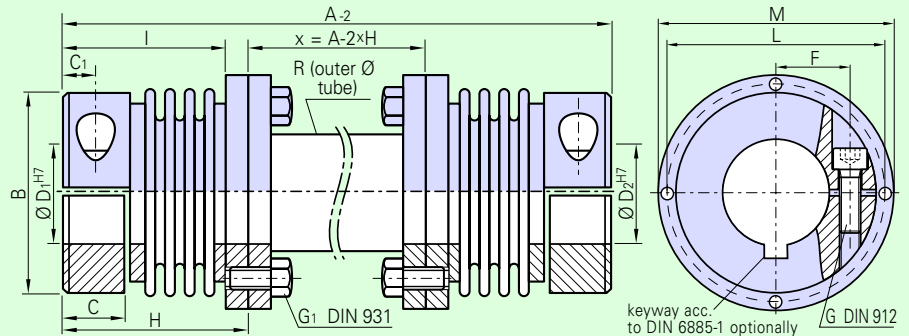


Backlash-free Metal Bellow Coupling Series AKN-ZW

type Line Shaft (flange design)



Technical Data Series AKN-ZW

| Type | | 18 | 30 | 60 | 150 | 200 | 300 | 500 |
|---|------------------|-------------|-------|--------|--------|--------|---------|---------|
| Nominal torque (Nm) | T _{KN} | 18 | 30 | 60 | 150 | 200 | 300 | 500 |
| Tightening torque of screws (Nm) | G | 6 | 15 | 30 | 70 | 80 | 90 | 145 |
| Tightening torque of flange screws (Nm) | G ₁ | 3 | 4 | 7 | 10 | 12 | 30 | 30 |
| Torsional stiffness (tube) (Nm/rad) | C per m | 1.610 | 7.120 | 12.700 | 22.350 | 72.000 | 251.000 | 337.000 |
| Max. speed (min ⁻¹) | n _{max} | 1.500 | 1.500 | 1.500 | 1.500 | 1.500 | 1.500 | 1.500 |
| Misalignment | | see page 10 | | | | | | |

Dimensions (mm) Series AKN-ZW

| Type | | 18 | 30 | 60 | 150 | 200 | 300 | 500 |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|
| A | (max.) | 3.000 | 3.000 | 3.000 | 3.000 | 3.000 | 3.000 | 3.000 |
| H | | 44,5 | 57,5 | 71 | 78 | 86 | 94 | 110 |
| B | | 45 | 56 | 66 | 80 | 90 | 96 | 110 |
| l | | 39 | 51 | 61 | 69 | 76 | 81 | 96 |
| C | | 12 | 15 | 19,5 | 21,5 | 25,5 | 26 | 29,5 |
| Ø D ₁ ^{H7} / Ø D ₂ ^{H7} | min. - max. | 10-25 | 20-25 | 23-35 | 28-35 | 32-42 | 40-45 | 40-60 |
| R (outer diameter tube) | | 35 | 50 | 60 | 75 | 90 | 100 | 110 |
| G (DIN 912) | | M5 | M6 | M8 | M10 | M12 | M12 | M12 |
| C ₁ | | 5 | 7,5 | 9,5 | 11 | 12,5 | 13 | 17 |
| G ₁ (DIN 931) | | 4 x M4 | 6 x M4 | 6 x M5 | 8 x M6 | 8 x M6 | 8 x M8 | 8 x M8 |
| L | | 45 | 62 | 72 | 88 | 100 | 120 | 132 |
| F | | 17,5 | 20 | 24 | 27 | 31 | 35 | 40 |
| M | | 52 | 70 | 80 | 98 | 110 | 135 | 148 |
| Tube/hub material | | Al/Al | Al/Al | Al/Al | Al/St | Al/St | St/St | St/St |

More length dimensions upon request! Please ask for technical advice if you require higher speeds, bigger fitting lengths or if you install the coupling in a vertical way. To facilitate the assembly we recommend to keep the distance dimension X of the shaft. For more information see the catalogue Backlash-free Metal Bellow Couplings.

For higher torque transmission of this coupling a conical hub design is available as an alternative to the clamping hub design.

Ordering data

| | | | | | | |
|---|---|------------------------|---|------------------------|---|--------------|
| AKN-ZW 18/500 | - | 10^{H7} | - | 25^{H7} | - | xxxxx |
| Type/total length | | | | | | |
| Bore size D ₁ | | | | | | |
| Bore size D ₂ | | | | | | |
| Additional details, e.g. stainless steel keyway, CFK-tube | | | | | | |

- Absolutely backlash free
- Installation length up to 6 m
- Simplest assembly
- Universal joint tube CFK (optional)