13 | 3.6                       | 8.1                       | 0.023         |
| SI6C                | 6                         | 6  | 10             | 4.5                   | 21             | M6      | 30             | 11                    | 40.5           | 5              | 11.5           | 11                        | 11             | 13             | 0.3                   | 13 | 3.6                       | 8.1                       | 0.023         |
| SI8C                | 8                         | 8  | 13             | 6.5                   | 24             | M8      | 36             | 15                    | 48             | 5              | 13             | 13                        | 13             | 16             | 0.3                   | 15 | 5.8                       | 12.9                      | 0.04          |
| SI10C               | 10                        | 9  | 16             | 7.5                   | 29             | M10     | 43             | 20                    | 57.5           | 6.5            | 15             | 16                        | 16             | 19             | 0.3                   | 12 | 8.6                       | 17.6                      | 0.065         |
| SI12C               | 12                        | 10 | 18             | 8.5                   | 34             | M12     | 50             | 23                    | 67             | 7              | 18             | 18                        | 19             | 22             | 0.3                   | 10 | 11                        | 24.5                      | 0.108         |
| SI15C               | 15                        | 12 | 22             | 10.5                  | 40             | M14     | 61             | 30                    | 81             | 8              | 21             | 21                        | 21             | 26             | 0.3                   | 8  | 18                        | 36                        | 0.169         |
| SI15ETL-2RS         | 15                        | 12 | 22             | 10.5                  | 40             | M14     | 61             | 30                    | 81             | 8              | 21             | 21                        | 21             | 26             | 0.3                   | 8  | 25                        | 36                        | 0.169         |
| SI17C               | 17                        | 14 | 25             | 11.5                  | 46             | M16     | 67             | 34                    | 90             | 10             | 24             | 27                        | 25             | 29             | 0.3                   | 10 | 22                        | 45                        | 0.235         |
| SI17ETL-2RS         | 17                        | 14 | 25             | 11.5                  | 46             | M16     | 67             | 34                    | 90             | 10             | 24             | 27                        | 25             | 29             | 0.3                   | 10 | 32                        | 45                        | 0.235         |
| SI20C               | 20                        | 16 | 29             | 13.5                  | 53             | M20X1.5 | 77             | 40                    | 103.5          | 10             | 25.5           | 30                        | 28             | 34             | 0.3                   | 9  | 31                        | 60                        | 0.335         |
| SI20ETL-2RS         | 20                        | 16 | 29             | 13.5                  | 53             | M20X1.5 | 77             | 40                    | 103.5          | 10             | 25.5           | 30                        | 28             | 34             | 0.3                   | 9  | 45                        | 60                        | 0.335         |
| SI25C               | 25                        | 20 | 35.5           | 18                    | 64             | M24X2   | 94             | 48                    | 126            | 12             | 33             | 36                        | 35             | 42             | 0.6                   | 7  | 51                        | 85                        | 0.665         |
| SI25ETL-2RS         | 25                        | 20 | 35.5           | 18                    | 64             | M24X2   | 94             | 48                    | 126            | 12             | 33             | 36                        | 35             | 42             | 0.6                   | 7  | 85                        | 85                        | 0.665         |
| SI30C               | 30                        | 22 | 40.7           | 20                    | 73             | M30X2   | 110            | 56                    | 146.5          | 15             | 37.5           | 46                        | 42             | 50             | 0.6                   | 6  | 65                        | 110                       | 1.05          |
| SI30ETL-2RS         | 30                        | 22 | 40.7           | 20                    | 73             | M30X2   | 110            | 56                    | 146.5          | 15             | 37.5           | 46                        | 42             | 50             | 0.6                   | 6  | 110                       | 110                       | 1.05          |
| SI35ETL-2RS         | 35                        | 25 | 47             | 22                    | 82             | M36X3   | 125            | 60                    | 166            | 15             | 40             | 55                        | 48             | 58             | 0.6                   | 6  | 140                       | 146                       | 1.50          |
| SI40ETL-2RS         | 40                        | 28 | 53             | 24                    | 92             | M39X3   | 142            | 65                    | 188            | 18             | 47             | 60                        | 52             | 65             | 0.6                   | 7  | 175                       | 180                       | 2.05          |
| SIS40ETL-2RS        | 40                        | 28 | 53             | 24                    | 92             | M42X3   | 142            | 65                    | 188            | 18             | 47             | 55                        | 52             | 65             | 0.6                   | 7  | 99                        | 180                       | 1.94          |
| SI45ETL-2RS         | 45                        | 32 | 60             | 28                    | 102            | M42X3   | 145            | 65                    | 196            | 20             | 52             | 65                        | 58             | 70             | 0.6                   | 7  | 225                       | 240                       | 2.72          |
| SIS45ETL-2RS        | 45                        | 32 | 60             | 27                    | 102            | M45X3   | 145            | 65                    | 196            | 20             | 52             | 60                        | 58             | 70             | 0.6                   | 7  | 127                       | 240                       | 2.61          |
| SI50ETL-2RS         | 50                        | 35 | 66             | 31                    | 112            | M45X3   | 160            | 68                    | 216            | 20             | 57             | 70                        | 62             | 75             | 0.6                   | 6  | 275                       | 290                       | 3.48          |
| SIS50ETL-2RS        | 50                        | 35 | 66             | 31                    | 112            | M52X3   | 160            | 69                    | 216            | 20             | 57             | 65                        | 62             | 75             | 0.6                   | 6  | 156                       | 260                       | 3.24          |
| SI60ETL-2RS         | 60                        | 44 | 80             | 39                    | 135            | M52X3   | 175            | 70                    | 242.5          | 20             | 68.5           | 80                        | 70             | 88             | 1                     | 6  | 430                       | 450                       | 5.55          |
| SIS60ETL-2RS        | 60                        | 44 | 80             | 39                    | 135            | M60X4   | 175            | 73                    | 242.5          | 20             | 68.5           | 75                        | 70             | 88             | 1                     | 6  | 245                       | 300                       | 4.99          |
| SI70ETL-2RS         | 70                        | 49 | 92             | 43                    | 160            | M56X4   | 200            | 80                    | 280            | 20             | 81             | 85                        | 80             | 98             | 1                     | 6  | 550                       | 610                       | 8.72          |
| SIS70ETL-2RS        | 70                        | 49 | 92             | 42                    | 160            | M72X4   | 200            | 80                    | 280            | 20             | 81             | 80                        | 85             | 98             | 1                     | 6  | 313                       | 470                       | 8.33          |
| SI80ETL-2RS         | 80                        | 55 | 105            | 48                    | 180            | M64X4   | 230            | 85                    | 320            | 25             | 91             | 95                        | 95             | 110            | 1                     | 6  | 705                       | 750                       | 12.9          |
| SIS80ETL-2RS        | 80                        | 55 | 105            | 47                    | 180            | M80X4   | 230            | 85                    | 320            | 25             | 91             | 100                       | 95             | 110            | 1                     | 6  | 400                       | 600                       | 11.7          |

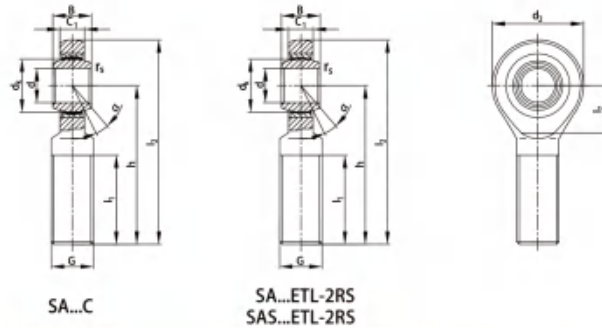
Note: ① Rod end radial spherical plain bearings maintenance-free SI...C with cartridge design is assembled by rod end and radial spherical plain bearing series GE...C. SI...ETL-2RS is assembled by rod end and radial spherical plain bearing series GE...ETL-2RS. The material of rod end is carbon steel and the surface is coated with zinc. No lubrication required.

② If it is a left-hand thread, the bearing type and thread mark should be added with "L". For example: SIL20ES M20X1.5 L-6H

③ Rod end spherical plain bearings with different pitches or thread precisions with special requirements can also be available.



Sliding contact surfaces: Steel/ PTFE composite material



| Bearing Designation | Principal Dimensions (mm) |    |                |                       |                |         |     |                       |                | Principal Dimensions (mm) |                       |         | Basic Load Ratings(KN)    |                           | Weight<br>≈kg |
|---------------------|---------------------------|----|----------------|-----------------------|----------------|---------|-----|-----------------------|----------------|---------------------------|-----------------------|---------|---------------------------|---------------------------|---------------|
|                     | d                         | B  | d <sub>k</sub> | C <sub>1</sub><br>max | d <sub>2</sub> | G<br>6g | h   | l <sub>1</sub><br>min | l <sub>2</sub> | l <sub>7</sub>            | r <sub>e</sub><br>min | α°<br>≈ | Dynamic<br>C <sub>r</sub> | Static<br>C <sub>0r</sub> |               |
| SA5C                | 5                         | 6  | 10             | 4.5                   | 21             | M5      | 36  | 16                    | 46.5           | 11.5                      | 0.3                   | 13      | 3.6                       | 3.9                       | 0.015         |
| SA6C                | 6                         | 6  | 10             | 4.5                   | 21             | M6      | 36  | 16                    | 46.5           | 11.5                      | 0.3                   | 13      | 3.6                       | 5.5                       | 0.016         |
| SA8C                | 8                         | 8  | 13             | 6.5                   | 24             | M8      | 42  | 21                    | 54             | 13                        | 0.3                   | 15      | 5.8                       | 10                        | 0.026         |
| SA10C               | 10                        | 9  | 16             | 7.5                   | 29             | M10     | 48  | 26                    | 62.5           | 15.5                      | 0.3                   | 12      | 8.6                       | 16                        | 0.05          |
| SA12C               | 12                        | 10 | 18             | 8.5                   | 34             | M12     | 54  | 28                    | 71             | 18                        | 0.3                   | 10      | 11                        | 23                        | 0.068         |
| SA15C               | 15                        | 12 | 22             | 10.5                  | 40             | M14     | 63  | 34                    | 83             | 21                        | 0.3                   | 8       | 18                        | 32                        | 0.12          |
| SA15ETL-2RS         | 15                        | 12 | 22             | 10.5                  | 40             | M14     | 63  | 34                    | 83             | 21                        | 0.3                   | 8       | 25                        | 32                        | 0.12          |
| SA17C               | 17                        | 14 | 25             | 11.5                  | 46             | M16     | 69  | 36                    | 92             | 24                        | 0.3                   | 10      | 22                        | 44                        | 0.19          |
| SA17ETL-2RS         | 17                        | 14 | 25             | 11.5                  | 46             | M16     | 69  | 36                    | 92             | 24                        | 0.3                   | 10      | 32                        | 44                        | 0.19          |
| SA20C               | 20                        | 16 | 29             | 13.5                  | 53             | M20X1.5 | 78  | 43                    | 104.5          | 25.5                      | 0.3                   | 9       | 31                        | 60                        | 0.3           |
| SA20ETL-2RS         | 20                        | 16 | 29             | 13.5                  | 53             | M20X1.5 | 78  | 43                    | 104.5          | 25.5                      | 0.3                   | 9       | 45                        | 60                        | 0.3           |
| SA25C               | 25                        | 20 | 35.5           | 18                    | 64             | M24X2   | 94  | 53                    | 126            | 31                        | 0.6                   | 7       | 51                        | 85                        | 0.555         |
| SA25ETL-2RS         | 25                        | 20 | 35.5           | 18                    | 64             | M24X2   | 94  | 53                    | 126            | 31                        | 0.6                   | 7       | 85                        | 85                        | 0.555         |
| SA30C               | 30                        | 22 | 40.7           | 20                    | 73             | M30X2   | 110 | 65                    | 146.5          | 35.5                      | 0.6                   | 6       | 65                        | 110                       | 0.875         |
| SA30ETL-2RS         | 30                        | 22 | 40.7           | 20                    | 73             | M30X2   | 110 | 65                    | 146.5          | 35.5                      | 0.6                   | 6       | 110                       | 110                       | 0.875         |
| SA35ETL-2RS         | 35                        | 25 | 47             | 22                    | 82             | M36X3   | 140 | 82                    | 181            | 41                        | 0.6                   | 6       | 140                       | 146                       | 1.42          |
| SA40ETL-2RS         | 40                        | 28 | 53             | 24                    | 92             | M39X3   | 150 | 86                    | 196            | 47                        | 0.6                   | 7       | 175                       | 180                       | 1.85          |
| SAS40ETL-2RS        | 40                        | 28 | 53             | 23                    | 92             | M42X3   | 145 | 86                    | 191            | 47                        | 0.6                   | 7       | 99                        | 180                       | 2.04          |
| SA45ETL-2RS         | 45                        | 32 | 60             | 28                    | 102            | M42X3   | 163 | 92                    | 214            | 52                        | 0.6                   | 7       | 225                       | 240                       | 2.49          |
| SAS45ETL-2RS        | 45                        | 32 | 60             | 27                    | 102            | M45X3   | 165 | 95                    | 216            | 52                        | 0.6                   | 7       | 127                       | 240                       | 2.74          |
| SA50ETL-2RS         | 50                        | 35 | 66             | 31                    | 112            | M45X3   | 185 | 104                   | 241            | 60                        | 0.6                   | 6       | 275                       | 290                       | 3.58          |
| SAS50ETL-2RS        | 50                        | 35 | 66             | 30                    | 112            | M52X3   | 195 | 110                   | 251            | 60                        | 0.6                   | 6       | 156                       | 290                       | 4.07          |
| SA60ETL-2RS         | 60                        | 44 | 80             | 39                    | 135            | M52X3   | 210 | 115                   | 277.5          | 75.5                      | 1                     | 6       | 430                       | 450                       | 5.89          |
| SAS60ETL-2RS        | 60                        | 44 | 80             | 38                    | 135            | M60X4   | 225 | 120                   | 292.5          | 75.5                      | 1                     | 6       | 245                       | 450                       | 6.79          |
| SA70ETL-2RS         | 70                        | 49 | 92             | 43                    | 160            | M56X4   | 235 | 125                   | 315            | 95                        | 1                     | 6       | 550                       | 610                       | 8.51          |
| SA70ETL-2RS         | 70                        | 49 | 92             | 42                    | 160            | M72X4   | 265 | 132                   | 345            | 95                        | 1                     | 6       | 313                       | 610                       | 11.2          |
| SA80ETL-2RS         | 80                        | 55 | 105            | 48                    | 180            | M64X4   | 270 | 140                   | 360            | 105.5                     | 1                     | 6       | 705                       | 750                       | 12.3          |
| SAS80ETL-2RS        | 80                        | 55 | 105            | 47                    | 180            | M80X4   | 295 | 147                   | 385            | 105.5                     | 1                     | 6       | 400                       | 750                       | 15.3          |

- Note: ① Rod end radial spherical plain bearings maintenance-free SA...C with cartridge design is assembled by rod end and radial spherical plain bearing series GE...C. SI...ETL-2RS is assembled by rod end and radial spherical plain bearing series GE...ETL-2RS. The material of rod end is carbon steel and the surface is coated with zinc. No lubrication required.
- ② If it is a left-hand thread, the bearing type and thread mark should be added with suffix "L", for example: SIL20ES M20X1.5 L-6H
- ③ Rod end spherical plain bearings with different pitches or thread precisions with special requirements can also be available.

