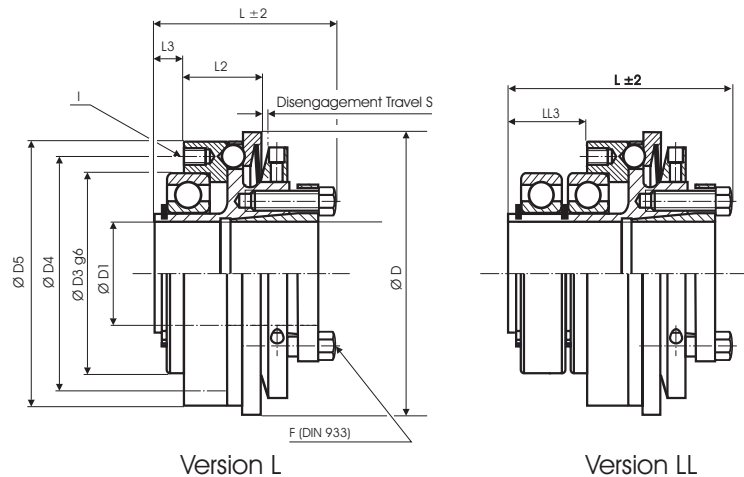


### Safety Coupling



**Order Code: KBK/L - 60 - 20H7 - 20Nm - C oder D - 2**

Type - Size

Bore D1 (H7)

Disengagement Torque

Overload Torque Range

Single Position = C

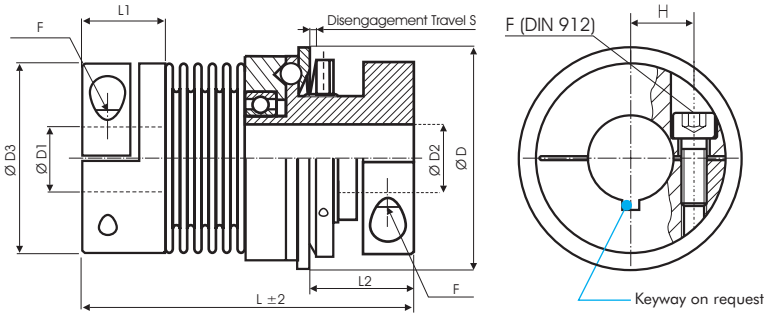
D = Multi Position Engagement

| KBK/L-x<br>KBK/LL-x | Dimensions (mm) |                                |      |      |      |                           |    |                 |     |   |                  | Technical Ratings          |          |                                  |              |   |
|---------------------|-----------------|--------------------------------|------|------|------|---------------------------|----|-----------------|-----|---|------------------|----------------------------|----------|----------------------------------|--------------|---|
|                     | Ø D             | Ø D1                           | Ø D3 | Ø D4 | Ø D5 | L · LL                    | L2 | L3 · LL3        | S   | I   | F                | Overload Torque adjustable |          | Maximum Speed<br>rpm.<br>(1/min) | Mass<br>(kg) | Moment of Inertia<br>J<br>(kg cm <sup>2</sup> ) |
|                     | Outer           | Bore Size<br>(H7)<br>min ~ max |      |      |      | Length<br>KBK/L<br>KBK/LL |    | KBK/L<br>KBK/LL | 6x  | Screw<br>(DIN 933)<br>T <sub>A</sub> (Nm) | 1<br>TKN<br>(Nm) | 2<br>TKN<br>(Nm)           |          |                                  |              |   |
| -10                 | 49              | 6-16                           | 37   | 42   | 47   | 36                        | 15 | 5               | 0.7 | M3  | M3               | 2-5                        | 5-10     | 12000                            | 0.25         | 1   |
|                     |                 |                                |      |      |      | 46                        |    | 15              |     |   | 4                |                            |          |                                  |              |   |
| -30                 | 64              | 8-20                           | 47   | 53   | 60   | 43                        | 18 | 6               | 1.2 | M4  | M5               | 5-15                       | 10-30    | 9400                             | 0.5          | 3   |
|                     |                 |                                |      |      |      | 60                        |    | 20              |     |   | 6                |                            |          |                                  |              |   |
| -60                 | 79              | 12-25                          | 62   | 69   | 75   | 58                        | 25 | 8               | 1.2 | M5  | M6               | 13-35                      | 20-65    | 7800                             | 1            | 6   |
|                     |                 |                                |      |      |      | 75                        |    | 26              |     |   | 8.5              |                            |          |                                  |              |   |
| -80                 | 94              | 15-35                          | 68   | 80   | 90   | 60                        | 26 | 10              | 2   | M6  | M6               | 15-40                      | 30-80    | 6400                             | 1.6          | 17  |
|                     |                 |                                |      |      |      | 76                        |    | 27              |     |   | 14               |                            |          |                                  |              |   |
| -150                | 94              | 15-35                          | 68   | 80   | 90   | 60                        | 26 | 10              | 2   | M6  | M6               | 50-130                     | 65-150   | 5500                             | 1.7          | 17  |
|                     |                 |                                |      |      |      | 76                        |    | 27              |     |   | 14               |                            |          |                                  |              |   |
| -200                | 109             | 20-40                          | 80   | 90   | 105  | 66                        | 30 | 10              | 2   | M6  | M6               | 30-90                      | 80-200   | 5500                             | 2.6          | 27  |
|                     |                 |                                |      |      |      | 85                        |    | 28              |     |   | 14               |                            |          |                                  |              |   |
| -300                | 119             | 30-46                          | 90   | 102  | 115  | 75                        | 32 | 10              | 2   | M8  | M8               | 60-200                     | 100-300  | 5000                             | 3.6          | 39  |
|                     |                 |                                |      |      |      | 95                        |    | 31              |     |   | 20               |                            |          |                                  |              |   |
| -500                | 129             | 35-50                          | 100  | 112  | 125  | 75                        | 32 | 10              | 2   | M8  | M8               | 80-250                     | 200-500  | 4500                             | 4.4          | 80  |
|                     |                 |                                |      |      |      | 95                        |    | 31              |     |   | 26               |                            |          |                                  |              |   |
| -800                | 169             | 40-60                          | 110  | 125  | 165  | 110                       | 50 | 15              | 2   | M12                                       | M16              | 260-600                    | 500-900  | 3500                             | 12           | 278   |
|                     |                 |                                |      |      |      | 133                       |    | 38              |     |   | 45               |                            |          |                                  |              |   |
| -1400               | 169             | 40-60                          | 110  | 125  | 165  | 110                       | 50 | 15              | 2   | M12                                       | M16              | 450-900                    | 800-1400 | 3500                             | 12           | 278   |
|                     |                 |                                |      |      |      | 113                       |    | 38              |     |   | 80               |                            |          |                                  |              |   |
| -1600               | 194             | 60-90                          | 150  | 168  | 190  | 125                       | 60 | 19              | 2   | M12                                       | M14              | 500-1000                   | 900-1600 | 3000                             | 16           | 325   |
|                     |                 |                                |      |      |      | 133                       |    | 47              |     |   | 100              |                            |          |                                  |              |   |

Keyway acc. DIN 6885 optional

Temperature Range: -30° ~ 120° C

### Safety Coupling



**Order Code: KBK/BK - 60 - 105 - 16H7 - 14H7 - 20Nm - C or D - 1 - S**

Type / Size      Length      Ø D2 (H7)      Ø D2 (H7)      Disengagement Torque      Overload Torque Range      Options

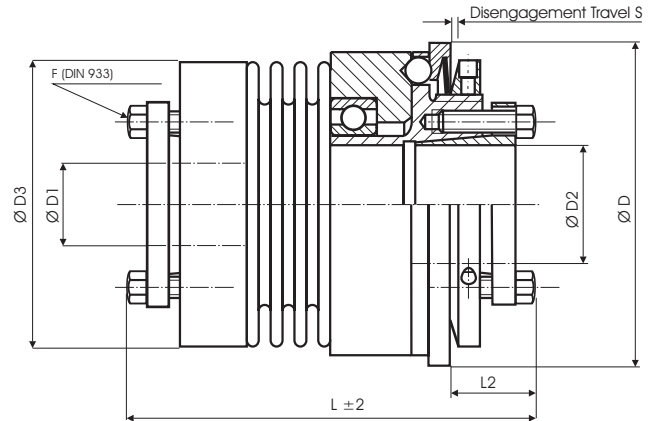
C = Single Position    D = Multi Position Engagement

| KBK/BK-x    | Dimensions (mm) |        |                              |                              |              |  |     |    |      |     | Technical Ratings                |              |   |                              |                              |  |                                    |                                   |                                   |                                  |                                   |
|-------------|-----------------|--------|------------------------------|------------------------------|--------------|--|-----|----|------|-----|----------------------------------|--------------|---|------------------------------|------------------------------|--|------------------------------------|-----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|
|             | Ø D             | L      | Ø D1                         | Ø D2                         | Ø D3         | H                                      | F   | L1 | L2   | S   | Maximum Speed<br>rpm.<br>(1/min) | Mass<br>(kg) | Moment of Inertia<br>J<br>(kg cm <sup>2</sup> ) | Overload Torque adjustable   |                              | Spring Stiffness   |                                    |                                   | Misalignment                      |                                  |                                   |
|             | Outer Ø         | Length | Bore Size (H7)<br>min<br>max | Bore Size (H7)<br>min<br>max | Hub-diameter | Screw (DIN 912)<br>T <sub>A</sub> (Nm) |     |    |      |     |                                  |              |   | 1<br>T <sub>KN</sub><br>(Nm) | 2<br>T <sub>KN</sub><br>(Nm) | torsional<br>x10 <sup>3</sup> C <sub>T</sub><br>(Nm/rad) | radial<br>C <sub>R</sub><br>(N/mm) | axial<br>C <sub>A</sub><br>(N/mm) | radial<br>ΔK <sub>r</sub><br>(mm) | axial<br>ΔK <sub>a</sub><br>(mm) | angular<br>ΔK <sub>w</sub><br>(°) |
| <b>-7</b>   | 49              | 65     | 6                            | 6                            | 40           | 15.5                                   | M4  | 16 | 20   | 0.7 | 11690                            | 0.25         | 0.7   | 1                            | 3                            | 8.1  | 120                                | 27                                | 0.15                              | 0.4                              | 1.5                               |
|             |                 | 75     | 25                           | 19                           |              |  | 5.1 |    |      |     |                                  |              |   | 4                            | 7                            | 6.8  | 29                                 | 17                                | 0.3                               | 0.6                              | 2                                 |
| <b>-10</b>  | 49              | 65     | 6                            | 6                            | 40           | 15.5                                   | M4  | 16 | 20   | 0.7 | 11690                            | 0.25         | 0.7   | 3                            | 5                            | 8.1  | 120                                | 27                                | 0.15                              | 0.4                              | 1.5                               |
|             |                 | 75     | 25                           | 19                           |              |  | 5.1 |    |      |     |                                  |              |   | 7                            | 10                           | 6.8  | 29                                 | 17                                | 0.3                               | 0.6                              | 2                                 |
| <b>-30</b>  | 64              | 85     | 10                           | 10                           | 56           | 20                                     | M6  | 25 | 30.5 | 1.2 | 9540                             | 0.7          | 3.2   | 5                            | 10                           | 38   | 720                                | 50                                | 0.15                              | 0.6                              | 1.5                               |
|             |                 | 94     | 25                           | 20                           |              |  | 15  |    |      |     |                                  |              |   | 15                           | 30                           | 28   | 225                                | 28                                | 0.25                              | 1                                | 2                                 |
| <b>-60</b>  | 79              | 105    | 14                           | 14                           | 66           | 23                                     | M8  | 30 | 28   | 1.2 | 8180                             | 1.4          | 8   | 12                           | 20                           | 75   | 1150                               | 90                                | 0.15                              | 0.6                              | 1.5                               |
|             |                 | 115    | 35                           | 25                           |              |  | 36  |    |      |     |                                  |              |   | 35                           | 60                           | 50   | 340                                | 50                                | 0.25                              | 1                                | 2                                 |
| <b>-80</b>  | 94              | 113    | 20                           | 20                           | 82           | 33.5                                   | M10 | 33 | 42   | 2   | 6220                             | 2.3          | 19  | 15                           | 30                           | 128  | 1200                               | 80                                | 0.2                               | 0.5                              | 1.5                               |
|             |                 | 125    | 40                           | 35                           |              |  | 72  |    |      |     |                                  |              |   | 40                           | 80                           | 75   | 400                                | 50                                | 0.25                              | 0.8                              | 2                                 |
| <b>-150</b> | 94              | 113    | 20                           | 20                           | 82           | 33.5                                   | M10 | 33 | 42   | 2   | 6220                             | 2.4          | 30  | 50                           | 65                           | 155  | 2020                               | 145                               | 0.2                               | 0.5                              | 1.5                               |
|             |                 | 125    | 40                           | 35                           |              |  | 72  |    |      |     |                                  |              |   | 130                          | 150                          | 105  | 595                                | 85                                | 0.25                              | 0.8                              | 2                                 |
| <b>-200</b> | 109             | 125    | 25                           | 25                           | 90           | 38                                     | M12 | 38 | 42   | 2   | 5720                             | 3            | 33  | 30                           | 80                           | 175  | 2500                               | 147                               | 0.2                               | 0.5                              | 1.5                               |
|             |                 | 138    | 42                           | 32                           |              |  | 125 |    |      |     |                                  |              |   | 90                           | 200                          | 116  | 460                                | 82                                | 0.25                              | 0.8                              | 2                                 |
| <b>-300</b> | 119             | 140    | 32                           | 32                           | 110          | 38                                     | M12 | 38 | 38   | 2   | 5200                             | 5.3          | 65  | 60                           | 100                          | 502  | 6300                               | 280                               | 0.2                               | 0.5                              | 1.5                               |
|             |                 | 150    | 50                           | 40                           |              |  | 125 |    |      |     |                                  |              |   | 200                          | 300                          | 285  | 1400                               | 145                               | 0.25                              | 0.8                              | 2                                 |
| <b>-500</b> | 129             | 158    | 40                           | 35                           | 122          | 42                                     | M12 | 42 | 56   | 2   | 4470                             | 6.2          | 130   | 80                           | 200                          | 690  | 7790                               | 100                               | 0.2                               | 0.5                              | 1.5                               |
|             |                 | 170    | 60                           | 50                           |              |  | 125 |    |      |     |                                  |              |   | 250                          | 500                          | 320  | 970                                | 85                                | 0.25                              | 1                                | 2                                 |

Material: Bellows - Stainless Steel  
 Hub (KBK/BK7, KBK/BK10, KBK/BK30, KBK/BK60) Aluminium  
 Hub (KBK/BK80, KBK/BK150, KBK/BK200, KBK/BK300, KBK/BK500) Steel

Temperature Range: -30° ~ 120° C

### Safety Coupling



**Order Code: KBK/BI - 60 - 100 - 15H7 - 18H7 - 20Nm - C oder D - 2**

Type / Size

Length

Ø D2 (H7)

Ø D2 (H7)

Disengagement Torque

oder

Overload Torque Range

C = Single Position D = Multi Position Engagement

| KBK/BI-x     | Dimensions (mm) |        |                           |                           |                            |               |               |  | Technical Ratings                |              |   |                            |                       |                       |                      |                       |              |     |     |
|--------------|-----------------|--------|---------------------------|---------------------------|----------------------------|---------------|---------------|--|----------------------------------|--------------|---|----------------------------|-----------------------|-----------------------|----------------------|-----------------------|--------------|-----|-----|
|              | ØD              | L      | ØD1                       | ØD2                       | ØD3                        | F             | L2            | S  | Maximum speed<br>rpm.<br>(1/min) | Mass<br>(kg) | Moment of Inertia<br>J<br>(kg cm <sup>2</sup> ) | Overload Torque adjustable |                       | Spring Stiffness      |                      |                       | Misalignment |     |     |
|              | Outer Ø         | Length | Bore Size (H7)<br>min~max | Bore Size (H7)<br>min~max | Screw (DIN 933)<br>TA (Nm) | 1<br>TKN (Nm) | 2<br>TKN (Nm) | torsional<br>x10 <sup>3</sup> Cr<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>(°) |              |     |     |
| <b>-10</b>   | 49              | 68     | 6-14                      | 6-14                      | 40.5                       | M3            | 10            | 0.7  | 11650                            | 0.25         | 0.7   | 3-7                        | 5-10                  | 8.1                   | 120                  | 27                    | 0.15         | 0.4 | 1.5 |
|              |                 | 78     |                           |                           |                            | 6.8           |               |  |                                  |              |   |                            |                       | 29                    | 17                   | 0.3                   | 0.6          | 2   |     |
| <b>-30</b>   | 64              | 85     | 10-20                     | 10-20                     | 56                         | M5            | 12            | 1.2  | 9540                             | 0.7          | 3.2   | 5-15                       | 10-30                 | 38                    | 720                  | 50                    | 0.15         | 0.6 | 1.5 |
|              |                 | 94     |                           |                           |                            | 28            |               |  |                                  |              |   |                            |                       | 225                   | 28                   | 0.25                  | 1            | 2   |     |
| <b>-60</b>   | 79              | 100    | 15-25                     | 15-25                     | 66                         | M6            | 13            | 1.2  | 8180                             | 1.4          | 8   | 12-35                      | 20-60                 | 75                    | 1150                 | 90                    | 0.15         | 0.6 | 1.5 |
|              |                 | 110    |                           |                           |                            | 50            |               |  |                                  |              |   |                            |                       | 340                   | 50                   | 0.25                  | 1            | 2   |     |
| <b>-80</b>   | 94              | 115    | 20-35                     | 20-35                     | 82                         | M6            | 15            | 2  | 6220                             | 2.3          | 19  | 15-40                      | 30-80                 | 128                   | 1200                 | 80                    | 0.2          | 0.5 | 1.5 |
|              |                 | 128    |                           |                           |                            | 75            |               |  |                                  |              |   |                            |                       | 400                   | 50                   | 0.25                  | 0.8          | 2   |     |
| <b>-150</b>  | 94              | 115    | 20-35                     | 20-35                     | 82                         | M6            | 15            | 2  | 6220                             | 2.4          | 20  | 50-130                     | 65-150                | 155                   | 2020                 | 145                   | 0.2          | 0.5 | 1.5 |
|              |                 | 128    |                           |                           |                            | 105           |               |  |                                  |              |   |                            |                       | 595                   | 85                   | 0.25                  | 0.8          | 2   |     |
| <b>-200</b>  | 109             | 125    | 20-40                     | 20-40                     | 90                         | M6            | 15            | 2  | 5720                             | 3            | 33  | 30-90                      | 80-200                | 175                   | 2500                 | 147                   | 0.2          | 0.5 | 1.5 |
|              |                 | 135    |                           |                           |                            | 116           |               |  |                                  |              |   |                            |                       | 460                   | 82                   | 0.25                  | 0.8          | 2   |     |
| <b>-300</b>  | 119             | 135    | 30-50                     | 30-46                     | 110                        | M8            | 19            | 2  | 5200                             | 5.3          | 65  | 60-200                     | 100-300               | 502                   | 6300                 | 280                   | 0.2          | 0.5 | 1.5 |
|              |                 | 145    |                           |                           |                            | 285           |               |  |                                  |              |   |                            |                       | 1400                  | 145                  | 0.25                  | 0.8          | 2   |     |
| <b>-500</b>  | 129             | 150    | 35-55                     | 35-50                     | 122                        | M8            | 18.5          | 2  | 4470                             | 7            | 170   | 80-250                     | 200-500               | 690                   | 7790                 | 100                   | 0.2          | 0.5 | 1.5 |
|              |                 | 162    |                           |                           |                            | 320           |               |  |                                  |              |   |                            |                       | 970                   | 85                   | 0.25                  | 1            | 2   |     |
| <b>-800</b>  | 169             | 235    | 40-70                     | 40-60                     | 157                        | M16           | 30            | 2  | 3350                             | 19           | 540   | 240-600                    | 500-800               | 700                   | 500                  | 185                   | 0.2          | 0.8 | 1.8 |
|              |                 |        |                           |                           |                            | 45            |               |  |                                  |              |   |                            |                       |                       |                      |                       |              |     |     |
| <b>-1400</b> | 169             | 235    | 40-70                     | 40-60                     | 157                        | M16           | 30            | 2  | 3350                             | 20           | 560   | 360-1000                   | 900-1400              | 1270                  | 700                  | 275                   | 0.2          | 0.8 | 1.8 |
|              |                 |        |                           |                           |                            | 80            |               |  |                                  |              |   |                            |                       |                       |                      |                       |              |     |     |
| <b>-1600</b> | 194             | 250    | 60-90                     | 70-90                     | 157                        | M12           | 32            | 2  | 3000                             | 22           | 600   | 360-1000                   | 900-1600              | 2810                  | 2945                 | 305                   | 0.2          | 0.8 | 1.5 |
|              |                 |        |                           |                           |                            | 90            |               |  |                                  |              |   |                            |                       |                       |                      |                       |              |     |     |

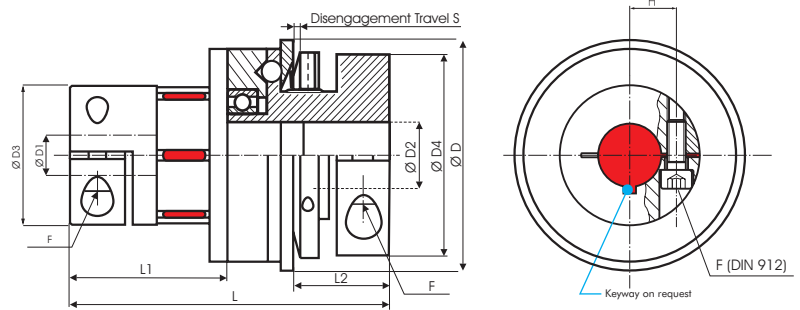
Material: Bellows: Stainless Steel

Hub: Steel (also available in Stainless Steel)

Keyway acc. DIN 6885 optional

Temperature Range: -30°C ~ 120°C

### Torque Limiting



**Oder Code: KBK/EK - 24 - 16H7 - 14H7 - 20Nm - CoderD - 2**

Type - Size

Bore D1(H7)

Bore D2(H7)

Disengagement Torque

**CoderD - 2**

Overload Torque Range

C = Single Position, D = Multi Position Engagement

| KBK/EK-x | Dimensions (mm) |        |                        |                        |      |      |      |  |    |    |     | Technical Ratings |      |                         |                      |                            |                           |                                |                               |                                |
|----------|-----------------|--------|------------------------|------------------------|------|------|------|--|----|----|-----|-------------------|------|-------------------------|----------------------|----------------------------|---------------------------|--------------------------------|-------------------------------|--------------------------------|
|          | Ø D             | L      | Ø D1                   | Ø D2                   | Ø D3 | Ø D4 | H    | F                                      | L1 | L2 | S   | Maximum Speed     | Mass | Moment of Inertia       | Torque               | Overload Torque adjustable |                           | Misalignment                   |                               |                                |
|          | Outer Ø         | Length | Bore (H7)<br>min ~ max | Bore (H7)<br>min ~ max |      |      |      | Screw (DIN 912)<br>T <sub>A</sub> (Nm) |    |    |     | rpm. (1/min)      | (kg) | J (kg cm <sup>2</sup> ) | T <sub>KN</sub> (Nm) | 1<br>T <sub>KN</sub> (Nm)  | 2<br>T <sub>KN</sub> (Nm) | radial<br>ΔK <sub>r</sub> (mm) | axial<br>ΔK <sub>a</sub> (mm) | angular<br>ΔK <sub>w</sub> (°) |
| -14      | 49              | 65     | 4-14                   | 6-19                   | 30   | 40   | 15.5 | M4                                     | 16 | 20 | 0.7 | 11690             | 0.3  | 1.4                     | 12.5                 | 3-7                        | 5-10                      | 0.06                           | 1.2                           | 0.9                            |
|          |                 |        |                        |                        |      |      |      | 5.1                                    |    |    |     |                   |      |                         |                      |                            |                           |                                |                               |                                |
| -19      | 64              | 100    | 10-20                  | 10-20                  | 40   | 56   | 24.5 | M6                                     | 25 | 22 | 1.2 | 8950              | 0.5  | 3                       | 17                   | 5-15                       | 10-19                     | 0.06                           | 1.2                           | 0.9                            |
|          |                 |        |                        |                        |      |      |      | 15                                     |    |    |     |                   |      |                         |                      |                            |                           |                                |                               |                                |
| -24      | 79              | 115    | 15-28                  | 14-23                  | 55   | 66   | 29   | M8                                     | 30 | 28 | 1.2 | 7630              | 0.7  | 5.4                     | 60                   | 12-35                      | 20-60                     | 0.08                           | 1.3                           | 0.9                            |
|          |                 |        |                        |                        |      |      |      | 36                                     |    |    |     |                   |      |                         |                      |                            |                           |                                |                               |                                |
| -28      | 94              | 142    | 19-35                  | 20-35                  | 65   | 82   | 33.5 | M10                                    | 33 | 42 | 2   | 6030              | 1.4  | 9.7                     | 160                  | 50-130                     | 65-150                    | 0.1                            | 1.4                           | 0.9                            |
|          |                 |        |                        |                        |      |      |      | 72                                     |    |    |     |                   |      |                         |                      |                            |                           |                                |                               |                                |
| -38      | 119             | 160    | 20-45                  | 32-40                  | 80   | 110  | 38   | M12                                    | 38 | 38 | 2   | 4980              | 2.2  | 23                      | 325                  | 60-200                     | 100-300                   | 0.11                           | 1.5                           | 0.9                            |
|          |                 |        |                        |                        |      |      |      | 125                                    |    |    |     |                   |      |                         |                      |                            |                           |                                |                               |                                |
| -42      | 129             | 195    | 28-45                  | 35-50                  | 95   | 122  | 42   | M12                                    | 42 | 56 | 2   | 4440              | 4.6  | 80                      | 450                  | 80-250                     | 200-500                   | 0.12                           | 1.8                           | 0.9                            |
|          |                 |        |                        |                        |      |      |      | 125                                    |    |    |     |                   |      |                         |                      |                            |                           |                                |                               |                                |

Material: Insert: Polyurethan 98 Sh A red  
Hub (KBK/EK-14, KBK/EK-19, KBK/EK-24, KBK/EK-28): Aluminium  
Hub (KBK/EK-38, KBK/EK-42): Steel

Keyway acc. DIN 6885 optional

Temperature Range: -30°C ~ 90°C

Form of Hubs (KBK/EK-14, KBK/EK-19): Single Slit  
Form of Hubs (KBK/EK-24, KBK/EK-28, KBK/EK-38, KBK/EK-42): Double Slit