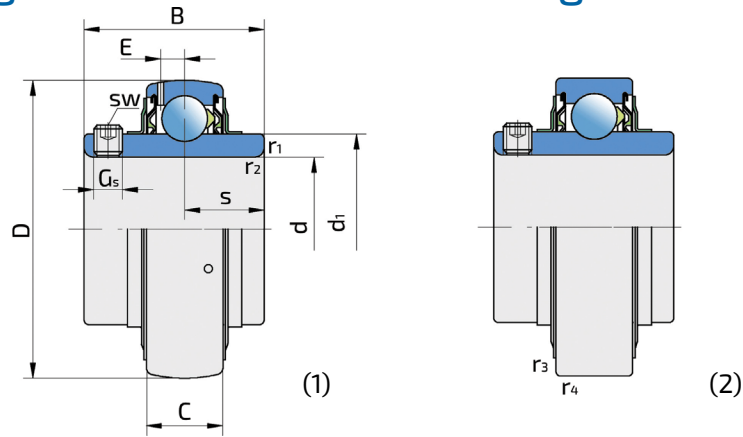
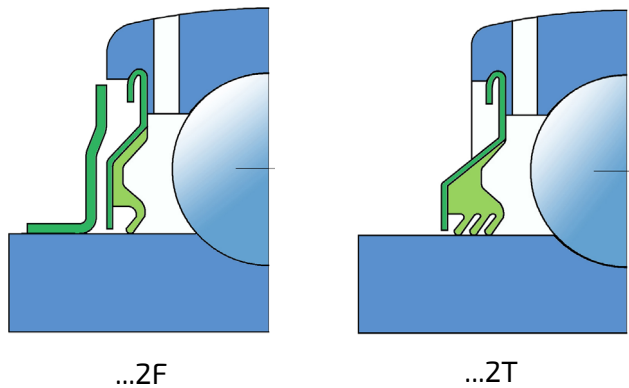


4.2. Y-Ball Bearings with Grub Screw Locking



LE...  
LE...SH

| Shaft |     | Dimensions (mm) |    |      |                |      |         |    |
|-------|-----|-----------------|----|------|----------------|------|---------|----|
| d     | D   | B               | C  | s    | d <sub>1</sub> | E    | Gs      | sw |
| 12    | 40  | 27.4            | 12 | 11.5 | 24.2           | 3.6  | M6x0.75 | 3  |
| 15    |     |                 |    |      |                |      |         |    |
| 17    |     |                 |    |      |                |      |         |    |
| 20    | 47  | 31              | 14 | 12.7 | 28.2           | 4.3  | M6x0.75 | 3  |
| 25    | 52  | 34.1            | 15 | 14.3 | 33.6           | 4.3  | M6x0.75 | 3  |
|       | 62  | 38              | 20 | 15   | 36.6           | 5    | M6x0.75 | 3  |
| 30    | 62  | 38.1            | 18 | 15.9 | 39.7           | 5.1  | M6x0.75 | 3  |
|       | 72  | 43              | 23 | 17   | 44.6           | 5.6  | M6x0.75 | 3  |
| 35    | 72  | 42.9            | 19 | 17.5 | 46.1           | 5.6  | M6x0.75 | 3  |
|       | 80  | 48              | 25 | 19   | 49.5           | 5.7  | M8x1    | 4  |
| 40    | 80  | 49.2            | 21 | 19   | 51.8           | 6.1  | M8x1    | 4  |
|       | 90  | 52              | 27 | 19   | 56.1           | 6.1  | M10x1   | 5  |
| 45    | 85  | 49.2            | 22 | 19   | 56.6           | 6.1  | M8x1    | 4  |
|       | 100 | 57              | 29 | 22   | 62.1           | 7.1  | M10x1   | 5  |
| 50    | 90  | 51.6            | 22 | 19   | 62.5           | 6.4  | M10x1   | 5  |
|       | 110 | 61              | 32 | 22   | 68.7           | 7.9  | M12x1.5 | 6  |
| 55    | 100 | 55.6            | 25 | 22.2 | 69.1           | 7    | M10x1   | 5  |
|       | 120 | 66              | 34 | 25   | 75.3           | 8.5  | M12x1.5 | 6  |
| 60    | 110 | 65.1            | 26 | 25.4 | 75.5           | 7.7  | M10x1   | 5  |
|       | 130 | 71              | 36 | 26   | 81.8           | 9    | M12x1.5 | 6  |
| 65    | 120 | 68.3            | 27 | 25.4 | 82.5           | 7.6  | M10x1   | 5  |
|       | 140 | 75              | 39 | 30   | 88.3           | 9.4  | M12x1.5 | 6  |
| 70    | 125 | 69.9            | 28 | 30.2 | 87.1           | 8.1  | M10x1   | 5  |
|       | 150 | 78              | 41 | 33   | 94.9           | 10   | M12x1.5 | 6  |
| 75    | 130 | 73.3            | 29 | 27   | 92.1           | 8.3  | M10x1   | 5  |
| 80    | 140 | 77.8            | 30 | 30.2 | 97.4           | 8.2  | M10x1   | 5  |
| 85    | 150 | 81              | 34 | 30.2 | 105            | 9.3  | M12x1.5 | 6  |
| 90    | 160 | 89              | 36 | 35   | 112.5          | 10   | M12x1.5 | 6  |
|       | 190 | 96              | 48 | 42   | 121            | 14.3 | M16x1.5 | 8  |
| 100   | 180 | 98.4            | 40 | 35   | 112.5          | 10   | M12x1.5 | 6  |
|       | 215 | 108             | 54 | 40   | 121            | 14.3 | M16x1.5 | 10 |
| 110   | 240 | 117             | 60 | 46   | 149            | 18   | M18x1.5 | 10 |
| 120   | 215 | 73.5            | 40 | 28.5 | 146.4          | 14   | M12x1.5 | 6  |
|       | 260 | 126             | 64 | 51   | 164            | 19.2 | M18x1.5 | 10 |



| Load ratings (kN) |                  |                  |                |                | Mass | Designation  |                 |
|-------------------|------------------|------------------|----------------|----------------|------|--------------|-----------------|
| r <sub>1,2</sub>  | r <sub>3,4</sub> | C <sub>dyn</sub> | C <sub>0</sub> | P <sub>u</sub> | kg   | 1            | 2               |
| 0.3               | 0.6              | 9.56             | 4.75           | 0.200          | 0.11 | LE 203/12 2F | LE 203/12 2F.SH |
|                   |                  |                  |                |                | 0.10 | LE 203/15 2F | LE 203/15 2F.SH |
|                   |                  |                  |                |                | 0.09 | LE 203 2F    | LE 203 2F.SH    |
| 0.6               | 0.6              | 12.7             | 6.55           | 0.280          | 0.14 | LE 204 2F    | LE 204 2F.SH    |
| 0.6               | 0.6              | 14               | 7.8            | 0.335          | 0.17 | LE 205 2F    | LE 205 2F.SH    |
| 1.1               | 1.1              | 22.5             | 11.6           | 0.490          | 0.35 | LE 305 2F    | LE 305 2F.SH    |
| 0.6               | 0.6              | 19.5             | 11.2           | 0.475          | 0.28 | LE 206 2F    | LE 206 2F.SH    |
| 1.1               | 1.1              | 28.1             | 16             | 0.670          | 0.56 | LE 306 2F    | LE 306 2F.SH    |
| 1                 | 1                | 25.5             | 15.3           | 0.655          | 0.41 | LE 207 2F    | LE 207 2F.SH    |
| 1.5               | 1.5              | 33.2             | 19             | 0.820          | 0.71 | LE 307 2F    | LE 307 2F.SH    |
| 1                 | 1                | 30.7             | 19             | 0.800          | 0.55 | LE 208 2F    | LE 208 2F.SH    |
| 1.5               | 1.5              | 41               | 24             | 1.020          | 0.96 | LE 308 2F    | LE 308 2F.SH    |
| 1                 | 1.5              | 33.2             | 21.6           | 0.915          | 0.60 | LE 209 2F    | LE 209 2F.SH    |
| 1.5               | 1.5              | 52.7             | 31.5           | 1.340          | 1.28 | LE 309 2F    | LE 309 2F.SH    |
| 1                 | 1.5              | 35.1             | 23.2           | 0.980          | 0.69 | LE 210 2F    | LE 210 2F.SH    |
| 2                 | 2                | 61.8             | 38             | 1.600          | 1.65 | LE 310 2F    | LE 310 2F.SH    |
| 1                 | 2                | 43.6             | 29             | 1.25           | 0.94 | LE 211 2F    | LE 211 2F.SH    |
| 2                 | 2                | 71.5             | 45             | 1.90           | 2.07 | LE 311 2F    | LE 311 2F.SH    |
| 1.5               | 2                | 52.7             | 36             | 1.53           | 1.30 | LE 212 2F    | LE 212 2F.SH    |
| 2.1               | 2.1              | 81.0             | 52             | 2.20           | 2.60 | LE 312 2F    | LE 312 2F.SH    |
| 1.5               | 2                | 57.2             | 40             | 1.70           | 1.70 | LE 213 2F    | LE 213 2F.SH    |
| 2.1               | 2.1              | 92.3             | 60             | 2.50           | 3.25 | LE 313 2F    | LE 313 2F.SH    |
| 1.5               | 2                | 62.4             | 44             | 1.86           | 1.90 | LE 214 2F    | LE 214 2F.SH    |
| 2.1               | 2.1              | 104              | 68             | 2.75           | 3.89 | LE 314 2F    | LE 314 2F.SH    |
| 1.5               | 2                | 66.3             | 49             | 2.04           | 2.10 | LE 215 2F    | LE 215 2F.SH    |
| 2                 | 2.5              | 72.8             | 53             | 2.16           | 2.80 | LE 216 2F    | LE 216 2F.SH    |
| 2                 | 2.5              | 83.2             | 62             | 2.50           | 3.30 | LE 217 2F    | LE 217 2F.SH    |
| 2                 | 2.5              | 95.6             | 72             | 2.70           | 4.10 | LE 218 2F    | LE 218 2F.SH    |
| 3                 | 3                | 151              | 108            | 3.80           | 7.87 | LE 318 2F    | LE 318 2F.SH    |
| 2                 | 2.5              | 124              | 93             | 3.35           | 5.65 | LE 220 2F    | LE 220 2F.SH    |
| 3                 | 3                | 174              | 140            | 4.75           | 11.2 | LE 320 2F    | LE 320 2F.SH    |
| 3                 | 3                | 203              | 180            | 5.70           | 15.1 | LE 322 2F    | LE 322 2F.SH    |
| 2                 | 2.5              | 155              | 113            | 3.90           | 6.20 | LE 224 2F    | LE 224 2F.SH    |
| 3                 | 3                | 208              | 186            | 5.70           | 19   | LE 324 2F    | LE 324 2F.SH    |