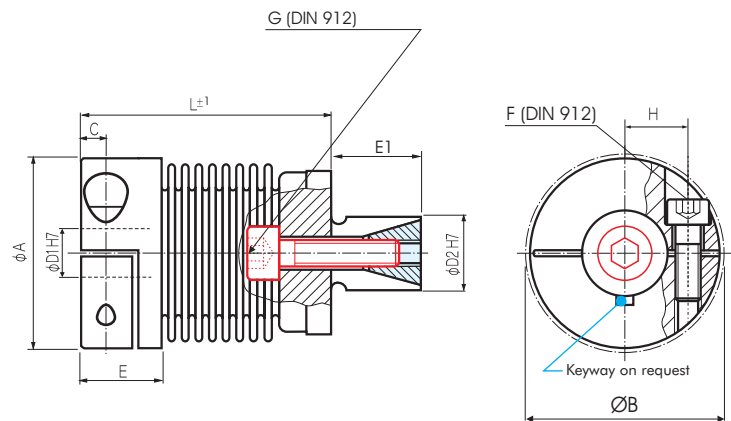


### Miniature Metal Bellows Coupling



**Order Code: KB 3 / 45 - 52 - 10 - S**

Type / Size      Length L      Ø D1      Options  
(H7)

|         | Torque<br>TKN<br>(Nm) | Dimensions (mm)     |                   |                                 |                        |                         |                  |     |    |    |         | Technical Ratings                    |             |   |                       |                       |                      |                       |     |  |
|---------|-----------------------|---------------------|-------------------|---------------------------------|------------------------|-------------------------|------------------|-----|----|----|---------|--------------------------------------|-------------|---|-----------------------|-----------------------|----------------------|-----------------------|-----|--|
|         |                       | L<br>Length<br>(±1) | Ø A<br>Outer<br>Ø | Bore Sizes<br>(H7)<br>min ~ max |                        | D2<br>Bore Size<br>(H7) | Ø B<br>Max.<br>Ø | H   | C  | E  | E1      | F/G<br>Screw<br>(DIN 912)<br>TA (Nm) | Mass<br>(g) | Moment of<br>Inertia<br>J<br>(g cm <sup>2</sup> ) | Spring Stiffness      |                       |                      | Misalignment          |     |  |
|         |                       |                     |                   | torsional<br>CT<br>(Nm/rad)     | radial<br>CR<br>(N/mm) |                         |                  |     |    |    |         |                                      |             |   | axial<br>CA<br>(N/mm) | radial<br>ΔKr<br>(mm) | axial<br>ΔKa<br>(mm) | angular<br>ΔKw<br>(°) |     |  |
| KB3/5   | 0.5                   | 20                  | 15.5              | 3-7                             | 8                      | 17,5                    | 5.2              | 2.5 | 8  | 8  | M2/M3   | 12.8                                 | 2.9         | 260   | 43                    | 13                    | 0.1                  | 0.2                   | 1   |  |
|         |                       | 0.3/1               |                   |                                 |                        |                         |                  |     |    |    | 13.2    | 3.1                                  | 200         | 18  | 10                    | 0.15                  | 0.3                  | 1.5                   |     |  |
|         |                       |                     |                   |                                 |                        |                         |                  |     |    |    | 13.5    | 3.2                                  | 160         | 9   | 8                     | 0.2                   | 0.4                  | 2                     |     |  |
| KB3/10  | 1                     | 22                  | 15.5              | 3-7                             | 8                      | 17,5                    | 5.2              | 2.5 | 8  | 8  | M2/M3   | 14.1                                 | 3.3         | 510   | 74                    | 27                    | 0.1                  | 0.2                   | 1   |  |
|         |                       | 0.3/1               |                   |                                 |                        |                         |                  |     |    |    | 14.6    | 3.4                                  | 380         | 31  | 20                    | 0.15                  | 0.3                  | 1.5                   |     |  |
|         |                       |                     |                   |                                 |                        |                         |                  |     |    |    | 15.3    | 3.6                                  | 310         | 16  | 16                    | 0.2                   | 0.4                  | 2                     |     |  |
| KB3/15  | 1.5                   | 25                  | 20                | 3-10                            | 10                     | 21                      | 7                | 3   | 9  | 12 | M2.5/M4 | 27.2                                 | 11          | 750   | 59                    | 15                    | 0.1                  | 0.3                   | 1.5 |  |
|         |                       | 0.8/3               |                   |                                 |                        |                         |                  |     |    |    | 29.3    | 12                                   | 700         | 20  | 9                     | 0.15                  | 0.4                  | 2                     |     |  |
| KB3/20  | 2                     | 28                  | 25                | 3-12.7                          | 10                     | 27                      | 9                | 3.5 | 11 | 12 | M3/M4   | 40.1                                 | 25          | 1500  | 67                    | 12                    | 0.15                 | 0.3                   | 1.5 |  |
|         |                       | 1/3                 |                   |                                 |                        |                         |                  |     |    |    | 43.2    | 29                                   | 1300        | 21  | 11                    | 0.2                   | 0.4                  | 1.5                   |     |  |
|         |                       |                     |                   |                                 |                        |                         |                  |     |    |    | 49.1    | 30                                   | 1050        | 11  | 9                     | 0.25                  | 0.5                  | 2                     |     |  |
| KB3/45  | 4.5                   | 36                  | 32.5              | 6-16                            | 14                     | 34                      | 12               | 5   | 14 | 16 | M4/M5   | 86.5                                 | 98          | 6500  | 168                   | 32                    | 0.1                  | 0.3                   | 1.5 |  |
|         |                       | 3/5.9               |                   |                                 |                        |                         |                  |     |    |    | 92.9    | 110                                  | 4200        | 41  | 20                    | 0.2                   | 0.5                  | 2                     |     |  |
| KB3/100 | 10                    | 41                  | 40.5              | 6-22                            | 16                     | 41,5                    | 15.5             | 5   | 14 | 20 | M4/M6   | 135                                  | 235         | 8100  | 120                   | 27                    | 0.15                 | 0.4                   | 1.5 |  |
|         |                       | 3/10                |                   |                                 |                        |                         |                  |     |    |    | 154     | 292                                  | 6800        | 29  | 17                    | 0.3                   | 0.6                  | 2                     |     |  |

- ⊙ Speed: max. 15000 min<sup>-1</sup>
- ⊙ Hub: Bore Tolerance: H7      Keyway acc. DIN 6885 optional
- ⊙ Material: Bellows - Stainless Steel  
Hub - Aluminium (also available in Stainless Steel)
- ⊙ Temperature Range: -30° ~ 120° C

