

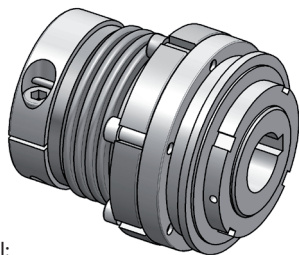
# Safety Coupling I Series SKW - KP for direct drives

- with metal bellows coupling attachment for direct drives
- with feather keyway connection
- bellows side with EASY-clamping hub
- compensation of shaft misalignment
- low restoring forces

technical data:

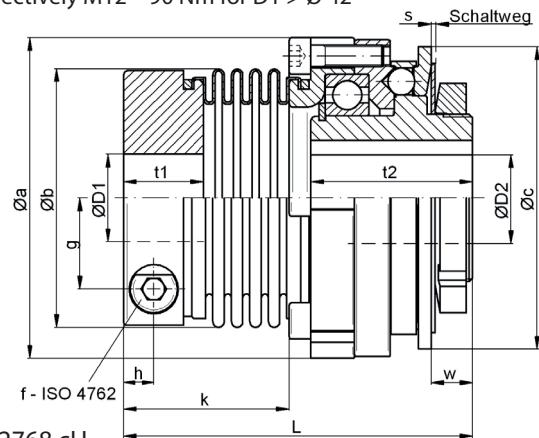
| SKW<br>- KP<br>Größe | setting range<br>disengagement<br>$T_{KA}$ [Nm] | moment of<br>inertia<br>[10 <sup>-3</sup> kgm <sup>2</sup> ] | mass<br>ca.<br>[kg] | torsional<br>stiffness<br>[Nm/arcmin] | max. shaft<br>misalignment [mm]<br>axial ± lateral | tightening torque<br>f [Nm] | Ø D1<br>min max | Ø D2<br>min max |
|----------------------|-------------------------------------------------|--------------------------------------------------------------|---------------------|---------------------------------------|----------------------------------------------------|-----------------------------|-----------------|-----------------|
| 6                    | 2 - 6                                           | 0,11                                                         | 0,4                 | 2,1                                   | 0,5 0,15                                           | M5(7)                       | 6 19(24)        | 6 12            |
| 12                   | 6 - 12                                          |                                                              |                     |                                       |                                                    |                             | 8 19(24)        | 6 12            |
| 15                   | 8 - 15                                          | 0,44                                                         | 0,9                 | 9                                     | 0,5 0,2                                            | M6(14)                      | 9 32            | 8 22            |
| 30                   | 13 - 30                                         |                                                              |                     |                                       |                                                    |                             | 12 32           | 10 22           |
| 45                   | 22 - 45                                         |                                                              |                     |                                       |                                                    |                             | 16 32           | 10 22           |
| 60                   | 25 - 60                                         | 1,35                                                         | 1,7                 | 20                                    | 0,6 0,2                                            | M8(35)                      | 14 38           | 11 32           |
| 100                  | 40 - 100                                        |                                                              |                     |                                       |                                                    |                             | 20 38           | 13 32           |
| 150                  | 60 - 150                                        |                                                              |                     |                                       |                                                    |                             | 25 38           | 16 32           |
| 230                  | 80 - 230                                        | 5,0                                                          | 3,8                 | 28                                    | 0,8 0,2                                            | M10(65)*                    | 22 43           | 18 38           |
| 330                  | 130 - 330                                       |                                                              |                     |                                       |                                                    |                             | 32 43           | 21 38           |
| 500                  | 200 - 500                                       | 12,5                                                         | 6,3                 | 52                                    | 0,8 0,2                                            | M12(115)*                   | 30 55           | 26 55           |
| 800                  | 350 - 800                                       | 14,5                                                         | 6,9                 | 106                                   | 0,7 0,2                                            | M14(200)                    | 42 68           | 38 55           |
| 1000                 | 500 - 1000                                      | 56                                                           | 15                  | 150                                   | 0,8 0,2                                            | M14(200)                    | 50 68           | 39 90           |
| 2000                 | 800 - 2000                                      | 72                                                           | 17                  | 210                                   | 1,0 0,3                                            | M16 (300)                   | 60 90           | 39 90           |
| 3000                 | 1500 - 3000                                     | 250                                                          | 45                  | 720                                   | 2,0 1,2                                            | -                           | 50 135          | 50 110          |
| 6000                 | 3000 - 6000                                     | 300                                                          | 50                  | 1300                                  | 2,0 1,4                                            | -                           | 50 140          | 50 110          |
| 9000                 | 6000 - 9000                                     | 300                                                          | 50                  | 1600                                  | 2,0 1,4                                            | -                           | 50 140          | 50 110          |

\* note: reduced tightening torque M10 – 50 Nm for D1 > Ø 35 respectively M12 – 90 Nm for D1 > Ø 42



material:

safety part: tempered steel  
clamping hub: high-tensile aluminum  
bellows: stainless steel  
screws: nickel-plated  
temperature range: -30°C up to +200°C



Dimensions [mm]: length dimensions according to DIN ISO 2768 cH

| SKW - KP   | Øa   | Øb     | Øc  | g    | h    | k*      | L±1     | s   | t1   | t2   | w    |
|------------|------|--------|-----|------|------|---------|---------|-----|------|------|------|
| 6/12       | 52,5 | 40(45) | 48  | 13   | 6    | 36,6    | 71      | 0,9 | 16,5 | 31   | 5,8  |
| 15/30/45   | 69   | 56     | 66  | 19   | 8    | 43      | 84,5    | 1,2 | 20   | 38   | 8,6  |
| 60/100/150 | 88   | 71     | 83  | 25   | 9    | 45,5    | 96      | 1,6 | 22   | 44,5 | 11,4 |
| 230/330    | 115  | 82     | 109 | 28,5 | 11,5 | 52      | 119     | 1,8 | 26   | 59,5 | 13,7 |
| 500        | 137  | 101    | 132 | 35   | 13   | 60,5    | 137,5   | 2,5 | 29   | 68,5 | 18,4 |
| 800        | 137  | 122    | 132 | 42   | 16   | 74,5    | 151,5   | 2,5 | 34   | 68,5 | 18,4 |
| 1000       | 181  | 133    | 185 | 47   | 18,5 | 87,5    | 186     | 3,7 | 45   | 90,5 | 40,4 |
| 2000       | 181  | 157    | 185 | 54   | 17,5 | 99      | 198     | 3,7 | 45   | 90,5 | 40,4 |
| 3000       | 243  | 203    | 236 | -    | -    | 126/182 | 257/313 | 3,0 | 100  | 127  | 57   |
| 6000       | 243  | 236    | 236 | -    | -    | 143/188 | 267/312 | 3,0 | 100  | 127  | 53   |
| 9000       | 243  | 236    | 236 | -    | -    | 143/188 | 267/312 | 3,0 | 100  | 127  | 49   |

\* note: alternative bellows lengths available on request

order example: SKW - KP 30 - D1 = 28 <sup>G6</sup> m. PFN 8 JS9 x 3,3 - D2 = 22 <sup>H7</sup> m. PFN 6P9 x 2,8 - TKA = 25 Nm