

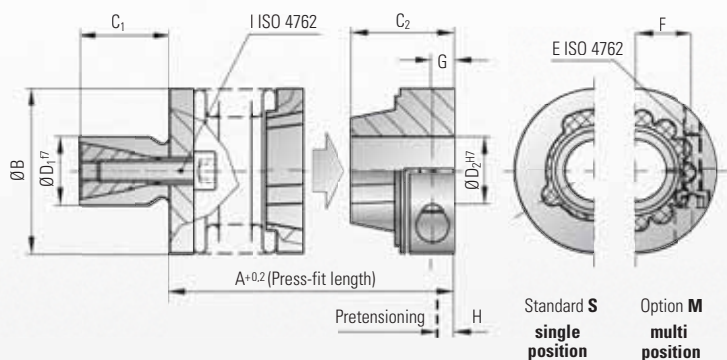
optional  
stainless  
steel

# MODEL MK6

## TECHNICAL SPECIFICATIONS



Press-fit precision metal bellows couplings



### Properties:

- electrically insulated
- self-adjusting
- no wear
- easy mounting and dismantling
- backlash-free and torsionally rigid
- low moment of inertia
- compensates for 3-axis of misalignment

### Material:

Bellows made of highly flexible high-grade stainless steel, clamping hub aluminium. Expanding hub and cone (steel)

### Design:

On one side an expanding shaft with tapered clamping element. On one side a clamping hub. Backlash-free, blind mate press-fit connection (glass-fiber reinforced plastic)

### Temperature range:

-30° to +110° C (3,6 F to 230 F),

### Speed:

Up to 10,000 rpm, in excess of 10,000 rpm available with balanced version

### Service life:

These couplings have an infinite life, and are maintenance-free if the technical ratings are not exceeded.

### Fit tolerance:

On the hub/shaft connection 0.01 to 0.05 mm.

### Ordering example

MK6/20 / 28 / 12 / 12 / XX

Model  
Series/Nm  
Overall length (mm)  
Shaft Ø D1 f7  
Bore Ø D2 H7  
non standard e.g. Option M

| Model MK 6                                    |                  | Series |     |      |      |     |        |      |      |      |      |      |      |
|---|------------------|--------|-----|------|------|-----|--------|------|------|------|------|------|------|
|   |                  | 5      |     |      | 15   |     | 20     |      |      | 45   |      | 100  |      |
| Rated torque (Nm)                             | T <sub>KN</sub>  | 0.5    |     |      | 1.5  |     | 2      |      |      | 4.5  |      | 10   |      |
| Length without pretensioning (mm)             | A                | 21     | 24  | 27   | 27   | 32  | 28     | 34   | 38   | 38   | 46   | 45   | 55   |
| Outer diameter (mm)                           | B                | 15     |     |      | 19   |     | 25     |      |      | 32   |      | 40   |      |
| Shaft length (mm)                             | C <sub>1</sub>   | 10     |     |      | 12   |     | 12     |      |      | 15   |      | 20   |      |
| Standard shaft Ø f7 (mm)                      | D <sub>1</sub>   | 8      |     |      | 10   |     | 12     |      |      | 14   |      | 16   |      |
| Fit length (mm)                               | C <sub>2</sub>   | 12     |     |      | 14   |     | 16     |      |      | 20   |      | 21.5 |      |
| Special bores from Ø to Ø H7 (mm)             | D <sub>2</sub>   | 3-6.35 |     |      | 3-8  |     | 3-12.7 |      |      | 5-16 |      | 5-20 |      |
| Standard bore H7 (mm)                         | D <sub>2</sub>   | 6      |     |      | 6    |     | 6/10   |      |      | 10   |      | 10   |      |
| ISO 4762 screws                               |                  | M2     |     |      | M2.5 |     | M3     |      |      | M4   |      | M4   |      |
| Tightening torque of the assembly screws (Nm) | E                | 0.43   |     |      | 0.85 |     | 2.3    |      |      | 4    |      | 4.5  |      |
| Distance between centers (mm)                 | F                | 4.5    |     |      | 6    |     | 8      |      |      | 10   |      | 15   |      |
| Distance (mm)                                 | G                | 3      |     |      | 3.5  |     | 4      |      |      | 5    |      | 5    |      |
| Pretensioning approx. (mm)                    | H                | 0.4    |     |      | 0.5  |     | 0.5    |      |      | 0.7  |      | 1    |      |
| ISO 4762 screws                               |                  | M3     |     |      | M4   |     | M4     |      |      | M5   |      | M6   |      |
| Tightening torque of the assembly screws (Nm) | I                | 1.5    |     |      | 3    |     | 4      |      |      | 6.5  |      | 11   |      |
| Axial recovery force (N)                      |                  | 5      | 3   | 2    | 4    | 3   | 3      | 4    | 3    | 15   | 10   | 33   | 46   |
| Mass moment of inertia (gcm <sup>2</sup> )    | J <sub>gBS</sub> | 3.0    | 3.2 | 3.5  | 9.0  | 10  | 28     | 30   | 33   | 110  | 120  | 220  | 230  |
| Torsional stiffness (Nm/rad)                  | C <sub>T</sub>   | 280    | 210 | 170  | 750  | 700 | 1200   | 1300 | 1200 | 7000 | 5000 | 9050 | 8800 |
| lateral (mm)                                  | Max. values      | 0.15   | 0.2 | 0.25 | 0.15 | 0.2 | 0.15   | 0.2  | 0.25 | 0.2  | 0.25 | 0.2  | 0.3  |
| angular (degrees)                             |                  | 1      | 1.5 | 2    | 1.5  | 1.5 | 1.5    | 1.5  | 2    | 1.5  | 2    | 1.5  | 2    |