# Metal Bellows Coupling KP

- 4-corrugation bellows
- Simple installation with EASY-clamping hub
- Short design
- High torsional stiffness



Smaller couplings from 2 Nm - 12 Nm, see MKP.

Size KP 25 - with 5-corrugation bellow and optional with EASY-PIN.

Please note reduced tightening torque for bigger hub bore diameter - see also Ø D 1/2max.

Tightening torque refers to screws.

Dimensions in mm. Length dimensions according to DIN ISO 2768 cH.

**Material:** Bellows: stainless steel Hubs: high-tensile strength aluminiume Clamping screws: ISO 4762 - 12.9 Press-fit wire: brass
**Temperature range (°C):** –40° to +200°C



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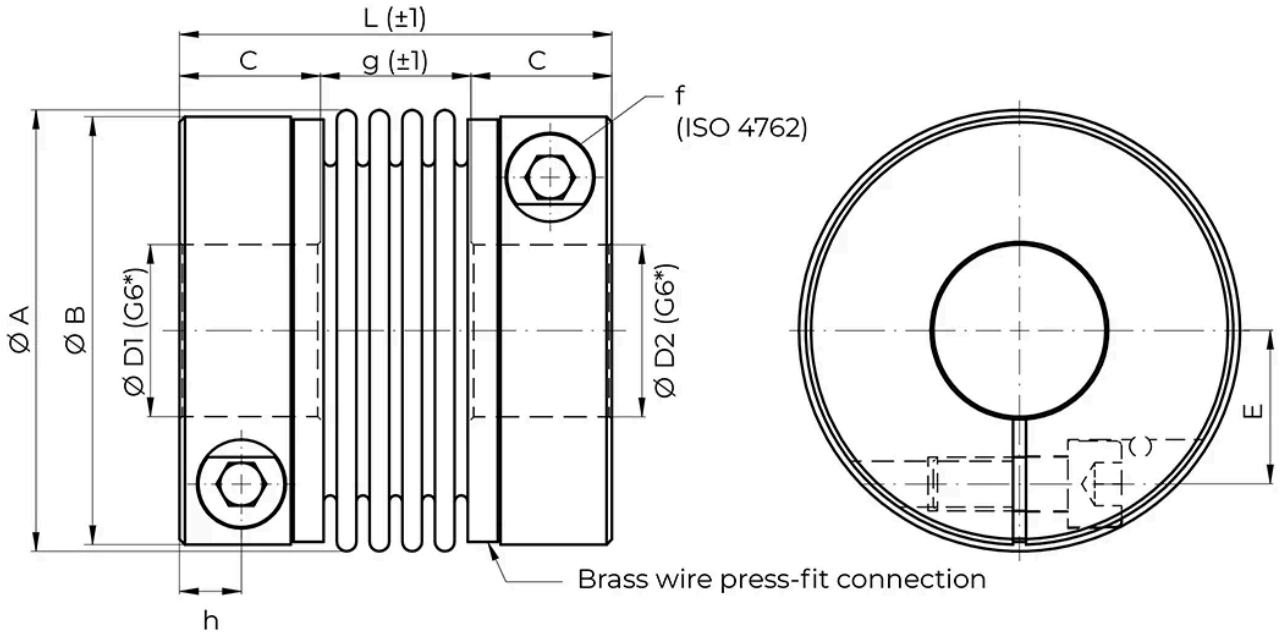
# General Data

| Designation | Nominal Torque (Nm) | Max. Torque (Nm) | Moment of inertia ($10^{-6}$kg*m²) | Torsional stiffness (Nm/arcmin) | Axial max. shaft misalignment (mm) |
|---|---|---|---|---|---|
| **KP25** | 25 | 50 | 0.064 | 4 | 0.5 |
| **KP35** | 35 | 70 | 0.13 | 9 | 0.5 |
| **KP60** | 60 | 120 | 0.27 | 14 | 0.6 |
| **KP100** | 100 | 200 | 0.35 | 20 | 0.6 |
| **KP170** | 170 | 340 | 0.76 | 28 | 0.8 |
| **KP270** | 270 | 540 | 2.0 | 52 | 0.8 |
| **KP400** | 400 | 600 | 2.15 | 74 | 0.7 |
| **KP600** | 600 | 900 | 5.0 | 106 | 0.7 |
| **KP900** | 900 | 1800 | 9.0 | 156 | 0.8 |

| Designation | Lateral max. shaft misalignment (mm) | Axial spring rate (N/mm) | Lateral spring rate (N/mm) | Tightening Torque (Nm) | Max. Speed (rpm) | Weight (kg) |
|---|---|---|---|---|---|---|
| **KP25** | 0.15 | 36 | 180 | 8 | 23 000 | 0.18 |
| **KP35** | 0.2 | 70 | 450 | 14 | 20 000 | 0.3 |
| **KP60** | 0.2 | 70 | 650 | 30 | 17 000 | 0.4 |
| **KP100** | 0.2 | 110 | 1 200 | 30 | 16 000 | 0.5 |
| **KP170** | 0.2 | 98 | 1 000 | 50 | 14 000 | 0.8 |
| **KP270** | 0.2 | 90 | 1 300 | 90 | 11 000 | 1.3 |
| **KP400** | 0.2 | 135 | 1 500 | 90 | 11 000 | 1.4 |
| **KP600** | 0.2 | 140 | 2 800 | 140 | 9 000 | 2.3 |
| **KP900** | 0.2 | 210 | 3 050 | 140 | 8 500 | 3.5 |

# Dimensions




*Other bore tolerances on request.



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| Designation | Nominal Torque (Nm) | A | B | L | C | g | f | E | ØD1/2 min. |
|---|---|---|---|---|---|---|---|---|---|
| **KP25** | 25 | 50 (±0.6) | 48 | 58 | 17 | 24 | M5 | 17 | 10 |
| **KP35** | 35 | 56 | - | 61 | 20 | 21 | M6 | 19 | 10 |
| **KP60** | 60 | 66 (±0.8) | 63 | 67 | 22.2 | 23 | M8 | 22 | 13 |
| **KP100** | 100 | 71 (±0.8) | 70 | 68 | 22 | 23.5 | M8 | 25 | 14 |
| **KP170** | 170 | 82 (±0.8) | 79.5 | 80 | 26 | 28 | M10 | 28.5 | 18 |
| **KP270** | 270 | 101 (±1) | 99 | 87 | 29 | 29 | M12 | 35 | 25 |
| **KP400** | 400 | 101 (±1) | 99 | 91 | 29 | 33 | M12 | 35 | 30 |
| **KP600** | 600 | 122 | - | 104 | 34 | 36 | M14 | 42 | 32 |
| **KP900** | 900 | 133 | - | 127 | 45 | 37 | M14 | 47 | 40 |

| Designation | ØD1/2 max. |
|---|---|
| **KP25** | 28 |
| **KP35** | 32 |
| **KP60** | 35 |
| **KP100** | 38 |
| **KP170** | 43 |
| **KP270** | 55 |
| **KP400** | 55 |
| **KP600** | 68 |
| **KP900** | 75 |



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